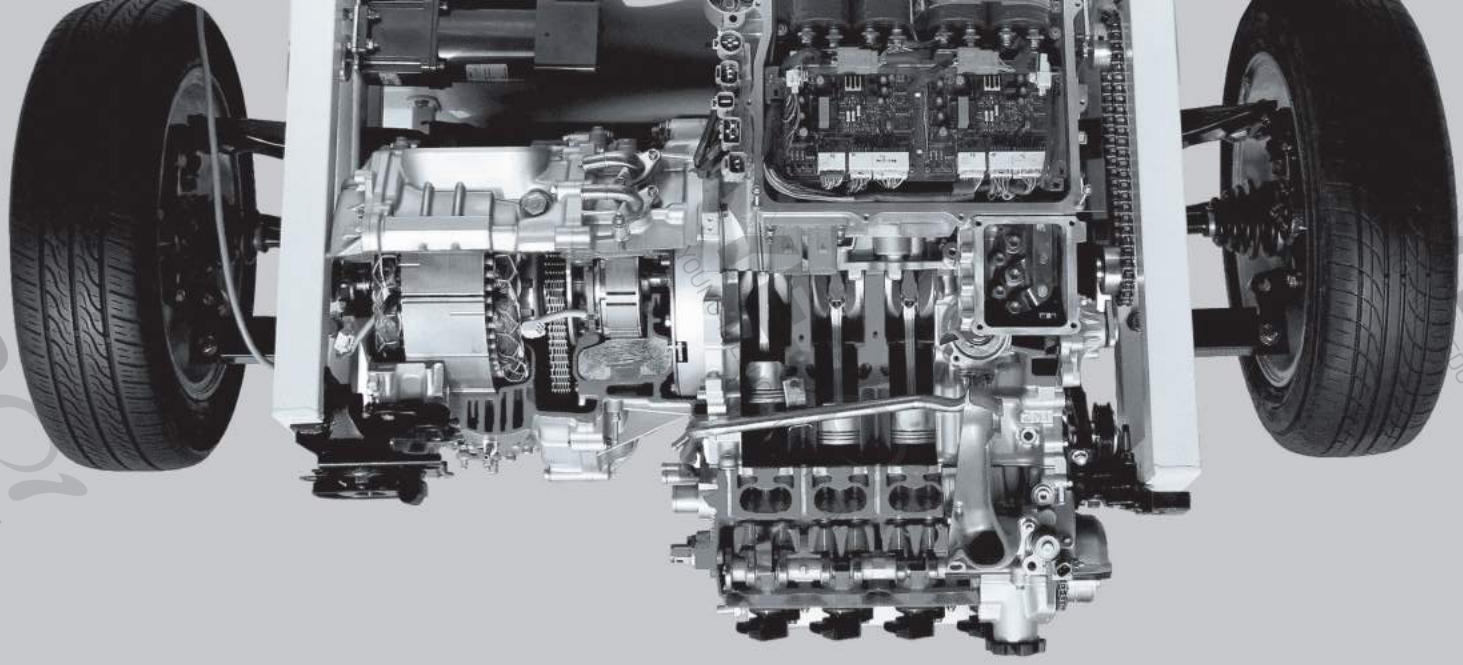

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www.yes01.co.kr YES01 YOUNG-IL EDUCATION SYSTEM

Automotive Training Equipment Catalog

Version AE4.0

YES01, NO1 Company in exporting technical teaching equipment in 2013, 2014, guides you to the way to reduce costs up to 30% and double effect of automotive training curriculum.

Company Introduction

Mission

1. to regard promise and trustworthy with clients as best assets of the company.
2. to execute sufficient operation training and strict regular inspection at delivery and checking of equipments.
3. to respond to clients needs by operating quick YES01 After Service System.
4. to increase R&D Invertment incessantly in order to develop state of the art educational practice equipments

Vision

Provide the vocational education support in developing countries to establish them a happy life through self-reliance and development

Core Value

1. Ownership
2. Active Thought
3. Mutual trust
4. Mind for Victory
5. Diligence & Sincerity

YES01 President & CEO

Business Area

Business Types

1. Manufacturing products for Educational & Vocational training equipment.
   - Automotive training equipment & Heavy machinery equipment.
   - Electronic, Electricity, Control, Renewable and Telecommunication equipment.
   - Refrigeration & Airconditioning Training equipment.
2. High Technology Training for Teachers & professors.
3. Cooperates with Turnkey based project EDCF, KOICA, ADEF etc.

Company Introduction

YES01,No1 Company in exporting technical teaching equipment in 2013,2014,guides you to the way to reduce costs up to 30% and double effect of automotive training curriculum.

1. K Sure(korea Trade insurance corporation) only choose YES01 as a global growth ladder company in technical teaching equipment sector in South Korea
2. PPS(Public procurement Service)Selects YES01 as an entered enterprise in the international procurement Business(PQ enterprise) in an automotive training equipment sector
3. No1 and international enterprise in Technical Teaching Equipment, over 10billion Revenue "Great place to work" award.

Yangju Branch Factory

Head Office

2014 17th Anniversary of the company

2014 Workshop for Management Plan Establishment

History

1999. 10 Change the trade name of company to YES01, Young-il Education System co,. Ltd.
2006. 06 Certified as a Venture Company
2007. 12 Established R&D center (Korea Industrial Technology Association)
2008. 06 Certified as INNO-BIZ SME (Small and medium-sized enterprises) for technical innovation oriented business
2009. 05 Certified as MAIN-BIZ SME (Small and medium-sized enterprises) for business innovation oriented business
2009. 10 Established automotive educational equipment 1st factory
2011 02 Established automotive educational equipment 2nd factory
2011. 05 P300 project selected by Korea Trade-Investment Promotion Agency
2011. 06 Export promising SME (Small and medium-sized enterprises) selected by Seoul SME director
2011. 08 Next Generation Export SME selected
2012. 04 Selected as the E-Trade Frontier Company
2012. 05 Selected as the Military Service Company
2012. 11 4 Million Capital Increase
2012. 12 3 milion Export Tower Award
2013. 01 Hi-Seoul Brand Company selected
2013. 04 KOTRA GLOBAL BRAND 2013 selected
2013. 09 SME Innovation Technology Show Award
2013. 09 2013 Companies People Want to Work For the Most selected
2013. 10 Companies for Work-Life Balance selected
2013. 12 Gyeonggi-do export merit award
2014. 02 Selected as the KSURE Global Growth Ladder Enterprise
2015. 01 5 milion Export Tower Award

USD 5milion Export Tower Award

USD 3milion Export Tower Award

Awards

Trade Korea, 5million Export Tower

K Sure, Global growth ladder company

PPS, PQ enterprise company

2013 Export Award

Hi-Seoul Brand company

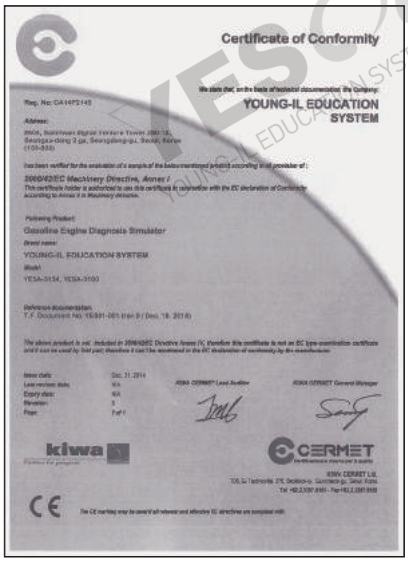
PPS, PQ enterprise company

Great place to work

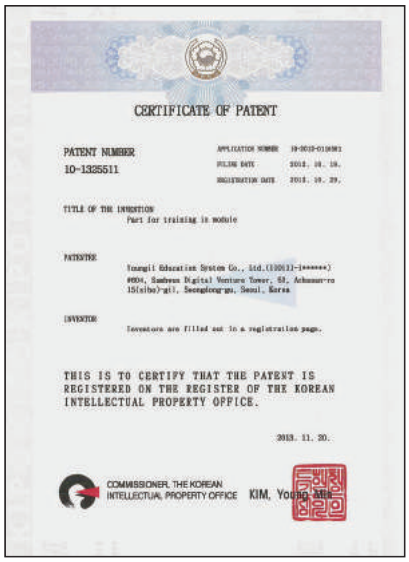
Innobiz, Great company to work

Export Merit Award

Patent and Certification



Certificate of Conformity

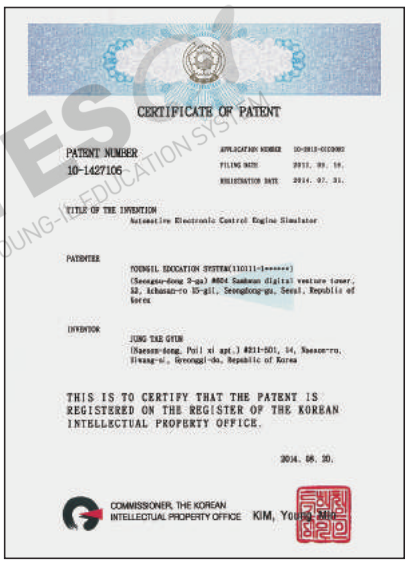


Part for Training in Module

System and Data Medium for Telecommunication Simulation Program

Certificate of Venture Business

Experimental Equipment for Heat Exchange and Server for Controlling Experimental Equipment



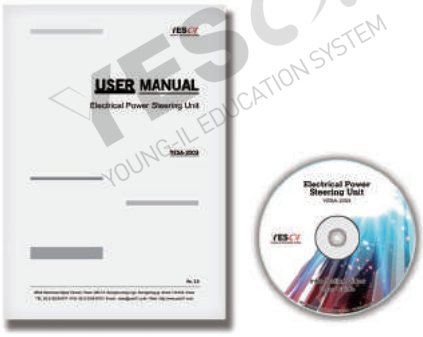
Automotive Electronic Control Engine Simulator

Certificate of INNO-BIZ

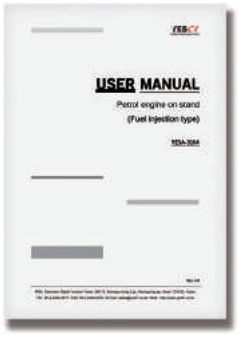
ISO-9001

Supporting Device of Vehicle Base

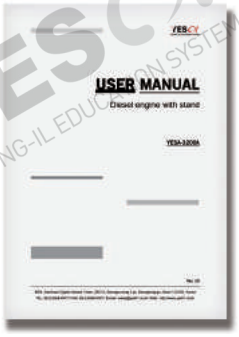
Curriculums and Videos



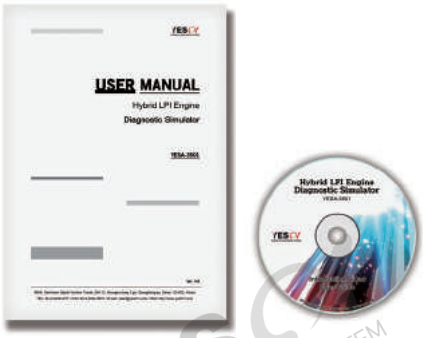
Electrical Power Steering Unit



Petrol Engine on Stand



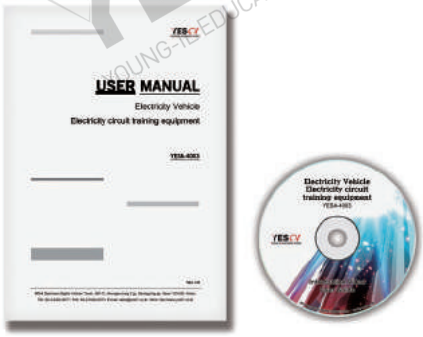
Diesel Engine with Stand



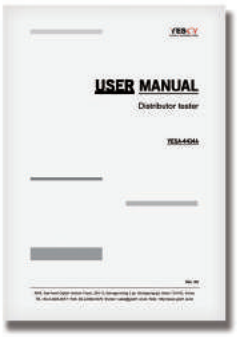
Hybrid LPI Engine Diagnostic Simulator

Hybrid Automotive Diagnostic Training Equipment

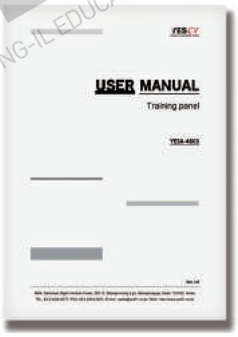
Electricity Vehicle Instrument Panel



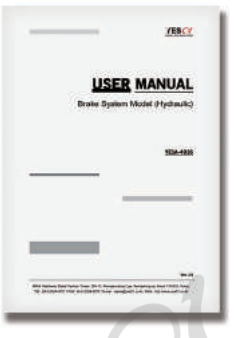
Electricity Vehicle Electricity Circuit Training Equipment



Distributor Tester



Training Panel



Brake System Model

Curriculum Text, Video and Simulation software

We supply 3 Benefits to our VIP customer's Training.

1. We supply curriculum for more than 100 Automotive products.
   The curriculum consists of
   . Theory
   . Practice exercise
   . Solutions

2. We supply Training Video for more than 100 our YES01 Products.
   Video included English and some languages.

3. We supply 3 different types of simulation software.
   Supplied area are Automotive Hybrid Car, Automotive Electrical Vehicle and Automotive Gasoline Car and Automotive Diesel Car

Overseas Agent Seminar and Training


Malaysia Study Visit_ YES01 Factory


Malaysia Study Visit_ YES01 Factory


Malaysia Study Visit_ YES01 Factory


Malaysia_ MAI


Malaysia_ CIAST


Malaysia_ CIAST

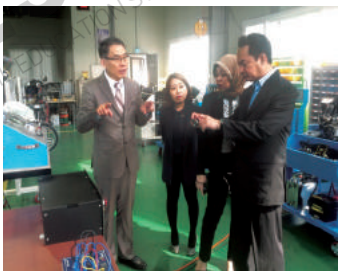

Malaysia_Kensains


Mexico_IPI


Mexico_ CEDIG


Myanmar_ DTVE


Myanmar_ DTVE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Myanmar_ TU Thanlyn


Myanmar_ TU Thanlyn


Myanmar_MOST


Myanmar_MOST


Myanmar_MD


Nicaragua_BOACO


Nicaragua_ENMA


Nicaragua_ESTELI

Overseas Agent Seminar and Training

Cameroon Douala

Kenya_TDC

Vietnam_ Hanoi University

Vietnam_ Hanoi University

Sri Lanka_CGTTI

Sri Lanka_NATTA

Indonesia_ PTRAMA

Indonesia_ PTRAMA

Chile_ DUOC

Chile_ Santo Tomas

Kenya_ National Assembly Speaker Visit at TDC

Colombia_ SENA

Colombia_ SENA

Paraguay_ CETUNA

Paraguay_ CTN

Paraguay_ CTN

Paraguay_ KOLPING

Peru_ SENATI

Peru_ SENATI

Peru_ TESUP

Oversea Reference

2015 Edu week South Africa

2015 Wuhan China

2015 GESS Mexico

2015_HongKong WorldDidac

2014 International Industry China

2014 ICSE Myanmar

2014 GESS Dubai

2014_ Educatec paris_ France

2014_ BETT_ Brazil

2014_Shanghai Industrial fair

2014_Myanmmar_MD Exhibition

2013 GESS Dubai

2013 World Didiac Thailand

2013_Brazil Educar

2012 Indonesia machinery exhibition

2012_GESS Dubai

2012 Worlddidac Basel

2011_Worlddidac Asia

2011 GESS Dubai

2010_Indonesia Machine tool

Domestic Automotive Education and Installation

Gyeonggi College of Science and Technology

Gyeonggi College of Science and Technology

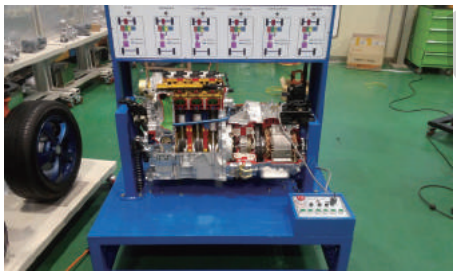
Gyeonggi College of Science and Technology

Gyeonggi College of Science and Technology

Pusan National University

Pusan National University

Seojeong College



Soongsil University

Ajou Motor College

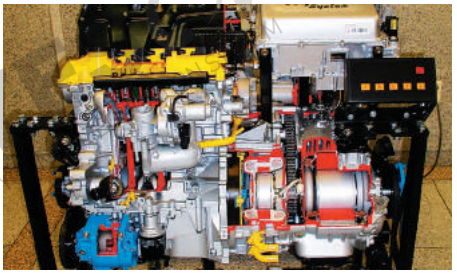
Kumho Tire

Yeungnam University College

Yeonmudae Technical High School

Induk Technical High School

Inpyung Automobile Information High School



Hanyang University

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045	Diesel Fuel Injection System_ VE pump	YESA-4530
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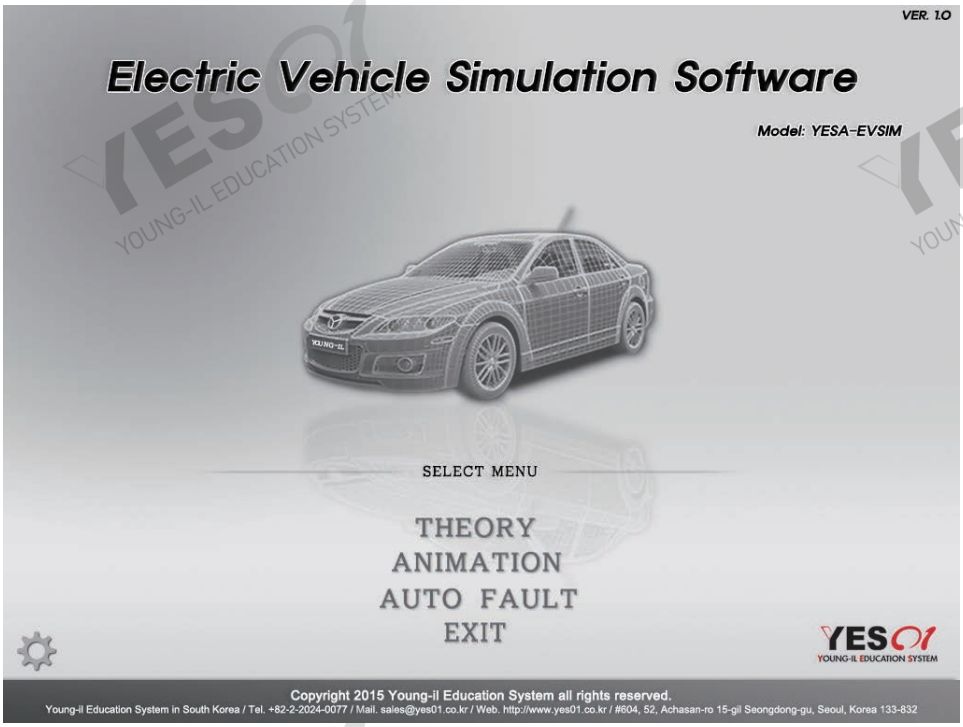
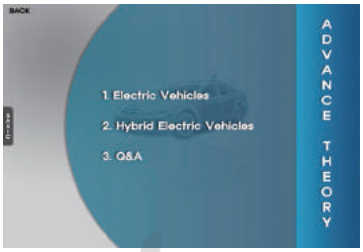
197	Advanced Door System Troubleshooting Trainer	YESA-4962
198	Excavator Electric Circuit Training Simulator	YESA-5101
199	Wheel Loaders Electric Circuit Training Simulator	YESA-5102
200	Electric Forklift Electric Circuit Training Simulator	YESA-5103

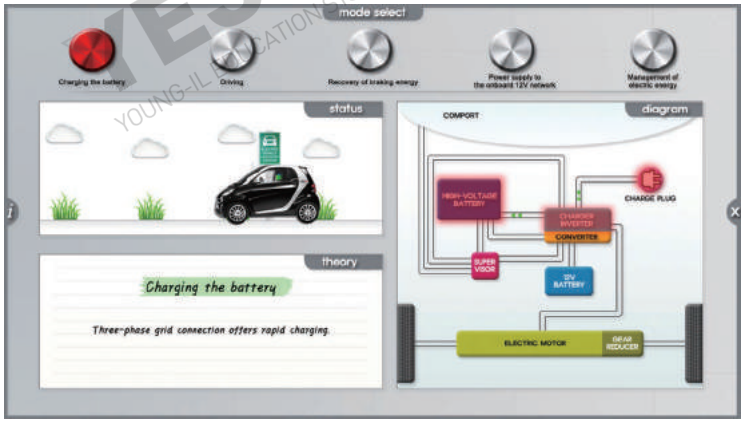


Main Page

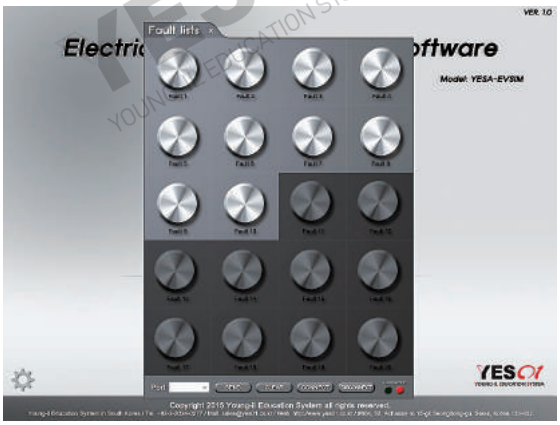
Basic Theory



Advance Theory



Operating Page_ Power Split Electric Vehicle



Auto Fault Function

Features

- Power transmission structure and principle of electric vehicle is expressed with animation format to understand electric vehicle easily.
- It is able to check vehicle condition, power transmission circuit by 6 driving mode Charging the battery / Driving / Recovery of braking energy / Power supply to the onboard 12V network / Management of electric energy)to improve educational efficiency.
- Including brief description by each driving mode and specific theories.

Specifications

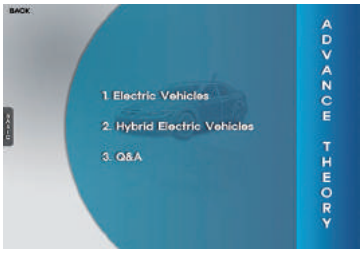
- Supporting 5 driving mode selection (Charging the battery / Driving / Recovery of braking energy / Power supply to the onboard 12V network / Management of electric energy)
- Brief description by each driving mode
- Display real time diagram of power transmission circuit by each driving mode
- Password log-in way based on DB

Training Contents and Fequired Condition

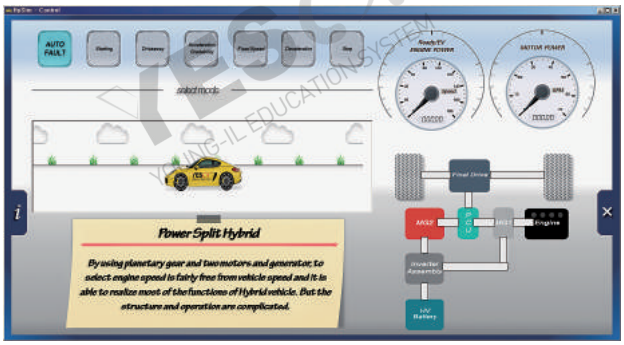
- 32bit / 64bit Windows® OS PC supported by above 1024 X 768 resolution.
- Microsoft .NET Framework 4.5 over.
- Above 2GB memory. (RAM)
- Latest version of Adobe Reader.

Main Page

Basic Theory



Advance Theory



Operating Page_ Power Split Hybrid

Auto Fault Function

Features

- Power transmission structure and principle of Hybrid vehicle is expressed with animation format to understand hybrid car easily.
- It is able to check vehicle condition, power transmission circuit by 6 driving mode (Starting / Driveaway/Acceleration, Gradability / Fixed Speed / Deceleration / Stop) to improve educational efficiency.
- Including brief description by each driving mode.
- It is able to check distribution condition of output with distribution display by each driving mode and RPM gauge display.

Specifications

- Supporting 6 driving mode selection (Starting / Driveaway / Acceleration, Gradability / Fixed Speed / Deceleration / Stop)
- Brief description by each driving mode
- Display real time diagram of power transmission circuit by each driving mode
- Password log-in way based on DB

Training Contents and required condition

- 32bit / 64bit Windows® OS PC supported by above 1024 X 768 resolution.
- Microsoft .NET Framework 4.0 over.
- Above 2GB memory. (RAM)
- Construction of Internet Invironment .

Automotive Power Train Training Equipment_ DOHC Gasoline YESA-1100

Feature

- Educational Model for 1,800~2,000cc Gasoline Engine, FF Type manual transmission and Break System Structure.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Easy to understand structure and operation principle of FF manual transmission.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Power train is able to check wheel movement by drive shaft.
- Brake structure and each part of engine are painted specifically.

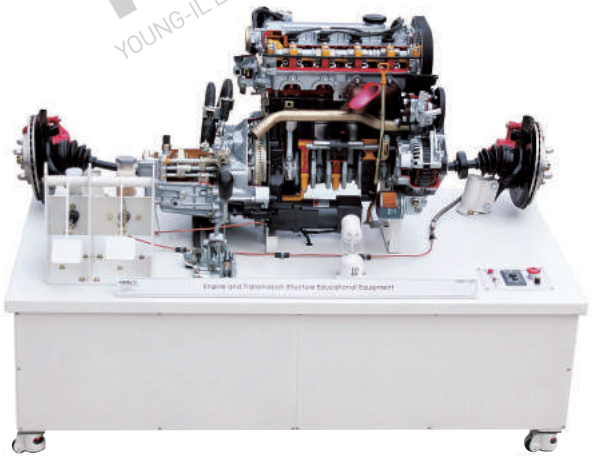
Specification

- Composition : DOHC Engine ASSY/4 cylinders, Manual forward 5 and rear 1 Assay, Clutch, Break System, AC220V/180W Motor, Engine speed controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting.
- 4 wheels brake.
- Size : Approx. 1,600 X 1,000 X 1,200 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to replace Break Disk and Pad.
- How to replace break oil and remove the air.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Automotive Power Train Training Equipment_ DOHC Gasoline YESA-1101



Feature

- Educational Model for 1,800~2,000cc Gasoline Engine, FF Type manual transmission and Break System Structure.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Power train is able to check wheel movement by drive shaft.
- Brake structure and each part of engine are painted specifically.

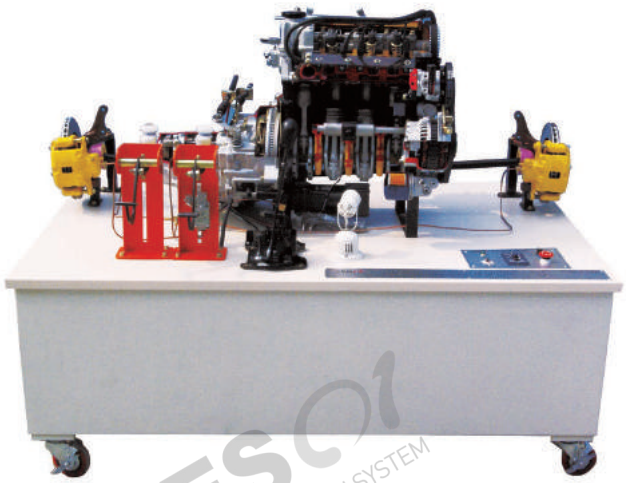
Specification

- Composition : DOHC Engine ASSY/4 cylinders, Manual forward 5 and rear 1 Assay, Clutch, Break System, AC220V/180W Motor, Engine speed controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 1,600 X 1,000 X 1,200 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to replace Break Disk and Pad.
- How to replace break oil and remove the air.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Automotive Power Train Training Equipment_ SOHC Gasoline YESA-1102



Feature

- Educational Model for 1,800~2,000cc Gasoline Engine, FF Type manual transmission and Break System Structure.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Power train is able to check wheel movement by drive shaft.
- Brake structure and each part of engine are painted specifically.

Specification

- Composition : SOHC Engine ASSY/4 cylinders, Manual 5 speed forward and 1 speed reverse transmission, Clutch, Break System, AC220V/180W Motor, Engine speed controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting
- 4 wheels with brake lock
- Size: Appox. 1,200 X 1,000 X 1,200 mm
- Weight: Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to replace Break Disk and Pad.
- How to replace break oil and remove the air.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Automotive Power Train Training Equipment_ DOHC Gasoline YESA-1103

Feature

- Educational Model for 1,800~2,000cc Gasoline Engine, FF Type manual transmission and Break System Structure.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Each part of engine are painted specifically.

Specification

- Composition : DOHC Engine ASSY/4 cylinders, Manual forward 5 and rear 1 Assay, Clutch, Break System, AC220V/180W Motor, Controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Approx. 800 X 600 X 1,200 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Engine Structure Training Equipment_ GDI Engine YESA-1114

Feature

- Educational Model for 1600~2000cc GDI(Gasoline Direct Injection) Engine / Structure of the System.
- Explanation for both each parts function description and operating principle, Training.
- Enhance the educational effect by coloring differently on each parts.
- It is operated such as a real vehicle while changing the gear and possible to check inside of the engine changing the speed by precise cutting.

Specification

- Composition : GDI Engine ASSY/4 cylinders, AC220V/180W Motor, Controller, Emergency Switch, Safety Fuse, Light
- Size : Approx. 800 X 600 X 1,200
- Weight : Approx. 250kg

Training Contents

- Replacement of the Timing Belt and other various belts / Control Belt Tension.
- How to attach /detach the Cylinder Head.
- How to attach /detach the Generator and Start Motor.

Automotive Power Train Training Equipment_ SOHC Gasoline YESA-1105

Feature

- Educational Model for 1,800~2,000cc Gasoline Engine, FF Type manual transmission and Break System Structure.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Each part of engine are painted specifically.

Specification

- Composition : DOHC Engine ASSY/4 cylinders, Manual forward 5 and rear 1 Assay, Clutch, Break System, AC220V/180W Motor, Engine speed controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 800 X 600 X 1,200 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Engine Structure Training Equipment_ Carburetor YESA-1115

Feature

- Educational Model for Gasoline Carburetor Engine / Structure of the system.
- Explanation for both each parts function description and operating principle.
- Enhance the educational effect by coloring differently on each parts.

Specification

- Composition : Gasoline Engine ASSY/4 cylinders
- Size : Approx. 800 X 600 X 1,200
- Weight : Approx. 250kg

Training Contents

- Replacement of the Timing Belt and other various belts / Control Belt Tension.
- How to attach /detach the Cylinder Head.
- How to attach /detach the Generator and Start Motor.

V6 Gasoline Engine Training Equipment_ DOHC, 360°Rotation YESA-1110

Feature

- Educational Equipment for understanding of structure of V6 Gasoline Engines.
- Efficient to educate each part of function and operating principle of gasoline V6 engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Operated by motors so it runs in the same way of an actual vehicle.
- Able to check operation process of inner parts such as pistons, valves and crank.
- Each part of engine are painted specifically.

Specification

- Composition : V6 engine ASSY, Starting Motor, Generator, Air Conditioning Compressor, Fuel System, Cooling System, Lubrication System, Intake Manifold, 220V Motor, Safety Breaker, Emergency Switch, Safety Fuse, Controller, 4 wheel Stand, Light
- Steel frame with Heat treatment painting
- Size : Appox. 700 X 700 X 1,500 mm
- Weight : Approx. 500 kg

Training Contents

- How to replace the Timing Belt.
- How to replace the Belt.
- How to attach, detach the Generator and Start Moto.
- How to replace Oil Filter.

V6 Gasoline Engine Training Equipment_ DOHC YESA-1111

Feature

- Educational Model for 3,000~3,500cc Gasoline Engine, FF Type manual transmission.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Each part of engine are painted specifically.

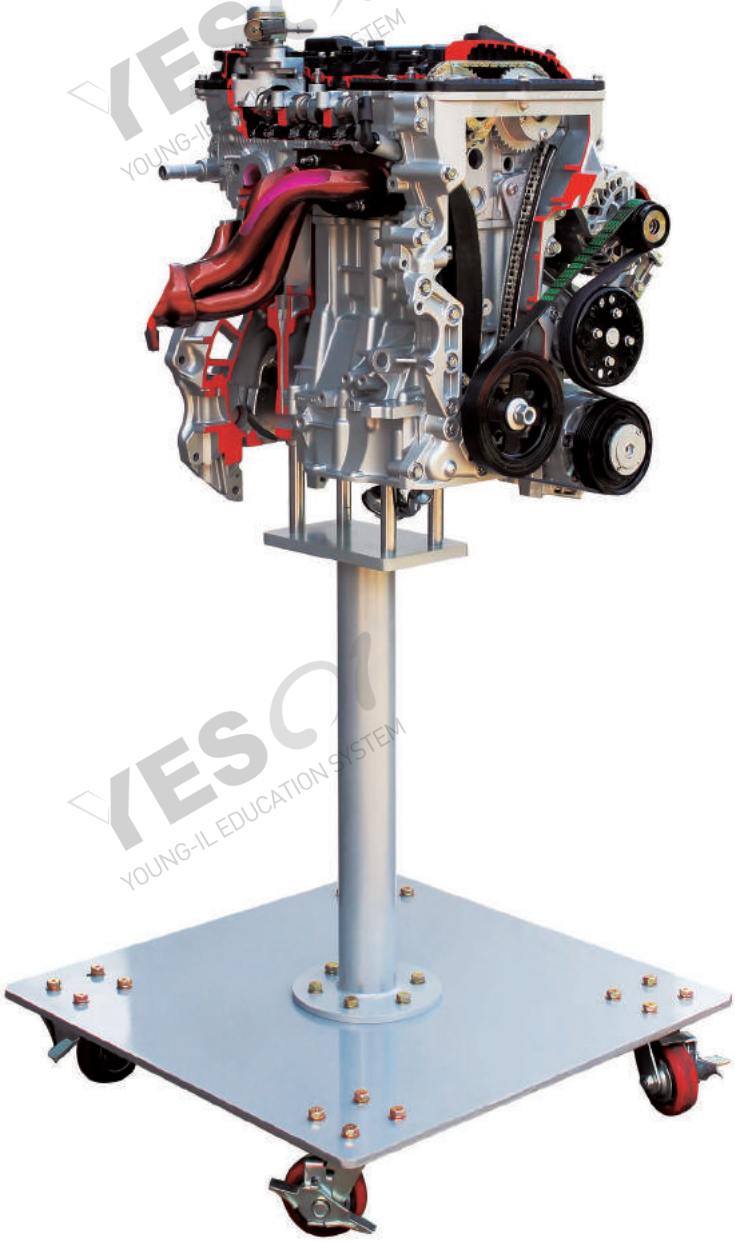
Specification

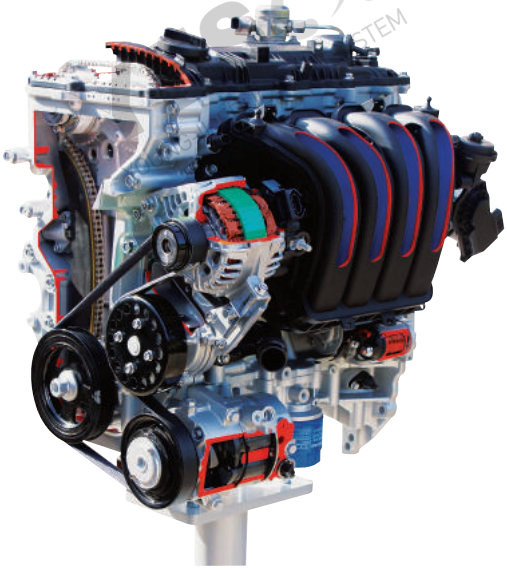
- Composition : DOHC Engine ASSY/6 cylinders, AC220V/180W Motor, Engine speed controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 600 X 600 X 1,200 mm
- Weight : Approx. 150 kg

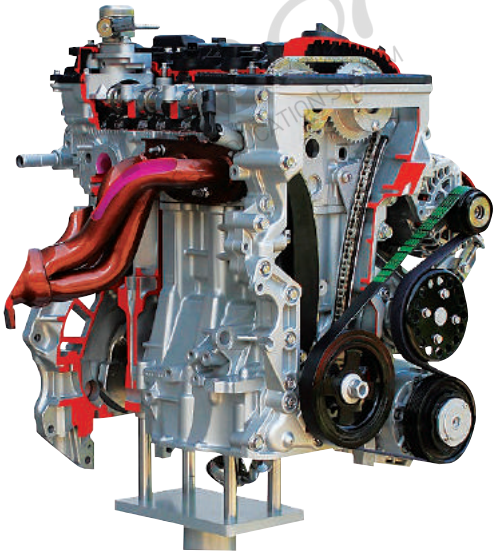
Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Gasoline Engine Training Equipment_ GDI Engine YESA-1112







Feature

- Educational Model for 2,000cc GDI (Gasoline Direct Injection) Gasoline Engine and its structure.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.

Specification

- Composition : DOHC Engine ASSY/4 cylinders
- Size : Approx. 600 X 600 X 1,300 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Engine Structure Training Equipment_ DOHC Gasoline YESA-1113

Feature

- Educational Model for 1,800~2,000cc Gasoline Engine, Structure of the System.
- Efficient to educate each part of function description and operating principle of gasoline engine.
- Each incised section is painted with different colors for education efficiency.
- It is operated as same as a real vehicle while changing the gear and able to check internal engine movement by precise cutting.
- Each part of engine are painted specifically.

Specification

- Composition : DOHC Engine ASSY/4 cylinders, AC220V/180W Motor, Engine speed controller, Emergency Switch, Safety Fuse, Light
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 800 X 600 X 1,200 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts, Belt Tension Control.
- How to attach, detach the Cylinder Head.
- How to attach, detach the Generator and Start Motor.

Tractor Structure Training Equipment YESA-1509

Feature

- Educational Model for operating Power Train System Structure of Diesel Engine Tractor.
- Able to educate the Power Train System and operation principles.
- Easy to understand and educate in Rear-Wheel / 4WD driving system.
- Every part including engine is incised so that inner structures can be seen.
- Sections are colored differently so that easy to differentiate.
- Operated by AC 220V Motors so it runs in the same way of an actual vehicle.

Specification

- Composition : Diesel 42hp (31kW) Engine ASSY, Manual Transmission ASSY, Brake system, Steering system, 1 set of Front Shock Absorber, Drive shaft, Front Axle, Fuel Tank, Change Lever Battery, Fuel Motor, Emergency switch, Suction /Exhaust system Safety Break, Controller
- Size : Approx. 2,400 X 1,800 X 2,100 mm
- Weight : Approx. 650kg

Training Contents

- Adjustment and Replacement of Braking Lining, Pad.
- How to Replace the Oil Filter.
- Replacement of various belts / Control Belt Tension.
- How to Replace Shock Absorber/Spring.
- How to Replace the Tire.
- How to attach /detach the Fuel Pump and inspection.

Diesel Engine with 4WD manual Type Transmission YESA-1200

Feature

- Efficient to educate each part of function and operating principle of Diesel Engine with transmission.
- Each incised section is painted with different colors for education efficiency.
- Able to check operation process of inner parts such as pistons, valves and crank.
- Each part of engine are painted specifically.

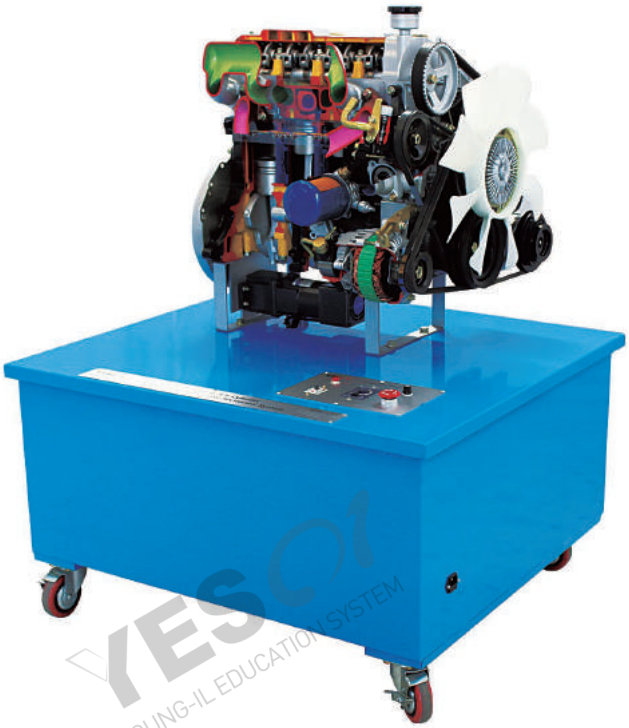
Specification

- Composition : Start Motor, Generator, Air Conditioning Compressor, Fuel System, Cooling System, Lubrication System, Exhaust, Manifold, 220V Motor, Safety Breaker, Emergency Switch, Safety Fuse, Controller, F/R Type Transmission, 2,500cc Diesel Engine, Manual Type of the Transmission (5-speed forward, 1-speed reverse), Engine speed controller
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 1,000 X 650 X 1,500 mm
- Weight : Approx. 300 kg

Training Contents

- Replacement of the Timing Belt and other various belts.
- How to replace Oil Filter.
- How to attach, detach the Generator and Start Motor.

Diesel Engine with Motor YESA-1201



Feature

- Efficient to educate each part of function description and operating principle of Diesel Engine.
- Each incised section is painted with different colors for education efficiency.
- It is manufactured as same as real vehicle and able to check internal engine movement by precise cutting.
- Operated by motors so it runs in the same way of an actual vehicle.
- Able to operation process of inner parts such as pistons, valves and crank.
- Each part of engine are painted specifically.

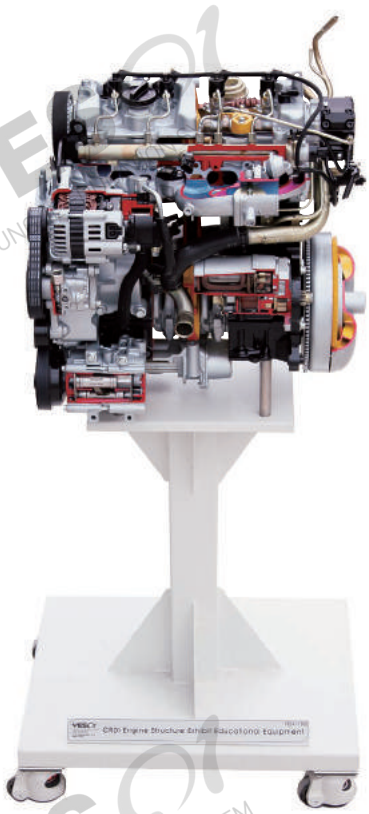
Specification

- Composition : 2,500cc Diesel engine, Generator, Air Conditioning Compressor, Fuel System, Cooling System, Lubrication System, Intake Manifold, 220V Motor, Safety Breaker, Emergency Switch, Safety Fuse, Engine speed controller
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 1,000 X 650 X 1,500 mm
- Weight : Approx. 300 kg

Training Contents

- Replacement of the Timing Belt and other various belts.
- How to replace Oil Filter.
- How to replace Generator.

CRDI Diesel Engine_ SANTAFE D Engine, Stand — YESA-1300



Feature

- Educational Equipment for understanding the structure of CRDI diesel engine.
- Efficient to educate each part of function and operating principle of CRDI diesel engine.
- Each incised section is painted with different colors for education efficiency.
- It is manufactured as same as real vehicle and able to check internal engine movement by precise cutting.
- Able to check operation process of inner parts such as pistons, valves and crank.
- Able to use as a demonstrational equipment.

Specification

- Composition : 2,000cc CRDI BOSCH D Engine, Starting Motor, Generator, Air Conditioner Compressor, Fuel System, Cooling System, Lubrication System, Intake Manifold, Torque Converter, 220V Motor, Safety Breaker, Emergency Switch, Safety Fuse.
- Steel frame with Heat treatment painting
- 4 wheels brake
- Size : Appox. 650 X 500 X 1,500 mm
- Weight : Approx. 250 kg

Training Contents

- Replacement of the Timing Belt and other various belts.
- How to attach, detach the Generator and Start Motor.
- How to replace the Oil Filter.

CRDI Diesel Engine_ Stand, Motor Type — YESA-1301

Feature

- Educational Equipment for understanding the structure of 2,900cc CRDI Diesel Engine.
- Efficient to educate each part of function and operating principle of CRDI diesel engine.
- Each incised section is painted with different colors for education efficiency.
- It is manufactured as same as real vehicle and able to check internal engine movement by precise cutting.
- Operated by motors so it runs in the same way of an actual vehicle.
- Able to check operation process of inner parts such as pistons, valves and crank.
- Each part of engine are painted specifically.

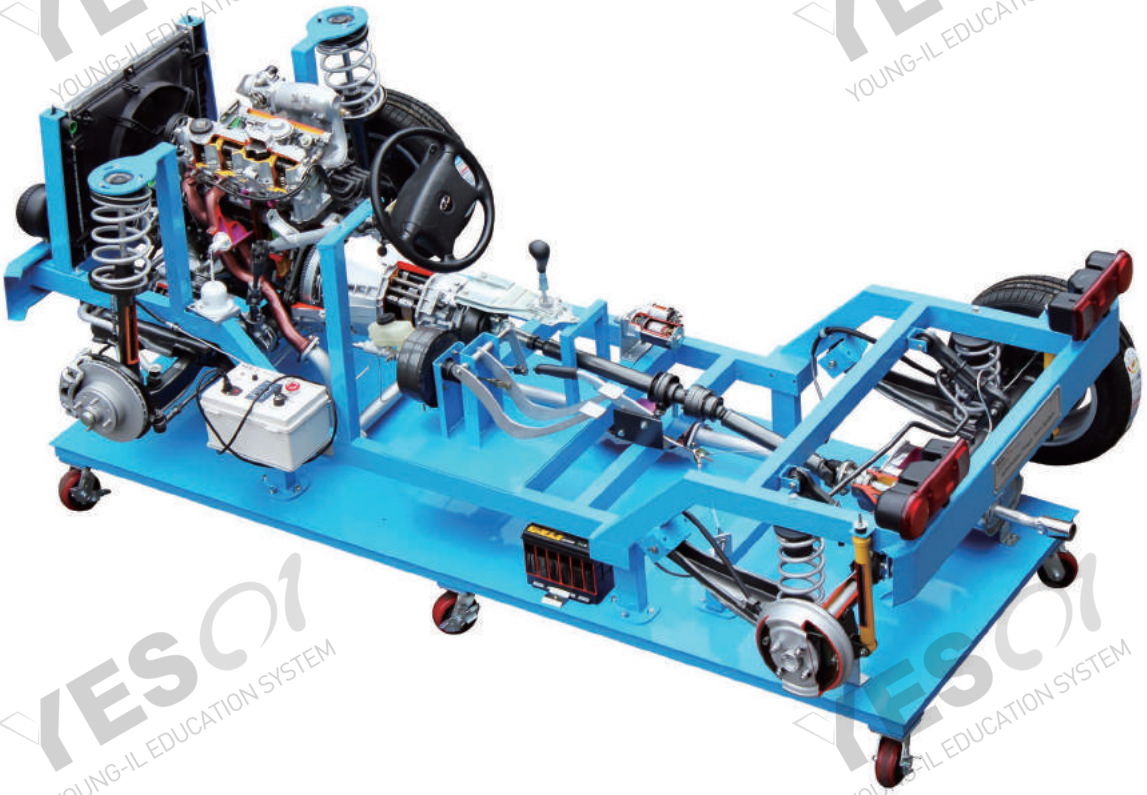
Specification

- Composition : 2,900cc CRDI Delphi engine, Starting Motor, Generator, Air Conditioner Compressor, Fuel System, Cooling System, Lubrication System, Intake Manifold, 220V Motor, Safety Breaker, Emergency Switch, Safety Fuse, Engine speed controller
- Steel frame with Heat treatment painting, 4 wheels brake, Automatic operation type, LED Lamp is on ignition
- Size : Appox. 700 X 650 X 1,500 mm
- Weight : Approx. 150 kg

Training Contents

- Replacement of the Timing Belt and other various belts.
- How to attach, detach the Generator and Start Motor.
- How to replace the Oil Filter.

Gasoline Engine Power Train System_ F/R Type YESA-1400



Feature

- Gasoline engine, F/R Type Manual Transmission and Power Train System Structure of Gasoline Engine Vehicles.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation. (5–speed forward, 1–speed reverse)
- Each part of engine are painted specifically.

Specification

- Composition : 2,000cc Class Engine, F/R Type Gasoline Engine Assay, Manual Transmission ASSY, 1 set of Lighting, Brake system, Steering system, Shock Absorber, Driveshaft, Front Axle, Fuel Tank, Change Lever, Battery, Fuel Motor, Intake, Exhaust system
- Size : Appox. 2,200 X 1,500 X 1,600 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belts, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspection of Fuel Pump.

Gasoline Engine Power Train System_ F/F Type YESA-1401

Feature

- Educational Model for operating F/F Type Manual Transmission and Power Train System Structure of Gasoline Engine Vehicle.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.

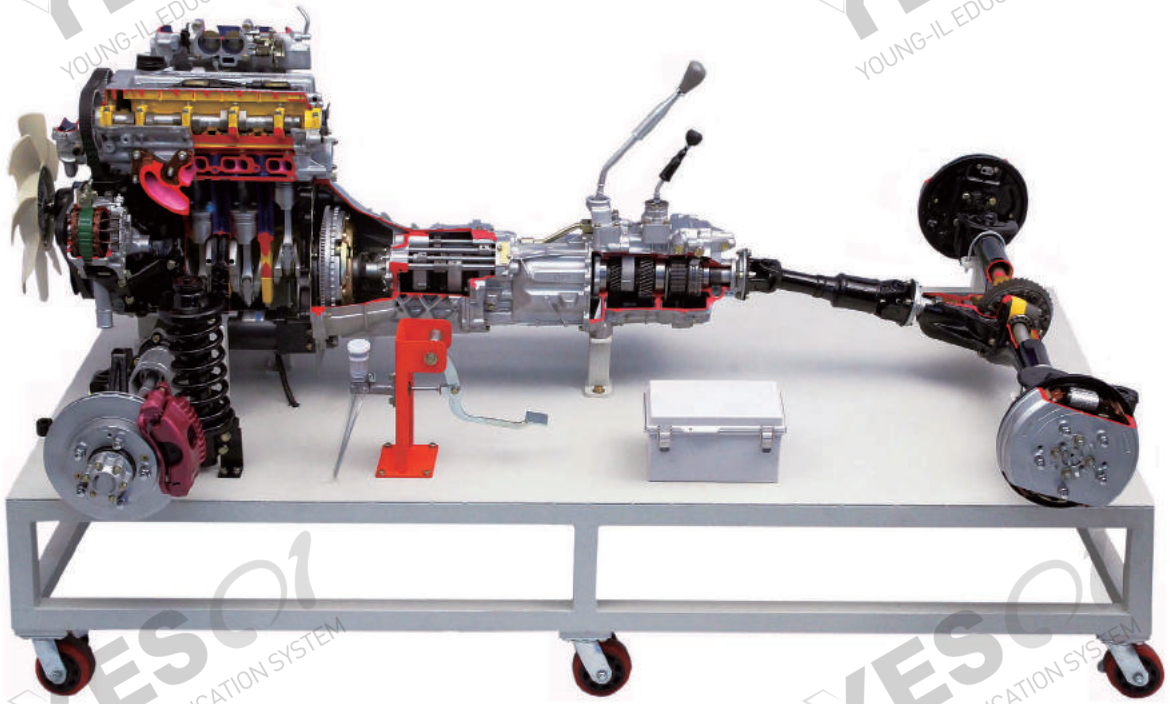
Specification

- Composition : 1,500cc Class Engine, F/F Type Gasoline Engine Assay, Manual Transmission ASSY, 1 set of Lighting, Brake system, Steering system, Shock Absorber, Driveshaft, Front Axle, Fuel Tank, Change Lever, Battery, Fuel Motor, Intake, Exhaust system, Controller, Safety Break
- Size : Appox. 2,200 X 1,700 X 1,400 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belts, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspect Fuel Pump.

Gasoline Engine Power Train System_ 4W F/R Type YESA-1402



Feature

- Educational Model for operating 4W F/R Type Manual Transmission and Power Train System Structure of Gasoline Engine Vehicles.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.
  * Diesel engine also available same als this type.

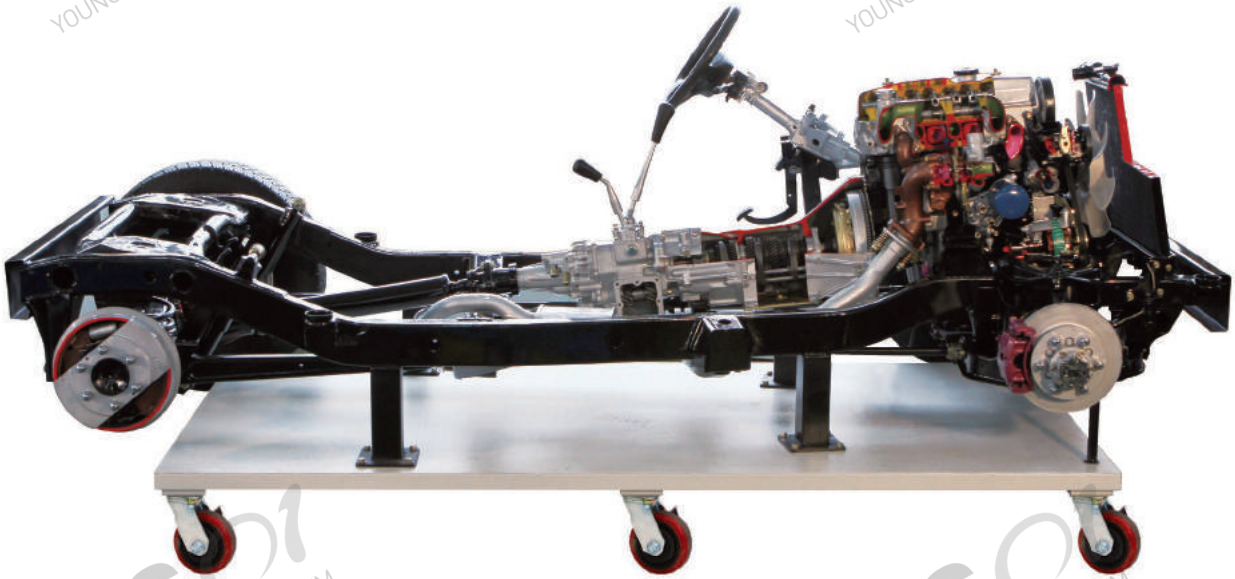
Specification

- Composition : Gasoline Engine ASSY, Manual Transmission ASSY, 1 set of Lighting, Brake system, Steering system, Shock Absorber, Driveshaft, Front Axle, Fuel Tank, Change Lever, Battery, Fuel Motor, Intake/Exhaust system
- Size : Appox. 2,000 X 500 X 1,300 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belts, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspect Fuel Pump.

Diesel Engine Power Train System_ All In One Type YESA-1430



Feature

- Educational Model for operating F/R Type Manual Transmission and Power Train System Structure of Diesel Engine Vehicle.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.

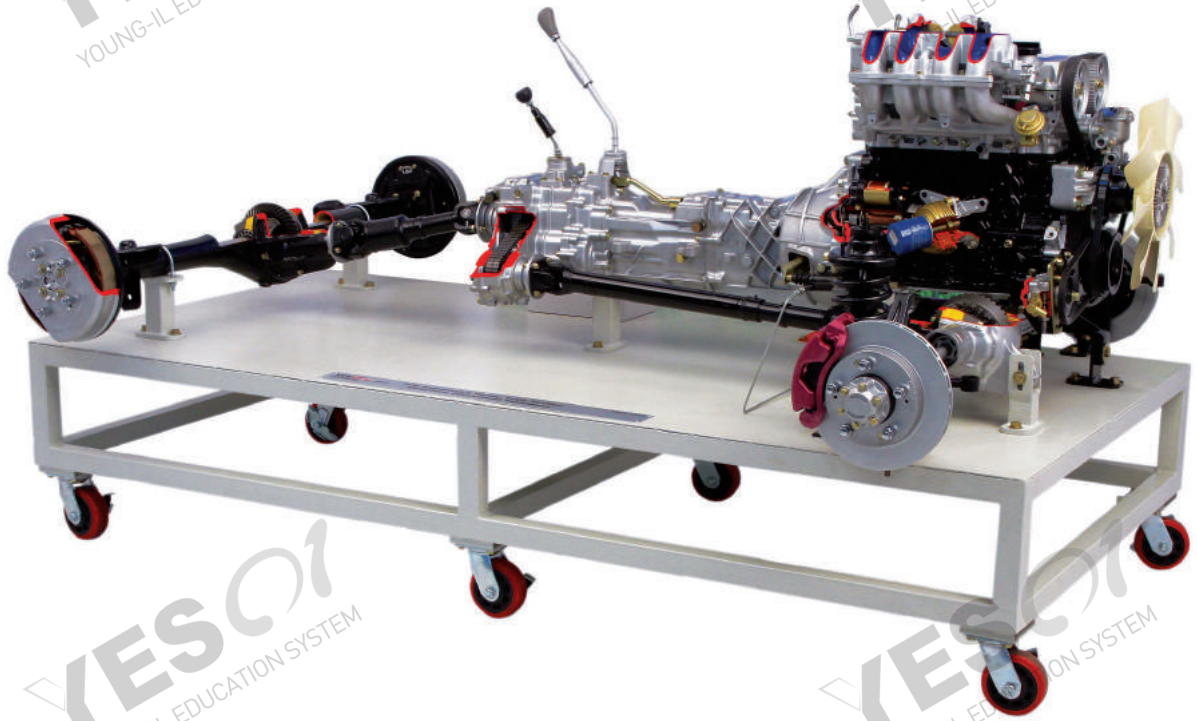
Specification

- Composition : 2,500cc class Diesel F/R Engine Assay, Manual Transmission ASSY, 1 set of Lighting, Brake system, Steering system, 1 set of Front Shock Absorber, Driveshaft, Front Axle, Fuel Tank, Change Lever Battery, Fuel Motor, Intake, Exhaust system, Safety Break, Controller
- Size : Appox. 2,200 X 1,700 X 1,400 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belts, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspect Fuel Pump.

Diesel Engine Power Train System_ 4WD YESA-1431



Feature

- Educational Model for operating F/R Type Manual Transmission and Power Train System Structure of Diesel Engine Vehicle.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.

Specification

- Composition : 2,500cc class Diesel F/R Engine Assy, Manual Transmission ASSY, 1 set of Lighting, Brake system, Steering system, 1 set of Front Shock Absorber, Driveshaft, Front Axle, Fuel Tank, Change Lever Battery, Fuel Motor, Intake, Exhaust system, Controller, Safety Break
- Size : Appox. 2,000 X 1,300 X 1,300 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belts, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspect Fuel Pump.

CRDI Diesel Engine Power Train System_ F/R Type YESA-1450

Feature

- Educational Model for operating F/R Type Manual Transmission CRDI and Power Train System Structure of Diesel Engine Vehicle.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.

Specification

- Composition : Diesel Engine Assay, Manual Transmission ASSY, 1 set of Lighting, Brake system, Steering system, Shock Absorber, Driveshaft, Front Axle, Fuel Tank, Change Lever, Battery, Intake/Exhaust system
- Size : Appox. 3,000 X 2,000 X 1,300 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belt, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspect Fuel Pump.

CRDI Diesel Engine Power Train System_ Automatic Transmission YESA-1451

Feature

- Educational Model for operating F/R Type Automatic Transmission and Power Train System Structure of Diesel Engine Vehicle.
- Able to educate the power train system and its operation principles.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.

Specification

- Composition : 2,900cc Class Diesel F/R Engine ASSY, Automatic Transmission ASSY, 1 set of Lighting, Brake system, Steering system, Driveshaft, Front Axle, Fuel Tank, Change Lever, Battery, Intake/Exhaust system, Safety Break, Controller
- Size : Appox. 3,000 X 2,000 X 1,300 mm
- Weight : Approx. 450 kg

Training Contents

- Adjustment and Replacement of braking lining and Pad.
- How to Replace the Oil Filter.
- Replacement of various belts, Belt Tension Control.
- How to Replace Shock Absorber, Spring.
- How to Replace the Tire.
- How to attach, detach and inspect Fuel Pump.

Prius Hybrid Engine with 6 Different Position Control Panel YESA-1500

Feature

- Educational structure equipment for Prius Hybrid Engine and Motor, Automatic Transmission.
- Easy to educate each parts and operating principle of Hybrid Engine.
- Some of sections are cut-way and painted with different colors for educational Effect.
- It is able to check internal structure by precise cutting.
- Each incised section is painted with different colors for education efficiency.
- It is able to show the movement as same as actual car by AC 220V motor operation.
- Display panel is expressed 6 types depending on the shifting condition.

Specification

- Composition : Gasoline Engine Assay, Hybrid Motor Assay, Inverter, Battery, Power Cable, Fuel Tank, Change Lever, Battery, Fuel Motor, Intake, Exhaust System
- HV Battery Assy is installed on the back side of engine.
- Engine type : 1NZ-FXE
- Cylinder number : In-line type 4 Cylinders
- Valve type : DOHC
- Bore x Stroke : 75.0 x 84.7 mm
- Displacement : 1496cc
- Size : Approx. 1,400 X 1,200 X 1,600 mm
- Weight : Approx. 450 kg

Prius Hybrid Engine Training Equipment YESA-1503

Feature

- Cutaway hybrid system to help understanding of internal structure.
- Easy to educate each parts and operating principle of Hybrid Engine.
- Incised sections are painted with different colors for education efficiency.
- Easy to check operation process of Piston, Valve, Crank, hybrid transmission, inverter, battery and others.
- It is able to show the movement as same as actual car by 220V single phase motor operation.
- Option: operated by tablet PC. (Bluetooth)

Specification

- Vehicle Type : Toyota Prius Hybrid 1,496cc
- Composition : Engine, Transmission, Motor, Power cable, Battery, Charging, System, Inverter, Converter, 220V motor, Tire, Safety breaker, Emergency switch, Safety fuse, Controller
- Size : Approx. 1,400 X 1,200 X 1,600 mm
- Weight: Approx. 150 kg

Hybrid Engine Training Equipment_ YF SONATA, K5 YESA-1504

Feature

- Cutaway Hybrid system to help understanding of internal structure.
- Easy to educate each parts and operating principle of Hybrid Engine.
- Incised sections are painted with different colors for education efficiency.
- Easy to check operation process of Piston, Valve, Crank, hybrid transmission, inverter, battery and others.
- It is able to show the movement as same as actual car by 220V single phase motor operation.
- Option: operated by tablet PC. (Bluetooth)

Specification

- Vehicle Type : YF Sonata Hybrid 2,000cc or K5 Hybrid 2, 000cc
- Composition : Engine, Transmission, Motor, Battery, Inverter, 220V motor, Safety breaker, Emergency switch, Safety fuse, Controller
- Weight : Approx. 100 kg

Training Contents

- Observe how the Hybrid System operates at a glance.
- Demonstrate operation by adjusting the motor speed arbitrarily.
- Adjust motor speed and its condition by controller.

Hybrid Vehicle Power Train_ Prius, LED Panel YESA-1507

Feature

- Educational Equipment for hybrid car, engine and motor.
- It simulates hybrid operation by adjusting torque of motor.
- Easy to understand hybrid principle with real diagram on the panel.
- LED indicates energy flows during operation.
- Specially designed motor to drive front and back efficiently.
- Motor, Brake, Generator, battery and power control unit are well organized for educational convenience.
- Option: operated by tablet PC. (Bluetooth)

Specification

- Composition : Toyota Prius hybrid 1, 496cc Motor-operation (Using inverter), Hub of vehicle, differential gear box, Rear axle, Front aluminum panel, Key switch, Motor controller, Emergency switch, Engine, mission ASSY

Training Contents

- Observe how the Hybrid System operates at a glance.
- Adjust motor speed and its condition by inverter.
- Checking signals in each module and understanding procedure of the driving.

Hybrid Vehicle Power Train_ Prius, Kiosk YESA-1508

Feature

- An educational unit for procedure and structure of HYBRID CAR.
- It simulates hybrid operation by adjusting torque of motor.
- Incised sections are painted with different colors for education efficiency.
- Connected to Kiosk and Simulator, it displays data on 30-inch monitor of the simulare as optional accessory.
- Uses parts of real car with simple stand.
- The stand is 15~30 º leaned toward for ergonomic design.
- Chromium-plate applied on components for rust prevention.
- Geared Motor is attached for safety.
- Specially designed motor to drive front and back efficiently.
- Motor, Brake, Generator, battery and power control unit are well organized for educational convenience.
- Option : operated by tablet PC. (Bluetooth)

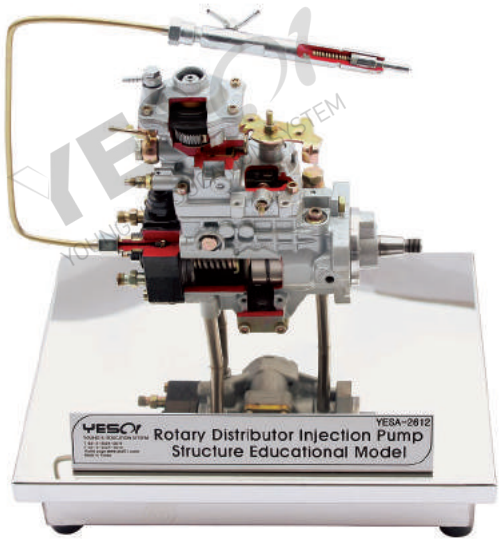
Specification

- Composition : Hybrid Motor Type Using inverter, Hub of vehicle, Differential Gear Box, Rear Axle, Front Aluminum Panel, Key Switch, Motor Controller, Emergency Switch, Engine, Mission ASSY

Training Contents

- Observe how the Hybrid System operates at a glance.
- Adjust motor speed and its condition by inverter.
- Checking signals in each module and understanding procedure of the driving.

Diesel Engine Fuel Injection Pump_ VE Pump Type YESA-2612



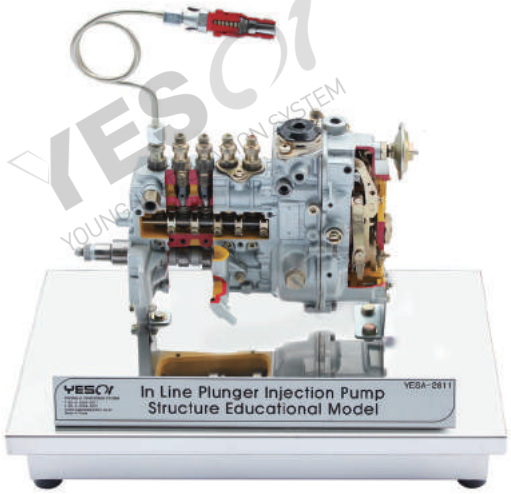
Feature

- An educational unit of rotary type diesel injection fuel pump structure.
- Able to explain each part of rotary type diesel injection fuel pump structure and and understand power delivery principles.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.
- Diesel nozzle inspection.

Specification

- Composition : Rotary type diesel injection fuel pump
- Size : Approx. 500 X 400 X 400 mm
- Weight : Approx. 20 kg

Diesel Engine Fuel Injection Pump Training Equipment_ Inline pump YESA-2615



Feature

- An educational unit of diesel inline injection fuel pump structure.
- A diagnostic workup of diesel nozzle.
- Able to explain each part of diesel inline injection fuel pump and help understanding operation functions and principles of power transmission.
- Operated by motor, it runs in the same way with an actual car.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are.
- applied in manufacturing.

Specification

- Composition : Diesel inline injection fuel pump
- Size : Approx. 500 X 400 X 400 mm
- Weight : Approx. 20 kg

Injections Type Model YESA-2614

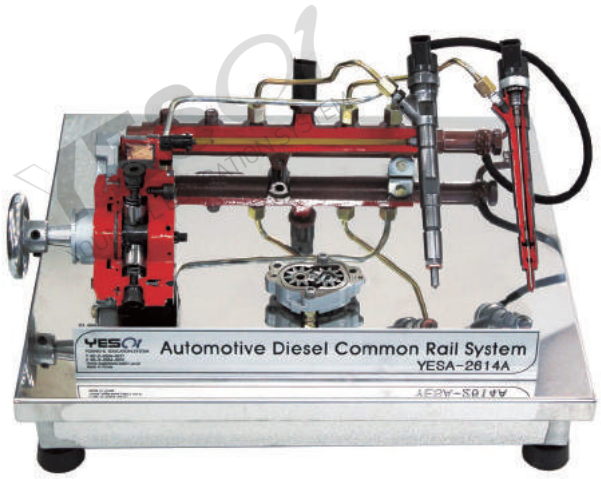
Feature

- An educational unit for 5 kinds of injector nozzles.
- Able to explain each part of 5 kinds of injector nozzles and help understanding operation functions.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : 5 kinds of injector nozzle
- Size : Approx. 500 X 400 X 400 mm
- Weight : Approx. 20 kg

CRDI (Common Rail Direct Injector) System — YESA-2616



Feature

- An educational unit for CRDI fuel pump and injector nozzle. (BOSCH A Type).
- Easy to explain each parts and operating principle of CRDI fuel pump and injector nozzle.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : CRDI engine fuel pump, incised Injector nozzle, Injector nozzle
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 5 kg

Electric Fuel Pump and Priming Filter Model — YESA-2630

Feature

- An educational unit for electric fuel pump and priming filter.
- Easy to explain each parts and operating principle of electric fuel pump and Priming filter.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Electricity fuel pump, Priming filter
- Size : Approx. 300 X 200 X 300 mm
- Weight : Approx. 10 kg

Electronic Control Type Fuel Injection Model — YESA-2631

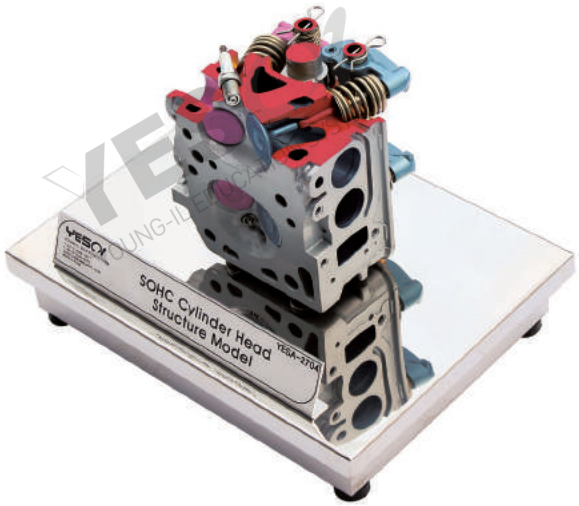
Feature

- An educational unit for Electronic Control Type Fuel Injection.
- Easy to explain each parts and operating principle of Electronic Control Type Fuel Injection.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Throttle body, Surge tank, Injector
- Size : Approx. 500 X 400 X 400 mm
- Weight : Approx. 10 kg

SOHC Cylinder Head Model — YESA-2633



Feature
- Structure education unit for SOHC cylinder head.
- The equipment is proper to explain each parts and operating principle of SOHC cylinder head.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification
- Composition : SOHC cylinder head
- Size : Approx. 300 X 200 X 300 mm
- Weight : Approx. 15 kg

Oil Pump with Distributor Model — YESA-2635

Feature
- Structure education unit for distributor oil pump.
- The equipment is proper to explain each parts and operating principle of distributor oil pump.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

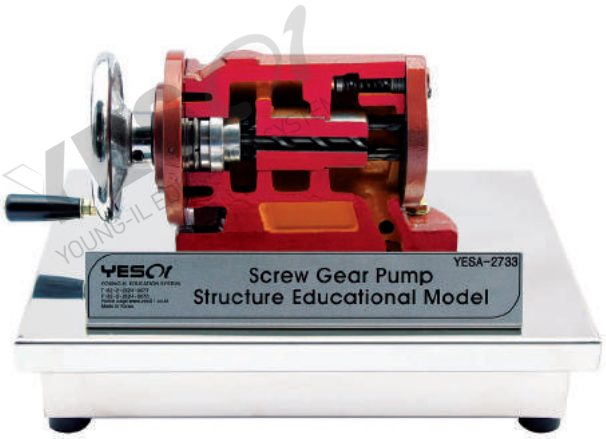
Specification
- Composition : distributor oil pump
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 10 kg

Internal Gear Pump Model — YESA-2637

Feature
- An educational unit for internal gear.
- The equipment is proper to explain each parts and operating principle of internal gear.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification
- Composition : Internal Gear Pump, Driver gear, Driven gear
- Size : Approx. 400 X 400 X 300 mm
- Weight : Approx. 10 kg

Screw Gear Pump Model_ Integrated Handle YESA-2638



Feature

- An educational unit for Screw Gear Pump, Manual Type.
- The equipment is proper to explain each parts and operating principle of Screw Gear Pump.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Screw pump, Handle
- Size : Approx. 400 X 400 X 300 mm
- Weight : Approx. 10 kg

Water Pump Model YESA-2639

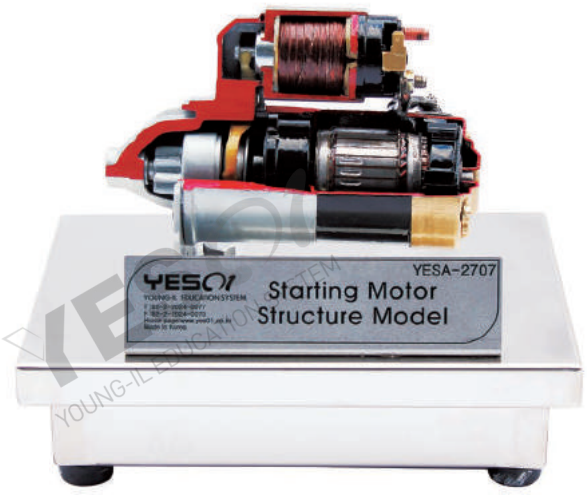
Feature

- Structure education unit for Water Pump.
- The equipment is proper to explain each parts and operating principle of Water Pump.
- Painting and coating with Vehicle–Only materials.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Impeller, Bearing, water pump
- Size : Approx. 300 X 200 X 200 mm
- Weight : Approx. 10 kg

Start Motor Model YESA-2707



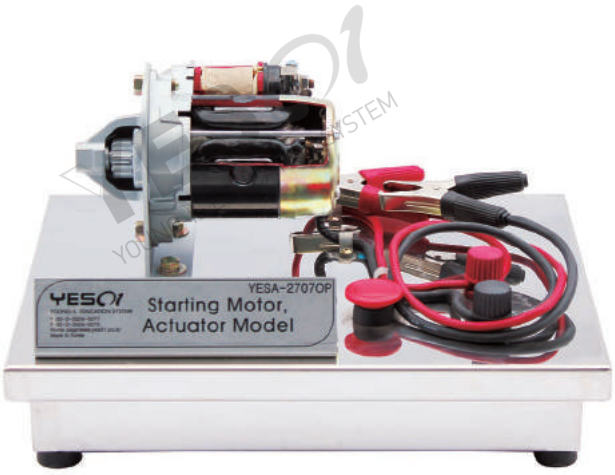
Feature

- An educational unit for start motor.
- The equipment is proper to explain each parts and operating principle of Start Motor.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : start motor
- Size : Approx. 300 X 200 X 200 mm
- Weight : Approx. 20 kg

Start Motor Model YESA-2708



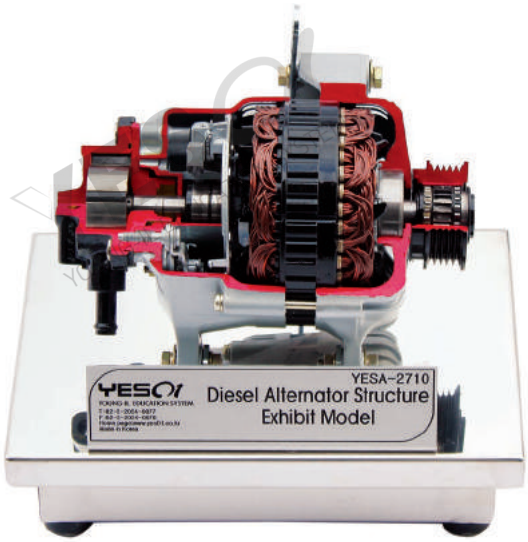
Feature

- Auto-operation type of start motor structure trainer.
- Able to observe the movement of parts such as pinion and magnetic during operation.
- The equipment is proper to explain each parts and operating principle of Start Motor.
- Painting and coating with Vehicle-Only materials.
- Each incised section is painted with different colors for education efficiency.

Specification

- Composition : Cutaway start motor, battery clip, start switch
- Size : Approx. 300 X 200 X 200 mm
- Weight : Approx. 20 kg

Alternator Model YESA-2710



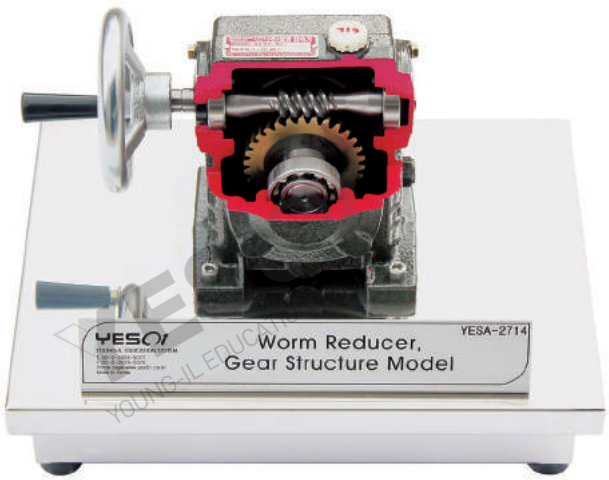
Feature

- An educational unit for the alternator.
- The equipment is proper to explain each parts and operating principle of the alternator.
- Painting and coating with Vehicle-Only materials.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Alternator (Diesel vehicle type)
- Size : Approx. 300 X 200 X 200 mm
- Weight : Approx. 20 kg

Worm Reducer Gear Model with Rotary Handle YESA-2714



Feature

- An educational unit for the Worm Gear Model.
- The equipment is proper to explain each parts and operating principle of Worm Gear Model.
- Able to observe the reduction gear ratio by manual operating.
- Painting and coating with Vehicle-Only materials.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Worm Gear
- Size : Approx. 300 X 200 X 200 mm
- Weight : Approx. 25 kg

Turbocharger and Intercooler Model — YESA-2715

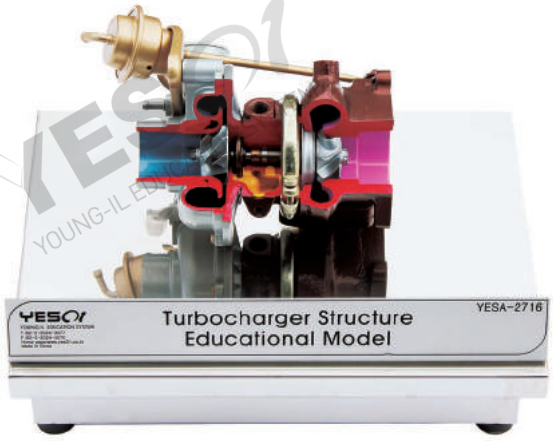
Feature

- Structure education unit for the Turbocharger and Intercooler.
- The equipment is proper to explain each parts and operating principle of Turbocharger and Intercooler.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Turbocharger, Intercooler
- Size : Approx. 400 X 300 X 500 mm
- Weight : Approx. 20 kg

Turbocharger Model — YESA-2716



Feature

- An educational unit for the Turbocharger.
- The equipment is proper to explain each parts and operating principle of Turbocharger.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Turbocharger
- Size : Approx. 300 X 200 X 300 mm
- Weight : Approx. 15 kg

Torque Convertor Model_ Handle Mounted — YESA-2719

Feature

- An educational unit for the Torque Convertor.
- The equipment is proper to explain each parts and operating principle of Torque Convertor.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Torque converter (Cut away model)
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 20 kg

Cooling Fan Model YESA-2736

Feature

- An educational unit for the Cooling Fan.
- The equipment is proper to explain each parts and operating principle of Cooling Fan.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Cooling Fan
- Size : Approx. 300 X 300 X 500 mm
- Weight : Approx. 10 kg

Piston System Model YESA-2740

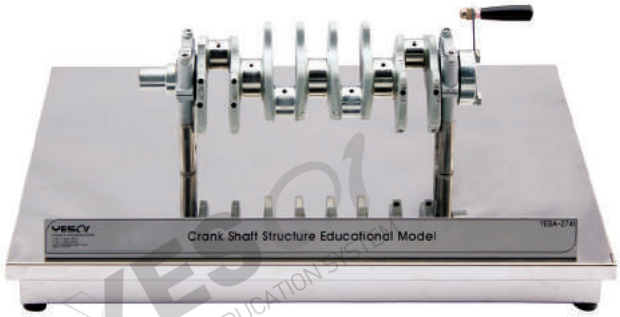
Feature

- An educational unit for Piston Structure.
- The equipment is proper to explain each parts and operating principle of Piston Structure Model.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Sectioned piston, Connector rod, Piston ring, Cylinder
- Size : Approx. 400 X 300 X 200 mm
- Weight : Approx. 15 kg

Crank Shaft Model with Handles YESA-2741



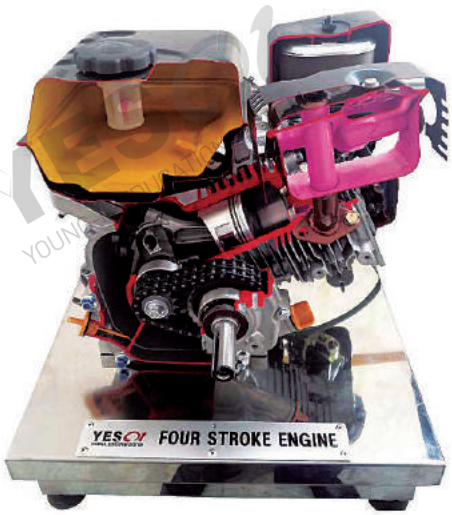
Feature

- An educational unit for Crank Shaft.
- The equipment is proper to explain each parts and operating principle of Crank Shaft.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Crank Shaft
- Size : Approx. 400 X 300 X 200 mm
- Weight : Approx. 25 kg

4 Stroke Cycle Engine Model_ Motor Type YESA-2880



Feature

- An educational unit for the 4 Stroke Engine Model.
- The equipment is proper to explain each parts and operating principle of 4 Stroke Engine Model.
- Incised sections are painted with different colors for education efficiency.
- Real 4 Stroke Engine is mounted and possible to check internal structure by precise cutting.
- Able to check operation process of inner parts such as pistons, valves and crank.

Specification

- Composition : 4 Stroke Engine ASSY
- Single phase 220V speed control motor is attached
- Size : Approx. 600 X 400 X 500 mm
- Weight : Approx. 35 kg

Training Contents

- Stroke education, Intake, Exhaust structure.

4 Stroke Engine_ Manual Type YESA-2881

Feature

- An educational unit for the 4 Stroke Engine Model.
- The equipment is proper to explain each parts and operating principle of 4 Stroke Engine Model.
- Incised sections are painted with different colors for education efficiency.
- Real 4 Stroke Engine is attached and possible to check inside of engine by precise cutting.
- Able to check operation process of inner parts such as pistons, valves and crank.

Specification

- Composition : 4 Stroke Engine ASSY–Manual Type
- Size : Approx. 350 X 500 X 350 mm
- Weight : Approx. 35 kg

Training Contents

- Stroke education, Intake, Exhaust structure.

2 Stroke Engine_ Manual Type YESA-2890

Feature

- An educational unit for the 2 Stroke Cycle Engine Model.
- The equipment is proper to explain each parts and operating principle of 2 Stroke Engine Model.
- Incised sections are painted with different colors for education efficiency.
- Real 2 Stroke Engine is mounted and possible to check internal structure by precise cutting.
- Able to check operation process of inner parts such as pistons, valves and crank.

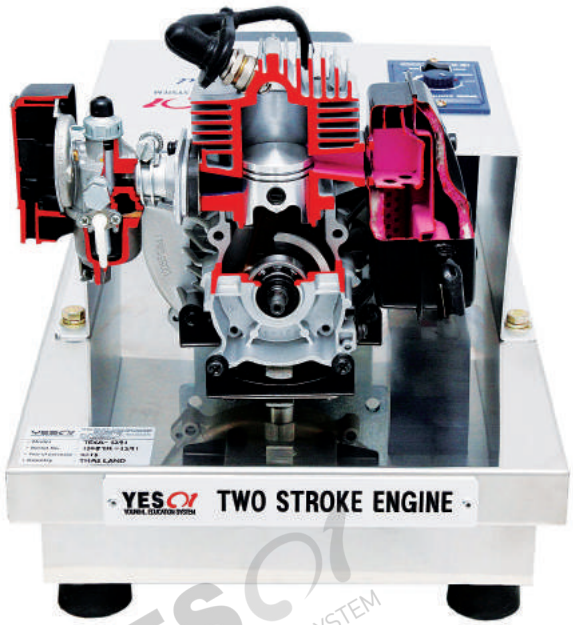
Specification

- Composition : 2 Stroke Engine ASSY Manual Type
- Size : Approx. 350 X 350 X 300 mm
- Weight : Approx. 25 kg

Training Contents

- Stroke education, Intake, Exhaust structure.

2 Stroke Engine_ Motor Type YESA-2891



Feature

- An educational unit for the 2 Stroke Cycle Engine Model.
- The equipment is proper to explain each parts and operating principle of 2 Stroke Engine Model.
- Incised sections are painted with different colors for education efficiency.
- Painting and coating with Vehicle–Only materials.
- Real 2 Stroke Engine is mounted and possible to check internal structure by precise cutting.
- Able to check operation process of inner parts such as pistons, valves and crank.
- LED light is on during explosion as optional accessory.

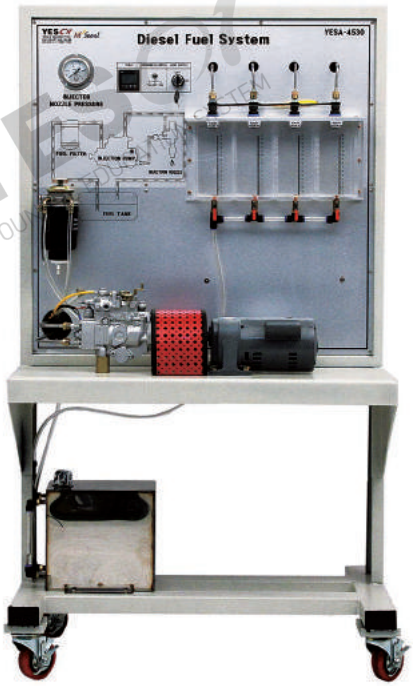
Specification

- Composition : 2 Stroke Engine ASSY, AC 220V
- Single phase 220V speed control motor is attached
- Size : Approx. 400 X 400 X 400 mm
- Weight : Approx. 35 kg

Training Contents

- Cycle Training, Suction/Exhaust, Structure.

Diesel Fuel Injection System_ VE pump YESA-4530



Feature

- Able to understand composition of Diesel Fuel Systemin automobile and fundamental principles.
- Pump is operated by the motor, able to measure the Fuel injection in accordance with RPM.

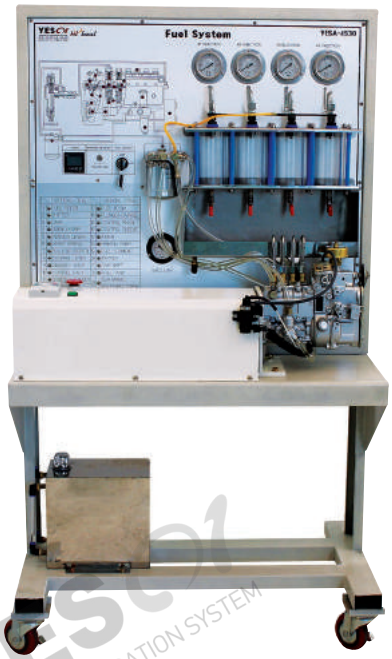
Specification

- Composition : 1) Single Phase ½ HP motor, 2) Timer, 3) VE pumpInjection
- Size : Approx. 600 X 400 X 1,200 mm
- Weight : Approx. 100 kg

Training Contents

- Measuring the injection according to RPM.
- Checking the injector status.
- Checking the injector pump status.
- Oil flow Measurement.
- VE pump Injection study.

Diesel Fuel Injection System_ Inline pump YESA-4531



Feature

- Able to understand composition of injection pump in automobile and fundamental principles.
- Pump is operated by the motor, able to measure the Fuel injection in accordance with RPM.

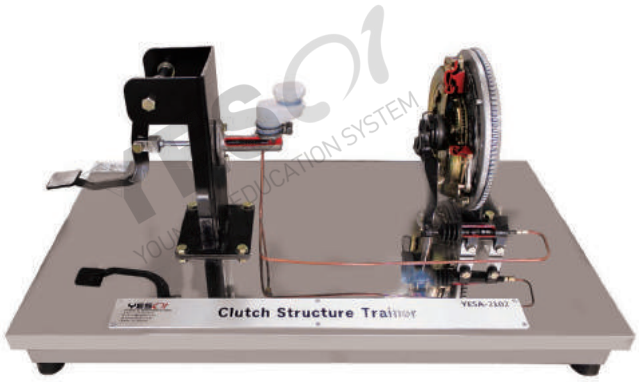
Specification

- Composition
  1) Single Phase½HP moto
  2) Timer
  3) Inline Pump,
  4) 4 Fuel Pressure Gauge,
  5) Inverter For Speed Control Etc
- Size : Approx. 600 X 400 X 1,200 mm
- Weight : Approx. 100 kg

Training Contents

- Measuring the injection according to RPM.
- Checking the injector status.
- Checking the injector pump status.
- Training for Fuel injection.
- Measure the flux, injection patterns.

Clutch Structure Trainer_ Hydraulics YESA-2102



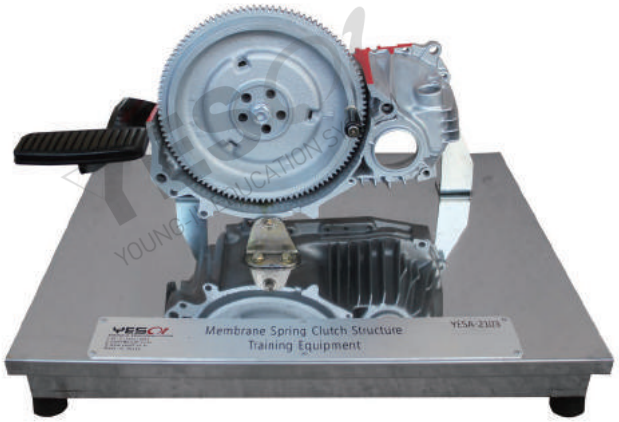
Feature

- An education unit of hydraulic clutch structure inside manual transmission.
- Able to teach operation principle of hydraulic clutch effectively.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Clutch pressing board, Clutch pedal, Clutch cylinder
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 20 kg

Clutch Structure Trainer_ Mechanical, Manual YESA-2103



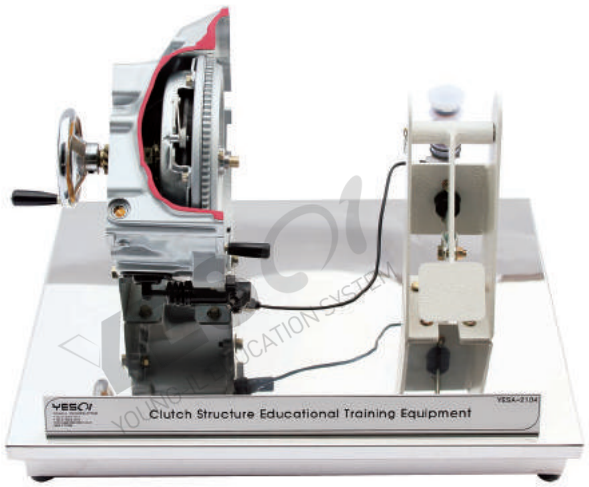
Feature

- An education unit of Mechanical Clutch Structure.
- Able to teach operation principle of Mechanical clutch effectively.
- Able to operate the real movement by handling directly.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Clutch pressing board, Clutch pedal, Clutch cylinder
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 20 kg

Clutch Structure Trainer_ Hydraulic, Manual YESA-2104



Feature

- An education unit of hydraulic Clutch Structure in manual transmission.
- Able to teach operation principle of Mechanical clutch effectively.
- Able to operate the real movement by handling directly.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Fly wheel, clutch pressure board, clutch pedal, opera cylinder, Clutch master Cylinder
- Size : Approx. 600 X 400 X 400 mm
- Weight : Approx. 25 kg

FF Auto Transmission_ Stand Type YESA-2200

Feature

- An educational unit that has FF automatic transmission and torque Converter.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- Stand type 4 inch urethane wheel equipped for comfortable moving.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.
- Structure education is available by incised Torque Converter.

Specification

- Composition : FF automatic transmission, Torque converter
- stand steel, 4 wheel caster
- 4–speed forward, 1–speed reverse
- Size : Approx. 800 X 600 X 1,000 mm
- Weight : Approx. 60 kg

FF Auto Transmission_ 6 Steps YESA-2200A

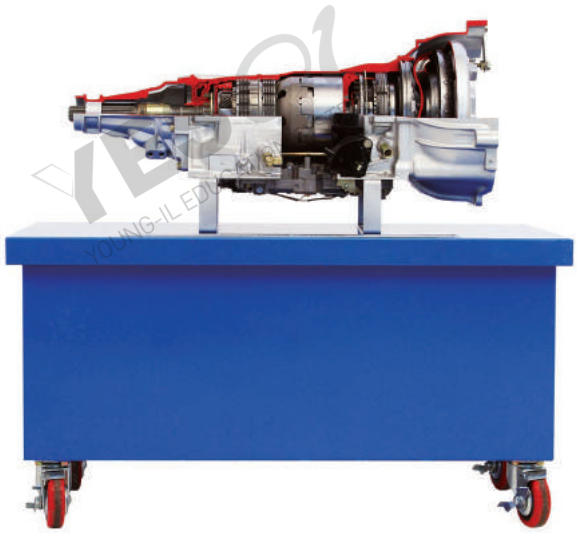
Feature

- An educational unit that has all–wheel drive automatic transmission and torque Converter.
- Able to help understanding of functions of automatic transmission and principles of power transmission.
- Paint for vehicle is used in painting and coating.
- Each incised torque convertor section is painted with different colors for education efficiency.
- Stand type 4 inch urethane wheel equipped for comfortable moving.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : FF 6 steps automatic transmission, Torque converter
- stand steel, 4 wheel caster
- 4–speed forward, 1–speed reverse
- Size : Approx. 600 X 600 X 1,100 mm
- Weight : Approx. 60 kg

FR Auto Transmission_ Stand Type YESA-2201



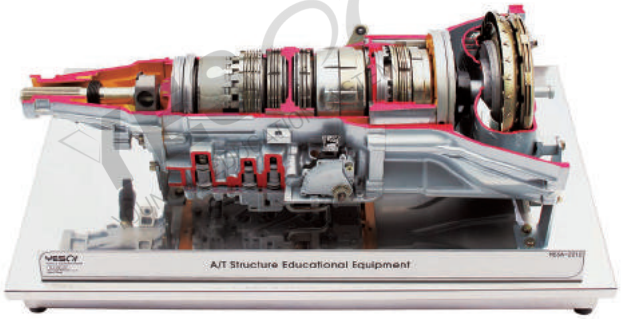
Feature

- An educational unit that has rear wheel drive automatic transmission and torque converter.
- Able to help understand functions of automatic transmission and principles of power transmission.
- Paint for vehicle is used in painting and coating.
- Each incised torque convertor section is painted with different colors for education efficiency.
- Stand type 4 inch urethane wheel equipped for comfortable moving.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : FR Automatic transmission (4steps forward, 1step back)
- stand steel, 4 wheel caster
- 4–speed forward, 1–speed reverse gear
- Size : Approx. 600 X 400 X 800 mm
- Weight : Approx. 80 kg

FR Auto Transmission Training Equipment YESA-2202



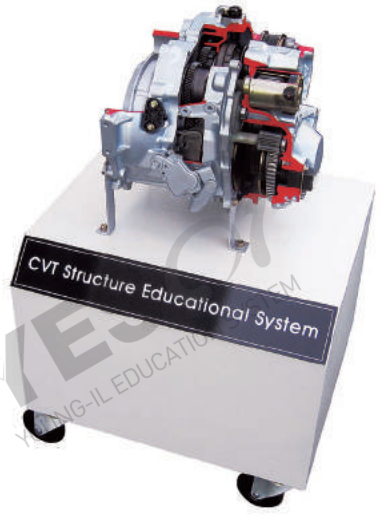
Feature

- An educational unit that has rear wheel drive automatic transmission and torque Converter.
- Able to help understand operation of automatic transmission and principles of power transmission.
- Paint for vehicle is used in painting and coating.
- Each incised torque convertor section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : FR Automatic transmission, Torque Converter
- Miller Stand
- Size : Approx. 600 X 400 X 300 mm
- Weight : Approx. 60 kg

Continuous Variable Transmission (CVT)_ Steel Belt 1,000cc YESA-2203



Feature

- Able to help understand operation functions of CVT and principles of power transmission.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : CVT (Continuously Variable Transmission)
- Stand : steel, 4wheel caster
- Size : Approx. 600 X 400 X 800 mm
- Weight : Approx. 60 kg

Continuous Variable Transmission (CVT)_ 2,000cc YESA-2204

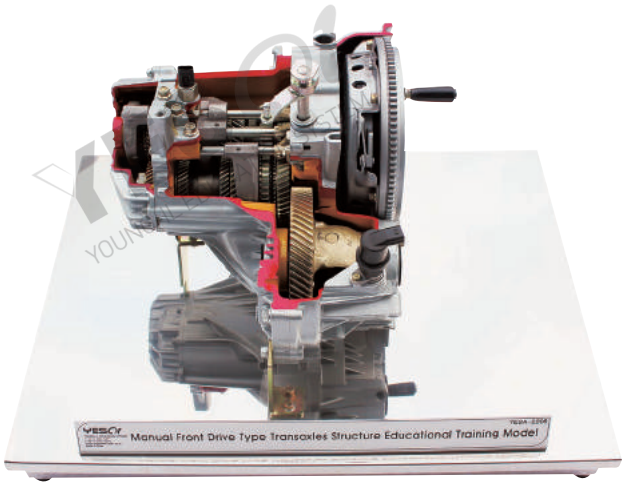
Feature

- An educational unit of 2,000cc CVT.
- Able to help understanding operation functions of CVT and principles of power transmission.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : CVT (Continuously Variable Transmission), 2,000cc
- Mirror stand type
- Size : Approx. 600 X 400 X 300 mm
- Weight : Approx. 60 kg

FF Manual Transmission YESA-2206



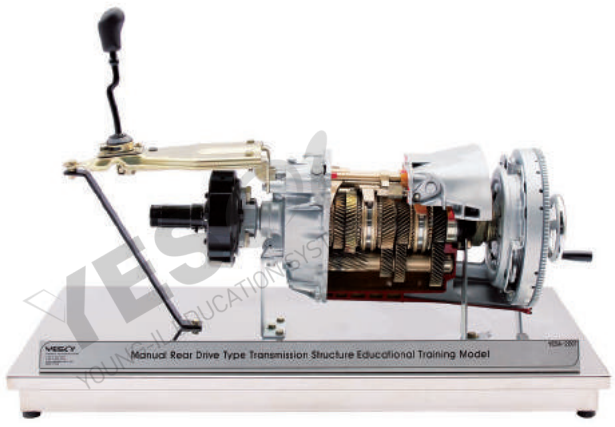
Feature

- An educational unit that has front wheel drive manual transmission and torque converter.
- Able to help understand functions of manual transmission by manual operating.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : FF Manual Transmission
- 5-speed forward, 1-speed reverse
- Size : Approx. 500 X 400 X 300 mm
- Weight : Approx. 40 kg

FR Manual Transmission YESA-2207



Feature

- An educational unit that has rear wheel drive manual transmission and torque Converter.
- Able to help understand functions of manual transmission by operating.
- Paint for vehicle is used in painting and coating.
- Each incised torque convertor section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : FR manual Transmission, Torque Converter
- 5-speed forward, 1-speed reverse
- Size : Approx. 600 X 400 X 300 mm
- Weight : Approx. 60 kg

4WD FR Manual Transmission — YESA-2208

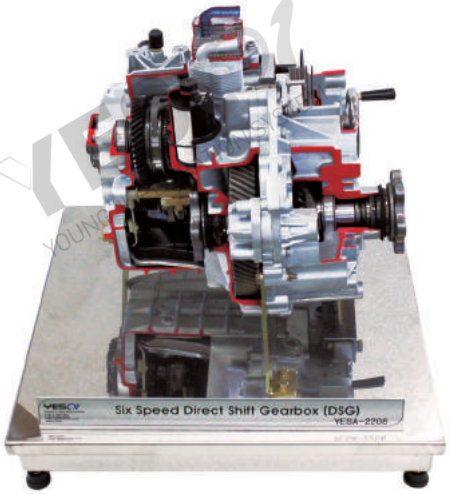
Feature

- An education unit of 4WD F/R Manual Transmission Structure and the torque converter.
- Able to understand operation functions by manual operation.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied and manufacturing.

Specification

- Composition : 4WD FR manual transmission
- 5–steps forward, 1–step back
- Size : Approx. 600 X 400 X 800 mm
- Weight : Approx. 60 kg

6-Speed Direct Shift Gearbox (DSG) Automatic Transmission — YESA-2209



Feature

- An educational unit for DSG (Direct Shift Gearbox) 6–speed automatic transmission.
- Able to help understanding of operating functions of DSG automatic transmission and principles of power transmission.
- Paint for vehicle is used in painting and coating.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : DSG 6–speed automatic transmission (VW PASSAT)
- 6–steps forward, 1–step back
- Size : Approx. 400 X 400 X 300 mm
- Weight : Approx. 60 kg

Hybrid FF Transmission_ Prius — YESA-2213

Feature

- An structure educational unit of MG1, MG2 motor of hybrid transmission.
- Able to explain each part of hybrid transmission and help understanding of operating functions and principles of power transmission.
- Painting and coating with Vehicle–Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process from ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Hybrid FF Transmission (Toyota Prius)
- Stand : Steel, 4 wheel caster
- Size : Approx. 900 X 700 X 1,400 mm
- Weight : Approx. 150 kg

Hybrid FF Transmission_ AVANTE Porte YESA-2215

Feature

- An educational unit of Soft Type Hybrid Transmission Structure.
- Able to explain each part of Hybrid transmission and help understanding operation functions and principles of power transmission.
- Easy to understand by operation demonstrating.
- Painting and coating with Vehicle–Only materials.
- Each incised sections are painted with different colors for education efficiency.
- The entire process from ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Hybrid FF transmission (AVANTE HD, Porte)
- Stand : steel, 4wheel stand
- Motor operation : by single phase 220V and speed controller
- Size : Approx. 900 X 700 X 1,400 mm
- Weight : Approx. 150 kg

Planetary Gear_ Raving Neaux Type YESA-2220

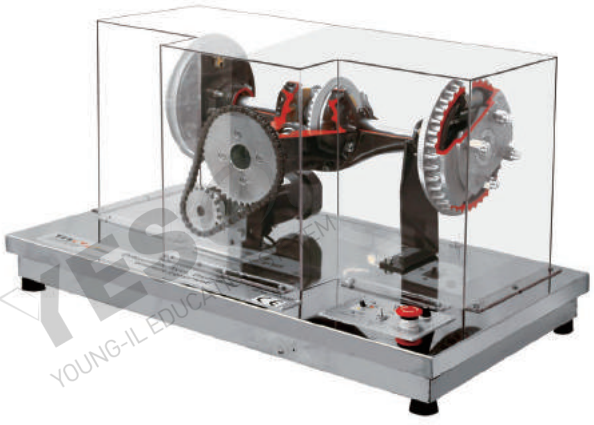
Feature

- An educational unit for Raving Neaux type(manual type) of Planet gear.
- Able to explain each part of planet gear and helps understanding of operating functions and principles of power transmission.
- Able to observe the movement of gears by manual operation.
- Incised sections are painted with different colors for education efficiency.
- The entire process from ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Planetary Gear
- Size : Approx. 400 X 300 X 200 mm
- Weight : Approx. 10 kg

Automotive Vehicle Gear Structure Training Equipment_ Operation Type YESA-2402



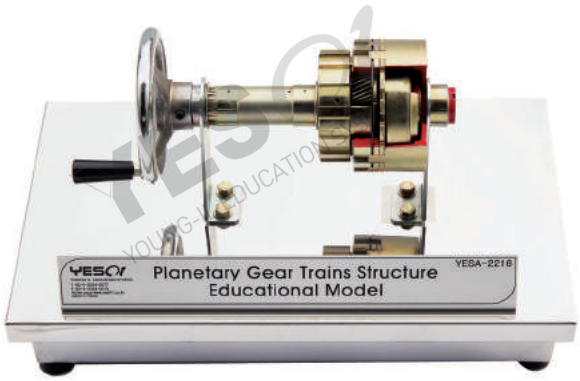
Feature

- Structural Education module Automotive Vehicle Gear_ Operation Type.
- Easy to explain automotive vehicle gear structure in each section and educate operation function and power transmission.
- Available to check and educate actual work by equipping the motor.
- Exterior painted with 9 different color makes easy to distinguish.
- The entire process by ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Automotive vehicle gear(rear–wheel), motor, emergency switch, safety fuse, safety break
- Size : Approx. 800 X 500 X 300 mm
- Weight : Approx. 40kg

Planetary Gear Power Train — YESA-2221



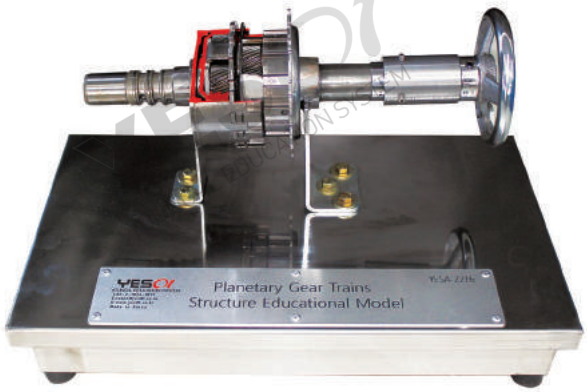
Feature

- Manual type of an educational unit for planetary gear structure.
- Able to help understanding of functions and principles of planetary gear structure and power converter.
- Able to observe the movement of gears by manual operation.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Planetary Gear
- Size : Approx. 400 X 300 X 200 mm
- Weight : Approx. 10 kg

Planetary Gear power Train_ Simpsom Type — YESA-2222



Feature

- An educational unit for Simpson type planetary gear structure.
- Able to understand functions and principles of planetary gear structure and power converter.
- Able to observe the movement of gears by manual operation.
- Painting and coating with Vehicle-Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.

Specification

- Composition : Planetary Gear
- Size : Approx. 400 X 300 X 200 mm
- Weight : Approx. 10 kg

Planetary Gear Power Train_ Motor Attached — YESA-2223

Feature

- An educational unit for planetary gear.
- Able to understand functions and principles of planetary gear structure and how power is delivered.
- Able to observe the movement of by automatic operation.
- Painting and coating with Vehicle-Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method by YES01 are applied in manufacturing.
- Speed : able to check the speed rate between in and out.

Specification

- Composition : Planetary Gear, Controller, I/O RPM Digital Sensor
- Single phase 220V mini geared motor, speed control type
- Size : Approx. 700 X 400 X 400 mm
- Weight : Approx. 50 kg

Disc and Drum Brake Model — YESA-2305

Feature

- An education unit for disc and drum brake system.
- Easy explain each parts and operating principle of Disc and Drum brake.
- Hydrovac is attached and master cylinder operation is available.
- Measurement of break pressure between no.1 and no.2 master cylinders.
- Painting and coating with Vehicle–Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Drum brake, Side cable, Side lever
- Size : Approx. 800 X 500 X 700 mm
- Weight : Approx. 50 kg

Drum Brake_ Hand Brake — YESA-2306

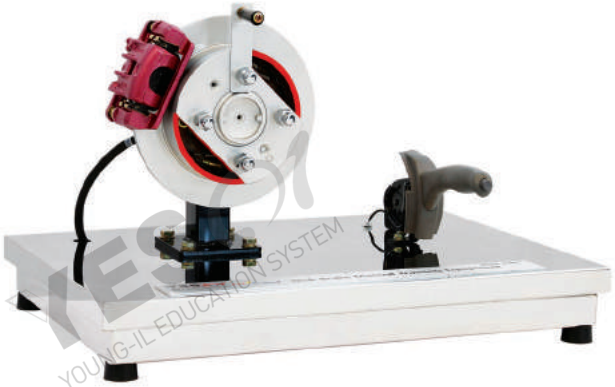
Feature

- Structure trainer for drum brake.
- Easy to explain each parts and operating principle of Drum brake.
- Able to observe the movement of the break system by manual operation.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Drum brake, Side cable, Side lever
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 20 kg

Disc Brake_ Hand Brake — YESA-2307



Feature

- Structure trainer for Disc Brake, Parking Brake.
- Easy to explain each parts and operating principle of Disc Brake, Parking Brake.
- Able to observe the movement of the Brake system by manual operation.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Disc brake, Caliper, Side cable, Side lever
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 20 kg

Vacuum Brake_ Master Cylinder YESA-2308

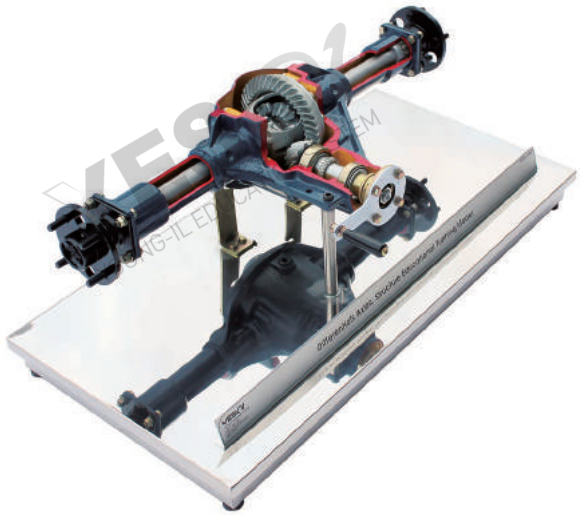
Feature

- Structure education unit for the brake master-vac and cylinder.
- Able to explain each part of brake booster and understand operating functions and principles of power delivery.
- Able to observe movement of cylinder by manual operation.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Brake master vac, brake master cylinder, brake oil tank, brake pedal
- Size : Approx. 400 X 300 X 300 mm
- Weight : Approx. 20 kg

Differential Gear YESA-2401



Feature

- Structure education unit for Differential Gear. (Manual Type)
- Easy to explain each part of the Differential Gear and understand operating functions and principles of power delivery.
- Students are able to observe movement of Differential Gear by manual operation.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Differential Gear (real axle)
- Size : Approx. 800 X 500 X 300 mm
- Weight : Approx. 40 kg

LSD Structure Training Equipment YESA-2404

Feature

- An educational unit for LSD (Limited Slip Differential) to understand the function and operating principle.
- LSD: When driving the vehicle on the slippery or dirt road and not getting out of the road, it helps come out easily.
- 9 incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are.
- applied in manufacturing.

Specification

- Composition : Differential Gear (axle of a rear wheel)
- Size : Approx. 400 X 500 X 300mm
- Weight : Approx. 20kg

LSD (Limited Slip Differential)_ Integrated Type YESA-2405

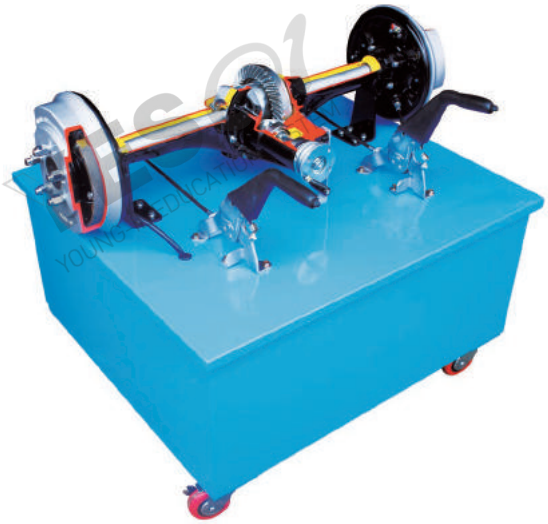
Feature

- Structure education unit for LSD (Limited Slip Differential) gear.
- Able to explain each part of Differential Gear and help understand operation functions and principles of power delivery.
- Able to observe movement by manual operation.
- Painting and coating with Vehicle-Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.
- Training equipment with the actual rear axle of vehicle.
- LSD : When driving the vehicle on the slippery or dirt road and not able to getting out of the road, LSD helps come out easily.

Specification

- Composition : Differential Gear (Rear axle)
- Size : Approx. 800 X 500 X 300 mm
- Weight : Approx. 40 kg

LSD (Limited Slip Differential)_ Integrated Type YESA-2406



Feature

- Structure education unit for LSD (Limited Slip Differential) gear.
- Able to explain each part of Differential Gear and help understand operation functions and principles of power delivery.
- Able to observe movement by manual operation.
- Painting and coating with Vehicle-Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.
- Training equipment with the actual rear axle of vehicle.
- LSD : When driving the vehicle on the slippery or dirt road and not able to getting out of the road, LSD helps come out easily.

Specification

- Composition : Differential Gear (Rear axle)
- Size : Approx. 1,400 X 700 X 800 mm
- Weight : Approx. 100 kg

MDPS (Motor Driven Power Steering) Training Equipment YESA-2500

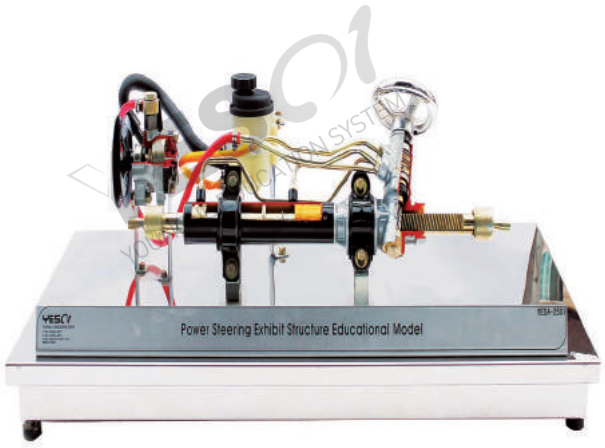
Feature

- MDPS : Motor Driven Power Steering.
- An educational unit of traditional type of MDPS.
- Able to explain each part of MDPS such as, motor, controller and steering and as well as power delivery principles.
- Able to observe movement by manual operation.
- Painting and coating with Vehicle-Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Steering MDPS motor unit, steel frame stunt, rack and pinion
- Size : Approx. 1,000 X 800 X 1,050 mm
- Weight : Approx. 60 kg

Power Steering Gear YESA-2501



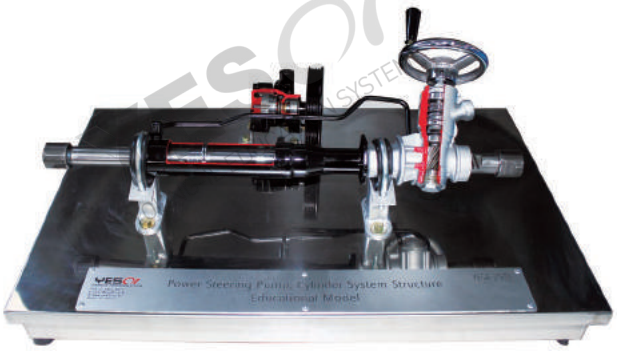
Feature

- Structure education unit of power steering gear.
- Able to explain each part of power steering gear and understand power delivery principals.
- Able to check oil flows by power pump.
- Able to observe movement by manual operation.
- Painting and coating with Vehicle-Only materials.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Power steering gear, Steering oil pump, oil tank
- Size : Approx. 600 X 400 X 400 mm
- Weight : Approx. 45 kg

Power Steering Gear YESA-2503



Feature

- Structure education unit of power steering gear.
- Able to explain each part of power steering gear and understand power delivery principles.
- Students are directly able to operate the unit for better understanding.
- Painting and coating with Vehicle-Only materials.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Power steering gear, Steering oil pump, oil tank
- Size : Approx. 800 X 400 X 400 mm
- Weight : Approx. 45 kg

Steering Box with Ball Circulation YESA-2504

Feature

- Structure education unit of ball steering box of one ton capacity truck.
- Able to explain each part of steering gear box and help understanding operation functions and understand power delivery principles.
- Students are directly able to operate the unit for better understanding.
- Painting and coating with Vehicle-Only materials.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Steering gear box, Stand, Knob
- Size : Approx. 400 X 400 X 400 mm
- Weight : Approx. 45 kg

Wheel Hub and Bearing Model — YESA-2801

Feature

- An educational unit for Wheel Hub and Bearing Mode.
- The equipment is proper to explain each parts and operating principle of Wheel Hub and Bearing Mode.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Wheel Hub, Bearing Mode
- Size : Approx. 300 X 300 X 200 mm
- Weight : Approx. 20 kg

Gear Lever with Pulley Model — YESA-2802

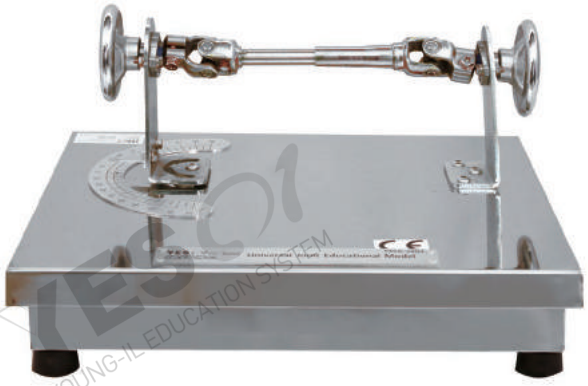
Feature

- Educational equipment for speed controller of continuously variable transmission.
- Easy to check rotating ratio of left and right pulley with manual lever.
- Painting and coating with Vehicle Only materials.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Pulley, Gear, Lever
- Size : Approx. 400 X 400 X 350 mm
- Weight : Approx. 20 kg

Universal Joint Structure Training Equipment — YESA-2505



Feature

- An educational unit of Universal Joint structure.
- The equipment is proper to explain function and operating principle of Universal Joint.
- Able to observe the change of the power for every angles by driving directly.
- To prevent from rust, each parts are plated and painted.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Universal Joint, handle
- Size : Approx. 400 X 300 X 300mm
- Weight : Approx. 15kg

Air Conditioning Compressor Structure Training Equipment YESA-2803

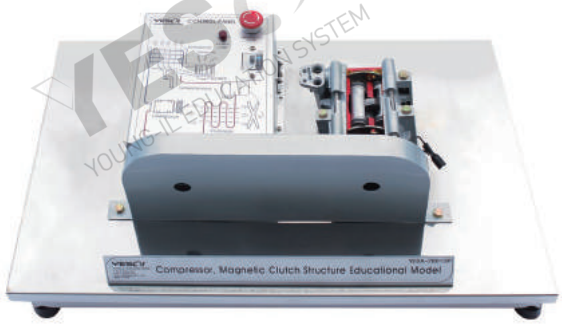
Feature

- An educational unit for the Air Conditioning Compressor Structure.
- The equipment is proper to explain each parts and operating principle of the compressor.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition: Compressor
- Size : Approx. 400 X 300 X 300mm
- Weight : Approx. 20kg

Air Conditioning Compressor Structure Training Equipment_ Operation Type YESA-2804



Feature

- An educational unit for the Air Conditioning Compressor.
- The equipment is proper to explain each parts and operating principle of compressor.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Turbocharger/Intercooler
- Size : Approx. 400 X 300 X 500mm
- Weight : Approx. 20kg

Shock Absorber Structure Training Equipment YESA-2805

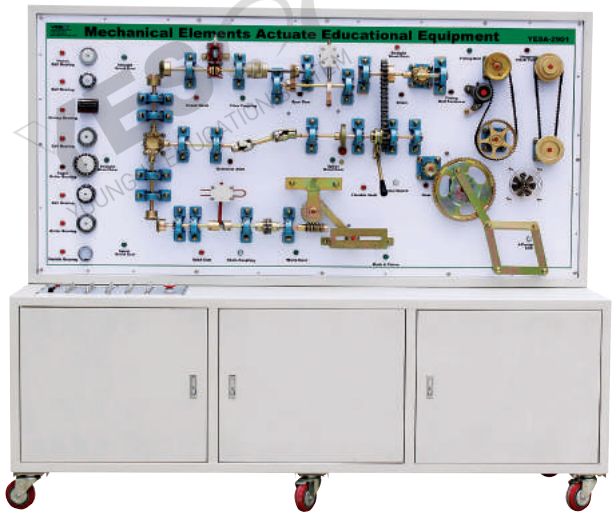
Feature

- An educational unit of Shock Absorber structure.
- The equipment is proper to explain each parts, operating function and crash reduction principle of Shock Absorber.
- 9 incised sections are painted with 9 different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Shock Absorber, miller stand
- Size : Approx. 400 X 300 X 300mm
- Weight : Approx. 15kg

Automotive Elements with Actuator System_ Motor Type YESA-2901



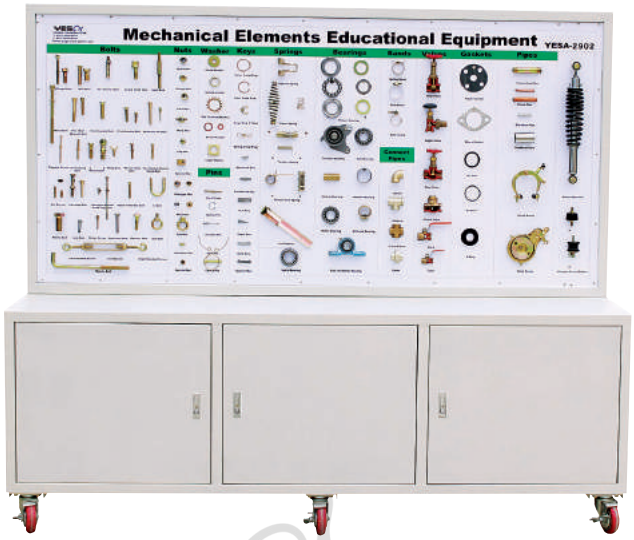
Feature

- Educational equipment for mechanical elements with motor operation.
- Demonstrate the power delivery process by single phase 220V reduction motor operation.
- Operating principle can be easily educated by composition of shaft, coupling, joint, clutch, helical, bevel, worm gear, belt, pulley, link and etc.
- Auto rotation by reducer.
- Each part has signal lamp to increase educational effectiveness.
- Cutaway bearing part to check internal structure.
- Painting and coating with Vehicle–Only materials.
- Each incised section is painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Shaft (Crank, Flexible, Linear shaft), Coupling (Claw, Chain), Universal joint, Link, Belt (Timing, V type), Cylinder, Single–phase 220V, 1/2 HP motor, Lamp, Emergency switch, Key switch, Gear (Straight bevel, Spiral bevel, Spur, Worm), Bearing (Thrust ball, Ball, Sliding, Taper roller, Roller, Niddle)
- Size : Approx. 2,000 X 600 X 1,700 mm
- Weight : Approx. 260 kg

Automotive Mechanical Elements Training Equipments_ Type One YESA-2902



Feature

- Panel Type of Educational unit for Mechanical Element Structure.
- Elements parts and its name are organized on the panel.
- Paint for vehicle is used in painting and coating.
- Painting and coating with Vehicle–Only materials.
- Each incised section regarding valves is painted with orange color for education efficiency.
- Panel is covered with the color sheet papers.

Specification

- Composition : Bots(30 types), Nut(11 types), Washers(5types) pin and key(15types), Spring(5types), Bearing(10types), Band(3types), Connector(4types), Gasket(5types), Pipe and Break(6types) and others (3types)
- Size : Approx. 2,000 X 600 X 1,650 mm
- Weight : Approx. 150 kg

Automotive Mechanical Elements Training Equipments_ Type Two YESA-2903

Feature

- Easy to understand elements parts, its name and shapes.
- Parts storage is attached to allow students to touch the parts directly.

Specification

- Composition
  1) Screws : triangle, square, round, pipe, heli-coils, spindle shaft, clutch, spline
  2) Bolt : mood wrench, tap bolts, stud bolts, foundation bolts, eye bolts, french bolt, butterfly boat, hexagon bolts, U bolts
  3) Nuts & washers : nuts, cap nuts, flange nuts, lock nuts, eye nuts, hexagon nuts, flat washers, spring washer
  4) Keys & Pin : saddle keys, funky, sunk key, tangent key, half-moon key, taper pin, parallel pin, cotter pin, R pin
  5) Gear & Coupling : parallel shaft gears, cams, cross shaft gears, chain gear, chain couplings, Joe couplings, flange couplings
  6) Bearings : ball bearings, thrust bearings, cylindrical roller bearings, self-aligning ball bearings, angular contact bearings, tapered roller bearings, unit bearing, plain bearings, snap rings, round head rivets, countersunk head rivets, flat head rivets, indirect transmission devices (belts, chains, rope)

Automotive Mechanical Elements Training Equipments_ Basic Type YESA-2904

Feature

- Educational equipment for mechanical element.
- Efficient for theory education with comparison of gear, pulley, cam, chain, bearing, link and lever.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : straight gear, worm gear, V belt pulley, belt pulley, plate cam, double chain, single chain, 3-paragraph linkage, 4-paragraph linkage, lever, thrust bearing, roller bearing, needle bearing, ball bearing
- Size : Approx. 700 X 640 X 1,700 mm
- Weight : Approx. 80 kg

Hybrid Cycle Power Train System YESA-2906

Feature

- Able to explain each part and help understand operation functions and principles of Hybrid Cycle Power Train System on pane.
- Able to attach and detach the actual cycle.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Motor, Generator : 240W brushless DC, Gear Transmission : Rear Hub 3steps, Brake : Roller Break, Tire : 20 X 1.75HE, Weight : 20.8 kg
- Size : Approx. 2,000 X 600 X 1,500 mm
- Weight : Approx. 90 kg
- Bicycle
- Company : YAMAHA,
- Model : PZ20CC,
- Frame : Aluminum frame,
- Moving Distance : Standard mode : 40 km,
- Power mode : 21 km,
- Auto eco mode plus : 69 km, Battery : Li –ion 25.5V 4AH

27 Gear Stinger Power Train System YESA-2907

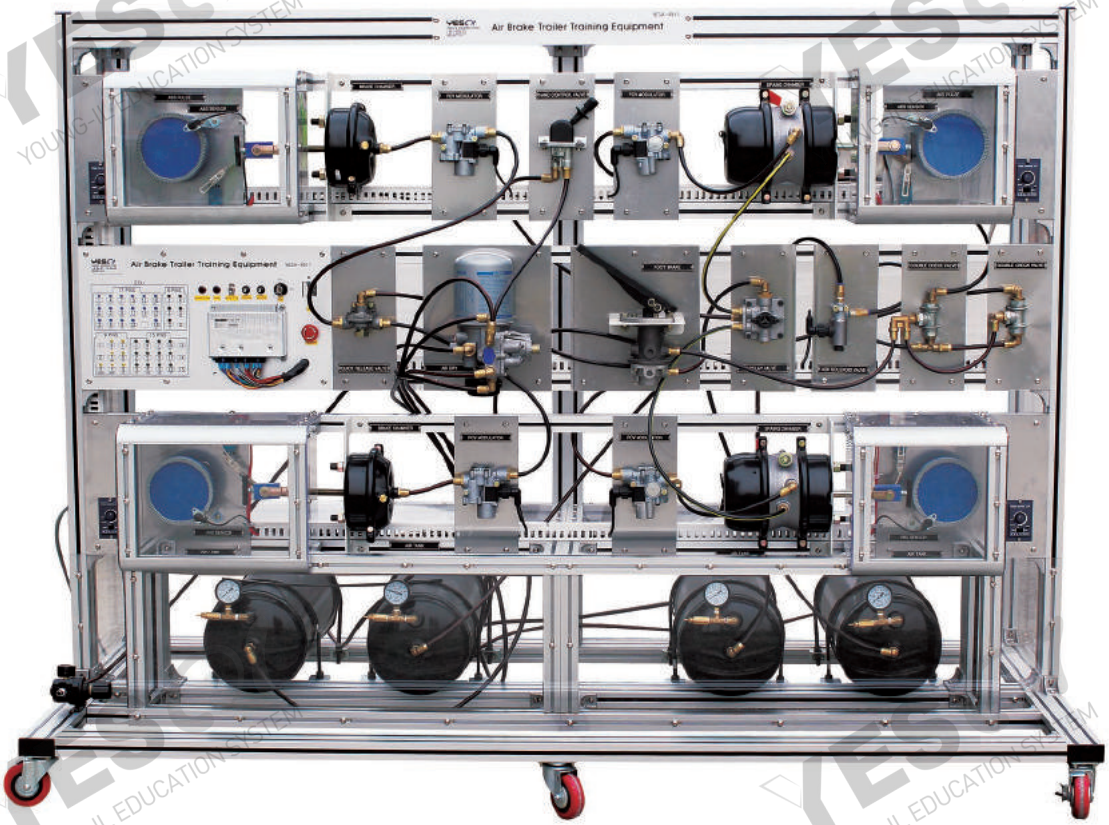
Feature

- It is manufactured to attach/detach the actual cycle.
- Able to explain each part of Hybrid Cycle Power Train System and help understand operation functions and principles of Hybrid Cycle Power Train System.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Gear Transmission : Rear Hub 3Steps
  2) Brake : Roller Break
  3) Tire : 20 X 1.75HE
  4) Weight : 20.8 kg
- Size : Approx. 2,000 X 600 X 1,500 mm
- Weight : Approx. 90 kg

Trailer Air Brake Training Equipment YESA-4910



Feature

- Understandingair brake System's from heavy truck operation principles, maintenance, inspection.
- Able to control wheel rotation, speed with motor.
- Able to test with installed air tanks and all parts from the air brake.
- Air tank and air brake system are designed to operate the same as the actual vehicle.
- Rotation parts are covered with the acryl cover for safety.

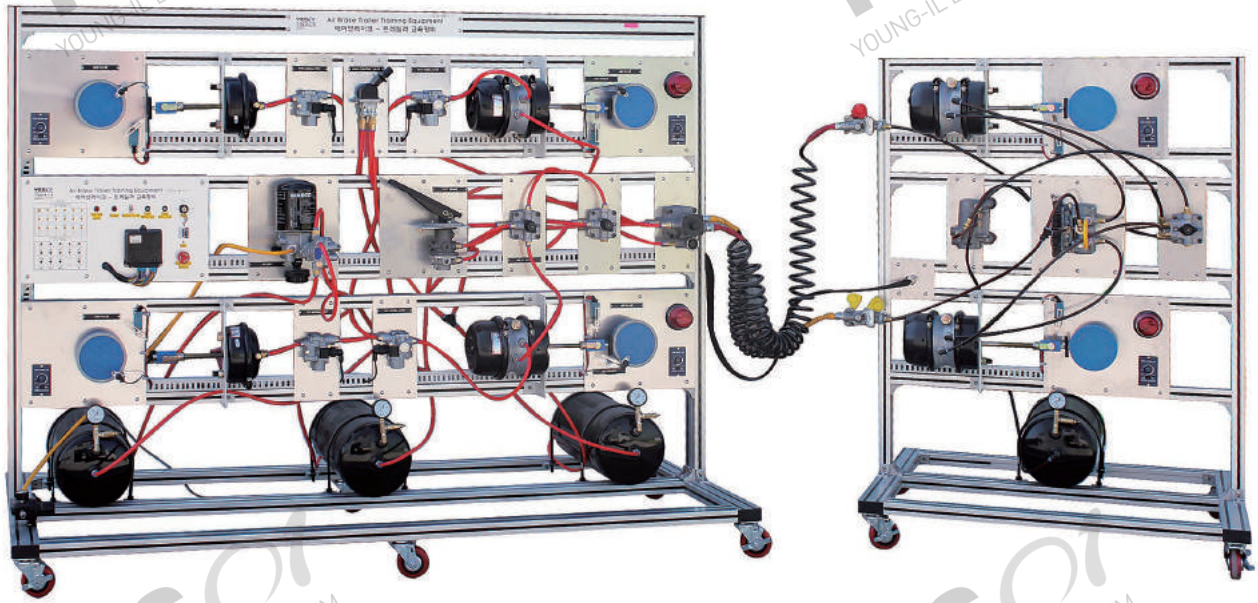
Specification

- Composition : Air tank, Pressure regulator, Brake pedal, Air pressure gauge, single chamber 2ea, double chamber 2ea, ECU, Parking brake valve, Check valve, ABS pulse ring, PCV modulator, Quick release valve, Air dryer, Double check valve etc. Profile stand
- Control panel: Check terminal, Power lamp, Fuse holder, Key switch, Power switch, Emergency switch
- Driving motor: single phase 220V speed control type 120W motor 4ea
- 4 safety trans parency cover included
- Size : Approx. 2,400 X 1,000 X 1,800 mm
- Weight : Approx. 250 kg

Training Contents

- How to use the foot brake and hand control valve.
- Output Voltage Test.
- ABS Waveform Test.
- ABS Modulators resistance Test.
- completing the brake air line Test.

Trailer Type Air Bake System Training Equipment YESA-4915



Feature

- Understanding air brake System's operation principles,maintenance, inspection from heavy truck.
- Consist of brake system from the body part and the trailer for understanding how it works and training.
- Able to control wheel rotation, speed with motor.
- Able to test with installed air tank and all components from the air brake system.

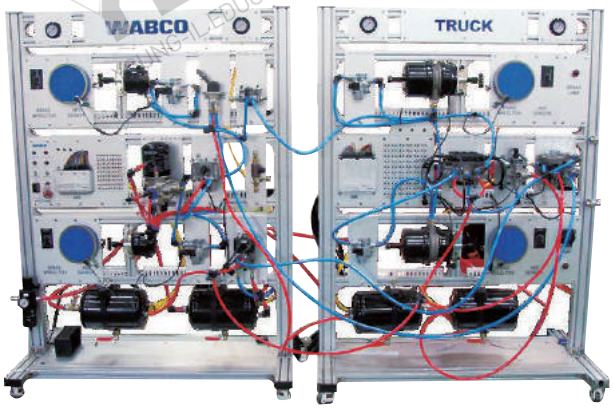
Specification

- Composition : Air tank, Pressure regulator, Brake pedal, Air pressure gauge, single chamber 2ea, double chamber 2ea, ECU, Parking brake valve, Check valve, ABS pulse ring, PCV modulator, Quick release valve, Air dryer, Double check valve etc. Profile stand
- Control panel : Check terminal, Power lamp, Fuse holder, Key switch, Power switch, Emergency switch
- Driving motor : single phase 220V speed control type 120W motor 4ea
- Size : Approx. 2,400 X 600 X 1,800 mm + 800 X 600 X 1,600 mm (Trailer)
- Weight : Approx. 150 kg + 60 kg (Trailer)

Training Contents

- How to use foot brake and hand control valve.
- Output Voltage Test.
- ABS Waveform Test.
- ABS Modulators resistance Test.
- completing the brake air line Test.
- Connecting the air line from the trailer brake system.

WABCO Trailer Type Truck Air Brake System Simulator YESA-4912



Feature

- Understandingair brake System operation principles, maintenance, inspection from the heavy truck.
- Able to control wheel rotation, speed with motor.
- Able to test with installed air tank and all components from the air brake system.

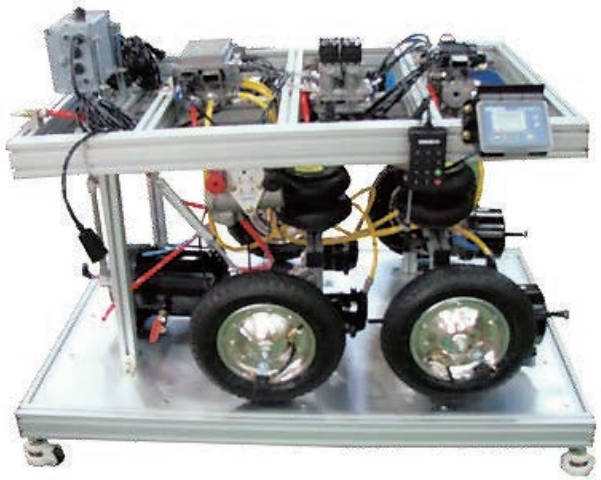
Specification

- Composition : Air tank, Pressure regulator, Brake pedal, Air pressure gauge, single chamber 2ea, double chamber 2ea, ECU, Parking brake valve, Check valve, ABS pulse ring, PCV modulator, Quick release valve, Air dryer, Double check valve etc. Profile stand
- Control panel : Check terminal, Power lamp, Fuse holder, Key switch, Power switch, Emergency switch
- Driving motor: single phase 220V speed control type 120W motor 4ea
- Size : Approx. 2,400 X 600 X 1,800 mm
- Weight : Approx. 150 kg

Training Contents

- How to use the foot brake and hand control valve.
- Output Voltage Test.
- ABS Waveform Test.
- ABS Modulators resistance Test.
- completing the brake air line Test.

Brake System and Air Suspension System Simulator YESA-4913



Feature

- Understandingoperation principles of air brake System, Air Suspension System and maintenance, inspection.
- Able to test with installed air tank and all components from the air brake system.
- Able to control wheel rotation, speed with motor.
- Each air lines are colored in different colors for educational effect.

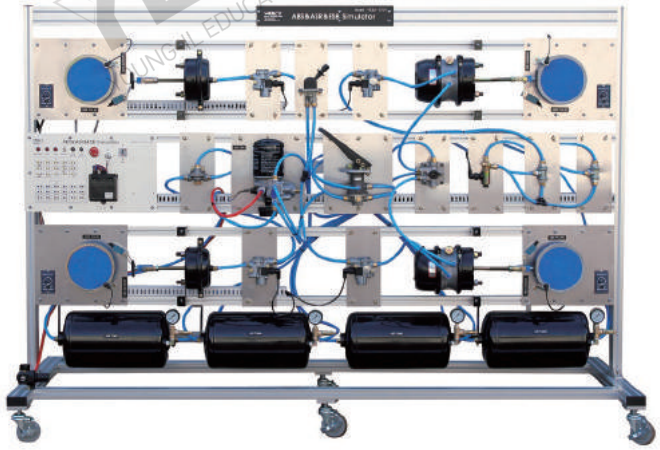
Specification

- Size : Approx. 1,200 X 800 X 1,600 mm
- Weight : Approx. 180 kg

Training Contents

- Output Voltage Test.
- ABS Waveform Test.
- ABS Modulators resistance Test.
- completing the brake air line Test.

Air Brake System Simulator YESA-4911



Feature

- Understandingair brake System's from heavy truck operation principles, maintenance, inspection.
- Able to control wheel rotation, speed with motor.
- Able to test with installed air tank and all components from the air brake system.

Specification

- Composition : Air tank, Pressure regulator, Brake pedal, Air pressure gauge, single chamber 2ea, double chamber 2ea, ECU, Parking brake valve, Check valve, ABS pulse ring, PCV modulator, Quick release valve, Air dryer, Double check valve etc. Profile stand
- Control panel: Check terminal, Power lamp, Fuse holder, Key switch, Power switch, Emergency switch
- Driving motor: single phase 220V speed control type 120W motor 4ea
- Size : Approx. 2,400 X 600 X 1,800 mm
- Weight : Approx. 150 kg

Training Contents

- How to use the foot brake and hand control valve.
- Output Voltage Test.
- ABS Waveform Test.
- ABS Modulators resistance Test.
- completing the brake air line Test.

Air Brake A.B.S System Training Equipment YESA-4914

Feature

- Understanding air brake System's from heavy truck operation principles, maintenance, inspection.
- Able to control wheel rotation and speed with motor.
- Equipment of A.B.S (Anti-lock Brake System) switch for understanding and educating A.B.S system.
- The seat is attached to allow students to operate through each part of the attached air tank and air brake system.

Specification

- Composition : 1.5kW / 2.5hp compressor, 220V / 0.2kW motor, regulator
- Size : Approx. 1200 X 800 X 1600mm
- Weight : Approx. 150kg

Training Contents

- Comparing A.B.S brake operation Test.
- Completing the brake air-line Test.

Hydraulic & Pneumatic Brake System Training Equipment YESA-4919

Feature

- Training equipment for Trailer Air Brake System structure.
- Effective to explain for each Trailer Air Brake System parts and educate operation function and power transmission principle.
- Equipment with attached panel on actual automotive vehicle and its incised components can be observed with naked eye.
- Enhance educational effect by painting parts differently.

Specification

- Drum Brake, Brake pedal, PVC modulator, Brake booster, Air dry air tank, chamber
- Size : Approx. 2400 X 600 X 2000mm
- Weight : Approx. 100kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly the drum brake.
- Removing the air.
- Replacing pad, lining.

ABS System Fault Diagnosis Simulator_ 4 Axis YESA-4920

Feature

- This equipment is effective to understand and educate A.B.S system and for maintenance, inspection training.
- Vehicle-specific wiring, parts are used.
- Comparing between the electric data and physical data on the panel.
- The rear panel is effective to understand the circuit diagram and pneumatic lines of the A.B.S. system at a glance.
- Able to measure the pressure and voltage when loading/unloading with a load panel.
- Able to observe reaction condition and changes according to speed by a motor, a inverter.

Specification

- Size : Approx. 1,200 X 2,000 X 1,600 mm
- Weight : Approx. 300 kg

Training Contents

- Various elementby self-diagnosis.
- Removing the air from the brake.
- Replacing brake oil.
- Replacing pad.
- Hydraulic system Inspection.
- ABS circuit verification.
- Able to demonstrate the failure test. (arbitrarily)

ABS System Fault Diagnosis Simulator_ 4 Axis YESA-4921A

Feature

- This equipment is effective to understand and educate A.B.S system and for maintenance, inspection training.
- Vehicle–specific wiring, parts are used.
- Comparing between the electric data and physical data on the panel.
- The rear panel is effective to understand the circuit diagram and pneumatic lines of the A.B.S. system at a glance.
- Able to measure the pressure and voltage when loading/unloading with a load panel.
- Able to observe reaction condition and changes according to speed by a motor, a inverter.

Specification

- Size : Approx. 1,200 X 2,000 X 1,600 mm
- Weight : Approx. 300 kg

Training Contents

- Various elementby self–diagnosis.
- Removing the air from the brake.
- Replacing brake oil.
- Replacing pad.
- Hydraulic system Inspection.
- ABS circuit verification.
- Able to demonstrate the failure test. (arbitrarily)

Brake System Simulator YESA-4923

Feature

- This equipment is effective to understand and educate A.B.S system and for maintenance, inspection training.
- Vehicle–specific wiring, parts are used.
- Comparing between the electric data and physical data on the panel.
- Able to measure the pressure and voltage when loading, unloading with a load panel.
- The front panel is effective to understand the circuit diagram and Hydraulics lines of the A.B.S system at a glance.
- Able to observe reaction condition and changes according to speed by a motor, a inverter.

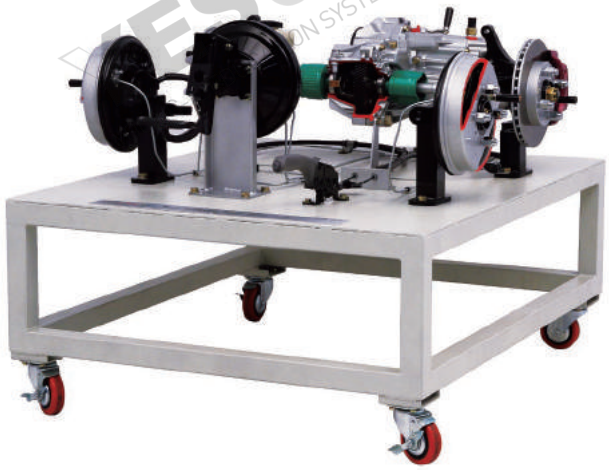
Specification

- Composition of Control box : vacuum gauge, front–back hydraulic gauge, Brake pedal, Side lever, Emergency switch, Key switch, Brake hydraulic control valve, check terminal 20set etc.
- The front wheel driven type as a reduction motor driving type of single phase 220V
- Size : Approx. 1,600 X 2,400 X 1,700 mm
- Weight : Approx. 350 kg

Training Contents

- Various elementby self–diagnosis.
- Removing the air from the brake.
- Replacing brake oil.
- Replacing pad.
- Hydraulic system Inspection.
- ABS circuit verification.
- Able to demonstrate the failure test. (arbitrarily)
- Attach/detach the suspension.
- Attach/detach the power steering.

Brake Structure Simulator YESA-4922



Feature

- This equipment is effective to understand front wheel power transmission and educate Hydraulics brake system and for maintenance, inspection training.
- Able to demonstrate the front wheel manual type of the transmission and to teach the power transmission from the transmission to the wheels.
- Effective to describe each part in Hydraulics brake, functions, operating principles.
- Able to use as an assembly/disassembly.
- Parts are incised to observe the internal components and colored differently for educational effect.

Specification

- Composition : Front wheel drive Manual Transmission, Disc Brakes, Drum Brakes, Master Bag, Master Cylinders, Brake Pedal, Side Lever, Brake Fluid, 4wheel Stand, Heat-treated powder coating

Training Contents

- Assembly/disassembly the brake.
- Removing the air.
- Replacing pad, lining.

Brake System Simulator YESA-4924

Feature

- This equipment is effective to understand and educate Hydraulicsbrake systemand for maintenance, inspection training.
- Able to use as anassembly, disassembly model.
- Parts are incised to observe the internal components and colored differently for educational effect.

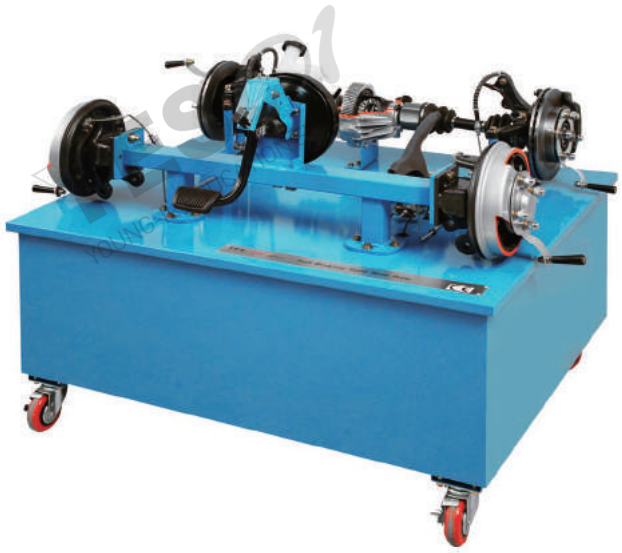
Specification

- Composition : Disc Brakes, Drum Brakes, Master Bag, Master Cylinders, Brake Pedal, Side Lever, Brake Fluid, 4wheel Stand
- Composition of Control box : vacuum gauge, front-back hydraulic gauge, Brake pedal, Side lever, Emergency switch, Key switch
- The front wheel driven type as a reduction motor driving type of single phase 220V
- Size : Approx. 1,200 X 1,000 X 1,200 mm
- Weight : Approx. 200 kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly the drum brake.
- Replacing pad, lining.
- Removing the air.
- Inspection of vacuum pump operating and hydro vac.

Full Braking Type Rear Axle YESA-4925



Feature

- This equipment is effective to understand and educate Hydraulics brake system and for maintenance, inspection training.
- Able to use as an assembly/disassembly.
- Parts are incised to observe the internal components and colored differently for educational effect.

Specification

- Composition : disc brakes, drum brakes, Master bag, master cylinders, brake pedal, Side lever, brake fluid, 4wheel Stand
- Size : Approx. 1,200 X 1,000 X 1,200 mm
- Weight : Approx. 200 kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly the drum brake.
- Replacing pad, lining.
- Removing the air.

Brake System on Display Board YESA-4927

Feature

- Hydraulics brake system educational equipment.
- This equipment is effective to understand and educate Hydraulics brake system and for maintenance, inspection training.
- Able to demonstrate the simulator.
- Parts are incised to observe the internal components.
- Parts are colored differently for educational effect.

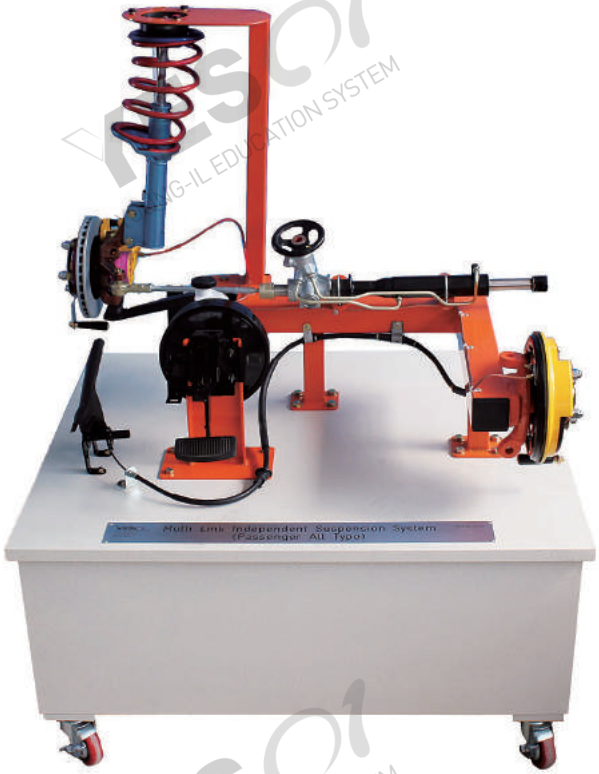
Specification

- Composition : Disc Brakes, Drum Brakes, Master Bag, Master Cylinders, Brake Pedal, Side Lever, ABS module
- Size : Approx. 1,200 X 600 X 1,600 mm
- Weight : Approx. 200 kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly the drum brake.
- Replacing pad, lining.
- Removing the air.

Multi Link Independent Suspension System YESA-4928



Feature

- This equipment is for educating Hydraulics brake system, steering system, suspension system.
- Effective to describe each part in Hydraulics brake system and educating the functions, power transmission.
- Available for the operation principles and structure in brake, steering gear, suspension.
- Available for assembly/disassembly.
- Parts are colored differently for educational effect.

Specification

- Composition : Disc Brakes, Drum Brakes, Master Bag, Master Cylinders, Brake Pedal, Side Lever, Brake Oil
- Size : Approx. 600 X 600 X 1,600 mm
- Weight : Approx. 150 kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly absorber spring.
- Replacing pad, lining.
- Removing the air.

Brake and Suspension Training Equipment YESA-4976

Feature

- This equipment is for educating Hydraulics brake system, steering system, suspension system.
- Effective to describe each part in Hydraulics brake system and educating the functions, power connection.
- Available for the operation principles and structure in brake, steering gear, suspension.
- Available for assembly/disassembly.
- Parts are colored differently for educational effect.

Specification

- Composition : disc brakes, drum brakes, Master bag, master cylinders, brake pedal, Side lever, brake fluid, 4wheel Stand
- Size : Approx. 600 X 600 X 1600mm
- Weight : Approx. 150kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly absorber spring.
- Removing the air.
- Replacing pad, lining.

FF Automatic Transmission Training Equipment YESA-4940

Feature

- An educational unit foracknowledgingmaintenance and troubleshooting in anautomatic transmission.
- Manufactured to observe the operation of the clutch, a planetary gear according to speed by operating high speed, low speed stop from a A/T precisely cut to an automatic, manual type control system.
- Control panel is consist of power light, the key, transmission switch, transmission fixture switch, transmission button and various control box, fuses are installed in the equipment.

Specification

- Composition : AC 220V, 1HP reduction motor, Control system, air inlet module type
- Composition of Control panel : I/O RPM sensor, display, LED by each speed, Changeover switch of R1,2,3,4, Fuse holder, Push switch, Emergency switch, Key switch etc
- Size : Approx. 900 X 800 X 1,500 mm
- Weight : Approx. 180 kg

FR Automatic Transmission Training Equipment YESA-4942

Feature

- An educational unit foracknowledgingmaintenance and troubleshooting in an automatic transmission.
- Manufactured to observe the operation of the clutch, a planetary gear according to speed by operating high speed, low speed stop from a A/T precisely cut to an automatic, manual type control system.
- Control panel is consist of power light, the key, transmission switch, transmission fixture switch, transmission button and various control box, fuses are installed in the equipment.

Specification

- Composition : AC 220V, Trans DC90–180V, 1 horse power motor control system, air inlet module
- Composition of Control panel : I/O RPM sensor, display, LED by each speed, Changeover switch of R1,2,3,4, Fuse holder, Push switch, Emergency switch, Key switch etc
- Size : Approx. 1,200 X 800 X 1,500 mm
- Weight : Approx. 250 kg

Advanced Automatic Transmission Training Equipment YESA-4931

Feature

- An educational unit foracknowledgingmaintenance and troubleshooting in anautomatic transmission.
- Able to explain operation functions and patterns in an automatic transmission.
- Able to diagnose the transmission's status and analyze the cause by the diagnosis.

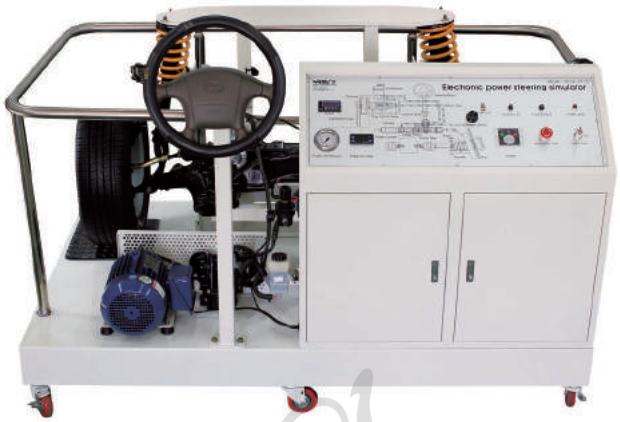
Specification

- Composition
  1) 5 Speed High-back Automatic transmissions
  2) Auto fault, Front penal 3stage angle control lever, Approach Control panel, 3stage PCB board
  3) 10 Horsepower Motor Drive, Speed Control with an inverter
  4) Driving part covered with a smog acrylic Safety Cover
  5) The Control box can control an angle adjustment
  6) Two digital meters for measuring In/Out RPM drives
  7) 6 hydraulic gauges for checking while operating

Training Contents

- Measuring the hydraulic pressure in each parts.
- Analyzing RPM between the input shaft and output shaft in a automatic transmission.
- Checking the changes when controlling the speed.
- Various fault conditions caused by the fault feature.

Power Steering System and Suspension Training Equipment YESA-4951



Feature

- An educational simulator for power steering system.
- Steering device in the Flow control type of the Power steering.
- Operating RACK & PINOIN TYPE POWER STEERING system.
- Power pump, pressure pipe, control valve, wheels are installed.

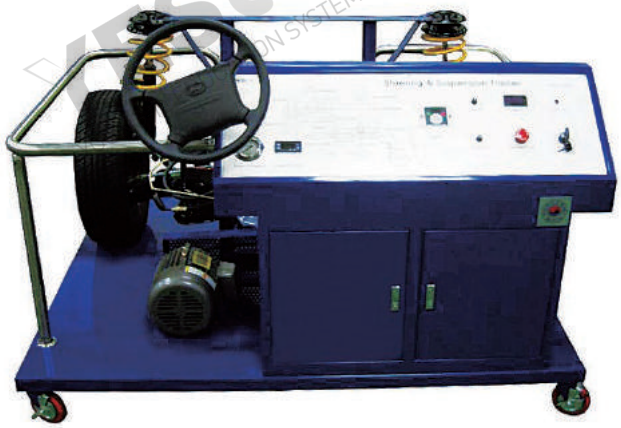
Specification

- Composition of Control panel : Temperature display device 2set, Pressure gauge, Speed control lever, YES PCB board for speed control, Inverter, Fuse holder, Emergency switch, Key switch, steering device circuit diagram
  1) AC 220/380V power motors, power pump drive
  2) Tire ground control function
  3) INPUT Pressure Gauge from Power Pump-display Oil temperature in digital
  4) KEY, TPS, inverters, clusters, diagnostic connector equipped
  5) CNC Engraving in the front panel aluminum
  6) 3HP driving motor

Training Contents

- Understanding the structure and the principles in the steering structure.
- Acknowledge the speed sensitive and the steering sensitive by controlling the speed.
- Understanding the hydraulic circuit.

Power Steering System and Suspension Training Equipment YESA-4952



Feature

- An educational simulator for hydraulicspower steering system.
- Reduced production of the hydraulic type steering used in a heavy equipment or heavy vehicle.
- When operating the power steering, the system works with link.

Specification

- Composition of Control panel : Temperature display device 2set, Pressure gauge, Speed control lever, YES PCB board for speed control, Inverter, Fuse holder, Emergency switch, Key switch, steering device circuit diagram
  1) AC 220 / 380V power motors, power pump
  2) 15 liters of hydraulic tank and hydraulic motor mounting
  3) Measuring steering angle with a tire
  4) INPUT pressure gauge mounted in the power pump
  5) Front panel aluminum CNC Engraving
  6) 3HP driving motor

Training Contents

- Understanding the structure and the principle in a steering.
- Understanding the circuit from the hydraulic pressure.

MDPS Simulator YESA-4955

Feature

- An educational simulator for power steering system.
- Manufactured by each parts to check power steering system operation with its actual size.
- Operating and examining Torque Sensor of MDPS (Motor Driven Power Steering) System.
- Available for waveform monitor and self-diagnosis by installing DLC CONNECTOR, KEY, FUSE and CHECK socket.

Specification

- Composition
  1) Single phase 220 Power Supply / DC12V drive
  2) Manufacturing microcosm of STEERING HANDLE, OPERATION MOTOR, INSTRUMENT PANEL, MDPS variable units and etcs.
  3) Mask Cylinder, Oil tank, Hydrovac, spring
  4) CNC Engraving in the front panel aluminum

Training Contents

- Understanding the structure and the principles in the steering structure.
- Acknowledge the speed sensitive and the steering sensitive by controlling the speed.

Power Steering Troubleshooting Trainer YESA-4953

Feature

- An educational simulator for hydraulicspower steering system.
- Steering device using in the heavy vehicle and the heavy equipment, Agricultural Machinery.
- When operating the power steering, the system works with link.
- Produced to adjust thehorizontality with two power cylinders.

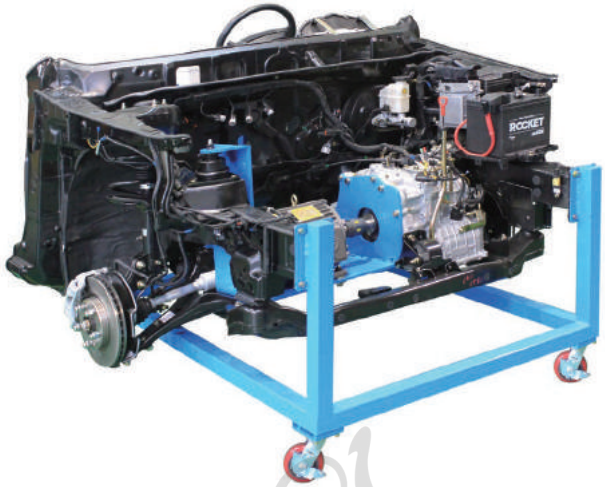
Specification

- Composition
  1) AC 220/380V power motors, power pump drive
  2) 15 liter hydraulic tank installed
  3) Tire ground function
  4) INPUT Pressure Gauge from Power Pump
  5) Key, emergency switch, handle
  6) CNC Engraving in the front panel aluminum
  7) Stand aluminum profile

Training Contents

- Understanding the structure and the principles of the steering structure.
- Understanding thehydraulic circuit.

Electronic Control Chassis Simulator YESA-4932



Feature

- Educational module for speed change process and other electrical system by utilizing the motor except for automotive engine.
- Available to understand and educate the visual and fundamental signal with confirmation of automotive speed value on ECU.
- Able to check the value of Interior ABS, Engine (speed, pressure gauge), EPS (lighting) automotive sensor on ECU by eliminating the entire seats in the back side of half of the vehicle.

Specification

- Composition
  1) Remove all the seats behind half of actual automobile
     – Vehicular underbody frame, control frame
     – Avante HD actual automobile 1/2
     – Control box (material : steel)
     – Motor three phases 380V 2.2Kw 6p 1200 RPM
     – Inverter three phases 380V 3HP

Training Contents

- Education of process in changing speed.
- Check Oil pressure of transmission when changing speed.
- Measure ABS sensor at the moment of gear drive.
- Measure MPDS.
- Various simulators depended upon motor speed.

Chassis Simulator — YESA-4956

Feature

- Chassis simulator should be able to assemble/disassemble the front car body of automobile, lighting and suspension device, brake controlling device through handling. Students should be able to conduct this simulator on their own.
- Able to identify mechanical movement principles and assemble/disassemble the vehicles.
- Available to identify the movement structure at a single view.

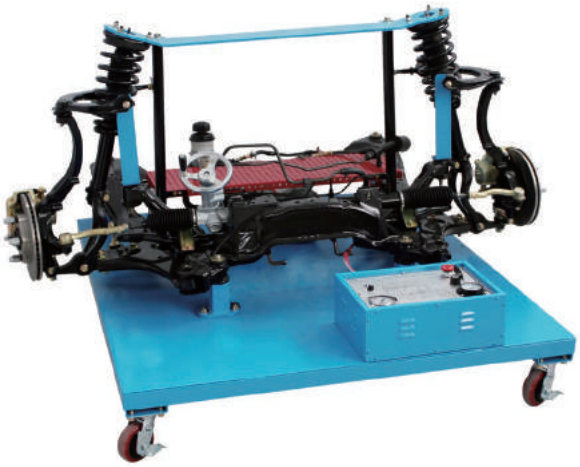
Specification

- Car model : small/medium sized car
- Composition : Cross Member ASSY, Steering column &shaft, steering box, left/right-sided shock absorber (damper).
- Brake System : Installation of Caliper, Master cylinder, Booster Assembly, left/right-sided shaft, pedal, the entire system frame, disk brake method, hydraulic pipe
- Lighting device : Manufactured to understand the structure of lighting device parts through handling (steering column and shaft, steering gear box, tie rod, etc)
- Assembling/Disassembling is available

Training Contents

- Lighting device : steering column and shaft, Steering gear box, tie rod structure.
- Available to assemble/ disassemble the suspension device, lighting device, and break controlling device of front-wheel-drive cross member frame.
- Educate the structure of damper and shaft to understand the structure of damper in actual automobile with front-wheel-drive car.
- Educate of fender part of shock absorber.

Suspension System Training Equipment — YESA-4953M



Feature

- An educational unit of front-wheel suspension system structure of automobile.
- Educate the power steering drive system by using the motor.
- Wheels and the steering is installed in a Mac Pherson-type structure.

Specification

- Composition
  1) A front wheel Mac Pherson-type suspension structure
  2) Single phase 220V motor, Hydraulic gauge, Emergency switch, Key switch

Training Contents

- Able to understand the structure of Mac Pherson-type structure.
- Understand and educate power steering device.

Suspension System Training Simulator — YESA-4954

Feature

- An educational unit of suspension structure.
- 360 degrees reverse stand.
- Wheels and the steering is installed in a MacPherson-type structure.

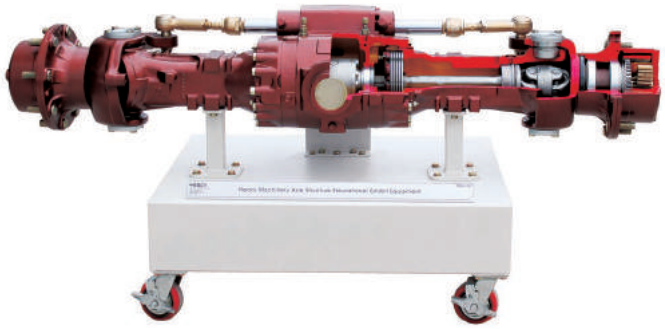
Specification

- Composition
  1) FF in a Mac Pherson-type structure
  2) 360 reverse stand mounted
  3) 60~100 : 1 reducer installed
  4) Manual rotation type

Training Contents

- Understanding the structure of the MacPherson-type.

Heavy-Duty Vehicles Differential Gear Model — YESA-5200



Feature

- An educational unit for understanding the components of a heavy equipment differential gear and training.
- Is the best model to see operation state and location of differential gear components by making parts which aren't seen at an actual one open.
- Effective to educate the troubleshooting and inspection theory, training.
- Each component is colored differently for educational effect.
- It allows to see planetary gear directly on the wheel.

Specification

- Composition : Large Heavy machinery differential gear
- Stand : Steel frame with 5" lockable wheels
- Size : approx. 2,000 X 800 X 500 mm
- Weight : approx. 150 kg

Excavator Hydraulic System Fault Diagnosis Training Simulator YESA-5104

Feature

- An educational unit for understanding the components of the Excavator hydraulic system and training.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Effective to educate the troubleshooting and inspection theory/training.

Specification

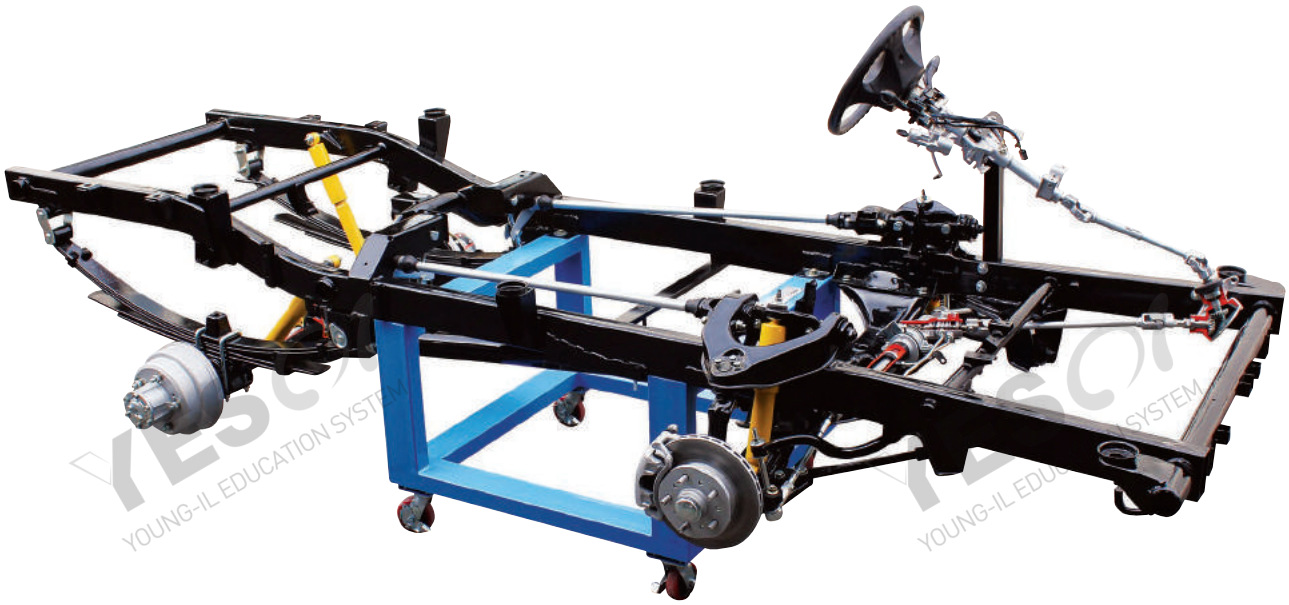
- Composition : Battery, operating lever, light system, horn, hydraulic lever, instrument panel, starter motor, battery connector, relay, digital meters, etc
- Kubota U17 mini excavator hydraulics
- Three-phase 380V 7.5 horsepower motor
- Hydraulic tank 20 liters
- 5" 4 wheels on the frame
- Hydraulic cylinder mounted – Fix to the bottom by hydraulic cylinder during operation
- Size : approx. 2,700 X 1,300 X 2,000 mm
- Weight : approx. 450 kg

Training Contents

- Operating an excavator.
- Hydraulic line inspection/check.

Vehicle Frame Structure Training Equipment

YESA-5262



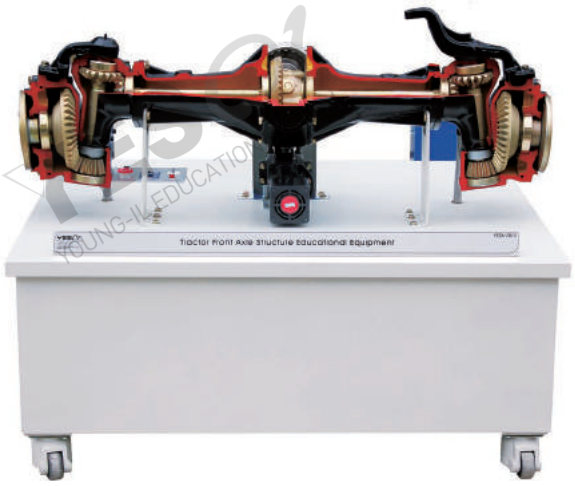
Feature

- Understand the structure by checking vehicle frame directly.
- Understand differential gear, brake, suspension of rear-wheel drive vehicle frame.
- Inspection of steering system and worm gear.
- Disc brake suspension and Rear Wheel Type.

Specification

- Composition : 1 set of rear wheel vehicle frame, steering, rack and pinion, disc brake, differential gear, leaf spring, etc
- Size : Approx. 3,000 X 2,300 X 1,500 mm
- Weight : Approx. 250 kg

Tractor Differential Gear Model YESA-5201



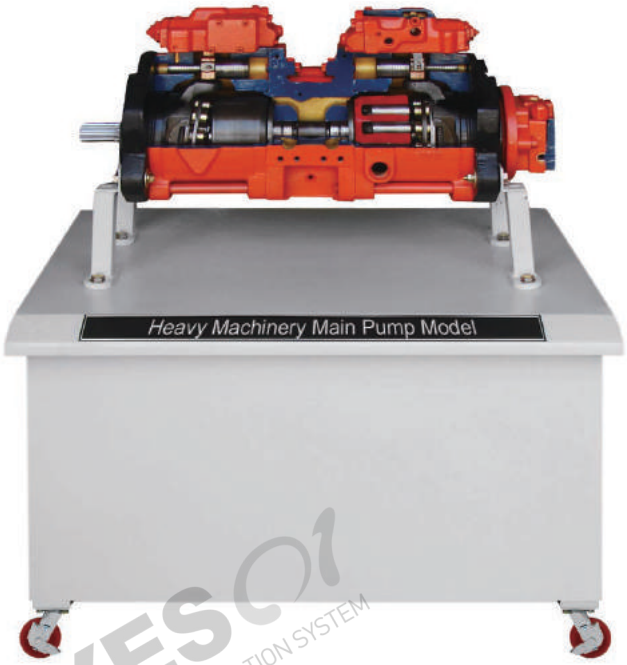
Feature

- An educational unit for understanding the structureof tractor shafts.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Studying the differentials → Axle → reduction gears → wheel operation principles by observing.
- Effective to educate the troubleshooting and inspection theory, training.
- Each component is colored differently for educational effect.

Specification

- Composition : Tractor shafts, Power switch, power lamp, emergency switch, fuse holder and speed control
- Stand : Steel frame with 5" lockable wheels
- Motor: Single phase 220V 180W reduction gear mounted
- Size : approx. 1,500 X 800 X 800 mm
- Weight: approx. 150 kg

Heavy Machinery Main Pump Model YESA-5260



Feature

- Understand structure by cutaway hydraulic main pump.
- Understand driving principle and hydraulic transfer system of main pump.
- High educational effects by painting each part in different colors.

Specification

- Composition : Main pump of heavy machinery (excavators, wheel loaders, etc.)
- Stand : Made from heat-treated powder coated steel
- Size : Approx. 1,200 X 900 X 1,600 mm
- Weight : Approx. 200 kg

Engine Stand with 360°Degree YESA-2950

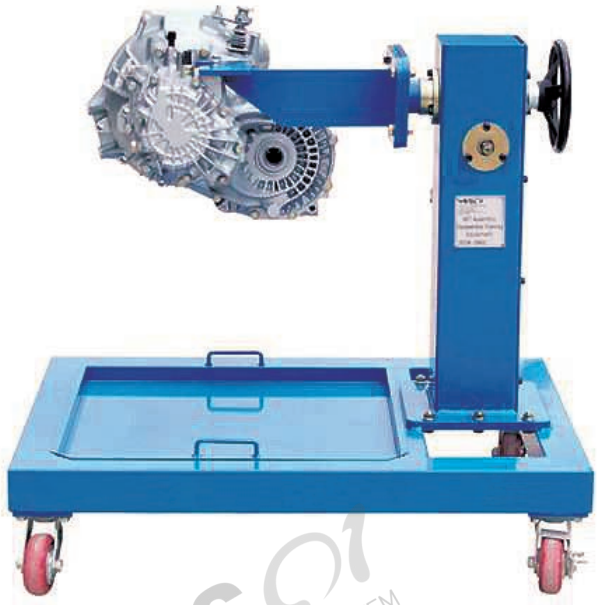
Feature

- Engine stand for assembly and disassembly of engine or transmission.
- 360 degree rotation for effective education.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Size : Approx. 900 X 700 X 900 mm
- Weight : Approx. 150 kg
- Stand with 100 : 1 deceleration rate, Maximum load 500 Kg

Transmission with Stand YESA-2951



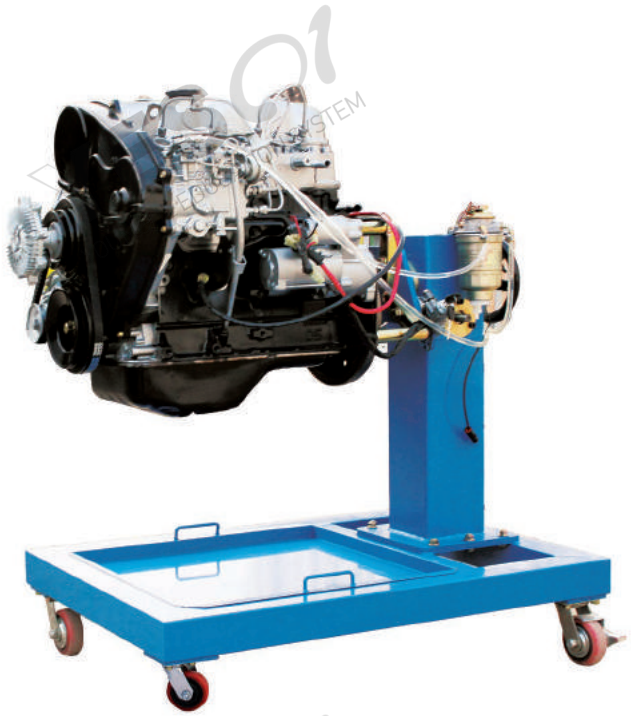
Feature

- Education Unit for the Transmission (Manual Type) assembly/ disassembly.
- 360–degree rotating stand used so that practices of assembly and disassembly can be done in convenience.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Transmission (Manual Type)
- Stand with 100 : 1 deceleration rate, Maximum load 500 Kg
- Size : Approx. 900 X 700 X 900 mm
- Weight : Approx. 150 kg

Diesel Engine Assembly and Disassembly YESA-3233



Feature

- Solitary Startup Type of Diesel Engine Assembly and Disassembly Equipment that allows theoretical training and experiments.
- Rapid and systematic training with 360–degree rotating stand.
- Detachable bottom board for oil.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel engine assembly, Solitary Startup Type
  2) Stand : deceleration rate 100 : 1 (360–degree rotation)
  3) Maximum Weight : 500 kg
- Size : Approx. 1,300 X 1,000 X 1,000 mm
- Weight : Approx. 180 kg

Training Contents

- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of and all kinds of belts and pumps.
- Inspection of the rest of parts.
- Diesel engine assembly and disassembly.

Diesel Engine Educational System_ Porter, BB Engine YESA-3240

Feature

- Educational unit of Diesel Engine for assembly and disassembly.
- Rapid and systematic training with 360–degree rotating stand.
- Detachable bottom board for oil.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

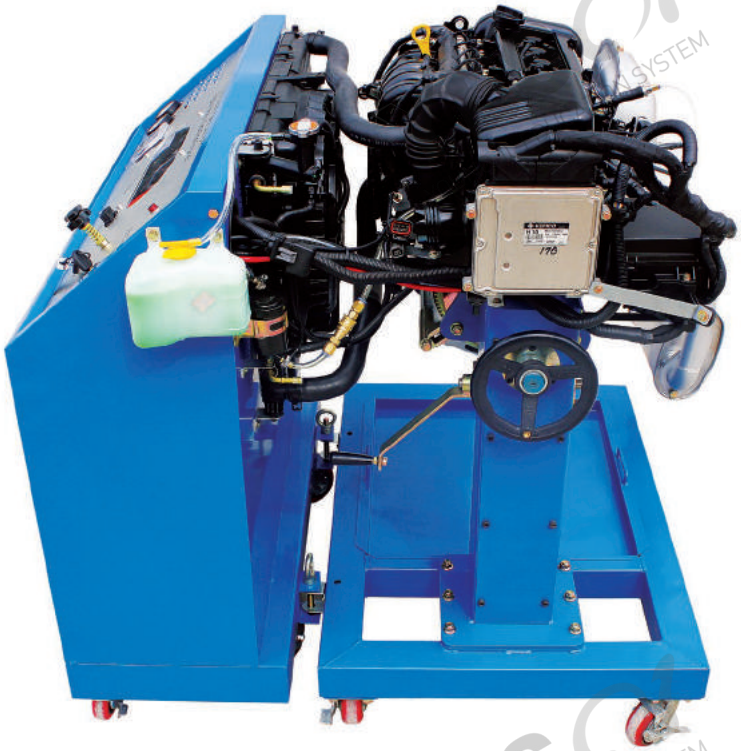
Specification

- Composition
  1) Diesel Engine assembly
     Porter, BB Engine(assembly, rotary type injection pump)
  2) Stand : Deceleration : 100 : 1 (360 degree rotation)
  3) Maximum Weight : 500 kg
- Size : Approx. 900 X 700 X 900 mm
- Weight : Approx. 180kg

Training Contents

- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of and all kinds of belts and pumps.
- Diesel engine assembly and disassembly.

Gasoline Engine Assembly and Disassembly Equipment YESA-3140



Feature

- Gasoline Engine Assembly and Disassembly Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model of starting gasoline engines and able to assemble and disassemble.
- 360–degree rotating stand for assembly and disassembly practice convenience.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, 1,600cc, Solitary Startup Type
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc.
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc.
  5) Exhaust System such as, Catalytic Converter, Emission, Silencer
  6) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
  7) Fuel pressure gauge ∗1 (1Mpa)
  8) Battery voltage gauge ∗1 (30V)
  9) Cabinet type storage space with 2 door
  10) Separate Engine/Control Stand
  11) Gasoline Engine
  12) Removable Oil Reservoir Base
  13) Stand: Reducer, 100 :1 (360˚reverse)
  14) Maximum load: 500 kg
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self–diagnosis.
- Various practices by Electric–controlled gasoline engine tune–up.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of all kinds of belts and pumps.
- Inspection of the rest of parts.

Gasoline Engine Assembly and Disassembly Equipment YESA-3150

Feature

- Gasoline Engine Assembly and Disassembly Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model of starting gasoline engines and able to assemble and disassemble.
- 360–degree rotating stand for assembly and disassembly practice convenience.

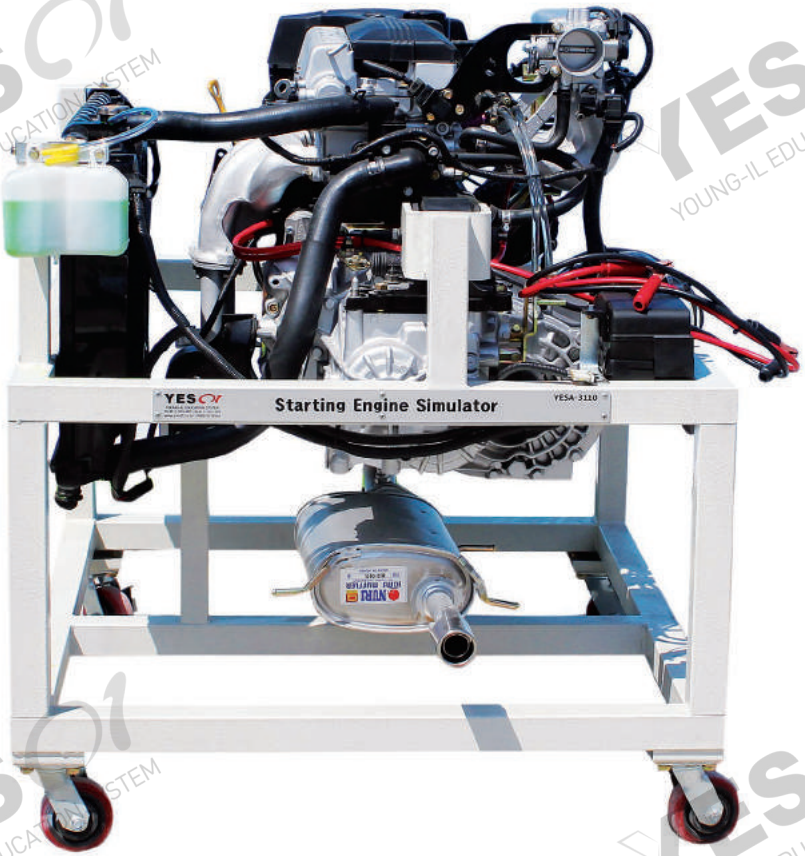
Specification

- Composition
  1) Gasoline Engine Assembly, 2,000cc Turbo, Solitary Startup Type
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2 Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) 360˚rotational stand
  10) Cabinet type storage space with 2 door
  11) Separate Engine, Control stand
- Size : Approx. 1,200 X 1,200 X 1,300 mm
- Weight : Approx. 350 kg

Training Contents

- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of all kinds of belts and pumps.
- Inspection of the rest of parts.

Gasoline Engine Assembly and Disassembly Equipment YESA-3155



Feature

- Gasoline Engine Assembly and Disassembly Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model of starting gasoline engines and able to assemble and disassemble.

Specification

- Composition
  1) Gasoline Engine Assembly, 2,000cc, Solitary Startup Type
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2 Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels, 360°rotational stand
  8) Control box, fuel tank (removable), accelerator lever
- Size : Approx. 1,200 X 1,200 X 1,300 mm
- Weight : Approx. 350 kg

Training Contents

- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of all kinds of belts and pumps.
- Inspection of the rest of parts.

Gasoline Engine Assembly and Disassembly Equipment YESA-3160

Feature

- Gasoline Engine Assembly and Disassembly Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows variety of theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model of starting gasoline engines and able to assemble and disassemble.
- 360–degree rotating stand for assembly and disassembly practice convenience.
- Incised sections are painted with different colors for education efficiency.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, 1,500cc
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2 Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Exhaust System such as Catalytic Converter, Emission, Silencer
  6) Fuel Tank (Removable)
  7) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
     – Stand
     – Gasoline Engine
     – Oil Reservoir Removable Base
     – Stand : Reducer, 100 : 1(360˚ rotation)
     – Maximum load : 500 kg
  8) Solitary Startup Type
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 200 kg

Training Contents

- Various practices by self–diagnosis.
- Various practices by Electric–controlled gasoline engine tune–up.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.

Gasoline Engine Assembly and Disassembly Equipment YESA-3161

Feature

- Gasoline Engine Assembly and Disassembly Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model of starting gasoline engines and able to assemble and disassemble.
- 360–degree rotating stand for assembly and disassembly practice convenience.
- Incised sections are painted with different colors for education efficiency.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, 1,500cc
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2 Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Exhaust System such as Catalytic Converter, Emission, Silencer
  6) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 200 kg

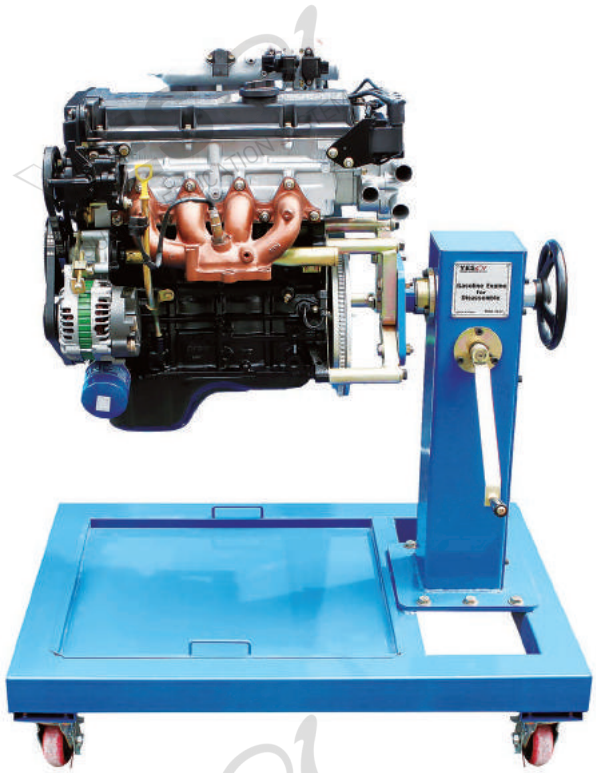
  – Stand
  – Gasoline Engine
  – Oil Reservoir Removable Base
  – Stand: Reducer, 100 : 1(360˚rotation)
  – Maximum load : 500 kg

  7) Solitary Startup Type

Training Contents

- Various practices by self–diagnosis.
- Various practices by Electric–controlled gasoline engine tune–up.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of all kinds of belts and pumps.
- Inspection of the rest of parts.
- Demonstration of starting engine after assembly, disassembly.

Gasoline Engine Assembly and Disassembly Equipment YESA-3170



Feature

- Educational unit of Gasoline Engine for assembly and disassembly, 1,500cc.
- Incised sections are painted with different colors for education efficiency.
- Rapid and systematic training with 360–degree rotating stand.
- Detachable bottom board for oil.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Gasoline Engine, Stand : Deceleration : 60 : 1 (360 degree rotation), Maximum Weight : 500 kg
- Size : Approx. 1,300 X 1,000 X 1,000 mm
- Weight : Approx. 160 kg

Gasoline Engine Assembly and Disassembly Equipment YESA-3171

Feature

- Educational unit of Gasoline Engine for assembly and disassembly that allows variety of theoretical training and experiments.
- Incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Size : Approx. 700 X 500 X 700 mm
- Weight : Approx. 80 kg

Training Contents

- Engine assembly and disassembly.

Diesel Engine with FR Transmission Assembly and Disassembly YESA-3220

Feature

- Diesel Engine Simulator Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model for starting Diesel Engine which is able to assemble and disassemble.
- 4 wheel stand for convenient moving.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

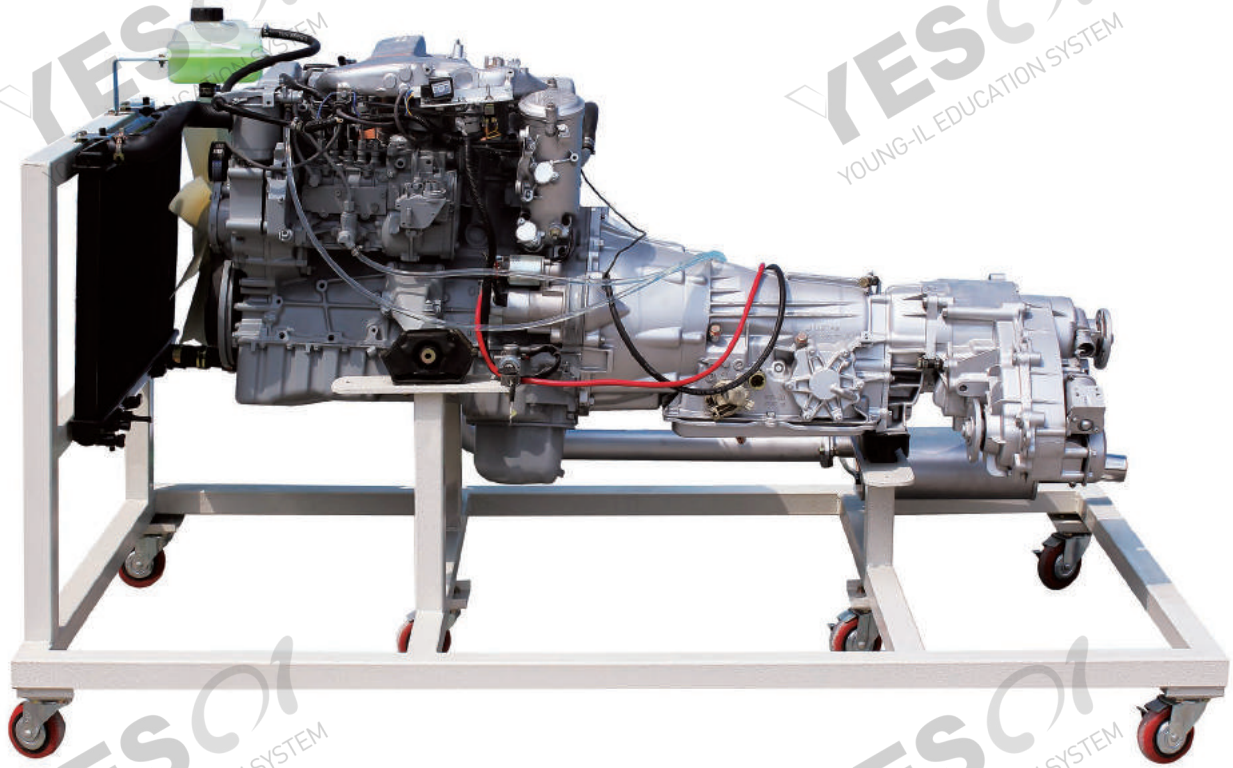
Specification

- Composition
  1) Diesel Engine Assembly with Rotary type Injection Pump, Porter Vehicle, Solitary Startup Type
  2) Fuel Filter, Fuel Tank, Fuel Pump, Fuel Devices, DC 12V Battery and Generator
  3) Exhaust System such as, Catalytic Converter, Emission, Silencer
  4) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  5) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  6) Radiator-only stand and laser processed protection panel
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 250 kg

Training Contents

- Measurement of exhaust. Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of all kinds of belts, pumps and cooling system.
- Inspection of the rest of parts.
- Diesel engine assembly and disassembly.

Diesel Engine FR Transmission Assembly and Disassembly YESA-3221



Feature

- Diesel Engine Assembly and Disassembly Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model for starting Diesel Engine which is able to assemble and disassemble.
- 4 wheel stand for convenient moving.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel Engine Assembly with Rotary type Injection Pump, Porter Vehicle, Solitary Startup Type
  2) Fuel filter, fuel tank, fuel pump, fuel devices, DC 12V battery and generator
  3) Exhaust System such as, Catalytic Converter, Emission, Silencer
  4) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  5) Radiator-only stand and laser processed protection panel
- Size : Approx. 2,400 X 1,200 X 1,200 mm
- Weight : Approx. 280 kg

Training Contents

- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of all kinds of belts, pumps and cooling system.
- Inspection of the rest of parts.
- Diesel engine assembly and disassembly.
- Transmission assembly and disassembly.

Diesel Engine Assembly and Disassembly Equipmemt YESA-3230

Feature

- Diesel Engine Assembly and Disassembly Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model for starting Diesel Engine which is able to assemble and disassemble.
- Rapid and systematic training with 360–degree rotating stand.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel Engine Assembly with Turbo Charger, Solitary Startup Type
  2) Fuel filter, fuel tank, fuel pump, fuel devices, DC 12V battery and generator
  3) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
  4) Vacuum pressure gauge ∗1 (0.1Mpa)
  5) Battery voltage gauge ∗1 (30V) 360˚ rotational stand with 100:1 deceleration ratio
  6) Maximum load 500 Kg
  7) Cabinet type storage space
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self–diagnosis
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of cooling system and all kinds of belts and pumps.
- Inspection of the rest of parts.
- Diesel engine assembly and disassembly.

Diesel Engine Assembly and Disassembly Equipmemt YESA-3231

Feature

- Diesel Engine Assembly and Disassembly Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Ideal model for starting Diesel Engine which is able to assemble and disassemble.
- Rapid and systematic training with 360–degree rotating stand.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel engine assembly with turbo charger and inter cooler type
  2) Fuel filter, fuel tank, fuel pump, fuel devices, DC 12V battery and generator
  3) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
  4) Radiator–only stand and laser processing protection panel
  5) Vacuum pressure gauge ∗1 (0.1 Mpa)
  6) Battery voltage measurement gauge ∗1(30V), 360℃ rotational stand with 100:1 deceleration ratio
  7) Cabinet type storage space with 2 door
- Size : Approx. 1,300 X 1,000 X 1,000 mm
- Weight : Approx. 180 kg

Training Contents

- Various practices by self–diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of cooling system and all kinds of belts and pumps.
- Inspection of the rest of parts.
- Diesel engine assembly and disassembly.

CRDI Engine Assembly and Disassembly Training Equipmemt YESA-3341

Feature

- Diesel engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.

Specification

- Composition
  1) Diesel engine assembly, Solitary Startup Type, Turbo Intercooler
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2 Sensor, WTS, Control Relay etc.
  3) Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  5) Exhaust System such as Catalytic Converter, Emission, Silencer
  6) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  7) Accelerator lever, 360° rotational stand
  8) Separate Engine/Control stand
  9) Cabinet type storage space with 2 door
  10) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Assembly and Disassembly Training Equipmemt YESA-3340

Feature

- Diesel engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Ideal model of starting diesel engines and able to assemble and disassemble.
- 360–degree rotating stand for assembly and disassembly practice convenience.
- Exhaust muffler is specially designed with heat–resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel engine assembly 2,000cc, Solitary Startup Type
  2) All Startup–related electric devices
  3) Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  5) Exhaust System such as, Catalytic Converter, Emission, Silencer
  6) Start Switch (Key S/W) Anti–vibration dampers and a urethane wheels
  7) Accelerator lever
  8) Separate Engine/Control stand
  9) Cabinet type storage space with 2 door
  10) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self–diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

ALPEON Hybrid Engine Fault Diagnosis Simulator YESA-3511

Feature

- Hybrid (gasoline+electric) engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Test with diagnosis devices.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  - 1) Engine and A/T auto transmission Specification
  - 2) 2,000cc, Gasoline & Hybrid motor, ALPEON Hybrid Engine
  - 3) Engine Style : Nu 2.0 gasoline
  - 4) Transmission : 6-speed auto transmission
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 650 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices related Hybrid System and Engine tune-up.
- Operation, measurement and inspection of auto transmission.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Hybrid System Assembly and Disassembly Training Equipment YESA-3520

Feature

- Hybrid assembly and disassembly type of equipment that consist of gasoline engine, hybrid motor transmission, high-voltage battery and MCU module so that allows theoretical training and experiments.
- 360-degree rotating stand for assembly and disassembly practice convenience.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Engine : Nu 2,000cc gasoline engine, YF SONATA Hybrid
  2) Transmission : 6-speed auto transmission
  3) High voltage battery : 30 KW/205 Nm AC synchronous motor, 270V Lithium-ion polymer battery
  4) Stand : Deceleration rate 100 : 1 (360 degree rotation)
  5) Maximum Load : 500 kg

Training Contents

- Understanding of Hybrid system.
- Assembly, Disassembly of Hybrid engine.
- Assembly, Disassembly of High voltage battery.
- Assembly, Disassembly of Hybrid auto transmission.

Hybrid Engine Assembly and Disassembly Training Equipment YESA-3521

Feature

- Assembly and disassembly type of equipment that attached Hybrid gasoline engine on stand so that allows theoretical training and experiments.
- 360-degree rotating stand for assembly and disassembly practice convenience.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Engine : Nu 2,000cc gasoline engine, YF SONATA Hybrid
  2) Stand : Deceleration rate 100 : 1 (360 degree rotation)
  3) Maximum Load : 500 kg
- Size : Approx. 700 X 700 X 1,000 mm
- Weight : Approx. 120 kg

Training Contents

- Understanding of Hybrid system.
- Assembly, Disassembly of Hybrid engine.

Hybrid Automatic Transmission Assembly and Disassembly Equipmemt YESA-3522

Feature

- Assembly and disassembly type of equipment that attached Hybrid motor transmission on stand so that allows theoretical training and experiments.
- 360–degree rotating stand for assembly and disassembly practice convenience.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Transmission : 6–speed auto transmission
  2) Stand : Deceleration rate : 6 : 1 (360 degree rotation)
  3) Maximum Load : 500 kg
- Size : Approx. 700 X 700 X 1,000 mm
- Weight : Approx. 120 kg

Training Contents

- Understanding of Hybrid system.
- Assembly, Disassembly of Hybrid engine.

Hybrid Battery Assembly and Disassembly Equipmemt YESA-3523

Feature

- Assembly and disassembly type of equipment that attached Hybrid high voltage battery on stand so that allows theoretical training and experiments.
- 4 wheel stand for convenient movement.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) High voltage battery : 30 KW/205 Nm AC synchronous motor, 270V Lithium–ion polymer battery

Training Contents

- Understanding of Hybrid battery system.
- Assembly, Disassembly of Hybrid battery system..

Brake Structure Assembly / Disassembly Training Equipment YESA-4926

Feature

- This equipment is effective to understand and educate Hydraulicsbrake systemand for maintenance, inspection training.
- Able to use as a assembly/disassembly.
- Parts are incised to observe the internal components and colored differently for educational effect.
- Able to make a assembly/disassembly practice of different brake types.

Specification

- Composition : disc brakes, drum brakes, Master bag, master cylinders, brake pedal,Side lever, brake fluid, 4wheel Stand
- Size : Approx. 1,200 X 1,000 X 1,200 mm
- Weight : Approx. 200 kg

Training Contents

- Assembly/disassembly the disc brake.
- Assembly/disassembly the drum brake.
- Replacing pad, lining.
- Removing the air.

Disc Type Brake Assembly / Disassembly Training Equipment YESA-4929

Feature

- Assembly/disassembly the disc brake.
- Available for the operation principles and structure in disc brake.
- Effective to describe each part in disc brake system and educating the functions, power connection.

Specification

- Composition : Disc Brakes 4ea, Caliper 4ea, 4wheel Stand
- Size : Approx. 1,200 X 900 X 1,600 mm.
- Weight : Approx. 200 kg.

Drum Type Brake Assembly / Disassembly Training Equipment YESA-4930

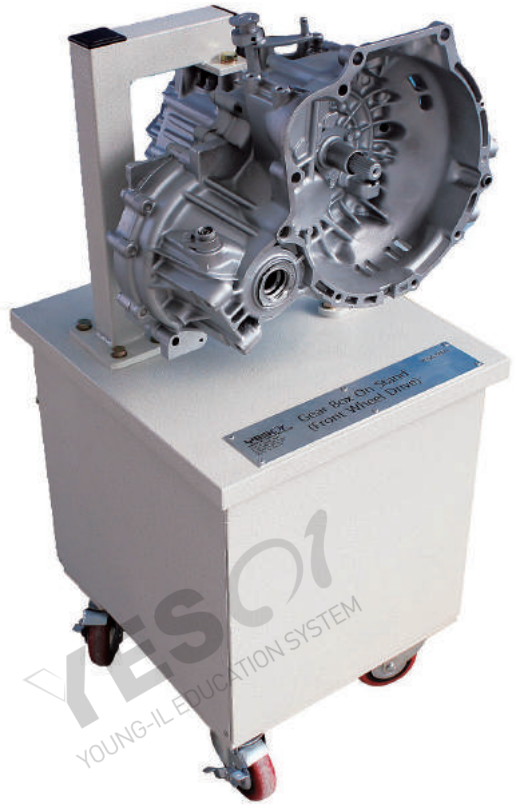
Feature

- Assembly/disassembly the drum brake.
- Available for the operation principles and structure in drum brake.
- Effective to describe each part in disc brake system and educating the functions, power connection.

Specification

- Composition : Disc Brakes 4ea, 4wheel Stand
- Size : Approx. 1,200 X 900 X 1,600 mm
- Weight : Approx. 200 kg

FF Type Manual Transmission Assembly / Disassembly YESA-4945



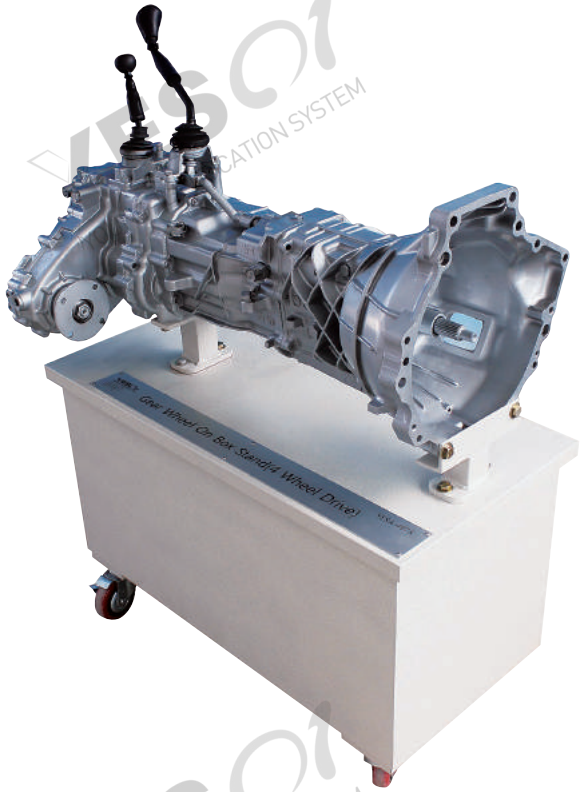
Feature

- An educational unit for assembly/disassembly by attaching an FF manual type transmission to study various principles and train.

Specification

- Composition : FF 5 speed, FR 1 speed, manual type transmission, stand
- Size : Approx. 800 X 400 X 1,000 mm
- Weight : Approx. 130 kg

FR 4WD Type Manual Transmission Assembly / Disassembly YESA-4946



Feature

- An educational unit forassembly/disassembly by attaching an FR 4WD manual type of transmission to study various principles and train.

Specification

- Composition : FR 4W manual transmission, stand
- Size : Approx. 800 X 400 X 1,000 mm
- Weight : Approx. 130 kg

Cultivator Engine Start and Disassembly & Assembly YESA-5261

Feature

- The startup of diesel engine can be operated manually or automatically.
- The air cleaner, fuel filter replacement practice of diesel engine.
- Diagnose the cooling water of diesel engine.
- Engine disassembly & assembly.

Specification

- Composition : 1 set of Daedong 10 HP single-cylinder diesel engine
- Fix the engine by steel stand
- Size : Approx. 900 X 800 X 1,500 mm
- Weight : Approx. 180 kg

Feature

- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see internal movement, operation, condition and component's location by cutaway structure.
- It is able to be applied with various theory educations and practices.
- Check terminal allows various tests with scanner.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : 2,500cc, 4 Cylinder an actual vehicle with gasoline engine
- 20 Auto Fault available
- Size : Approx. 5,000 X 1,850 X 1,500 mm
- Weight : Approx. 1,500 kg
- Waveform terminals : – Cooling control system, – Headlight System, – VDC System, – Steering, – tilt and telescopic, – Power Door Locks, – IMS (Integrated Memory System), – Engine Control, – Automatic Transmission Control, – Power Window, – Power outside mirror folding, – passenger side power seat
- Option
  1) It is able to check and control vehicle status by connecting vehicle and kiosk
     – Kiosk specification, – CPU : Dual core class, – RAM : Over 2G, – HDD : Over 160G, – POWER : Over 450W grade, – Monitor : Over 15", – OS : Windows XP (can be changed)

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement and inspection of voltage and current of various circuits such as charging circuit and Starting Circuit.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust. Measurement and inspection of compression pressure of cylinder.r
- Operation test of Fuel pump. Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of suction and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of all kinds of belts and pumps.
- Inspection of the rest of parts.

Automotive Fault Diagnosis Training Equipment YESA-3001

Feature

- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see internal movement, operation, condition and component's location by cutaway structure.
- It is able to be applied with various theory educations and practices.
- Check terminal allows various tests with scanner.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : 2,500cc, 4 Cylinder, an actual vehicle with gasoline engine
- 20 Auto Fault available
- wheel Dynamometer
- Waveform terminals : – Cooling control system, – Headlight System, – VDC System, – Steering, tilt and telescopic, – Power Door Locks, – IMS (Integrated Memory System), – Engine Control, – Automatic Transmission Control, – Power Window, – Power outside mirror folding, – passenger side power seat
- Option
  1) By connection between the vehicle and kiosk, it's available to check and control vehicle status
     – Kiosk specification, – CPU : Dual core grade, – RAM : Over 2G, – HDD : Over 160G, – POWER : Over 450W grade, – Monitor : Over 15", – OS : Windows XP (can be changed), – Movable stand, master wheels and wheel covers are attached
- Size : Approx. 5,000 X 1,850 X 1,500 mm
- Weight : Approx. 1,500 kg

Training Contents

- Various practices by self–diagnosis.
- Various practices by Electric–controlled gasoline engine tune–up.
- Measurement and inspection of voltage and current of various circuits such as charging circuit and Starting Circuit.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of suction and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of all kinds of belts and pumps.

Feature

- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see internal movement, operation, condition and component's location by cutaway structure.
- It is able to be applied with various theory educations and practices.
- Forced driving and test of actuator is available with diagnosis device.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) V6, 6 Cylinder Real vehicle of gasoline engine
  2) Check terminal box for Force-blocking of injector and ignition
- Size : Approx. 5,100 X 1,900 X 1,500 mm
- Weight : Approx. 1,500 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement and inspection of voltage and current of various circuits such as charging circuit and Starting Circuit.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of A.B.S (Anti-lock Braking System).
- Inspection of E.C.S (electronic controlled suspension).

Feature

- As a vehicle top plate cutaway type equipment, electrical wires are visualized for easy understanding.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see internal movement, operation, condition and component's location by cutaway structure.
- It is able to be applied with various theory educations and practices.
- Forced driving and test of actuator is available with diagnosis device.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

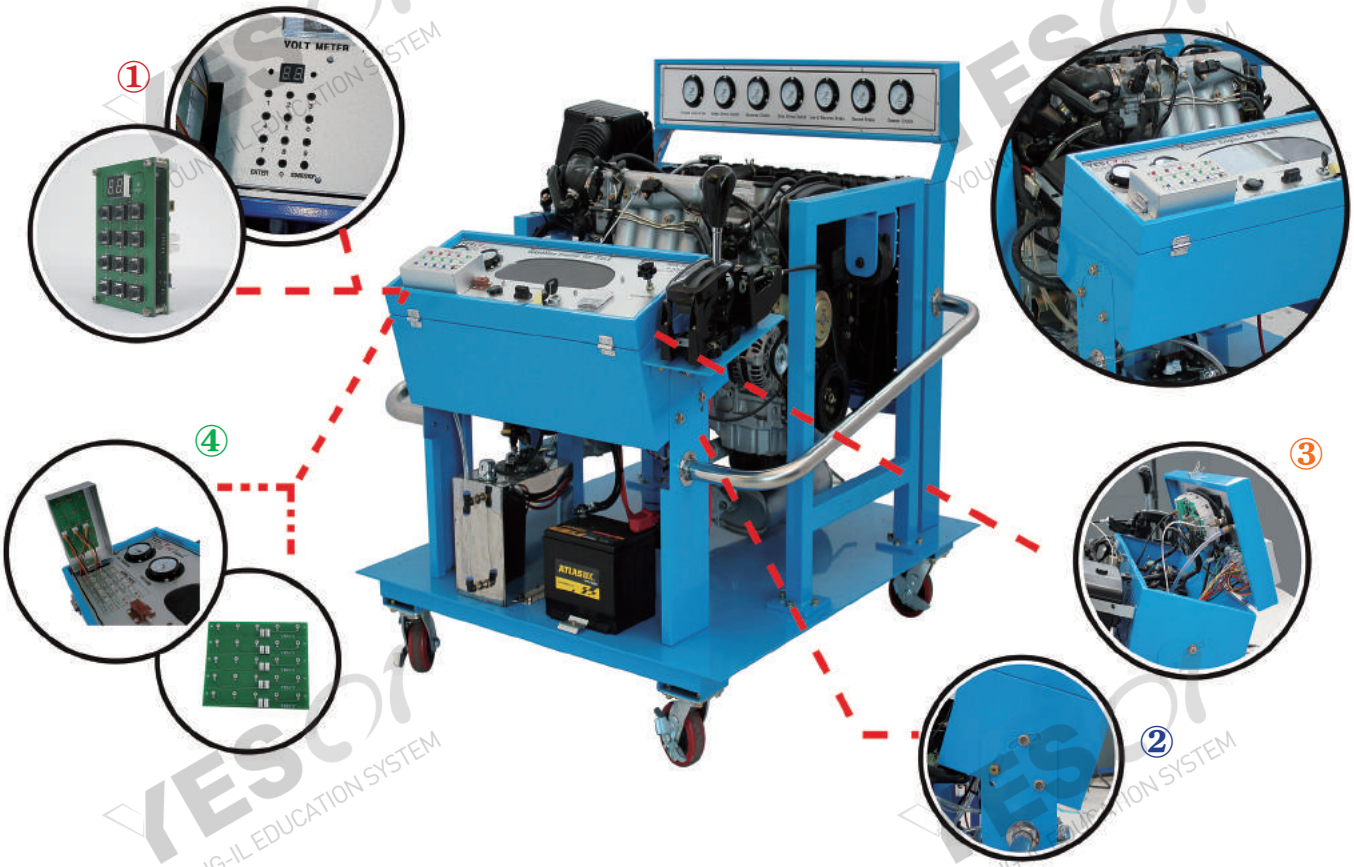
Specification

- Composition
  1) V6,6 Cylinder, Real vehicle of gasoline engine
- Size : Approx. 5,100 X 1,900 X 1,500 mm
- Weight : Approx. 1,500 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement and inspection of voltage and current of various circuits such as charging circuit and Starting Circuit.
- Connector checking terminal for inspection of sensors and actuator.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of suction and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of A.B.S (Anti-lock Braking System).
- Inspection of E.C.S (electronic controlled suspension).
- Inspection of the rest of parts.

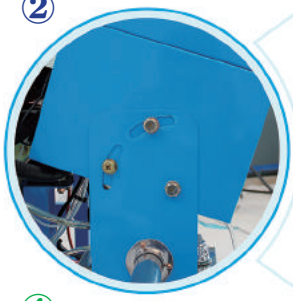
Benefits for All Automotive Engine Fault Diagnosis SImulator



①

* Display and training Fault function are included to evaluate student
* It is able to training for student level with 20 kinds of different fault at the same time insertion
* Easy to control fault insertion with push button switch
* Option
(Touch screen monitor: It is able to control the simulator by touch screen)

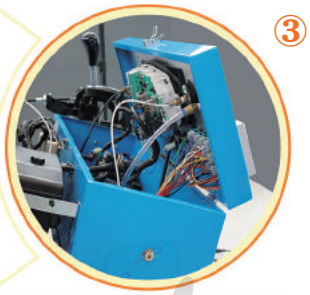
②



The simulator is manufactured for effective training with ergonomic design and also the control panel is able to adjust degree 3 stages

The control panel is able to open for inside circuit structure training, and 2 lock-up system are attached on back side for teacher's training purpose

③

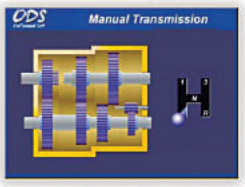


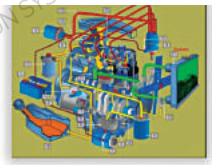
④

3 stages PCB board is consist of keyboard, relay board, slave board, there for strong from heat and has good durability
* PCB board is able to check inserted fault no. and quantity of inserted fault
* PCB board is able to connect PC with USB or RS232
* PCB board is combined for connecting between data of vehicle engine sensor and control device
* Connection between control panel device and engine sensor
* Using program of C# language to User convenience

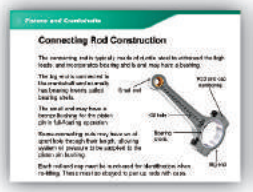
Supplied Animation and Teaching power point list

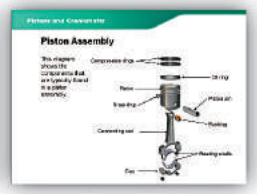
1. Engine system
2. Fuel system
3. Chassis system
4. Transmission system
5. Brake system
6. Suspension and Steering system
7. Heating and Air conditioning system
8. Electrical and Electronic system
9. Other accessories





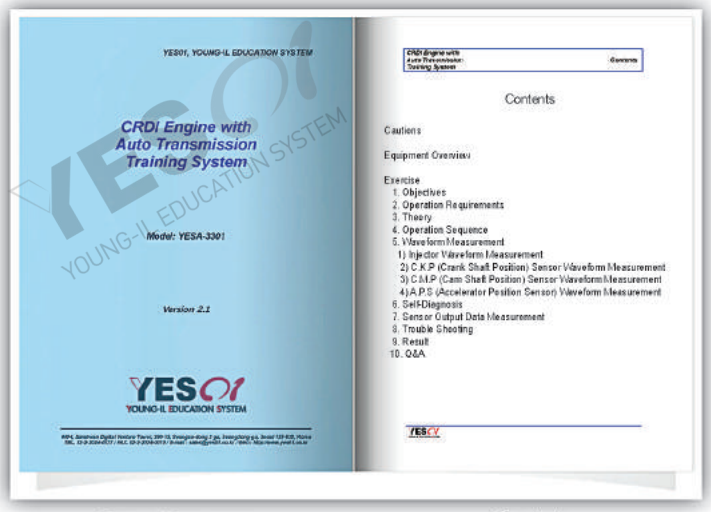
Animation





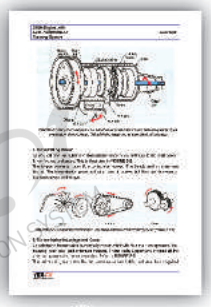
Power Point

Experimental Manual



Manual Front page　　Contents

Exercise



Theory

Result

Result

Training Video

Supplied Training Video List	
YESA-1102T	Engine and Transmission Structure Educational Equipment
YESA-1110	4WD Gasoline Automotive Power Train System Structure Equipment
YESA-1116	FF Power System Training with Transmission
YESA-1291	2-Stroke Gasoline Engine
YESA-1304	CRDI Engine Structure Unit Equipment
YESA-1500	Automotive Hybrid System Training Equipment
YESA-1503	Hybrid Automotive Structure Equipment
YESA-3100	Gasoline Engine with Auto Transmission Training System
YESA-3104	Gasoline Engine Simulator (Hyundai Elantra)
YESA-3119	Gasoline Engine Simulator
YESA-3130	GDI Engine & DCT Simulator
YESA-3134	Gasoline Engine Diagnosis Simulator
YESA-3300	CRDI Engine with Auto Transmission Training System
YESA-3301	CRDI Engine with Auto Transmission Training System
YESA-3500	LPI Engine Simulator
YESA-4003	CRDI Engine with Auto Transmission Training System
YESA-4402	Instrument Control Panel System
YESA-4521	Automotive Air-Bag Trainer
...	More than 50 training videos!

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3102

Feature

- Engine Simulator Equipment which equipped with fuel, cooling, intake, exhaust and car electricity system so that allows variety of theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that allows effective education concerning maintenance system.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, Auto Fault
  2) Automatic Transmission Assembly
  3) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Ignition coil, Spark Plug, High Voltage Cables etc
  6) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  7) Exhaust System such as Catalytic Converter, Emission, Silencer
  8) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  9) Control box, fuel tank (removable), accelerator lever
  10) Stainless molding type safety guard is installed
  11) Radiator-only stand and laser processing protection panel
  12) Automatic transmission oil pressure gauge for each singular ∗6 (1.5MPa ∗3, 2.5Mpa ∗4)
  13) Vacuum pressure gauge ∗1 (0.1Mpa)
  14) Fuel pressure gauge ∗1 (1Mpa)
  15) Battery voltage gauge ∗1 (30V)
  16) Drawer type storage space 1ea
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3103

Feature

- Gasoline Engine Simulator Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, Auto Fault
  2) Automatic Transmission Assembly
  3) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Ignition coil, Spark Plug, High Voltage Cables etc
  6) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  7) Exhaust System such as Catalytic Converter, Emission, Silencer
  8) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  9) Control box, fuel tank (removable), accelerator lever
  10) Stainless molding type safety guard is installed
  11) Radiator-only stand and laser processing protection panel
  12) Automatic transmission oil pressure gauge for each singular ∗6 (1.5MPa ∗3, 2.5Mpa ∗4)
  13) Vacuum pressure gauge ∗1 (0.1Mpa)
  14) Fuel pressure gauge ∗1 (1Mpa)
  15) Battery voltage gauge ∗1 (30V)
  16) Cabinet type storage space with 2 door
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3109

Feature

- Gasoline Engine Simulator Equipment which has fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, Auto Fault
  2) Automatic Transmission Assembly
  3) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc.
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Ignition coil, Spark Plug, High Voltage Cables etc.
  6) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  7) Exhaust System such as Catalytic Converter, Emission, Silencer
  8) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  9) Fuel tank (removable), accelerator lever
  10) Vacuum pressure gauge ∗1 (0.1Mpa)
  11) Fuel pressure gauge ∗1 (1Mpa)
  12) Battery voltage gauge ∗1 (30V)
  13) Cabinet type storage space with 2 door
  14) Laptop and book stand is attached
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Measurement of exhaust, measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3110

Feature

- Simulator Equipment which has fuel, cooling, intake, exhaust panel for gasoline Engine + Dual Clutch so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.

Specification

1) Electrical Control Gasoline Engine Assembly, Dual Clutch Transmission (DCT), Auto Fault
2) Dual clutch automatic transmission assembly
3) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc
4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
5) Ignition coil, Spark Plug, High Voltage Cables etc
6) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
7) Exhaust System such as Catalytic Converter, Emission, Silencer
8) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
9) Control box, fuel tank (removable), accelerator lever
10) Vacuum pressure gauge ∗1 (0.1Mpa)
11) Fuel pressure gauge ∗1 (1Mpa)
12) Battery voltage gauge ∗1 (30V)
13) Cabinet type storage space with 2 door
14) An emergency fire extinguisher

- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Measurement and inspection of electricity, exhaust gas and cylinder pressure of dual clutch.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3130

Feature

- 1,500cc Gasoline Engine Simulator Equipment that equipped with fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Compact size for storage efficiency.
- Fault insertion, 3 stage angle adjustable front panel, control panel open and close feature and 3 stage PCB board mounted.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly, Auto Fault
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Vacuum pressure gauge ∗1 (0.1Mpa)
  12) Fuel pressure gauge ∗1 (1Mpa)
  13) Battery voltage gauge ∗1 (30V)
  14) Fault insertion, 3 stage angle adjustable front panel, control panel open and close feature and 3 stage PCB board mounted.
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement of exhaust, measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3132

Feature

- 1,300cc Gasoline Engine Simulator Equipment that equipped with fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Compact size for storage efficiency.
- Fault insertion, control panel open and close feature and 3 stage PCB board mounted.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly,Auto Fault
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Vacuum pressure gauge ∗1 (0.1Mpa)
  12) Fuel pressure gauge ∗1 (1Mpa)
  13) Battery voltage gauge ∗1 (30V)
  14) Drawer type storage space 1ea
  15) Fault insertion, control panel open and close feature and 3 stage PCB board mounted.
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 450 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement of exhaust, measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Automotive Engine Fault Diagnosis Simulator_ Auto Fault YESA-3133

Feature

- 1,800~2,000cc Gasoline Engine Simulator Equipment that equipped with fuel, cooling, intake, exhaust panel so that it can be used for variety of theoretical training and simulating.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- It is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Compact size for storage efficiency.
- Fault insertion, control panel open and close feature and 3 stage PCB board mounted.

Specification

- Composition
  1) Electrical Control Gasoline Engine Assembly of SONATA
  2) Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O_2Sensor, WTS, Control Relay and etc
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Ignition coil, Spark Plug, High Voltage Cables etc
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Cabinet type storage space with 2 door
  12) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement of exhaust, measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Diesel Engine Diagnosis Training Equipmemt YESA-3200

Feature

- Diesel Engine Simulator Type Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

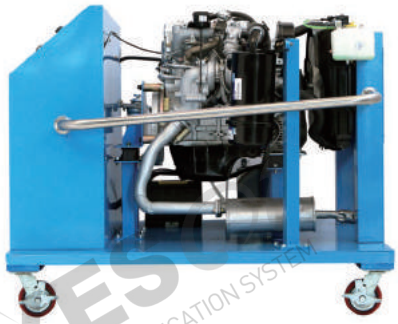
- Composition
  1) Diesel Engine Assembly, FR Automatic Transmission
  2) Fuel filter, fuel tank, fuel pump, fuel devices, DC 12V battery and generator
  3) Cooling device such as radiator, electric fan and antifreeze
  4) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  5) Accelerator lever
  6) Stainless molding type safety guide is installed
  7) Radiator-only stand and laser process protection panel
  8) Vacuum pressure gauge ∗1 (0.1 Mpa)
  9) Fuel pressure gauge ∗1 (1 Mpa)
  10) Battery voltage measurement gauge ∗1 (30V)
  11) Drawer type storage space 1ea
  12) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 2,500 X 1,200 X 1,300 mm
- Weight : Approx. 450 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of auto transmission.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of fuel system.
- Inspection of all kinds of belts, pumps and cooling system.
- Inspection of the rest of parts.

Diesel Engine Diagnosis Training Equipmemt

YESA-3210
YESA-3212



Feature

- Turbo charger intercooler type of Diesel Engine Simulator Equipment that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel Engine Assembly,(YESA-3212 : Turbo Charger intercooler) included.
  2) Fuel filter, fuel tank, fuel pump, fuel devices, DC 12V battery and generator
  3) Cooling device such as radiator, electric fan and antifreeze
  4) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  5) Accelerator lever
  6) Stainless molding type safety guide is installed
  7) Radiator-only stand and laser processed protection panel
  8) Vacuum pressure gauge ∗1 (1 Mpa)
  9) Battery voltage measurement gauge ∗1 (30V)
  10) Storage
- Size : Approx. 1,600 X 1,200 X 1,300 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Inspection and test of oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.
- Inspection of the turbo intercooler.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3320

Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) CRDI Diesel Engine Assembly, 2,900cc
  2) FR Automatic Transmission Assembly
  3) All ignition related electric devices
  4) njector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Devices, DC 12V Car Battery and Generator
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as Catalytic Converter, Emission, Silencer
  7) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Vacuum Pressure Gauge *1 (0.1Mpa)
  12) Fuel Pressure Gauge *1 (1Mpa)
  13) Battery Voltage Gauge *1 (30V)
  14) Cabinet type storage space with 2 door
  15) Laptop and book stand is attached
  16) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
  17) Option - Euro 4, Euro 5, Euro 6 engine available
- Size : Approx. 1,600 X 2,400 X 1,600 mm
- Weight : Approx. 650 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of FR Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3300

Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Fault insertion, 3 stage angle adjustable front panel, control panel open and close feature and 3 stage PCB board mounted.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) CRDI Diesel engine assembly, Turbo intercooler
  2) Automatic Transmission assembly
  3) All ignition related electric devices
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Automatic transmission oil pressure gauge for each singular ∗6 (1.5MPa ∗3, 2.5Mpa ∗4)
  12) Vacuum pressure gauge ∗1 (0.1Mpa)
  13) Fuel pressure gauge ∗1 (1Mpa)
  14) Battery voltage gauge ∗1 (30V)
  15) An emergency fire extinguisher
  16) Fault insertion, 3 stage angle adjustable front panel, control panel open and close feature and 3 stage PCB board mounted
  17) Option - Euro 4, Euro 5, Euro 6 engine available
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 430 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3301

Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) CRDI Diesel engine assembly, Turbo intercooler
  2) Automatic Transmission assembly
  3) All ignition related electric devices
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as Catalytic Converter, Emission, Silencer
  7) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Automatic transmission oil pressure gauge for each singular ∗6 (1.5MPa ∗3, 2.5Mpa ∗4)
  12) Vacuum pressure gauge ∗1 (0.1Mpa)
  13) Fuel pressure gauge ∗1 (1Mpa)
  14) Battery voltage gauge ∗1 (30V)
  15) Cabinet type storage space with 2 door
  16) An emergency fire extinguisher
  17) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
  18) Option - Euro 4, Euro 5, Euro 6 engine available
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 430 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3302

Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) CRDI Diesel engine assembly, Turbo intercooler
  2) Automatic Transmission assembly
  3) All ignition related electric devices
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as Catalytic Converter, Emission, Silencer
  7) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Automatic transmission oil pressure gauge for each singular ∗6 (1.5Mpa ∗3, 2.5Mpa ∗4)
  12) Vacuum pressure gauge ∗1 (0.1Mpa)
  13) Fuel pressure gauge ∗1 (1Mpa)
  14) Battery voltage gauge ∗1 (30V)
  15) Cabinet type storage space with 2 door
  16) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
  17) Option - Euro 4, Euro 5, Euro 6 engine available
- Size : Approx. 1,600 X 1,700 X 1,600 mm
- Weight : Approx. 450 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3303

Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) CRDI Diesel engine assembly, Turbo Intercooler
  2) Automatic Transmission assembly
  3) All ignition related electric devices
  4) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Stainless molding type safety guard is installed
  10) Radiator-only stand and laser processing protection panel
  11) Automatic transmission oil pressure gauge for each singular ∗6 (1.5Mpa ∗3, 2.5Mpa ∗4)
  12) Vacuum pressure gauge ∗1 (0.1Mpa)
  13) Fuel pressure gauge ∗1 (1Mpa)
  14) Battery voltage gauge ∗1 (30V)
  15) Storage Space
  16) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
  17) Option - Euro 4, Euro 5, Euro 6 engine available
- Size : Approx. 1,800 X 1,800 X 1,600 mm
- Weight : Approx. 480 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3310

Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

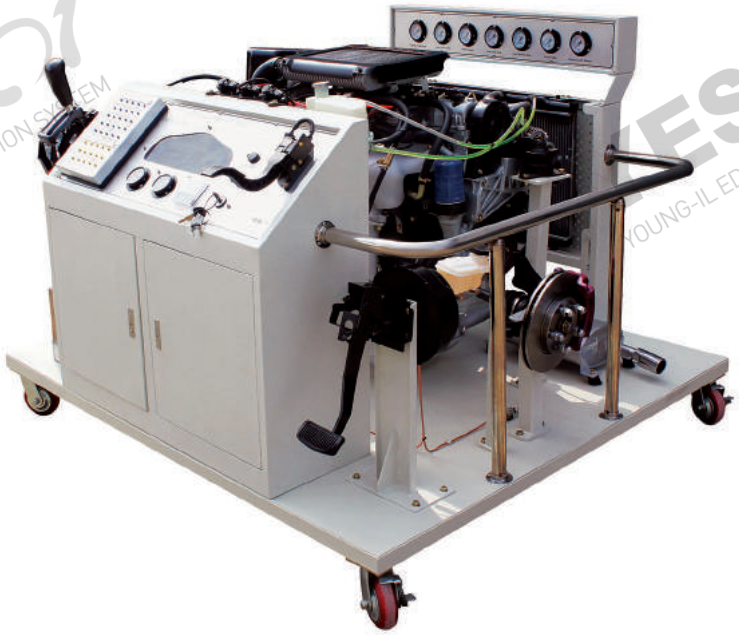
Specification

- Composition
  1) CRDI Diesel Engine Assembly 2,000cc, Turbo Intercooler
  2) Automatic Transmission Assembly
  3) Brake Master, Lever, Cylinder and Brake System
  4) All ignition related electric devices
  5) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Devices, DC 12V Car Battery and Generator
  6) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  7) Exhaust System such as Catalytic Converter, Emission, Silencer
  8) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  9) Control box, fuel tank (removable), accelerator lever
  10) Stainless molding type safety guard is installed
  11) Radiator-only stand and laser processing protection panel
  12) Automatic Transmission Oil Pressure Gauge for Each Singular ∗6 (1.5Mpa ∗3, 2.5Mpa ∗4)
  13) Vacuum Pressure Gauge ∗1 (0.1Mpa)
  14) Fuel Pressure Gauge ∗1 (1Mpa)
  15) Battery Voltage Gauge ∗ (30V)
  16) Cabinet type storage space with 2 door
  17) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
  18) Option - Euro 4, Euro 5, Euro 6 engine available.
- Size : Approx. 1,800 X 1,800 X 1,600 mm
- Weight : Approx. 480 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of oil pressure at each A/T range.
- Measurement and Inspection of Brake Hydraulics.
- Assembly and Disassembly of Brake Lining.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiato,r
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3315



Feature

- CRDI (Common Rail Direct Engine) Simulator Equipment which has fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) CRDI Diesel Engine Assembly 2,000cc, Turbo Intercooler
  2) Automatic Transmission Assembly
  3) Brake Master, Lever, Cylinder and Brake System
  4) All ignition related electric devices
  5) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Devices, DC 12V Car Battery and Generator
  6) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  7) Exhaust System such as Catalytic Converter, Emission, Silencer
  8) Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  9) Control box, fuel tank (removable), accelerator lever
  10) Stainless molding type safety guard is installed
  11) Radiator-only stand and laser processing protection panel
  12) Automatic Transmission Oil Pressure Gauge for Each Singular ∗6 (1.5mpa ∗3, 2.5Mpa ∗4)
  13) Vacuum Pressure Gauge ∗1 (0.1Mpa)
  14) Fuel Pressure Gauge ∗1 (1Mpa)
  15) Battery Voltage Gauge ∗1 (30V)
  16) Cabinet type storage space with 2 door
  17) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
  18) Option - Euro 4, Euro 5, Euro 6 engine available
- Size : Approx. 1,800 X 1,800 X 1,600 mm
- Weight : Approx. 480 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement and Inspection of Brake Hydraulics.
- Assembly and Disassembly of Brake Lining.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Diesel Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3330

Feature

- Diesel engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.

Specification

- Composition
  1) Diesel engine assembly
  2) Fuel Filter, Fuel Tank, Fuel Pump, Fuel Devices, DC 12V Car Battery and Generator
  3) Cooling Device Such As Radiator, Electric Fan, Overflow Tank and Relay and Antifreeze
  4) Exhaust system such as catalyst convertor and silencer
  5) Start switch (Key S/W) Anti-vibration dampers and a urethane wheels
  6) Control box (for measurement of waveform), fuel tank and accelerator lever
  7) Stainless molding type safety guard is installed
  8) Radiator-only stand and laser processing protection panel
  9) Drawer type storage space 1ea
  10) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 430 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Diesel Engine Fault Diagnosis Training Equipmemt_ Auto Fault YESA-3331

Feature

- Diesel engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.

Specification

- Composition
  1) CRDI Diesel engine assembly, 2,000cc
  2) All Startup-related electric devices
  3) Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  5) Exhaust System such as Catalytic Converter, Emission, Silencer
  6) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  7) Control box, fuel tank (removable), accelerator lever
  8) Installment of safety guide of stainless molding type
  9) Radiator-only stand and laser processed protection panel
  10) Vacuum pressure gauge *1 (0.1Mpa)
  11) Fuel pressure gauge *1 (1Mpa)
  12) Battery voltage gauge *1 (30V)
  13) Drawer type storage space 1ea
  14) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,600 X 1,600 X 1,600 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such
- as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

CRDI Engine Fault Diagnosis Training Equipmemt YESA-3334

Feature

- Diesel engine simulator that equipped with intercooler turbo, fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Diesel engine assembly, Turbo Charger Intercooler
  2) All Startup-related electric devices
  3) Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  4) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  5) Exhaust System such as, Catalytic Converter, Emission, Silencer
  6) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  7) Control box, fuel tank (removable), accelerator lever
  8) Installment of safety guide of stainless molding type
  9) Radiator-only stand and laser processed protection panel
  10) Vacuum pressure gauge ∗1 (0.1Mpa)
  11) Fuel pressure gauge ∗1 (1Mpa)
  12) Battery voltage gauge ∗1 (30V)
  13) Cabinet type storage space with 2 door
  14) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,500 X 1,200 X 1,200 mm
- Weight : Approx. 400 kg

Training Contents

- Various practices by self-diagnosis.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

LPG Engine Fault Diagnosis Simulator_ Auto Fault YESA-3400

Feature

- LPG engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Check terminal box is attached for the test of electronic circuits and sensors with diagnose devise.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) LPG engine assembly
  2) Auto transmission assembly
  3) All Startup-related electric devices
  4) Fuel tank (LPG gas), DC 12V car battery and generator
  5) Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  6) Exhaust System such as, Catalytic Converter, Emission, Silencer
  7) Start Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  8) Control box, fuel tank (removable), accelerator lever
  9) Installment of safety guide of stainless molding type
  10) Radiator-only stand and laser processed protection panel
  11) Hydraulic gauge of each shift of auto transmission
  ∗6 (1.5MPa ∗3, 2.5Mpa ∗4)
  12) Vacuum and pressure gauge ∗1 (0.1Mpa)
  13) Fuel pressure gauge ∗1 (1Mpa)
  14) Battery voltage gauge ∗1 (30V)
  15) Cabinet type storage space with 2 door
  16) Fault insertion, control panel open and close feature and 3 stage PCB board mounted
- Size : Approx. 1,800 X 1,700 X 1,700 mm
- Weight : Approx. 500 kg

Training Contents

- Various practices by self-diagnosis.
- Operation, measurement and inspection of auto transmission.
- Measurement and inspection of oil pressure at each A/T range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

YF SONATA Hybrid Engine Fault Diagnosis Simulator YESA-3510

Feature

- Hybrid (gasoline+electric) engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Test with diagnosis devices.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

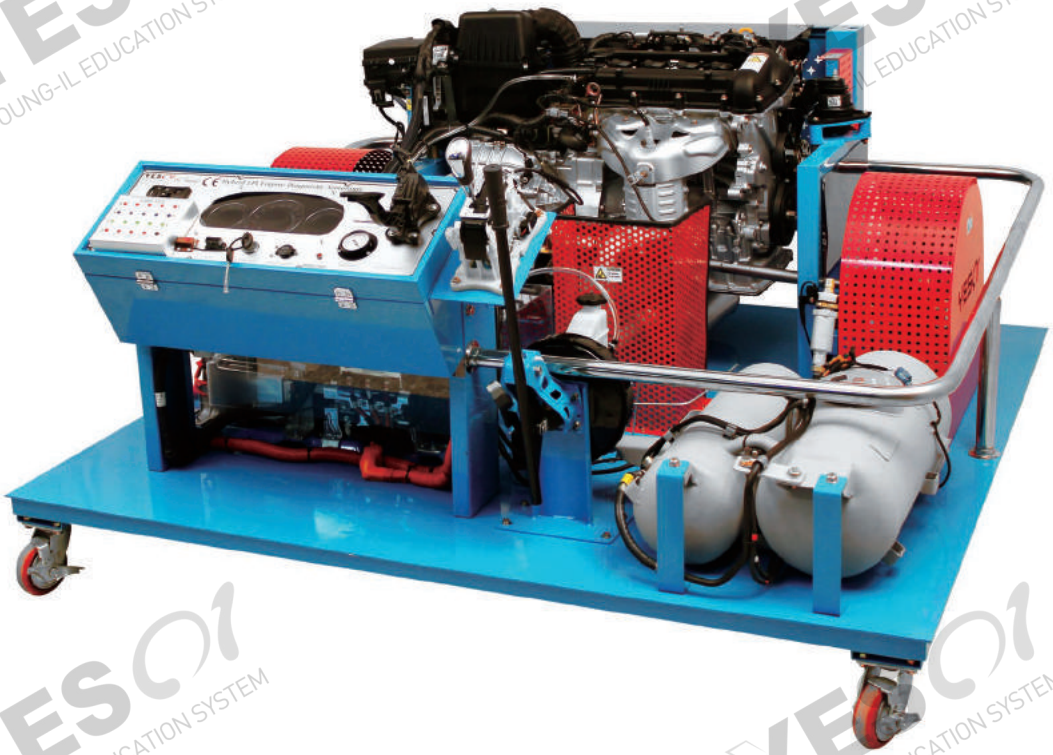
Specification

- Composition
  1) Engine and A/T auto transmission Specification
  2) 2,000cc, Gasoline & Hybrid motor
  3) Engine Style : Nu 2.0 gasoline, YF SONATA Hybrid Engine
  4) Transmission : 6-speed auto transmission
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 650 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices related Hybrid System and Engine tune-up.
- Operation, measurement and inspection of auto transmission.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

LPI Hybrid Engine Troubleshooting Simulator YESA-3512



Feature

- Hybrid and LPI engine simulator that equipped with fuel, cooling, intake, exhaust panel so that allows theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in LPI engine system system so that it's able to do effective education concerning maintenance system.
- Test with diagnosis devices.
- Pressure gauge is attached on each range of hydraulic line on A/T for circuit training of each shifting process.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) LPI Engine and Automatic transmission
     – 1600cc, LPI Engine & Hybrid Motor
- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 550 kg

Training Contents

- Various practices by self-diagnosis.
- Various practices related Hybrid System and Engine tune-up.
- Operation, measurement and inspection of auto transmission.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps.
- Inspection of the rest of parts.

Automotive Engine Diagnosis Simulator_ CNG Engine YESA-3513

Feature

- As a simulator education unit equipped with fuel, cooling, suction, exhaust systems of gasoline and CNG engine, enable to do various theory educations and practices.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Manometers for education of circuit operation according to shifting process are installed at each hydraulic line of A/T ranges
- Test using diagnosis is available because checking sockets for education are installed at automotive electric circuit and each sensor.
- Exhaust muffler is specially designed with heat-resisting paint to be maintained at high temperatures up to 600℃.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition
  1) Gasoline / CNG remodeling engine assembly
  2) Auto transmission assembly
  3) All electronic devices relevant to starting
  4) Fuel tank (LNG gas), DC 12V car battery and generator
  5) Cooling device such as radiator, electric fan, overflow tank and relay and antifreeze.
  6) exhaust system such as catalyst convertor and silencer
  7) Operation switch(Key S/W), anti-vibration damper and urethane wheel
  8) Control box(for measurement of waveform), fuel tank(separate type) and accelerator lever
  9) Installment of safety guide of stainless molding type
  10) Standard stand for radiator / Laser-processed protection panel
  11) Hydraulic gauge of each shift of auto transmission ∗6 (1.5MPa∗3 / 2.5Mpa∗4)
  12) Vacuum and pressure gauge ∗1 (0.1Mpa)
  13) Fuel pressure gauge ∗1 (1Mpa)
  14) Battery voltage gauge ∗1 (30V)
- Size : Approx. 1500 X 1200 X 1200 (L x W x H, mm)
- Weight : Approx. 500kg

Training Contents

- Various practices by self-diagnosis.
- Various practices by self-diagnosis
- Operation, measurement and inspection of auto transmission
- Measurement and inspection of oil pressure at each A/T range
- Measurement of exhaust / Measurement and inspection of compression pressure of cylinder
- Measurement of Radiator cap pressure / Radiator leak test and inspection
- Operation test of Fuel pump / Measurement and inspection of Oil pressure
- Measurement and adjustment of tensions of timing chain and fan belt
- Measurement and inspection of voltage and current of various circuits such as charging circuit and maneuver circuit
- Connector-checking socket for inspection of sensors and actuator
- Inspection of every part of suction and exhaust system
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator
- Inspection of every part of cooling system, belt and all kinds of pumps
- Inspection of the rest of parts

Hybrid Electric Panel Training Equipment YESA-3540

Feature

- Panel Type education equipment of hybrid system.
- Explanation in each part of hybrid system structure and education of operation function and power transmission.
- Able to observe the electric signals through circuit dagram of panel.
- 9 incised sections are painted with different colors for education efficiency.
- The entire process of ISO9001 and D.C.C.A.P.T of TQC method of YES01 are applied in manufacturing.

Specification

- Composition : Hybrid System Diagram, Cable, Generator, Compressor
- Size : Approx. 1,000 X 600 X 700mm
- Weight : Approx. 120kg

Hybrid Vehicle Battery Charger YESA-3451

Feature

- Consist of a control box inside the car and main body(external charger).
- The control box is connected to the battery and control the connection with the main body and the battery.
- Control the electric quantity automatically to prevent from overheat and overcharge.
- Lamp and buzzer on the charger make easy to distinguish occurrence of emergency.
- Charged in a way of constant current depending on the capacity of the battery. Full-charged in a way of constant voltage when the voltage is swelled.
- Available to set up the charging current and maximum voltage of the battery, and allowable temperature.

Specification

- Input power source: three phases 220V
- Battery model : lithium-polymer 270V
- Size: Main body : (W)410 X (L)490 X (H)1080 [mm]
  Control box : (W)380 X (L)280 X (H)230 [mm]
- Weight: Main body: 90kg, Control box: 7kg

LPI Engine Fault Diagnosis Training Equipment_ Auto Fault YESA-3501

Feature

- Manufacturing hybrid starting simulation with AVANTE HEV 1.6 engine, Hybrid control Unit.
- Attached sensor of slant angle, brake boost pressure.
- To check the operation such as start of hybrid engine, power support by idle or slow move, driving force support when speed up, energy retrieve decreasing speed (battery charge) with brake switch.
- With the center of HCU (hybrid control unit), connect each control unit, ECU, TCM, BMS ECU, MCU, LDC with CAN communication.
- Panel display engine start–engine status.
- With diagnosis equipment, check sensor, short circuit, failure diagnosis and output power Display panel, ECU circuit, education check terminal and toggle switches are set up in the front control panel, it is convenient to check failure, diagnosis, test and experiment.

Specification

- Composition
  1) Engine and A/T auto transmission Specification
  2) 1,600cc LPI & Hybrid motor
  3) Engine Style : I4 1.6 (1,591cc), AVANTE HEV
- Size : Approx. 4,600 X 1,800 X 1,500 mm
- Weight : Approx. 1,300kg

Option

- Oscilloscope
  - Bandwidth 20MHz (10MHz on ±50mV range)
  - Channels 4
  - Vertical resolution 12bits
  - Enhanced vertical resolution 16bits pulse width, runt pulse, dropout, windowed.
  - Maximum pre trigger delay 10x "per division" time base setting
  - Maximum post trigger delay 50s
- Laptop
  - CPU: Intel Core i7
  - Memory: 8GB
  - SSD: 256GB
  - USB 3.0
  - I/O: HDMI
- Monitor
  - Screen size: 61cm(24Inch)
  - Input: HDMI, D–SUB
  - Resolution: 1980X1080
  - Light source: LED

Electric Vehicle Fault Diagnosis Simulator YESA-4000

Feature

- Educational equipment for studying inside of the electric vehicle as the vehicle is incised and enable to do various theory educations and practices.
- Load of the vehicle is adjusted in accordance with the button, it is possible to load on the wheel by the mounted electrical brake.
- Battery parts are covered with the transparent PC cover to observe the internal structure.
- Automatic transmission speed sensing, color display, vehicle defect state and basic diagnostic information (TPS, the accelerator signal sensors, etc.) are provided using vehicle specific diagnostic apparatus.
- Energy flow panel is attached when operating electric vehicles.

Specification

- Composition
  1) Overall length : 2,655 mm, Width : 1,440 mm, Height : 1,540 mm
  2) Weight : 620 kg (without battery)
  3) Max speed : 40 km/h
  4) Motor : 3 Phase single-Motor 7 kw
  5) Battery : 72V, 165 Ah
  6) Charger : Embedded AC 110 ~ 220V
  7) Controller : 72V
  8) Driving Type : FR
  9) Braking System : FF-Separated dual system, FR-disk hydraulic brakes
  10) Energy Flow chart Control panel with stand

Training Contents

- Various items by self-diagnosis.
- Electric vehicle-related maintenance and Practice.

Electric Vehicle Fault Diagnosis Simulator YESA-4001

Feature

- Educational equipment for studying inside of the electric vehicle as the vehicle is incised and enable to do various theory educations and practices.
- Able to measure when charging, running, climbing, rapid accelerating, rapid stopping with installing V–meter, A–meter.
- Load of the vehicle is adjusted in accordance with the button, it is possible to load on the wheel by the mounted electrical brake.
- Equipped with Powder Brake to make the brake work– regulation of the power brake ranges are from 3 to 5 steps.
- Battery parts are covered with the transparent PC cover to observe the internal structure.
- Automatic transmission speed sensing, color display, vehicle defect state and basic diagnostic information (TPS, the accelerator signal sensors, etc.) are provided using vehicle specific diagnostic apparatus.
- Torque rpm can be adjusted and tested by using PC.

Specification

- Composition
  - 1) Overall length : 2,655 mm, Width : 1,440 mm, Height : 1,540 mm
  - 2) Weight : 620 kg (without battery)
  - 3) Max speed : 40 km/h
  - 4) Motor : 3 phase single–motor 7 kw
  - 5) Battery : 72V, 165Ah
  - 6) Charger : Embedded AC 110 ~ 220V
  - 7) Controller : 72V
  - 8) Driving Type : FR
  - 9) Braking system : FF– Separated dual system, FR–disk hydraulic brakes
  - 10) Stand as chassiss Dynamometer
    - – Driving Method by steel 6T (pattern)
    - – Two rollers mounted
    - – Brake equipment mounted (electrical load) (Each wheel can be loaded)
  - 11) Energy Flow chart Control panel with stand

Training Contents

- Various practices by self–diagnosis.
- Electric vehicle–related maintenance and Practice.

Electric Vehicle Fault Diagnosis Simulator YESA-4002

Feature

- Educational equipment for studying inside of the electric vehicle as the vehicle is incised and enable to do various theory educations and practices.
- Load of the vehicle is adjusted in accordance with the button, it is possible to load on the wheel by the mounted electrical brake.
- Battery parts are covered with the transparent PC cover to observe the internal structure.
- Vehicle specific diagnosis can be used for automatic transmission speed, color display, vehicle defect and basic diagnostic information. (TPS, the accelerator signal sensors, etc)
- Able to measure when charging, running, climbing, rapidly accelerating, rapidly stopping.
- Equipped with Powder Brake to make the brake work– regulation of the power brake ranges are from 3 to 5 steps.
- Torque rpm can be adjusted and tested by using PC.
- Energy flow panel is attached when operating electric vehicles Monitor is attached.

Specification

- Composition
  1) Overall length : 2,655 mm, Width : 1,440 mm, Height : 1,540 mm
  2) Weight : 620 kg (without battery)
  3) Max speed : 40 km/h
  4) Motor : 3 single–motor 7 kw
  5) Battery : 72V, 165 Ah
  6) Charger : Embedded AC 110 ~ 220V
  7) Controller : 72V
  8) Drive Type : FR
  9) Braking system : FF – Separated dual system, FR – disk hydraulic brakes
  10) Stand as chassiss Dynamometer
     – Driving Method by steel 6T (pattern)
     – Two rollers mounted
     – Brake equipment mounted (electrical load) (Each wheel can be loaded)
  11) Energy Flow chart Control panel with stand

Training Contents

- Various practices by self–diagnosis.
- Electric vehicle–related maintenance and Practice.
- Able to measure when charging, running, climbing, rapid accelerating, rapid stopping with installing V–meter, A–meter.
- Equipped with Powder Brake to make the brake work– regulation of the power brake ranges are from 3 to 5 steps.

Electric Vehicle Structure Trainer YESA-4003

Feature

- It is designed to check the structure of electric vehicle with precision cutting.
- Load of the vehicle is adjusted in accordance with the button, it is possible to load on the wheel by the mounted electrical brake.
- Battery parts are covered with the transparent PC cover to observe the internal structure.
- Automatic transmission speed sensing, color display, vehicle defect state and basic diagnostic information (TPS, the accelerator signal sensors, etc.) are provided using vehicle specific diagnostic apparatus.

Specification

- Composition
  1) Overall length : 2,655 mm, Width : 1,440 mm, Height : 1,540 mm
  2) Weight : 620 kg (without battery)
  3) Max speed : 40 km/h
  4) Motor : 3 single-motor 7kw
  5) Battery : 72V, 165 Ah
  6) Charger : Embedded AC 110 ~ 220V
  7) Controller : 72V
  8) Drive Type : FR
  9) Braking system : FF – Separated dual system, FR – disk hydraulic brakes

Training Contents

- Various practices by self-diagnosis.
- Electric vehicle-related maintenance and Practice.

Electric Golf Vehicle Vehicle Electric Circuit Fault Diagnosis Simulator YESA-4004

Feature

- Educational equipment for studying inside of the electric vehicle as the vehicle is incised and enable to do various theory educations and practices.
- Load of the vehicle is adjusted in accordance with the button, it is possible to load on the wheel by the mounted electrical brake.
- Battery parts are covered with the transparent PC cover to observe the internal structure.
- Automatic transmission speed sensing, color display, vehicle defect state and basic diagnostic information (TPS, the accelerator signal sensors, etc.) are provided using vehicle specific diagnostic apparatus.
- It is possible to check the Power supply, sensor, actuators.
- Recording and evaluating the control of the actuators with regard to the input information.
- Representing the pressure conditions with regard to the sensor signals and the engine speed.
- Representing, recording and evaluating errors which occur in practice.

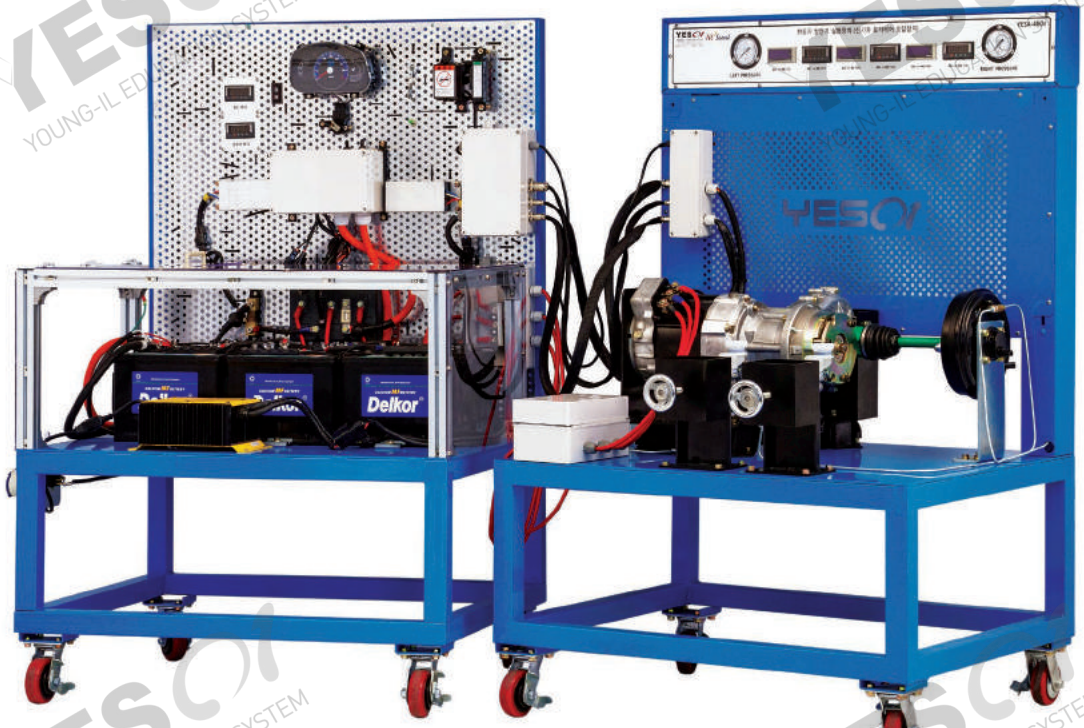
Specification

- Composition
  1) Overall length : 2,642 mm, Width : 1,200 mm, height : 1,740 mm
  2) Horsepower : 3.3 HP
  3) Battery : 8V – (6) Single point watering system
  4) Charger : 48VDC 13.5amp DC High Efficiency Charger
  5) Steering : Rack-and-pinion
  6) Gradability angle : 30 degrees
  7) Brakes : FR mechanical drum brakes
  8) Vehicle Weight (without batteries) : 500 kg
  9) Speed : 19.3 ~ 24.1 kph

Training Contents

- Various practices by self-diagnosis.
- Electric vehicle-related maintenance and Practice .

Electric Vehicle Motor Reducer Training Equipment YESA-4050



Feature

- Motor control equipment is using CAN communication to experiment motor and controller, and is made for a number of features to control in electric vehicle.
- Electric vehicle motor control experiment trainer has a built–in power supply and the electric vehicle is changed by single phase 220V power supply, the speed control and diagnosis can be checked by accelerator, and the acceleration, deceleration test are available.

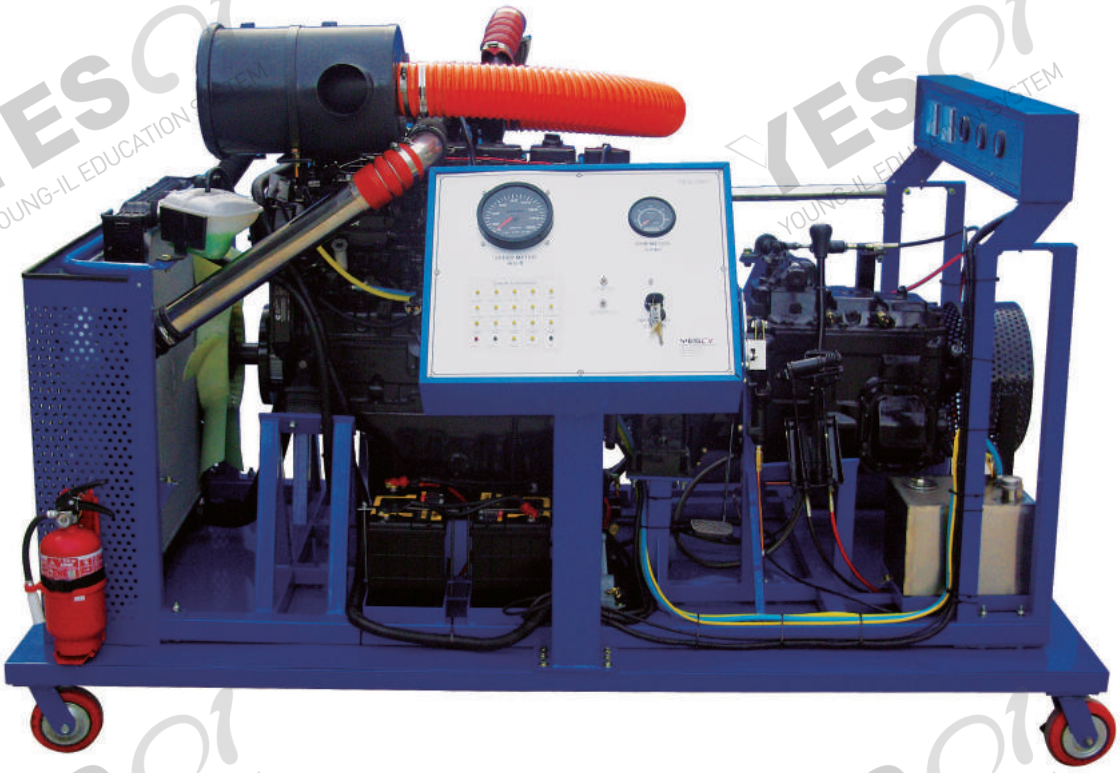
Specification

- Composition
  1) motor specification
     - Motor 72V/7 kw single motor
     - Battery : lead
     - Direct drive wheel inside the motor
     - The standard built–in charge : 72V ~ 165 Ah
     - Controller
  2) Manufactured structure for studying motor control driving principle of electric vehicle with the naked eye
  3) Configure the electric vehicle motor control experimental apparatus
     - key Box System : 1SET
       Key Switch and Connecting Cable Set
     - Controller : 1SET
     - Electrical control contactor modules : 1SET
     - Charging parts set : 1SET
     - Charging system : 1SET
     - Electric motor 72V/7kw single motor : 1SET
     - Key box system, the controller, the control module contactor, the charging system, the motor is included to be made to the motor control apparatus for an electric vehicle experiment
     - Delivery, installation, training can be conducted in line with software for setup using CAN communication

Training Contents

- Electric Vehicle Motor Control.
- Adjustment of the acceleration rate, deceleration rate.
- Control the Regenerative braking rate.
- Set up for acceleration sensor.
- Adjust the torque curve from the motor.
- The battery input voltage adjustment.
- Adjust the maximum running speed.
- Electrical Data recording while driving. (voltage, current, speed, slip, etc)

Large Yard Tractor Engine Fault Diagnosis System YESA-5100



Feature

- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- As a simulator education unit equipped with fuel, cooling, suction, exhaust systems ofCumminsengine, enable to do various theory educations and practices.
- Check terminals in an electric circuit and sensors make possible to test by the diagnosis.

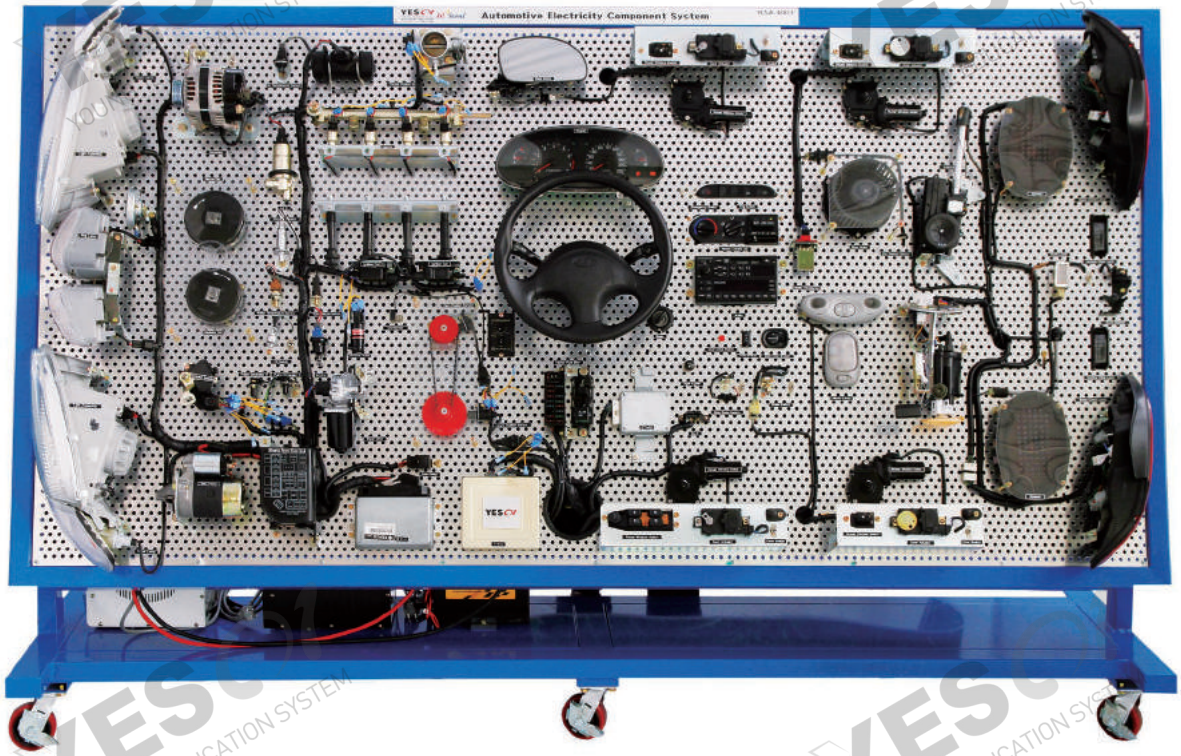
Specification

- Composition
  1) 400HP or more Cummins Diesel Engine Assembly
  2) Fuel Filter, Fuel Tank, Fuel Pump, Fuel and Battery, Generator
  3) Radiator, Electric Fan Cooling System and Overflow Tanks and Antifreeze
  4) Exhaust Components such as anExhaust Silencer
  5) Ignition Switch (Key S / W) Anti-Vibration Dampers And A Urethane Wheels
  6) Control Box, Fuel Tank (Removable), Excel Illustrator Lever.
  7) Stainless Steel Molded-Type Guards Installed.
  8) Standard For The Radiator And Laser Processing Protection Panel
  9) Control Panel : Meter, oil pressure gauge, power switch, power lamp, 20-port diagnosis terminal, Voltmeter, Ampere meter
- Auto Fault
- Size : Approx. 2,400 X 1,500 X 1,500 mm
- Weight : Approx. 650 kg

Training Contents

- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of Radiator cap pressure, Radiator leak test and inspection.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of belt.
- Measurement and inspection of voltage and current of various circuits such as charging circuit and maneuver circuit.
- Connector-checking socket for inspection of sensors and actuator.
- Inspection of every part of suction and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of every part of cooling system, belt and all kinds of pumps.
- Inspection of the rest of parts.

Automotive Component's Electric Circuit Training Equipment YESA-4100



Feature

- As an education unit for understanding comprehensive wiring structure of 1,500cc gasoline vehicle, it's manufactured in a way that students are able to get various theory educations and do practices.
- Components are arranged in same locations with an actual vehicle so that operation of parts can be done for effective education.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Able to practice fault tests (can make failure condition on purpose)
- Unique wiring of vehicle used. For education, wiring is manufactured in order for us to see it straight.
- Checking pins for measuring waveforms are installed at each sensor for wiring protection.
- Sparkling at spark plug can be observed with naked eye and safety cover is equipped.
- Able to observe the fuel injection with the naked eye and LED light works during injector operation.

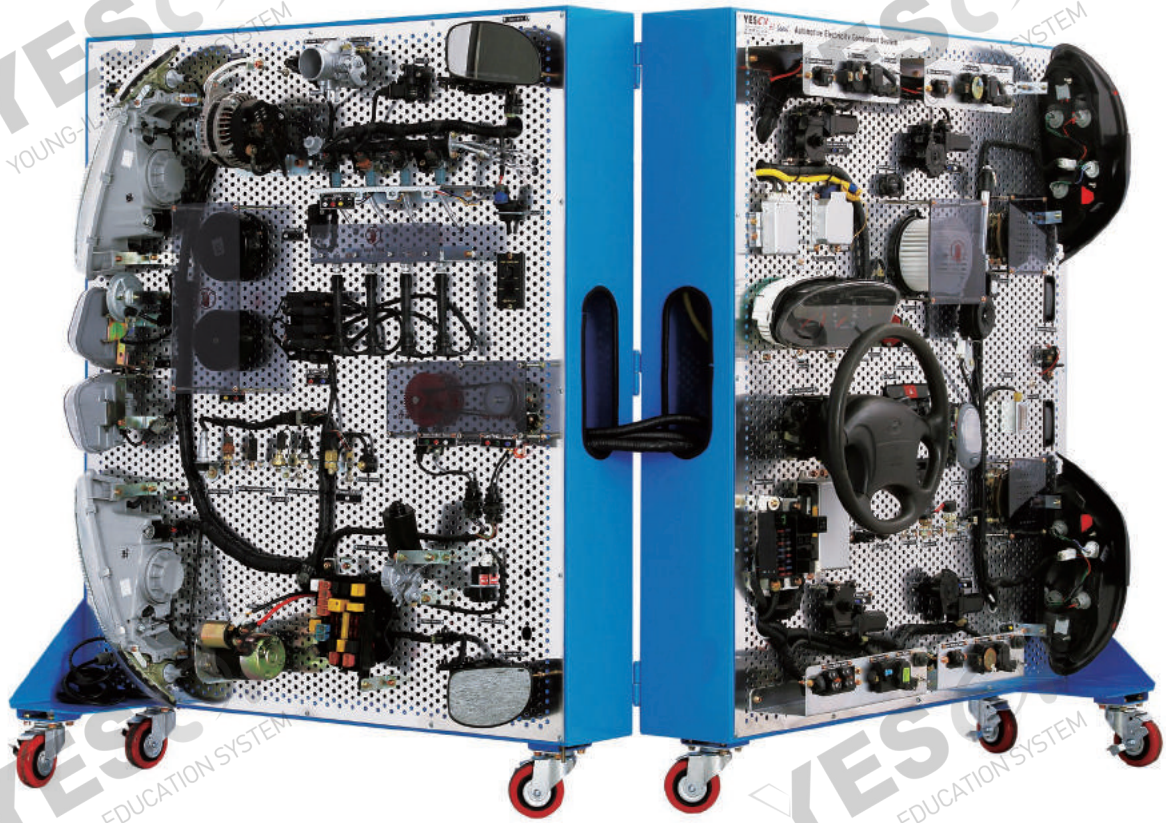
Specification

- Composition
  1) Switch board : Approx. over 2,500 X 800 X 1,700 mm
  2) Attached circuit : Ignition circuit, charging circuit, circuit of indicating direction and emergency light, horn circuit, door lock circuit, head light circuit, washer circuit, wiper circuit, starting circuit, fuel circuit, sidelight circuit, antenna circuit, audio system circuit, various sensors and switch, ECU, key box, combination switch, relay box, battery, combination switch relay, fuse box and fuel tank
  3) Distributor and wipers operate normally by motor and spark at plug can be checked with naked eye
  4) Steering handle, surge tank, throttle body, injector and AFS light attached
  5) Battery and charger
  6) Charging Device : with extra Charger or 2HP motor operation
  7) 1,500cc Engine Type

Training Contents

- Various practices by self-diagnosis.
- Waveform measurement of each sensor.

Automotive Component's Electric Circuit Training Equipment YESA-4101



Feature

- As an education unit for understanding comprehensive wiring structure of 1,500cc gasoline vehicle, it's manufactured in a way that students are able to get various theory educations and do practices.
- Components are arranged in same locations with an actual vehicle so that operation of parts can be done for effective education.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Able to practice fault tests. (can make failure condition on purpose)
- Unique wiring of vehicle used. For education, wiring is manufactured in order for us to see it straight.
- Checking pins for measuring waveforms are installed at each sensor for wiring protection.
- Sparkling at spark plug can be observed with naked eye and safety cover is equipped.
- With foldable stand, it's easy to keep and store.
- Able to observe the fuel injection with the naked eye and LED light works during injector operation.

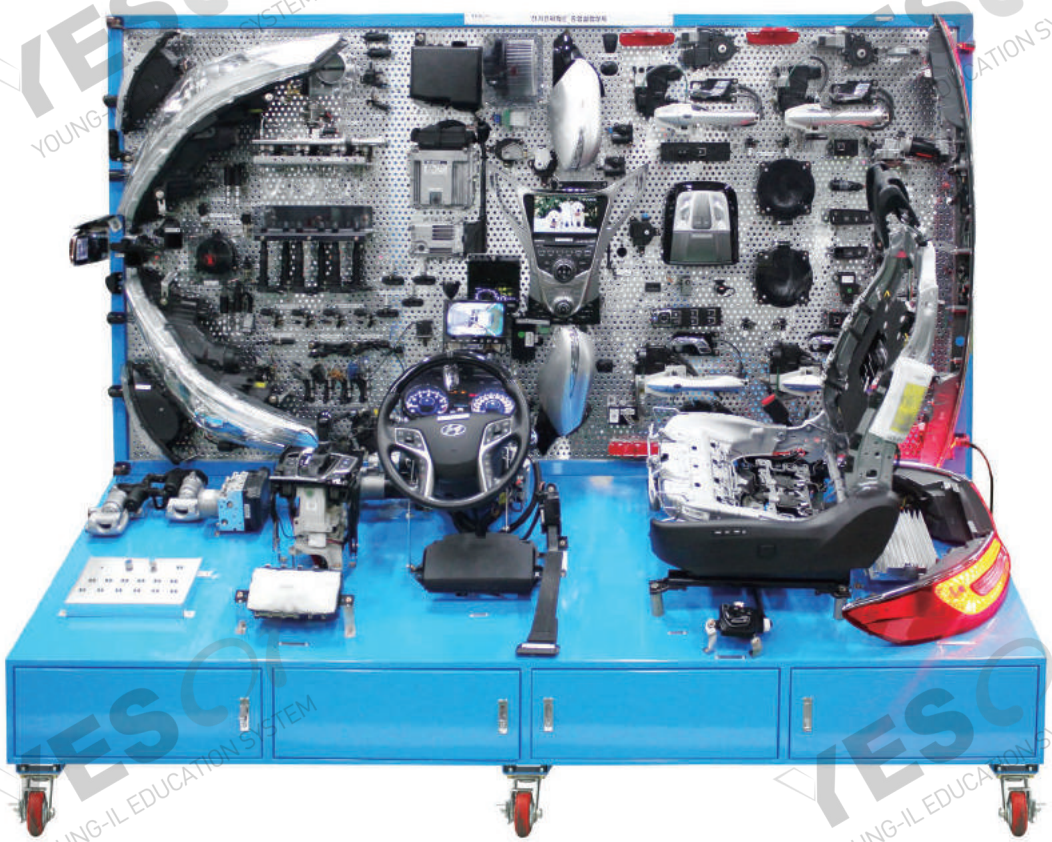
Specification

1) Switch board : Approx. over 1,300 X 1,200 X 1,500 mm
2) Attached circuit : Ignition circuit, charging circuit, circuit of indicating direction and emergency light, horn circuit, door lock circuit, head light circuit, washer circuit, wiper circuit, starting circuit, fuel circuit, sidelight circuit, antenna circuit, audio system circuit, various sensors and switch, ECU, key box, combination switch, relay box, battery, combination switch relay, fuse box and fuel tank
3) Distributor and wipers operate normally by motor and spark at plug can be checked with naked eye
4) Steering handle, surge tank, throttle body, injector and AFS light attached
5) Battery and charger
6) Stand 1,200 X 1,200, Foldable type stand
7) Charging Device : with extra Charger or 2HP motor operation
8) 1,500cc, Folder Type, Auto Fault
9)CKP, CMP motor operated type.

Training Contents

- Various practices by self-diagnosis.
- Waveform measurement of each sensor.

Automotive Component's Electric Circuit Training Equipment YESA-4107



Feature

- As an education unit for understanding comprehensive wiring structure of 3,300cc gasoline vehicle, it's manufactured in a way that students are able to get various theory educations and do practices.
- Components are arranged in same locations with an actual vehicle so that operation of parts can be done for effective education.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Able to practice failure tests. (can make failure condition on purpose)
- Unique wiring of vehicle used. For education, wiring is manufactured in order for us to see it straight.
- Checking pins for measuring wave forms are installed at each sensor for wiring protection.
- Sparkling at spark plug can be observed with naked eye and safety cover is equipped.

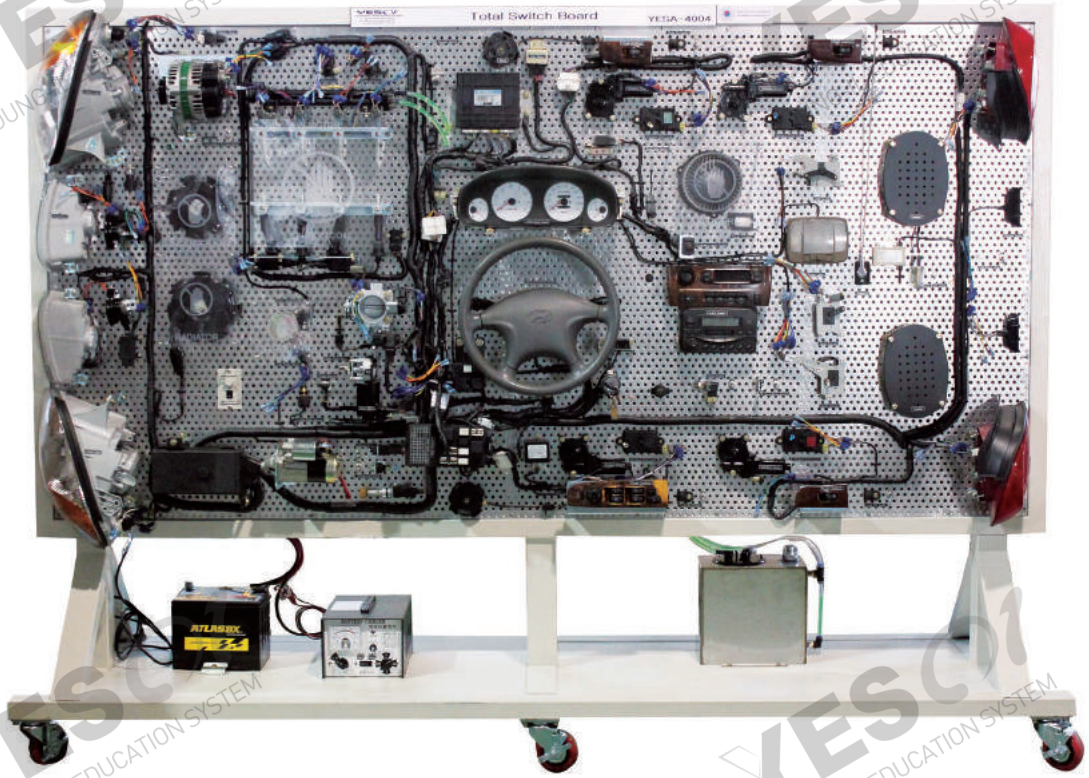
Specification

- Composition
  1) Switch board : Approx. over 2,600 X 900 X 1,700 mm
  2) Attached circuit : Ignition circuit, charging circuit, circuit of indicating direction and emergency, horn circuit, door lock circuit, head light circuit, washer circuit, wiper circuit, fuel circuit, sidelight circuit, antenna circuit, audio system circuit, various sensors and switch, ECU, key box, combination switch, relay box, battery, combination switch relay, fuse box and fuel tank.
  3) Distributor and wipers operate normally and spark at plug by motor can be seen
  4) Battery and charger
  5) Panel is able to be tilted up to 15° by bearing and deceleration gear
  6) Fuel injection by 3 phase 380V deceleration motor operation
  7) 3,300cc_ Auto Fault_ Reverse Stand

Training Contents

- Various practices by self-diagnosis.
- Measurement of each sensor.

Automotive Component's Electric Circuit Training Equipment YESA-4105



Feature

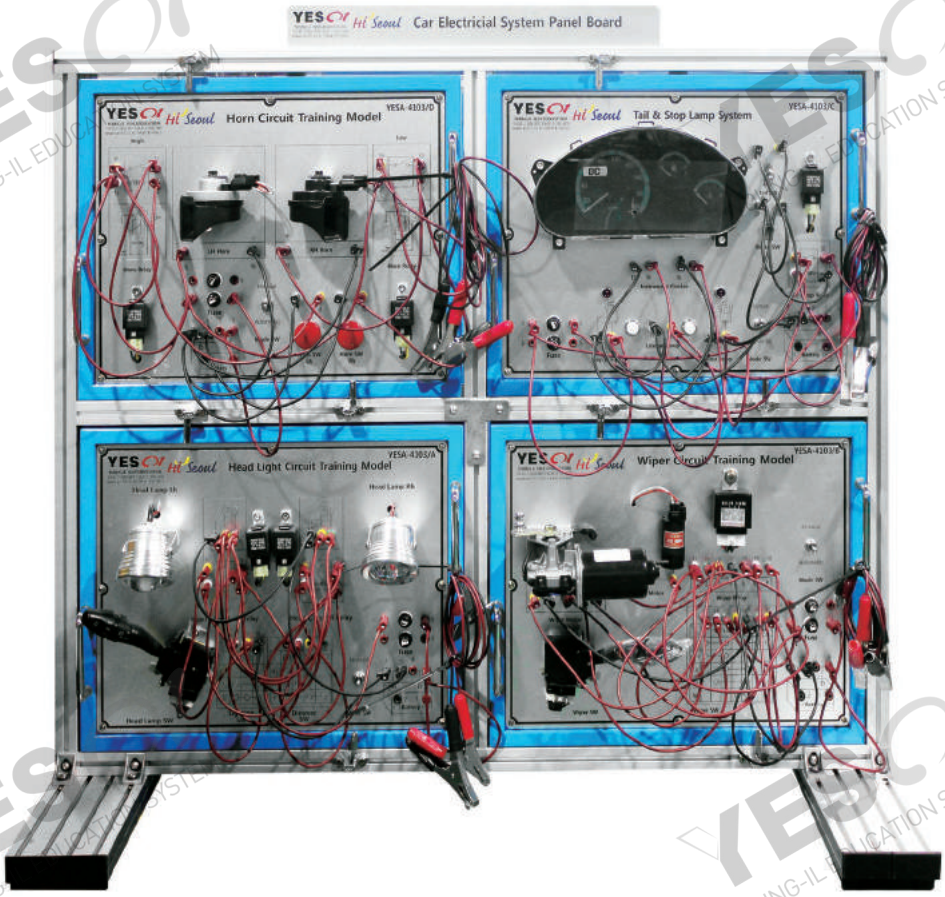
- As an education unit for understanding comprehensive wiring structure of 2,000cc gasoline vehicle, it's manufactured in a way that students are able to get various theory educations and do practices.
- Components are arranged in same locations with an actual vehicle so that operation of parts can be done for effective education.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that it's able to do effective education concerning maintenance system.
- Able to practice fault tests. (can make failure condition on purpose)
- Unique wiring of vehicle used. For education, wiring is manufactured in order for us to see it straight.
- Checking pins for measuring waveforms are installed at each sensor for wiring protection.
- Sparkling at spark plug can be observed with naked eye and safety cover is equipped.
- Able to observe the fuel injection with the naked eye and LED light works during injector operation.

Specification

- Composition
  1) Switch board : Approx. over 2,500 X 800 X 1,700 mm
  2) Attached circuit : Ignition circuit, charging circuit, circuit of indicating direction and emergency, horn circuit, door lock circuit, head light circuit, washer circuit, wiper circuit, starting circuit, fuel circuit, sidelight circuit, antenna circuit, audio system circuit, various sensors and switch, ECU, key box, combination switch, relay box, battery, combination switch relay, fuse box and fuel tank
  3) Distributor and wipers operate normally by motor and spark at plug can be checked with naked eye
  4) Steering handle, throttle body, injector and AFS light attached
  5) Battery and charger
  6) Charging Device : with extra Charger or 2HP motor operation
  7) 2,000cc Engine Type

Training Contents

- Various practices by self-diagnosis.
- Waveform measurement of each sensor.



Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Use of own vehicle wires.
- Electric devices of each part of the vehicle are set at aluminum panel with power and wiring sockets.
- Sensors, circuits and connecting sockets of each part are installed so that allows students to practice wiring and measure waveform.
- Students are manually able to connect wires to connector.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.

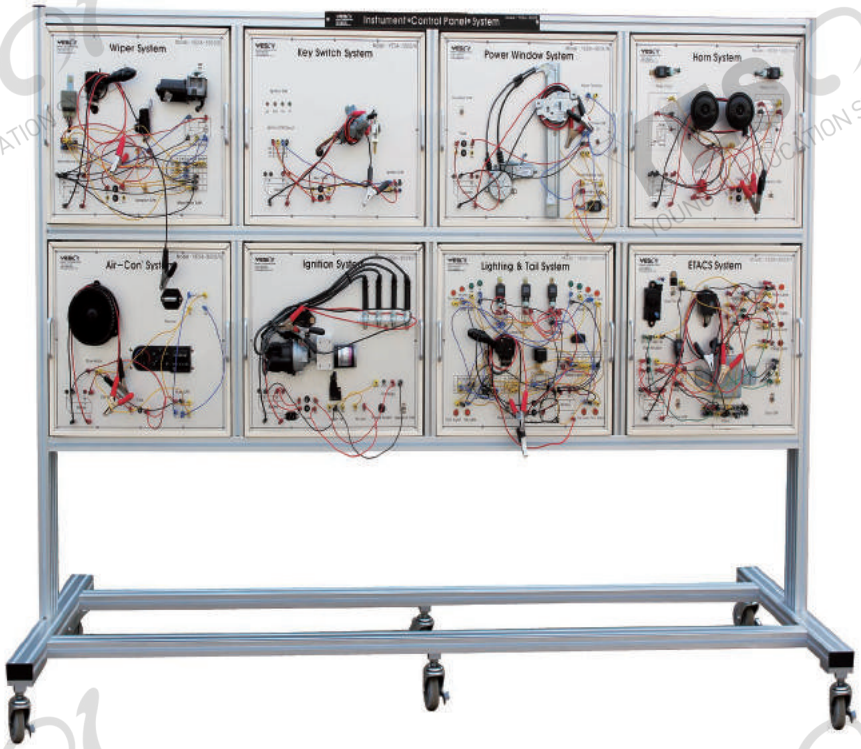
Specification

- Composition : 4 different Automotive component circuit with Stand
  1) Wiper Circuit, Tail Lamp, Headlight Circuit
  2) Direction light circuit, Horn Circuit
- Independent stand

Training Contents

1) Wiper circuit practice module
   - Arrangement of parts of wiper and motor circuit test.
   - Theory education, circuit completion and test of wiper system.
   - Operating motor check by tester.
2) Taillight and headlight practice module
   - Test for taillight and headlight circuit.
   - Theory education, circuit completion and test of taillight and headlight system.
3) Direction light circuit practice module
   - Test for Direction light circuit.
   - Theory education, circuit completion and test of Direction light circuit.
4) Horn circuit practice module
   - Test of horn system circuit.
   - Theory education, circuit completion and test of horn system.

Automotive Electric Accessory Circuit Training Equipment YESA-4200



Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Unique wiring is used in the entire vehicle.
- Electric devices of each part of the vehicle are set at aluminium panel with power and wiring terminal so that practices can be done after separation of each part.
- Sensors, circuits and connecting terminal by each part are installed for students to practice wiring and measure waveform.
- Students are able to connect wiring to connector directly.
- Students are able to understand flow of entire circuit, find causes and changes and take action.

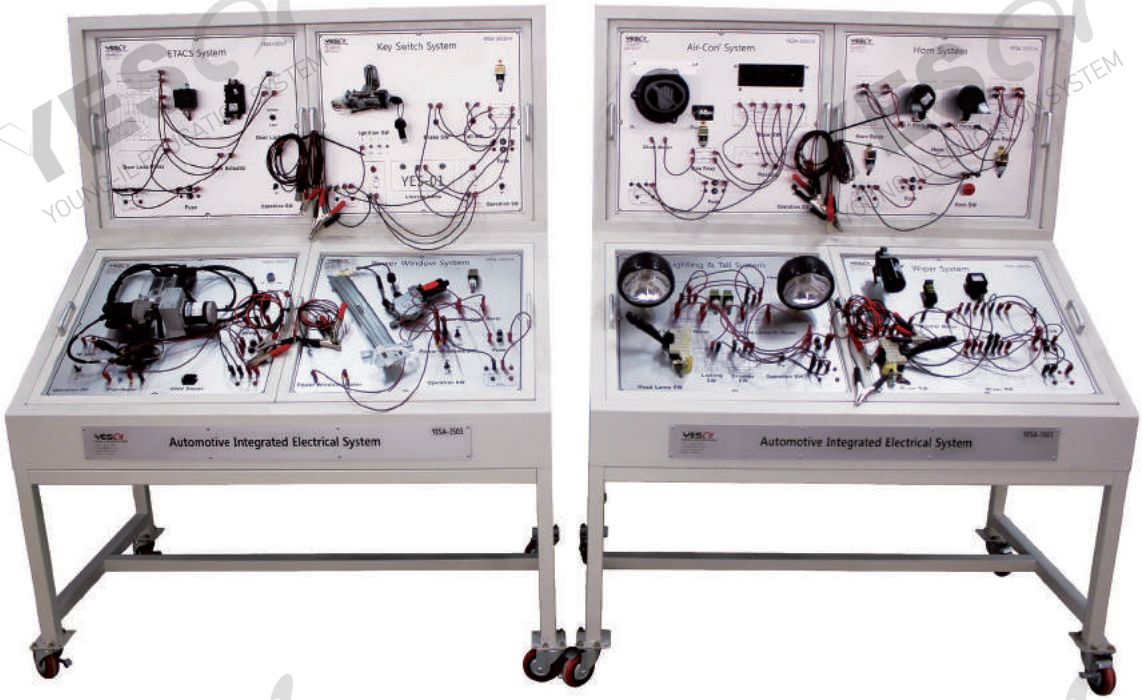
Specification

- Composition : 8 different Automotive component circuit with Panel Stand
  1) Wiper circuit, Key switch circuit
  2) Power window circuit, Horn system circuit, Cooling fan circuit
  3) Ignition circuit, Lighting circuit, Door lock circuit
- Size : Approx. 1,600 X 600 X 1,700 mm
- Weight : Approx. 250 kg

Training Contents

1) Wiper circuit practice module
   - Arrangement of parts of wiper and motor circuit test.
   - Theory education, circuit completion and test of wiper system.
   - Operating motor check by tester.
2) Key switch circuit practice module
   - Arrangement of parts of key switch and key switch circuit test.
   - Theory education, circuit completion and test of key switch system.
3) Window circuit practice module
   - Arrangement of parts of window and checking theory and operation by composing actual window circuit.
   - Theory education, circuit completion and test of window system.
   - Students can directly connect actual wiring and understand operation and its.
4) Horn circuit practice module
   - Test of horn system circuit.
   - Theory education, circuit completion and test of horn system.
5) Cooling fan circuit practice module
   - Test of cooling fan circuit.
   - Theory education, circuit completion and test of cooling fan.
6) Electronic ignition circuit practice module
   - Motronic is the newest DLI fuel injection system of bosch in common use that electronically controls fuel and ignition system.
7) Headlight practice module
   - Test of headlight circuit.
   - Theory education, circuit completion and measurement practice of head light system.
8) ETACS system practice module
   - Test of ETACS system.
   - Theory education, circuit completion and test of ETACS system.

Automotive Electric Accessory Circuit Training Equipment YESA-4201



Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Unique wiring is used in the entire vehicle.
- Electric devices of each part of the vehicle are set at aluminium panel with power and wiring sockets so that practices can be done after separation of each part.
- Sensors, circuits and connecting terminal by each part are installed for students to practice wiring and measure waveform.
- Students are able to connect wiring to connector directly.
- Students are able to understand flow of entire circuit, find causes and changes and take action.

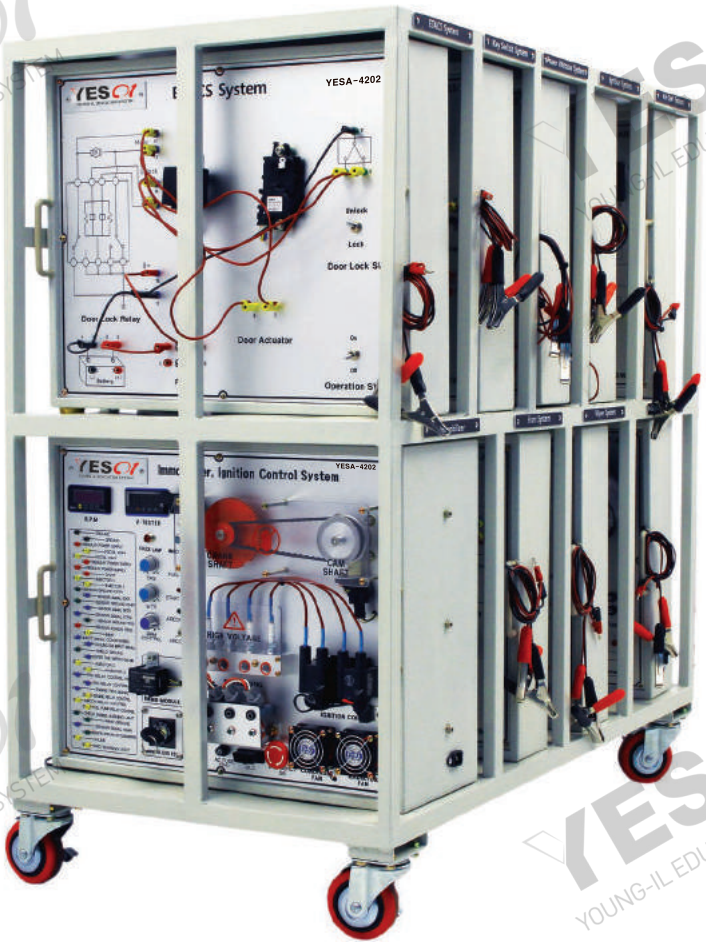
Specification

- Composition : 8 different Automotive component circuit with Grid Stand
  1) Wiper circuit, Key switch circuit
  2) Power window circuit, Horn system circuit, Cooling fan circuit
  3) Ignition circuit, Lighting circuit, Door lock circuit
- 2 independent stand, detachable modules available
- Size : Approx. 1,200 X 600 X 1,700 mm
- Weight : Approx. 250 kg

Training Contents

1) Wiper circuit practice module
   - Arrangement of parts of wiper and motor circuit test.
   - Theory education, circuit completion and test of wiper system.
   - Operating motor check by tester.
2) Key switch circuit practice module
   - Arrangement of parts of key switch and key switch circuit test.
   - Theory education, circuit completion and test of key switch system.
3) Window circuit practice module
   - Arrangement of parts of window and checking theory and operation by composing actual window circuit.
   - Theory education, circuit completion and test of window system.
   - Students can directly connect actual wiring and understand operation and its.
4) Horn circuit practice module
   - Test of horn system circuit.
   - Theory education, circuit completion and test of horn system.
5) Cooling fan circuit practice module
   - Test of cooling fan circuit.
   - Theory education, circuit completion and test of cooling fan.
6) Electronic ignition circuit practice module
   - Actual parts of entire DLI, motronic fuel injection system and additional education devices are installed to practice.
7) Headlight practice module
   - Test of headlight circuit.
   - Theory education, circuit completion and measurement practice of head light system.
8) ETACS system practice module
   - Circuit test of ETACS system.
   - Theory education, circuit completion and test of ETACS system.

Automotive Electrical Circuit Control Panel System YESA-4202



Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Use of own vehicle wires.
- Electric devices of each part of the vehicle are set at aluminium panel with power and wiring sockets.
- Sensors, circuits and connecting soc kets of each part are installed so that allows students to practice wiring and measure waveform.
- Students are manually able to connect wires to connector.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.

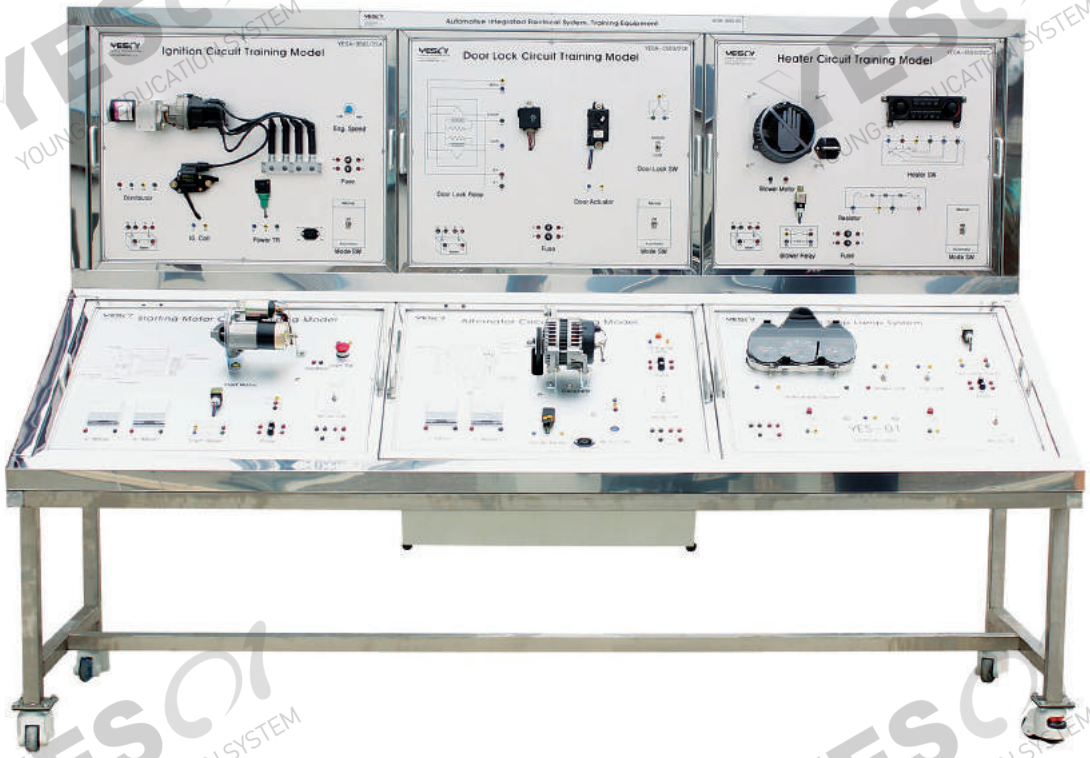
Specification

- Composition : Horn circuit, Head light circuit, Cooling fan circuit, Starter Circuit, Generator, Tail lamp and ignition circuit
- Portable storage-type device included
- 7 different Automotive component circuit can be used independently
- Size : Approx. 700 X 1,100 X 1,600 mm
- Weight : Approx. 250 kg

Training Contents

1) Tail lamp circuit module
   - Operation with completed circuit of tail lamp and brake light
2) Starter circuit practice module
   - Starter circuit test education
   - Checking whether it works by wiring
   - Diagnosis with V meter, A meter
3) Generator circuit practice module
   - Generator charging system education
   - Operate the generator with Single phase motor
   - V meter, A meter attached
4) Horn circuit practice module
   - Test of horn system circuit
   - Theory education, circuit completion and test of horn system
5) Cooling fan circuit practice module
   - Test of cooling fan circuit
   - Theory education, circuit completion and test of cooling fan
6) Head Light practice module
   - Theory education, circuit completion and test of head light

Automotive Electric Circuit Training Equipment_ 6 Different Type YESA-4221



Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Electric devices of each part of the vehicle are set at aluminium panel with power and wiring sockets.
- Sensors, circuits and connecting sockets of each part are installed so that allows students to practice wiring and measure waveform.
- Students are manually able to connect wires to connector.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.

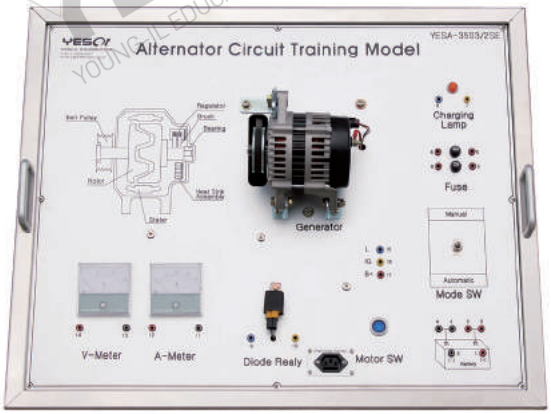
Specification

- Composition : 6 different Automotive component circuit with Grid Stand
  1) Heater Circuit, Ignition Circuit, Tail Lamp and Brake Lamp Circuit
  2) Door lock circuit, Generator Circuit, Start motor Circuit
- Independent stand table
- Size : Approx. 1,200 X 800 X 1,700 mm
- Weight : Approx. 200 kg

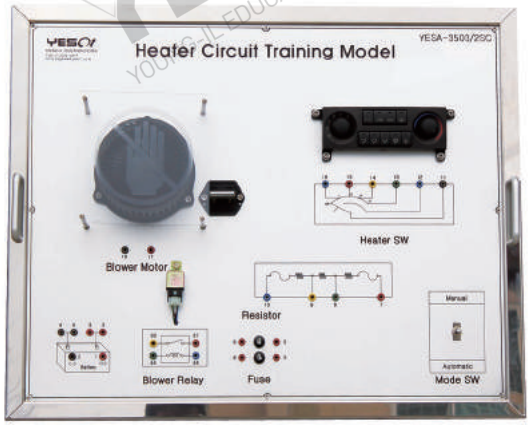
Training Contents

- Electronic ignition circuit practice module.
  - ME-Motronic is the newest DLI fuel injection system of bosch that electronically controls fuel and ignition system.
  - Actual parts of entire DLI, motronic fuel injection system and additional education devices are installed for practice.
  - By controlling injection time and ignition time of spark plug, students are able to diagnose and understand data changes of Input, Output of motronic system.
  - Practice of electric control function, various diagnosis device and data reading of motronic.
- Door lock system practice module.
  - Test of door lock system circuit.
  - Theory education of door lock system.
- Heater circuit practice module.
  - Test of heater circuit.
  - Theory education and circuit completion of heater system.
- Starting motor practice module.
  - Test of starting motor circuit completion.
  - Theory education of starting motor.
- Generator practice module.
  - Test of generator charging system circuit completion.
  - Theory education of generator charging system.
- Tail lamp, brake light practice module.
  - Test of taillight and brake lamp circuit.
  - Theory education, circuit completion and measurement of taillight and brake lamp circuit.

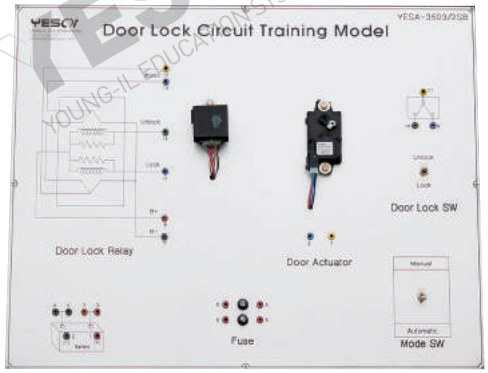
Alternator Circuit Training Model YESA-4221A



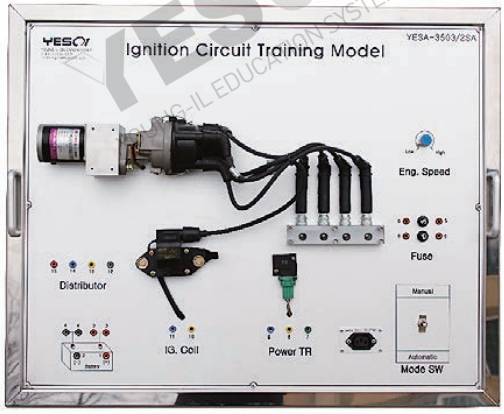
Heator Circuit Training Mode YESA-4221B



Door Lock Circuit Training Model YESA-4221C

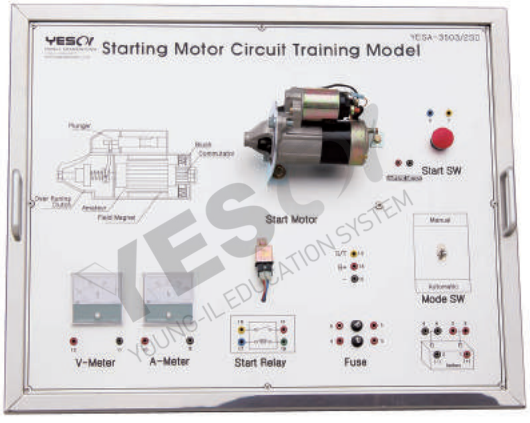


Ignition Circuit Training Model YESA-4221D



Tail and Stop Lamp Circuit Training Model YESA-4221E

Starting Motor Circuit Training Model YESA-4221F



Automotive Electric Circuit Training Equipment_ 6 Different Type YESA-4222

Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Use of own vehicle wires.
- Electric devices of each part of the vehicle are set at aluminium panel with power and wiring sockets.
- Sensors, circuits and connecting sockets of each part are installed so that allows students to practice wiring and measure waveform.
- Students are manually able to connect wires to connector.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.

Specification

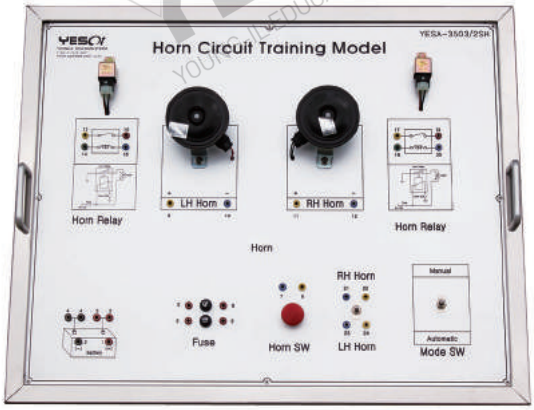
- Composition : 6 different Automotive component circuit with Grid Stand
  1) Lighting circuit, Horn system circuit, Cooling fan circuit
  2) Electric circuit, Wiper circuit, Power window circuit
- Independent stand
- Size : Approx. 1,200 X 800 X 1,700 mm
- Weight : Approx. 200 kg

Training Contents

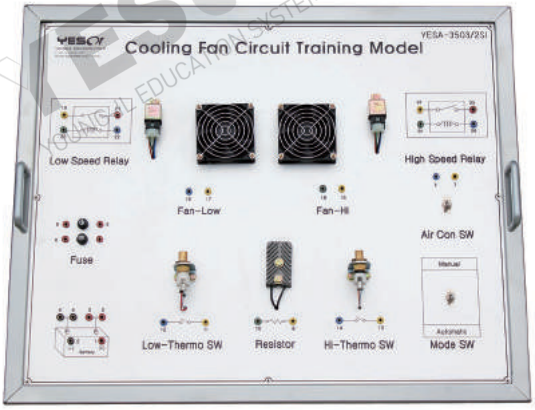
- Headlight practice module.
  - Test of headlight circuit.
  - Theory education of headlight system, circuit completion and measurement.
- Horn circuit practice module.
  - Test of horn system circuit.
  - Theory education of horn system, circuit completion and measurement.
- Cooling fan circuit practice module.
  - Test of cooling fan circuit.
  - Theory education of cooling fan system, test of circuit completion.
- Wiper circuit practice module.
  - Arrangement of wiper parts and test of motor circuit.
  - Theory education of wiper system, circuit completion and measurement.
  - Checking operation motor of wiper through tester.
- Window circuit practice module.
  - Checking theory and movement by arranging window parts and composing an actual window circuit.
  - Theory education of window system, circuit completion and measurement.
  - Students themselves can connect an actual wiring through connection points of window parts comprehend movement and operation state.
- Structure and relay of ECU, TCU and vehicle wiring display panel.

Head Light Circuit Training Model YESA-4222A

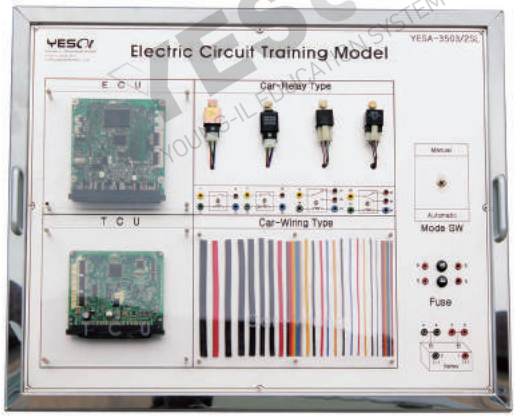
Horn Circuit Training Model YESA-4222B



Cooling Fan Circuit Training Model YESA-4222C

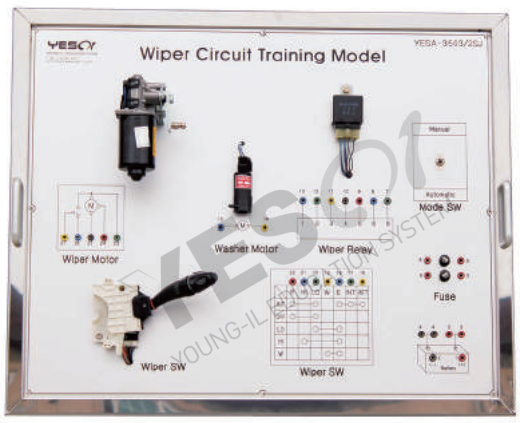


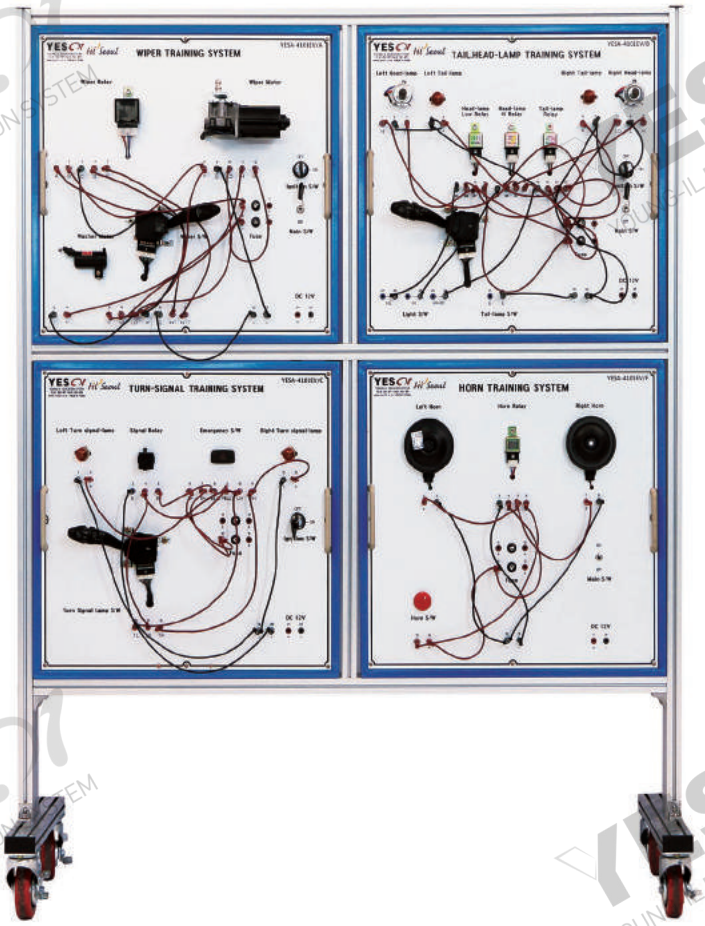
Electric Circuit Training Model YESA-4222D



Power Window Circuit Training Mode YESA-4222E

Wiper Circuit Training Model YESA-4222F





Feature

- Electric circuit device of vehicle is modularized so that students are able to receive various theory educations and do practices to understand vehicle electric circuit through electric wiring and measurement practice.
- Use of own vehicle wires.
- Electric devices of each part of the vehicle are set at aluminum panel with power and wiring sockets.
- Sensors, circuits and connecting sockets of each part are installed so that allows students to practice wiring and measure waveform.
- Students are manually able to connect wires to connector.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.

Specification

- Composition : 4 different Automotive component circuit with Stand
  1) Wiper Circuit, Tail Lamp, Headlight Circuit
  2) Direction light circuit, Horn Circuit
- Independent stand

Training Contents

1) Wiper circuit practice module
   - Arrangement of parts of wiper and motor circuit test.
   - Theory education, circuit completion and test of wiper system.
   - Operating motor check by tester.
2) Taillight and headlight practice module
   - Test for taillight and headlight circuit.
   - Theory education, circuit completion and test of taillight and headlight system.
3) Direction light circuit practice module
   - Test for Direction light circuit.
   - Theory education, circuit completion and test of Direction light circuit.
4) Horn circuit practice module
   - Test of horn system circuit.
   - Theory education, circuit completion and test of horn system.

DIS Ignition System_ Auto Fault YESA-4414

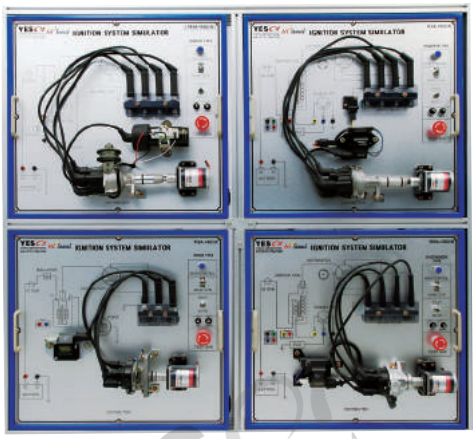
Feature

- Understanding DIS type of ignition's electrical circuit diagram
- The waveform can be measured by adjusting the speed at random
- Able to observe the order of the spark plug with eyes

Specification

- Composition : DIS Ignition coil 4, Crank Sensor, Spark Plug, Speed Type controller, 40W compact size motor
- Size : Approx. 600 X 200 X 300 mm
- Weight : Approx. 20kg

Ignition System Training Equipment YESA-4231



Feature

- The equipment allows to educate overall ignition systems such as composition and operation principles of various types of ignition systems.
- Compares the histories of 4 kinds of ignition systems to those of intake system, being practice training mode has educational function.
- Connection sockets are installed for each sensors, circuits and components so that it is able to help wiring practices and measure wave patterns.
- By manipulating the controller, able to check the waveformsin accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC-treated panel.
- Operated as automatic and manual selection by switch operating.

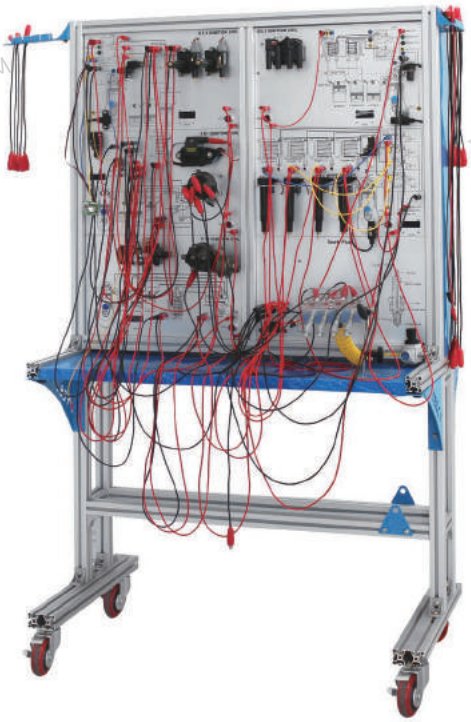
Specification

- Composition
  1) Carburetor Point ignition circuit system
  2) Suction type MPI, Kalman swirl system
  3) Intake system MPI AFS
  4) Intake system map sensor
  5) Independent stand
  6) 4 Kinds Ignition System
- Size : Approx. 1,200 X 600 X 1,800 mm
- Weight : Approx. 150 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : It is able to check failure by using variable simulation. (Variable RPM : 0 – 3000RPM)

Automotive Ignition System Training Equipment_ 5 Different Type_ Panel Type YESA-4237



Feature

- The educational equipment educates overall ignition systems such as composition and operation principles of various types of ignition systems
- Compares the histories of 6 kinds of ignition systems to those of suction system, being practice training mode has educational function.
- In the inspection mode of sensor value. able to inspect the measured values as change voltages and resistances of sensors. And through practice manual supplying understanding and.
- practices of sensors, can be trained to repair logically by trace repair.
- Able to check the overall system at a glance because the compositions of ignition system are installed on the panel and the power and wiring terminal attached.
- Connection sockets are installed for each sensors, circuits and components so that it is able to help wiring practices and measure wave patterns.
- By manipulating the controller, able to adjust intermittent resistance of each sensor.
- Students can understand current of the entire circuit, find out causes and changes and take actions.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

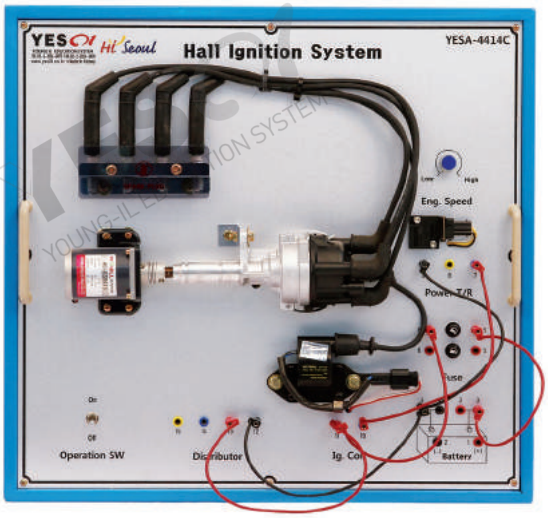
Specification

- Composition
  - 1) Carburetor and Point ignition circuit system
    - – Spark plug, Power distributor of point system, Variable motor for the distributor, Diagnosis jack, Key box, Function–selection switch
    - – Ignition device pin point, Injector device, Carburetor
  - 2) Suction type MPI, Kalman swirl system
    - – Power distributor type, Kalman swirl system, Optical type
    - – DLI type, Kalman swirl system, Optical type
    - – 2 in 1 set. Ignition system as 2 arrays
    - – ECU, AFS, TPS, BPS, MPS, WTS, O2, ISC, ATS, Injector, Spark plug, Power transistor, Power distributor, Variable motor for the distributor, AFS suction motor, Diagnosis jack, Control relay
  - 3) Suction system MPI AFS
    - – DLI–2coil, magnetic type
    - – DIS –4coil, magnetic type
    - – 2 in 1 set. ignition system as 2 arrays
    - – ECU, AFS, TPS, WTS, ISC, ATS, Injector, Spark plug, AFS suction motor, Diagnosis jack, Control relay
  - 4) Suction system map sensor
    - – DLI–2coil, hall sensor type
    - – DIS –4coil, hall sensor type
    - – 2 in 1 set. ignition system as 2 arrays
    - – ECU, AFS, TPS, WTS, ISC, ATS, Injector, Spark plug, AFS suction motor, Diagnosis jack, Control relay, Key box
- Size : Approx. 1800 X 600 X 1800mm
- Weight : Approx. 200kg

Training Contents

- Measure the wave patterns and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs(1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : can check failure by using variable simulation. (Variable RPM : 0 – 3,000RPM)

Hall Ignition System YESA-4232



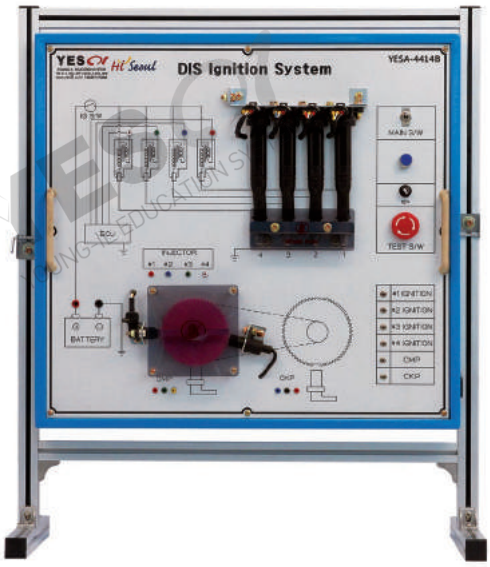
Feature

- Understanding a distributor type of hall ignition electrical circuit diagram.
- The waveform can be measured by adjusting the speed arbitrarily.
- It allows to see the spark plug procedure directly.

Specification

- Composition : Hall type of distributor, Ignition coil, Spark Plug, Speed adjustable controller, 40W small motor
- Size : Approx. 600 X 200 X 300 mm
- Weight : Approx. 20 kg

DIS Ignition System YESA-4233



Feature

- Understanding DIS type of ignition's electrical circuit diagram.
- The waveform can be measured by adjusting the speed arbitrarily.
- It allows to see the spark plug procedure directly.

Specification

- Composition : DIS Ignition coil 4, Crank Sensor, Spark Plug, Speed adjustable controller, 40W small motor
- Size : Approx. 600 X 200 X 300 mm
- Weight : Approx. 20 kg

Magnetic Ignition System YESA-4234

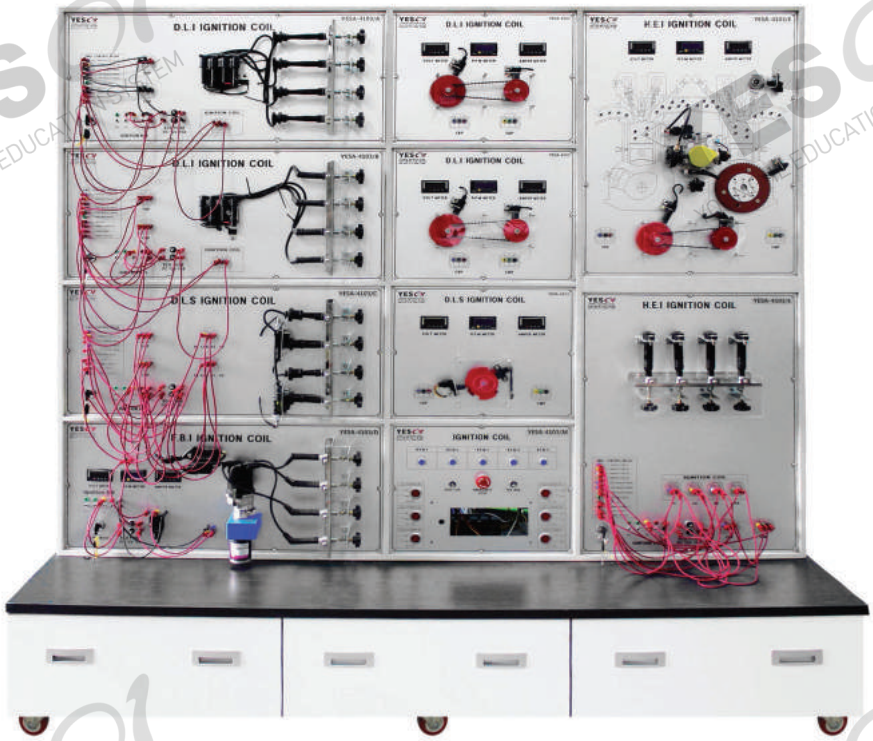
Feature

- Understanding magnetic type of ignition's electrical circuit diagram.
- The waveform can be measured by adjusting the speed arbitrarily.
- It allows to see the spark plug procedure directly.

Specification

- Composition : Magnetic Type Of Router, Ignition Coil, Spark Plug, S Speed adjustable controller, 40W small motor
- Size : Approx. 600 X 200 X 300 mm
- Weight : Approx. 20 kg

Ignition System Panel Type Training Equipment YESA-4235



Feature

- The equipment allows to educate overall ignition systems such as composition and operation principles of various types of ignition systems.
- Compares the histories of 5 kinds of ignition systems to those of intake system, being practice training mode has educational function.
- In the inspection mode of sensor value, it is able to inspect the measured values as change voltages and resistances of sensors. And through practice manual supplying understanding and practices of sensors, can be trained to repair logically by trace repair.
- Able to check the overall system at a glance because the compositions of ignition system are installed on the panel and the power and wiring terminal attached.
- Connection sockets are installed for each sensors, circuits and components so that it is able to help wiring practices and measure wave patterns.
- By manipulating the controller, able to check the waveformsin accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

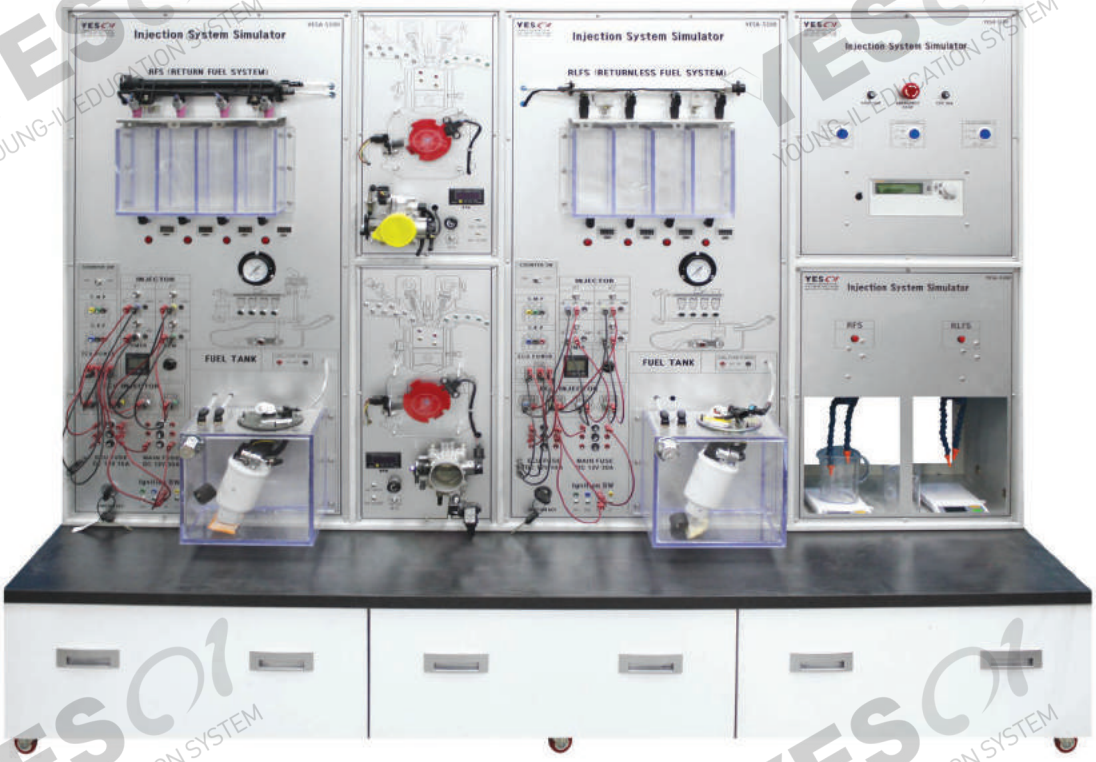
Specification

- Composition
  - 1) Carburetor Point ignition circuit system
    - – Spark plug, Power distributor of point system, Variable motor for the distributor, Diagnosis jack, Key box, Function–selection switch
    - – Ignition device pin point, Injector device, Carburetor
  - 2) Suction type MPI, Kalman swirl system
    - – Power distributor type, Kalman swirl system, Optical type
    - – DLI type, Kalman swirl system, Optical type
    - – 2 in 1 set, Ignition system as 2 arrays
    - – Injector, Spark plug, Power transistor, Power distributor, Variable motor for the distributor, Diagnosis jack, Control relay
  - 3) Intake system MPI AFS
    - – DLI –2coil, magnetic Type
    - – 2 in 1 set, ignition system as 2 arrays
    - – ECU, AFS, TPS, WTS, ISC, ATS, Injector, Spark plug, AFS intake motor, Diagnosis jack, Control relay
  - 4) Intake system map sensor
    - – DIS –4coil, hall sensor type
    - – 2 in 1 set, ignition system as 2 arrays
    - – ECU, Spark plug, Diagnosis jack, Control relay, Key box
  - 5) Drawer type storage space 3ea
  - 6) 5 Kinds Ignition
- Size : Approx. 1,800 X 600 X 1,800 mm
- Weight : Approx. 200 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : It is able to check failure by using variable simulation. (Variable RPM : 0 – 3000RPM)
- Flame intensity measurement by adjusting the ignition gap.

Fuel Injection Control Board System YESA-4236



Feature

- The simulator allows students to learn structure of fuel supply system, control of injection amount and types of injection.
- Understanding the overall structure of the engine injection system.
- Understanding how to control injection amount and adjust injection pressure according to changes of engine drive conditions.

Specification

- Composition
  - 1) Injection System Module with Auto Fault
    - Installment of 2 kinds of injection system (fuel return system, fuel return less system)
    - Control of fuel pressure regulator and injecting place pressure changes
    - Easy to measure output waveform and practice injection system wiring
    - Able to check injection state and difference of injection types (independence Type, group Type, sequential Type)
    - Able to measure and compare injection quantity (vol.) using mass cylinder
    - Able to measure actual injection period of each injector. Throttle body is installed
    - Electric mass for injection amount measurement (wt.)
    - Injection duration display of each injector
    - Hypothetic cooling water temperature display (for checking change of injection amount depending on cooling water temperature changes)
    - injection number display during injection amount measurement (for calculating quantity of single injection)
  - 2) Drawer type storage space 3ea
- Size : Approx. 2,400 X 600 X 2,100 mm
- Weight : Approx. 350 kg

Training Contents

- Understanding of principle and method of injection amount control and measuring amount of injected fuel.
- Practice of injection system wiring and circuit inspection.
- Understanding of Injector Dead Time.
- Understanding changes of control value and output value of injection system, analyzing waveforms.
- Understanding power supply of engine and control state according to ignition switch operation.

Automotive Ignition Circuit Control System with various Sensor YESA-4238

Feature

- The equipment allows to educate overall ignition systems such as composition and operation principles of various types of ignition systems.
- Compares the histories of 4 kinds of ignition systems to those of intake system, being practice training mode has educational function.
- In the inspection mode of sensor value, it is able to inspect the measured values as change voltages and resistances of sensors. And through practice manual supplying understanding and practices of sensors, can be trained to repair logically by trace repair.
- Able to check the overall system at a glance because the compositions of ignition system are installed on the panel and the power and wiring terminal attached.
- Connection sockets are installed for each sensors, circuits and components so that it is able to help wiring practices and measure wave patterns.
- By manipulating the controller, able to check the waveformsin accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC-treated panel.

Specification

- Composition
  - 1) Carburetor Point ignition circuit system
    - – Spark plug, Power distributor of point system, Variable motor for the distributor, Diagnosis jack, Key box, Function-selection switch
    - – Ignition device pin point, Injector device, Carburetor
  - 2) Suction type MPI, Kalman swirl system
    - – Power distributor type, Kalman swirl system, Optical type
    - – DLI Type, Kalman swirl system, Optical type
    - – 2 in 1 set, Ignition system as 2 arrays
    - – ECU, AFS, TPS, BPS, MPS, WTS, O2, ISC, ATS, Injector, Spark plug, Power transistor, Power distributor, Variable motor for the distributor, AFS suction motor, Diagnosis jack, Control relay
  - 3) Intake system MPI AFS
    - – DLI -2coil, magnetic type
    - – DLI -2coil, magnetic Type
    - – DIS -4coil, magnetic Type
    - – 2 in 1 set, Ignition system as 2 arrays
    - – ECU, AFS, TPS, WTS, ISC, ATS, Injector, Spark plug, AFS intake motor, Diagnosis jack, Control relay
  - 4) Intake system map sensor
    - – DLI -2coil, hall sensor type
    - – DIS -4coil, hall sensor type
    - – 2 in 1 set, ignition system as 2 arrays
    - – ECU, AFS, TPS, WTS, ISC, ATS, Injector, Spark plug, AFS suction motor, Diagnosis jack, Control relay, Key box
  - 5) 4 Cabinet type storage space with 2 door
- Size : Approx. 1,800 X 600 X 1,800 mm
- Weight : Approx. 200 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : It is able to check failure by using variable simulation. (Variable RPM : 0 – 3000RPM)

Gasoline Fuel Injection Control System_ Auto Fault YESA-4240

Feature

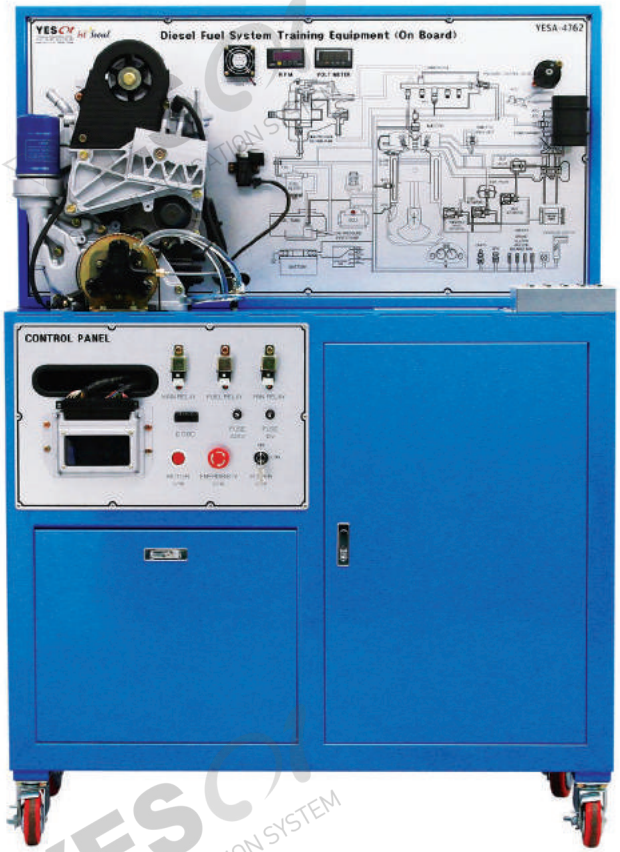
- The equipment allows to educate overall ignition systems such as composition and operation principles of various types of ignition systems and injection system.
- It allows to check the overall ignition system at a glance by attachment of parts, power and wiring terminal on the panel.
- Connection sockets are installed for each sensors, circuits and components so that is able to help wiring practices and measure wave patterns.
- By manipulating the controller, able to check the waveforms in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

Specification

- Composition : Fuel Tank, Fuel Pump, pressure regulators, ECU, Injector, fan, crank gear, cam gear, tester for fuel injection
  1) Ignition circuit : Coil, ignition plug, air intake
  2) Sensor : Temperature sensor, oxygen sensor, air flow sensor, air temperature sensor, an engine temperature sensor, exhaust gas sensor, crank sensor and a cam sensor, Power supply
- Cabinet Type storage space with 2 door
- Auto Fault Function
- Size : Approx. 1,300 X 600 X 1,600 mm
- Weight : Approx. 100 kg, key box

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Flame intensity measurement by adjusting the ignition gap.



Feature

- The equipment allows to educate overall ignition systems such as composition and operation principles of various types of CRDI injection system.
- It allows to check the overall CRDI system at a glance by attachment of parts, power and wiring terminal on the panel.
- Connection sockets are installed for each sensors, circuits and components so that is able to help wiring practices and measure wave patterns.
- By manipulating the controller, able to check the waveforms in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC-treated panel.

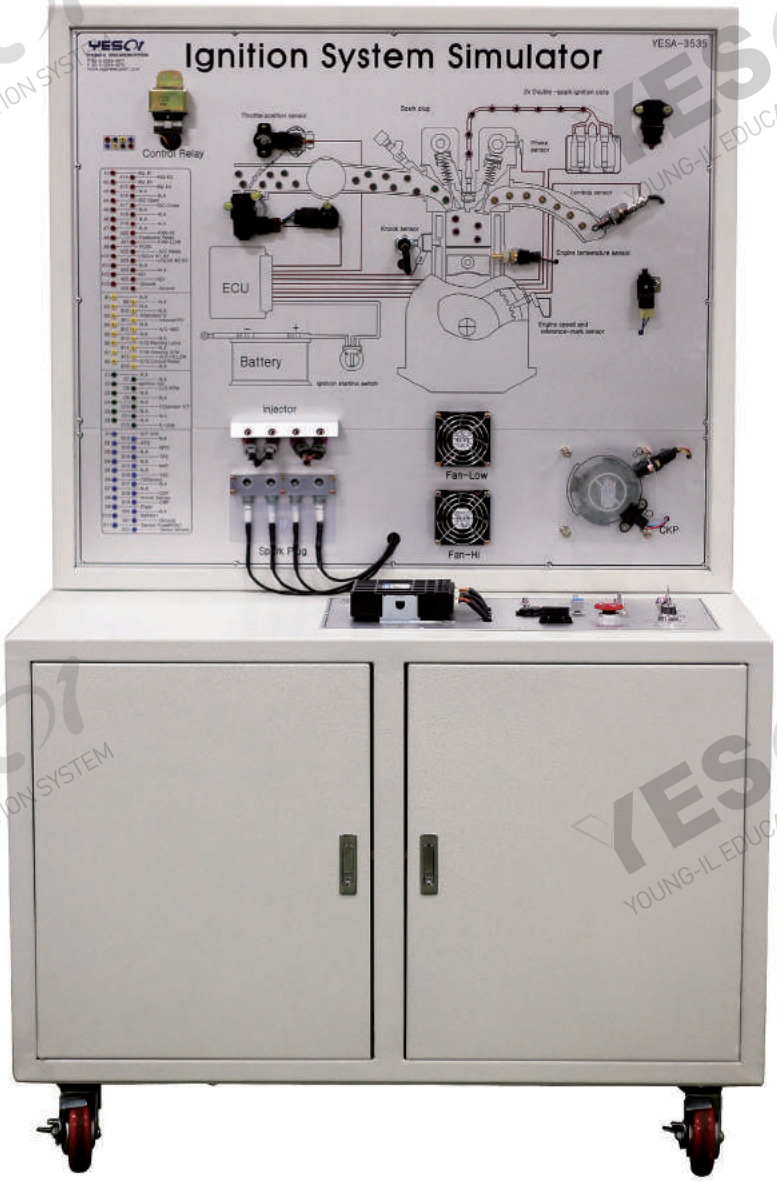
Specification

- Composition
  - CRDI Diesel engine injection
  - Includes all components used in the CRDI injection
  - Displays fuel delivery cycle from tank to tube (tester) and all sensors related diesel injection circuit
  - Configuration: operation key, voltage display, LED indicators for failure, a fuse box for all parts of fuel pumps, fuel tank, ECU, an injector, a fan, a crank gear, the cam gear and the tester for displaying the fuel injection
  - Measure voltage of resistance and all of the sensor (camshaft sensor and the crankshaft sensor, oxygen sensor, the air inlet sensor, a temperature sensor, a water temperature sensor) by using multimeter
  - All circuits for the electronic control ECU
  - Sensor measurements: temperature sensor, oxygen sensor, air flow sensor, air temperature sensor, an engine temperature sensor, exhaust gas sensor, crank sensor and a cam sensor
  - power supply : 220V~ DC12V
  - LED Fault indicate sensor can be measured by multimeter
  - Stand with wheel
- Auto Fault Function
- Cabinet Type storage space with 2 door
- Size : Approx. 1,300 X 600 X 1,600 mm
- Weight : Approx. 100 kg, key box

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.

Gasoline Ignition System Simulator_ Auto Fault YESA-4242



Feature

- An effective educational unit that allow students to understand structure of ignition system devices of gasoline vehicle and operation principles.
- Parts of ignition system are set on a panel with power and wiring terminal, being able to be seen the overall system at a glance.
- It is made with LED so that the entire flow of fuel and air can be easily seen, also bringing concentration and great display.
- By installment of connection terminals at sensors, circuits and parts, students are able to practice wiring and measure waveform.
- By manipulating the controller, able to check the waveforms and changes in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.

Specification

- Composition : ECU, spark plug, fan, crank sensor, oxygen sensor, throttle body sensor, knock sensor, injector, relay, etc.
- Cabinet type storage space with 2 door
- Size : Approx. 1,000 X 800 X 1,600 mm
- Weight : Approx. 80 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.

Immobilizer Ignition Control Simulator_ Case Type YESA-4260

Feature

- An effective educational unit that allow students to understand structure of ignition system devices and operation principles.
- Parts of ignition system are set on a panel with power and wiring terminal, being able to be seen the overall system at a glance.
- By manipulating the controller, able to check the waveforms and changes in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

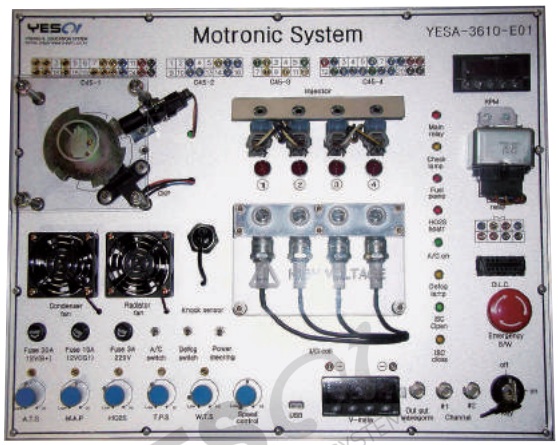
Specification

- Composition : Crank sensors, injectors, spark plugs, fan, relay, RPM meter, self– diagnosis jack, emergency switches, fuses, Key switch, ATS, TPS, WTS, MAP, HO2S
- Size : Approx. 400 X 200 X 400 mm
- Weight : Approx. 25 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : can check failure by using variable simulation. (Variable RPM : 0 – 3,000RPM)

Motronic System Simulator_ Case Type YESA-4251



Feature

- An effective educational unit that allow students to understand structure of Motronic system devices and operation principles.
- Parts of ignition system are set on a panel with power and wiring terminal, being able to be seen the overall system at a glance.
- By manipulating the controller, able to check the waveforms and changes in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

Specification

- Composition : Crank sensors, injectors, spark plugs, fan, relay, RPM meter, self– diagnosis jack, emergency switches, fuses, Key switch, ATS, TPS, WTS, MAP, HO2S
- Case Type
- Size : Approx. 400 X 200 X 400 mm
- Weight : Approx. 25 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : can check failure by using variable simulation. (Variable RPM : 0 – 3,000RPM)

Gasoline Ignition System Simulator_ Auto Fault YESA-4252

Feature

- An effective educational unit that allow students to understand structure of ignition system devices and operation principles.
- By installment of connection terminals at sensors, circuits and parts, students are able to practice wiring and measure waveform.
- By manipulating the controller, able to check the waveforms and changes in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

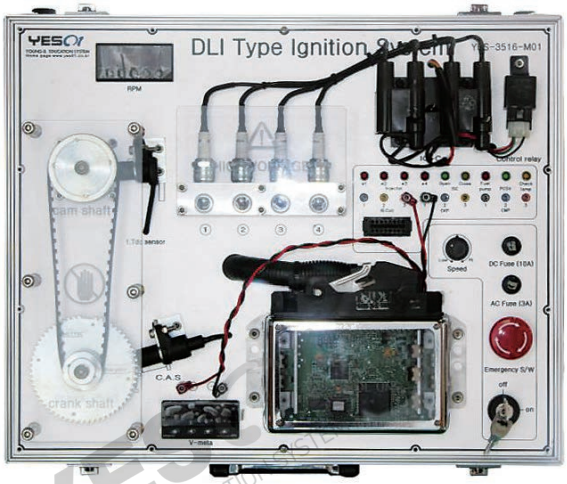
Specification

- Composition : Crank sensors, injectors, spark plugs, fan, relay, RPM meter, self– diagnosis jack, emergency switches, fuses, Key switch, ATS, TPS, WTS, MAP, HO2S
- Size : Approx. 400 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : can check failure by using variable simulation. (Variable RPM : 0 – 3,000RPM)

DLI Ignition System Simulator_ Auto Fault YESA-4253



Feature

- An effective educational unit that allow students to understand structure of ignition system devices and operation principles.
- Parts of ignition system are set on a panel with power and wiring terminal, being able to be seen the overall system at a glance.
- By manipulating the controller, able to check the waveforms and changes in accordance with RPM speed.
- Students are able to understand flow of entire circuit, find out what causes fault and how to repair.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel.

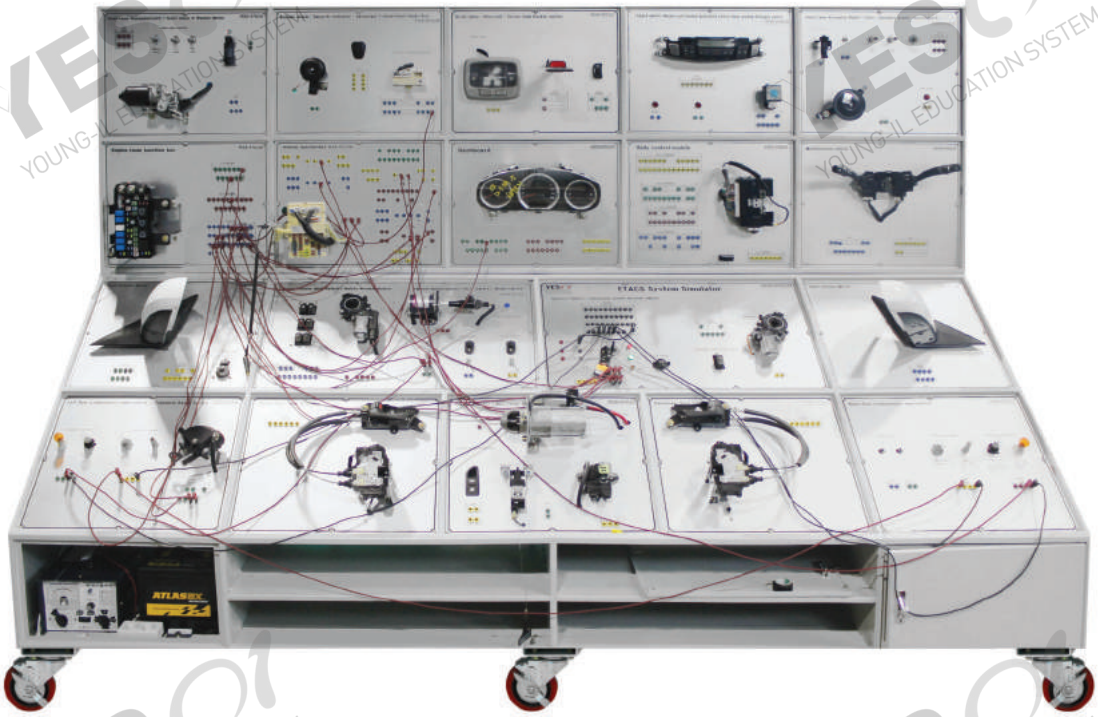
Specification

- Composition : Crank sensors, injectors, spark plugs, fan, relay, RPM meter, self– diagnosis jack, emergency switches, fuses, Key switch, ATS, TPS, WTS, MAP, HO2S
- Size : Approx. 500 X 300 X 400 mm
- Weight : Approx. 40 kg

Training Contents

- Measure the waveforms and check the changes according to RPM speed.
- Engine operation : check the operation of the injector and sparks in the order of switch plugs (1, 3, 4, 2) and inspect whether normal operation of each sensor.
- Failure code : the device allows to inspect failures on purpose.
- Sensor inspection : can check failure by using variable simulation. (Variable RPM : 0 – 3,000RPM)

Automotive Electric Circuit Simulator_ 19 Kinds, BCM YESA-4300



Feature

- Educational equipment for BCM system education and maintenance which is designed to help understanding of vehicle electric circuit easily, theoretical education and laboratory exercises.
- Use the specific wire in the whole vehicle.
- Electric device mounted in each partand attach the power supply and wiring terminals then the experiment can be proceeded.
- Connection sockets are installed for each sensors, circuits and components so
- that it is able to help wiring practices and measure wave patterns.
- The circuit is for students who can directly experiment the connector connection.
- Students can understand current of the entire circuit, find out causes and changes and take actions.
- Random failures can be operated by failure diagnosis, laboratory exercises action is possible.

Specification

- Composition
  1) Battery–safe control system : DC12V, 20A uses, taillights/headlight circuit, 8 LED, Combination Switch, KEY ASSY, indoor junction box, BCM module, 4P relay, door switches, clusters, battle circuit, Check terminal installed in each part
  2) keyless receiver systems (anti–theft system) : DC12V/20A used, 4P relay, keyless receiver module, ETACS module, siren, KEY ASSY, turn signal lamps, hazard switch, turn signal relay, door switches, clusters, hood switch, trunk unlock switch, Door unlock switch, start relay, indoor junction box, a radio transmitter, electric circuit, trunk switch, trunk open indicators, Check terminal installed in each part
  3) The wiper control system : DC12V/20A used, KEY ASSY, washer motor, wiper motor, Combination Switch, ETACS module, an indoor junction box, position lamps, electric circuit, Check terminal installed in each part
  4) Window Motor Control System : DC12V/20A used, indoor junction box, BCM module, 4P relay, window main switch
  5) Power Door Locks Control System : DC12V/20A used, ETACS module junction box room, the door lock actuators Grounds, door switch, turn signal lamp circuit, hazard switch, relay emergency lighting, window main switch module, door open indicators, Car Speed Sensors, car speed meter, Check terminal installed in each part
  6) Various lamp control system : a taillight lamp, headlamp high beam/low beam lamps, such as indoors, safety belt warning light, ETACS module, door switches, safety belt, switches,Check terminal installed in each part
  7) connector, electric circuit, CHECK terminal installations
- Size : Approx. 2,400 X 800 X 2,000 mm
- Weight : Approx. 450 kg

Training Contents

- Various items of self–diagnosis.
- Accomplishing each circuit and test.

Automotive Electric and Electronic Control Trainer_ 8 Types YESA-4301

Feature

- Modulized electric circuit device of an automobile so that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices of each part of the car installed on the aluminum panel and the power and wiring terminal attached.
- Installed connection terminals at each sensor, circuit and component so that can conduct wiring practices and measuring wave patterns.

Specification

- Composition
  - 1) Practice module for Starter motor circuit
  - 2) Practice module for Generator circuit
  - 3) Practice module for Wiper circuit
  - 4) Practice module for Window circuit
  - 5) Practice module for electronic ignition circuit
  - 6) Practice module for multifunctional circuit
  - 7) Door actuators on left, right
  - 8) BCM control Type
    - 4 Cabinet type storage space with 2 door
- Size : Approx. 1,000 X 1,000 X 1,600 mm
- Weight : Approx. 300 kg

Training Contents

- Accomplishing each circuit and test.
- Understanding the circuit and actuator.
- Connect each terminals then test, inspect.
- Theoretical education such as Function, polarity, connected circuit and practical examination.

Automotive BCM and IMS Simulator_ Auto Fault YESA-4310

Feature

- Educational equipment for BCM(Body Control Module) and IMS(Integrated Memory System) System's theory educations and practices.
- Used the original wiring of the whole parts of the automobile.
- Able to measure and analyze the sensors and actuator with a diagnostor.
- Each sensor can be forced to drive and operate and easy to use for training in failure, diagnosis, action.
- Power Seat, Seat steering, side mirror.

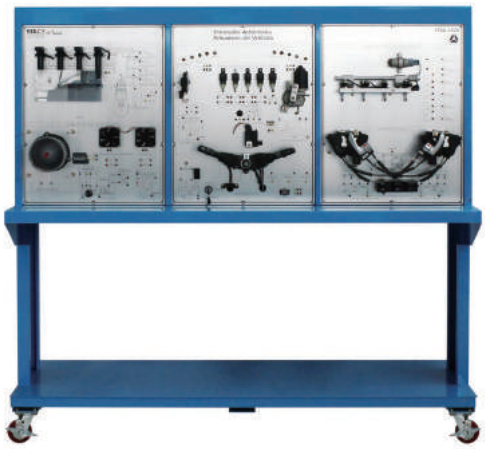
Specification

- Composition : BCM, IMS, ETACS System
- Cabinet type storage space with 4 door
- Size : Approx. 2,000 X 800 X 1,700 mm
- Weight : Approx. 250 kg

Training Contents

- Accomplishing each circuit and test.
- Each element with a diagnostor.
- Component test with a diagnostor.

Gasoline Engine Fuel Injection System Simulator_ Auto Fault YESA-4763



Feature

- The educational equipment educates overall ignition systems such as composition and operation principles of various types of ignition systems and injection system.
- Able to check the overall system at a glance because the compositions of ignition system are installed on the panel and the power and wiring terminal attached
- Connection sockets are installed for each sensors, circuits and components so that it is able to help wiring practices and measure wave patterns
- By manipulating the controller, able to adjust intermittent resistance of each sensor.
- Students can understand current of the entire circuit, find out causes and changes and take actions.
- The panel composing the ignition circuit is made with aluminum CNC–treated panel

Specification

- Composition : Fuel Tank, Fuel Pump, pressure regulators, ECU, Injector, fan, crank gear, cam gear, tester for fuel injection, Ignition circuit : Coil, ignition plug, air intake
- Sensor : Temperature sensor, oxygen sensor, air flow sensor, air temperature sensor, an engine temperature sensor, exhaust gas sensor, crank sensor and a cam sensor Power supply
- Size : Approx. 1300 X 600 X 1600mm
- Weight : Approx. 100kg, key box

Training Contents

- Measure the wave patterns and check the changes according to RPM speed
- Engine operation : check the operation of the injector and sparks in the order of switch plugs(1, 3, 4, 2) and inspect whether normal operation of each sensor
- Failure code : the device allows to inspect failures on purpose
- Sensor inspection : can check failure by using variable simulation

Automotive Centrol Locking System_ Auto Fault YESA-4311

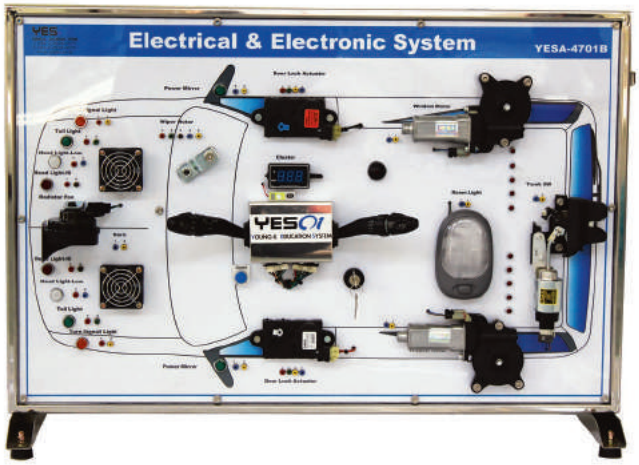
Feature

- Educational equipment for ETAC System's theory educations and practices.
- Used the original wiring of the whole parts of the automobile.
- Attached sensor and actuator allow student to measure the input/ output data.

Specification

- Composition : Automatic Light Sensor, Automatic Locks, Burglar Alarms, Wiper Motor, Power Window
- Size : Approx. 2,400 X 600 X 1,700 mm
- Weight : Approx. 300 kg

Automotive ETACS control system with mobile phone YESA-4312



Feature

- Educational equipment for ETAC System's theory educations and practices.
- Used the original wiring of the whole parts of the automobile and control that parts by Mobile phone.
- attached sensor and actuator allow student to measure the input/ output data.

Specification

- Composition : Automatic light sensor, automatic locks, burglar alarms, Wiper motor, the power window
- Size : Approx. 1,000 X 500 X 700 mm
- Weight : Approx. 100 kg

Feature

- Educational equipment for BCM and IMS System's theory educations and practices.
- Used the original wiring of the whole parts of the automobile.
- Able to measure and analyze the sensors and actuator with a diagnostor.
- Each sensor can be forced to drive and operate and easy to use for training in failure, diagnosis, action.
- Stand and components are in actual vehicle size.

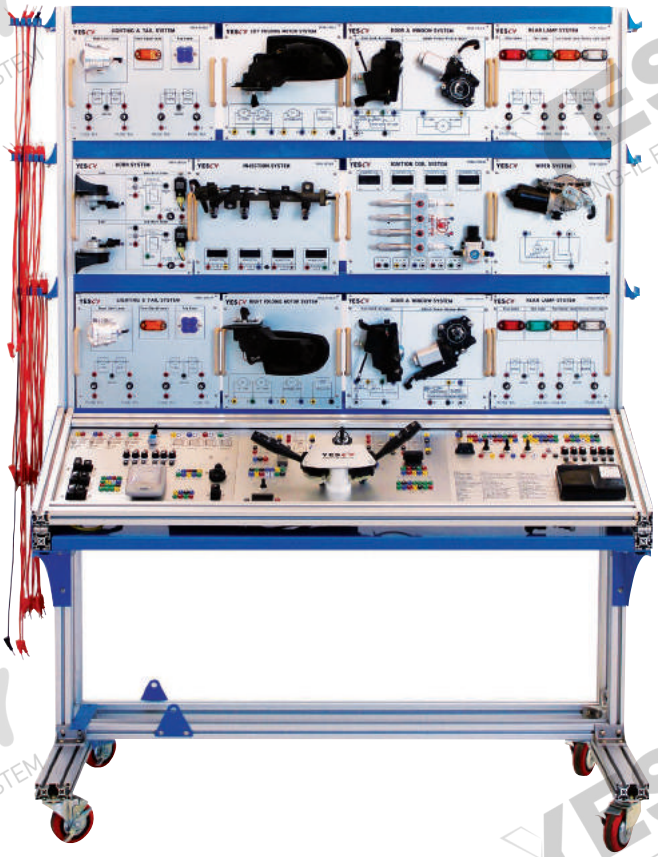
Specification

- Composition : BCM, IMS, ETACS System
- Up to 20 kinds of fault insertion can be available.
- 20 Faults are Recline sensor, Height sensor, Tilt sensor, Slide sensor, Front limit switch 1, Rear limit switch 1, Front limit switch 2, Rear limit switch 2, Tilt motor, Slide motor, Recline(F), Recline(R), Height (UP), Height (DOWN), Tilt(F), Tilt (DOWN), Slide (F), Slide (R), AUTO Switch and P Switch
- Size : Approx. 1,800 X 1,000 X 1,500 mm
- Weight : Approx. 180 kg

Training Contents

- Accomplishing each circuit test.
- Each element with a diagnostor.

Advanced Automotive Electric Circuit Training System YESA-4320



Feature

- The educational equipment for Automotive Electric Circuit System and consist of each module.
- Electronic circuit experiment system should be designed for students who can demonstrate the wiring diagram.
- Each terminal which is supplied by the Power should be connected to both the other terminal from DC power supply and the battery.
- Components used in this unit should be from an Actual vehicle.
- There is a basic circuit in module panel so it is easy to demonstrate.
- Light circuit lab module, side mirrors folding Practice module, door/window Practice module, horn system module, input switch module and multi–function input switch modules should be composed.
- Electronics Circuit module case mustbe plastic material, shall attachthe handle.
- Compact designed aluminum profile stand.

Specification

- Composition
  - 1) Light circuit practice module
    - – Made by LED light system (Head light, Turn signal, Taillight)
    - – Able to carry out each circuit curriculum, also able to operate by connect terminal
    - – Experiment panel should be carved in AL coating panel and printed
    - – Consist of a headlight, a multi–function switches, relays, connection terminals and so on.
  - 2) Side Mirror folding practice module
    - – Arrangement of parts of Side Mirror folding
    - – Consist of a folding set, a connect terminal, side mirror folding switch
  - 3) Door/ Window circuit practice module
    - – Arrangement of parts of Door/Window and checking theory and operation by composing actual window circuit
    - – Consist of door actuator, window motor connect terminal, side mirror door switch
  - 4) Horn circuit practice module
    - – Test of horn system circuit
    - – Theory education, circuit completion and test of horn system
  - 5) Ignition practice module
    - – Test of Ignition practice module
    - – Consist of ignition plug, Gap measuring device, air intake, Vmeasuring Device
  - 6) Injection practice module
    - – Test of Injection practice
    - – Consist of 4injector, delivery pipe, injector Voltage Measuring Device
  - 7) Multi function input switch module
    - – Test of Multichannel input switch
    - – Consist of multi function switch, key switch, emergency switch, connector terminal
- Size : Approx. 300 X 300 X 200 mm

Automotive Sensor Measuring System YESA-4330

Feature

- A unit through which students are able to learn theory and operation functions of automobile sensors systematically and effectively.
- Sensors are detachable so that other sensors which are same kinds with the originals can be attached for wiring and measurement practice.
- Measure the sensors in accordance with temperature resistance of sensors by a temperature switch and a thermostat.
- A practice module is manufactured for each and every single car sensor.
- Function of measuring and training operation voltage, resistance, pulse, AC wave form by multimeter, oscilloscope, diagnotor.
- Normal data and error data at each part of sensors can be compared.
- All sensors used are same with those of an actual vehicle.

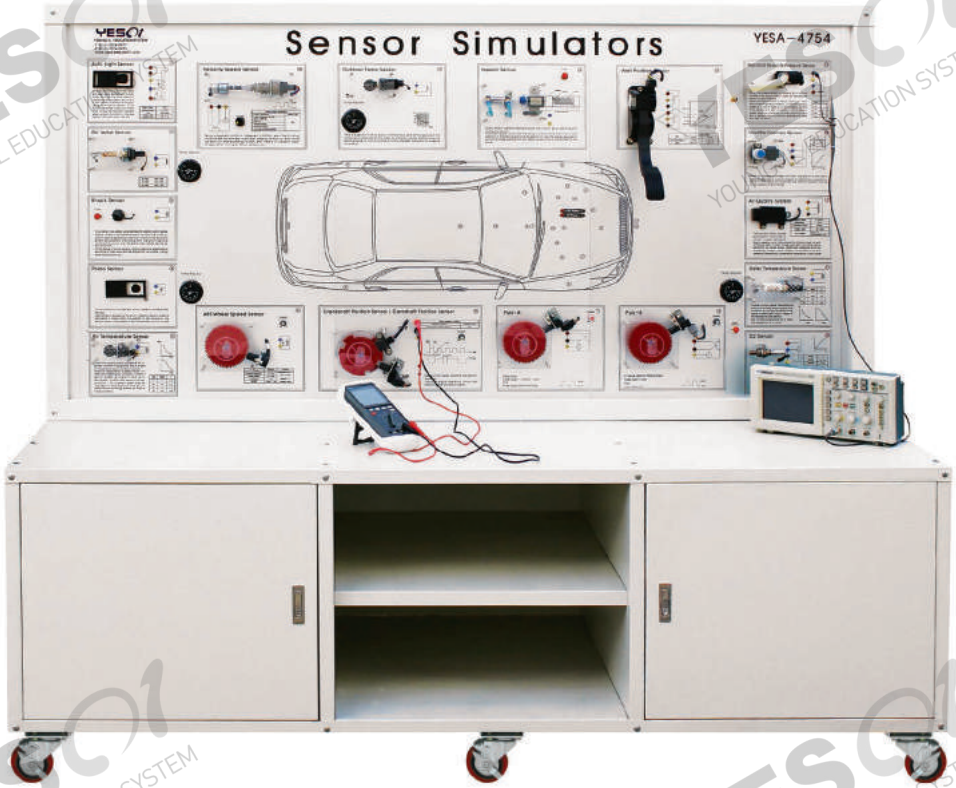
Specification

- Composition : Crank angle sensor, A/T pulse generator sensor, cam position sensor, ABS wheel sensor, humidity sensor, AQS sensor, Engine temperature sensor, Automatic light sensor, knock sensor, speed sensor, Accelerator position sensor, oxygen sensor, throttle position sensor, air flower sensor, map sensor, safety sensor
- Size : Approx. 1,900 X 600 X 1,900 mm
- Weight : Approx. 200 kg

Training Contents

- Measuring the voltage changes in illumination Auto Light Sensor Practice.
- Oil Temperaturesensor practiceaccording to temperature change.
- knock sensor Practice with push-button.
- photosensor Practice according to the brightness of the light.
- Practice intake air temperature sensor as a function of temperature.
- ABS wheel speed sensor Practice according to wheel speed.
- pulse generator A Practice according to the speed change by using the speed control dial and waveform measurements and Practice.
- pulse generator BPracticeaccording to the speed change by using the speed control dial and waveform measurements and Practice.
- crankshaft position sensor and camshaft position sensor voltage waveformPractice by using The speed control dial.
- oxygen sensor exercise by measuring the voltage according to the state.
- coolant temperature sensor Practice by measuring the voltage and resistance according to the temperature change.
- AQS(toxic gas detection equipment) Practice in accordance with the hazardous gas detection Practice.
- throttle position sensor Practice by measuring the voltage according to the throttle position.
- MAP sensor Practiceby measuring the voltage in response to changes in (manifold absolute pressure sensor) pressure.

Automotive Sensor Simulator_ Panel YESA-4331



Feature

- A unit through which students are able to learn theory and operation functions of automobile sensors systematically and effectively.
- Sensors are detachable so that other sensors which are same kinds with the originals can be attached for wiring and measurement practice.
- Measure the sensors in accordance with temperature resistance of sensors by a temperature switch and a thermostat.
- A practice module is manufactured for each and every single car sensor.
- Function of measuring and training operation voltage, resistance, pulse, AC wave form by multimeter, oscilloscope, diagnotor.
- Normal data and error data at each part of sensors can be compared.
- All sensors used are same with those of an actual vehicle.

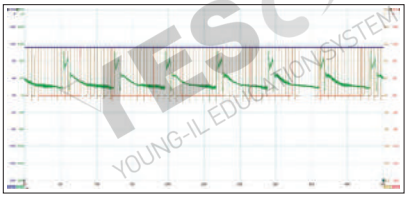
Specification

- Composition : Crank angle sensor, A/T pulse generator sensor, cam position sensor, ABS wheel sensor, humidity sensor, AQS sensor, Engine temperature sensor, Automatic light sensor, knock sensor, speed sensor, Accelerator position sensor, oxygen sensor, throttle position sensor, air flower sensor, map sensor, safety sensor
- Size : Approx. 1,900 X 600 X 1,900 mm
- Weight : Approx. 200 kg

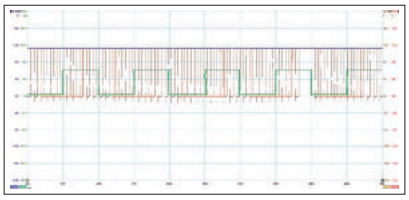
Training Contents

- Measuring the voltage changes in illumination Auto Light Sensor Practice.
- Oil Temperaturesensor practiceaccording to temperature change.
- knock sensor Practice with push-button.
- photosensor Practice according to the brightness of the light.
- Practice intake air temperature sensor as a function of temperature.
- ABS wheel speed sensor Practice according to wheel speed.
- pulse generator A Practice according to the speed change by using the speed control dial and waveform measurements and Practice.
- pulse generator B Practice according to the speed change by using the speed control dial and waveform measurements and Practice.
- crankshaft position sensor and camshaft position sensor voltage waveformPractice by using The speed control dial.
- oxygen sensor exercise by measuring the voltage according to the state.
- coolant temperature sensor Practice by measuring the voltage and resistance according to the temperature change.
- AQS(toxic gas detection equipment) Practice in accordance with the hazardous gas detection Practice.
- throttle position sensor Practice by measuring the voltage according to the throttle position.
- MAP sensor Practiceby measuring the voltage in response to changes in (manifold absolute pressure sensor) pressure.

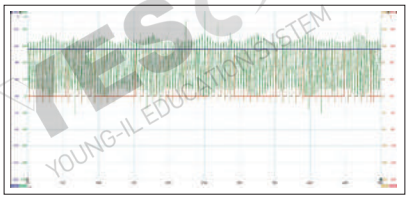
Automotive Sensor Waveform Training System YESA-4332



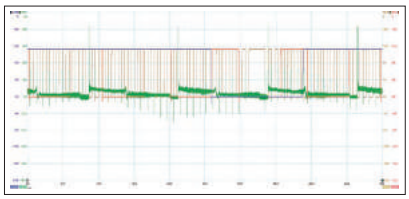
Air flow sensor waveform



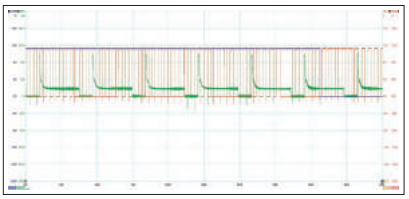
Cam shaft position sensor waveform



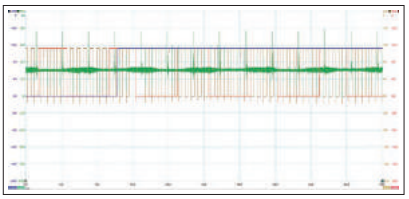
Crank shaft position sensor waveform



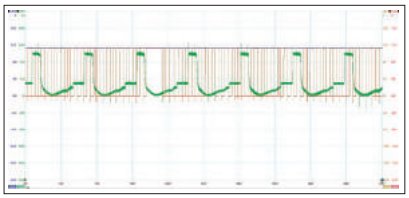
Ignition coil waveform



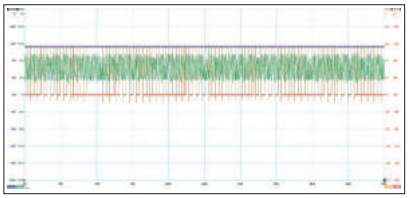
Injector waveform



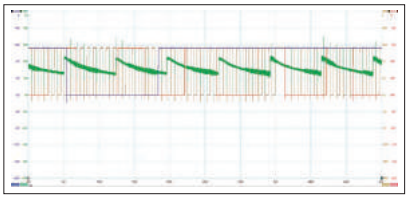
Knock sensor waveform



M.A.P Sensor waveform



O2 Sensor waveform



Temperature sensor waveform

Feature

- A unit through which students are able to learn theory and operation functions of automobile sensors systematically and effectively and the waveform can be measured by diagnostor and oscilloscope.
- Waveforms can be adjusted arbitrarily.
- Case Bag is durable and the archive is excellent.
- Waveforms are oxygen sensor, knock sensor, map sensor, air flow sensor, temperature sensor, crank sensor, a cam sensor, injector, ignition.

Specification

- Composition : Terminals for measuring the waveforms, Terminal light for changing the waveform
- Size : Approx. 320 X 270 X 220 mm
- Weight : Approx. 10 kg

Automotive Sensors and Electric Control System_ 2 Panels YESA-4340

Feature

- A unit through which students are able to learn theory and operation functions of automobile sensors systematically and effectively.
- All sensors used are same with those of an actual vehicle and manufactured as students can look internal structure.
- Describe how the sensors work by attaching the sensors on each panel with description.
- LED lights are attached on sensors and central panel for educational purpose.

Specification

- Composition : Crank angle sensor, A/T pulse generator sensor, cam position sensor, ABS wheel sensor, humidity sensor, AQS sensor, Engine temperature sensor, Automatic light sensor, knock sensor, speed sensor, Accelerator position sensor, oxygen sensor, throttle position sensor, air flower sensor, map sensor, safety sensor
- 2 SET supplied
- Size : Approx. 1,900 X 600 X 1,700 mm
- Weight : Approx. 300 kg

Training Contents

- Measure data such as voltage, current and waveform at each sensor.

Automotive Sensor Display Panel — YESA-4341

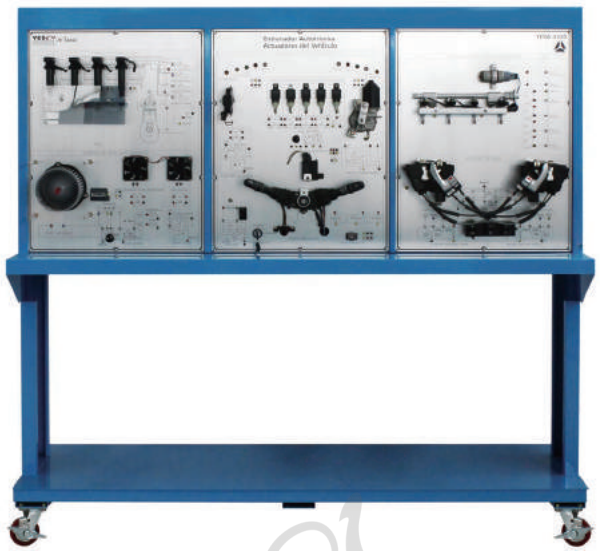
Feature

- Panel type of unit where sensors used for car electronic control are set.
- Able to check the internal structure in each sensors.
- Able to teach the names of sensors and functions.

Specification

- Composition : ECU (Electronic Control Units), WTS (Water Temperature Sensor), Step Motor, Water Temp Gauge, TDC Sensor, AFS (Air Flow Sensor), Power Relay, Power Transistor, WTS (Water Temp Sensor), Knock Sensor, MPS (Motor Position Sensor), Main Relay, O2 Sensor, CAS (Crank Angle Sensor), ISC Servo (Idle speed Control Servo), A/C (Air Conditioner Unit), Photo Sensor, Humidity Sensor, Evaporator Sensor, ABS (Anti Lock Brake System), WWS (Wheel Speed Sensor), ABS Motor Pump Relay, TCU (Transmisson Control Unit), Inhibitor switch, Pulse Generator, TPS (Throttle Position Sensor), ECS (Electronic Control Suspension System), Automobile – High sensor, G–sensor, Air–Bag, ETACS (Electronic Time & Alarm Control System), EPSV (Electronic Power Steering sol Valve)
- Size : Approx. 2,000 X 600 X 1,700 mm
- Weight : Approx. 150 kg

Automotive Lighting System Training Equipment — YESA-4400P



Feature

- Modulized electric circuit device of Lighting & Tail System so that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile
- Electric devices of each part of Lighting & Tail System installed on the aluminum panel and the power and wiring terminal attached.
- Installed connection terminals at each sensor, circuit and component so that can conduct wiring practices and measuring wave patterns.
- Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

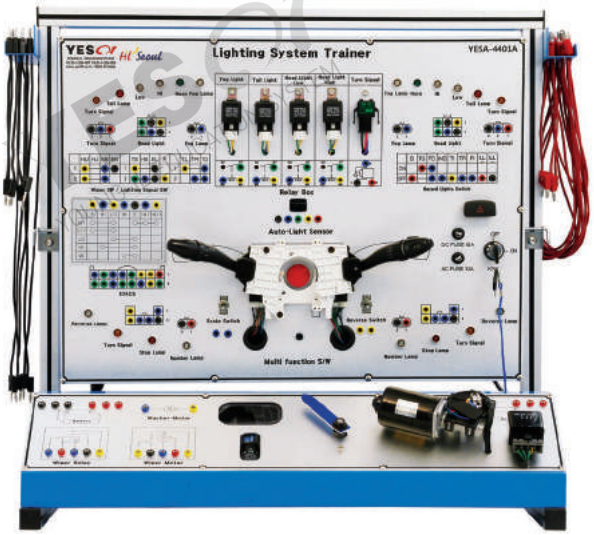
Specification

- Composition : Head lamp, head lamp relay and fuse
- Size : Approx. 600 X 200 X 400mm
- Weight : Approx. 30kg

Training Contents

- Lighting circuit practice module
- Circuit testing practice lighting system
- Theory education, circuit completion and test practice of the system

Automotive Lighting System Simulator YESA-4400



Feature

- A unit through which students are able to learn theory and operation functions of headlight systematically and effectively.
- Able to teach each components and connection lead so that it can be suitable for a test, inspection training.
- Parts composing each circuit system are same with those of an actual car.
- Able to check and inspect all faults which can be cause in an actual car.
- A compact size for storage benefit.

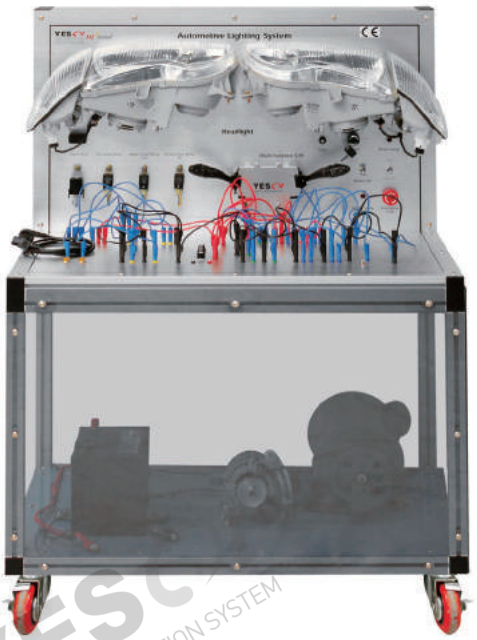
Specification

- Composition : Head Light, Taillight, Direction Light, Horn, Wiper, Washer Circuit
- Self Deslc Type
- Size : Approx. 700 X 400 X 700 mm
- Weight : Approx. 50 kg

Training Contents

- Accomplishing the circuit and test training.

Automotive Lighting Electrical Circuit System with Motor YESA-4402



Feature

- A unit through which students are able to learn theory and operation functions of headlight systematically and effectively.
- Testing and diagnosis educations are easy because wiring and connections of all sensors and parts are installed as lead socket.
- Parts composing each circuit system are same with those of an actual car.
- Able to check and inspect all faults which can be cause in an actual car.
- Motor operated type and observe the battery charging system.
- Electric wiring can be connected to the connector for the test.

Specification

- Composition : Head light
- Size : Approx. 1,000 X 600 X 700 mm
- Weight : Approx. 80 kg
- Single phase 2HP motor, Generator charging

Training Contents

- Accomplishing the circuit and test training.
- Checking the battery charging.

Automotive Lighting Electrical Circuit System Simulator YESA-4403

Feature

- A unit through which students are able to learn theory and operation functions of headlight systematically and effectively.
- Each pats are connected for Testing and diagnosis educations.
- Parts composing each circuit system are same with those of an actual car.
- Able to check and inspect all faults which can be cause in an actual car.
- Measure the voltage when operating with diagnosis terminals.

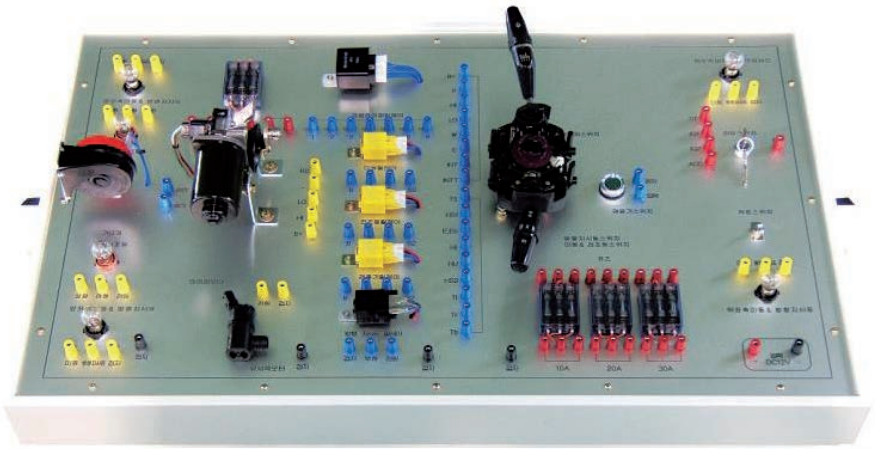
Specification

- Composition : Head light
- Size : Approx. 600 X 150 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Accomplishing the circuit and test training.

Automotive Lighting Electrical Circuit System_ Basic Type YESA-4410



Feature

- A unit through which students are able to learn theory and operation functions of headlight, taillight, direction light systematically and effectively.
- Testing and diagnosis educations are easy because wiring and connections of all sensors and parts are installed as lead socket.
- Parts composing each circuit system are same with those of an actual car.
- Able to check and inspect all faults which can be cause in an actual car.

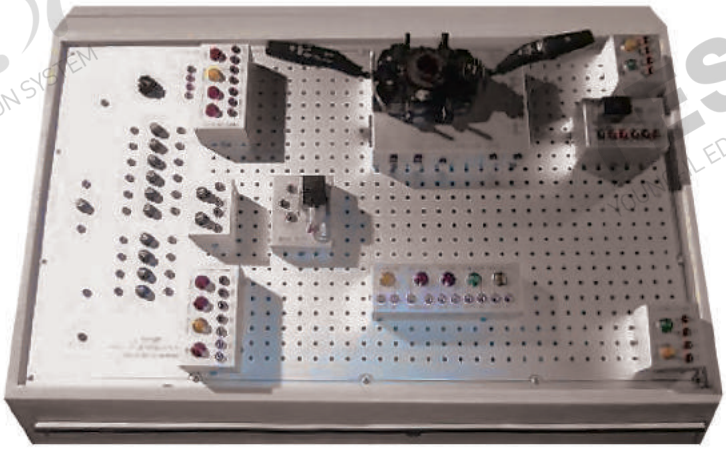
Specification

- Composition : Taillight, Fog Lights, Direction Light, Horn, Wiper
- Size : Approx. 600 X 150 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Accomplishing the circuit and test training.

Automotive Accessories Circuit Module System YESA-4411



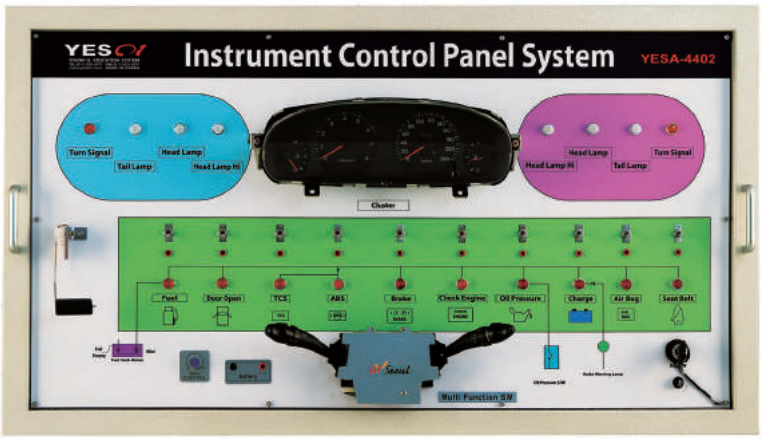
Feature

- A unit is using a unique wiring and parts from a vehicle.
- Sensors and the actuators are attached in a panel to measure the input/output data.
- Able to attach, detach the module and test.

Specification

- Composition : Head light, taillight, horn, wiper circuit, turn signal circuit
- Size : Approx. 2,400 X 600 X 1,700 mm
- Weight : Approx. 300 kg

Automotive Instrument Control Panel System YESA-4420



Feature

- Modulized electric circuit device of Instrument Panel Circuitso that understand the circuits by electric wiring and measuring practices.
- Testing and diagnosis educations are easy because wiring and connections of all sensors and parts are installed as lead socket.
- Able to check and inspect all faults which can be cause in an actual car.

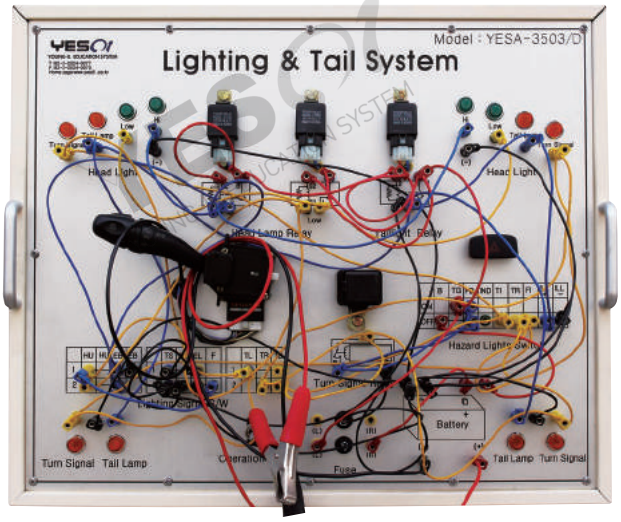
Specification

- Composition : Control panel, multifunction S/W, Key box, lamps
- Size : Approx. 600 X 150 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Accomplishing the circuit and test training.
- Measuring the waveform in each equipment.

Lighting and Tail System_ Compact Type YESA-4430



Feature

- Modulized electric circuit device of Light System panel so that understand the circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices and distributorinstalled in each panel for tests.
- Installed connectors at circuits and component for measuring wave patterns. Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

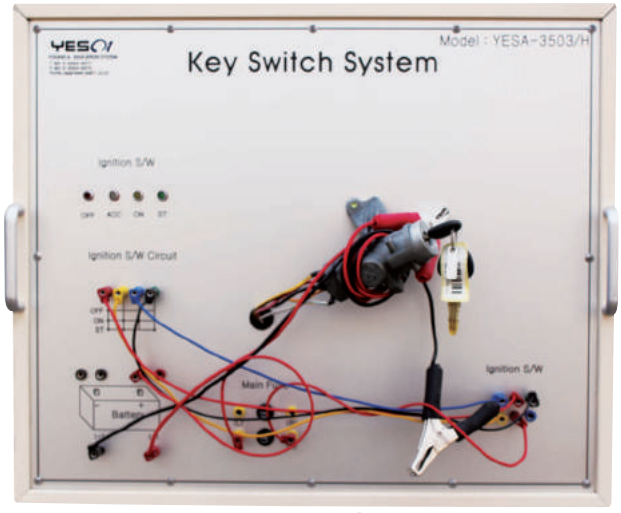
Specification

- Composition : Light above, below, taillight, turn signal, multifunction switch, emergency switch, 4 pin relay light
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Light and taillight circuit practice module.
  - Test for Light circuit.
  - Test for taillight circuit.
  - Theoretical study, training.

Key Switch System_ Compact Type YESA-4431



Feature

- Modulized electric circuit device of Key Switch System so that understand the circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices and distributor installed in each panel for tests.
- Installed connectors at circuits and component for measuring wave patterns. Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

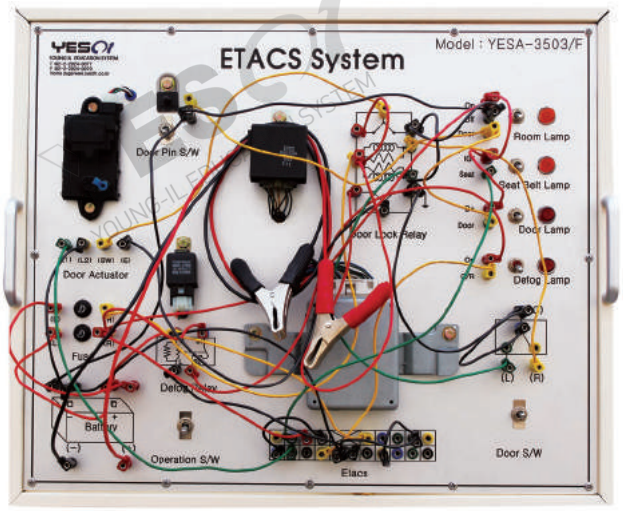
Specification

- Composition : Key switch circuit, key box
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Key switch circuit practice modul.
  - Circuit testing practice of key switch system.
  - Theory education, circuit completion and test practice of the system.

ETACS System_ Compact Type YESA-4432



Feature

- Modulized electric circuit device of ETACS System so that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices and distributor installed in each panel for tests.
- Installed connectors at circuits and component for measuring wave patterns Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

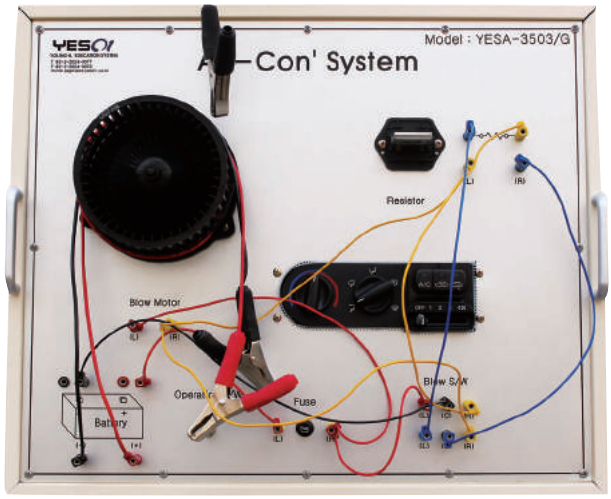
Specification

- Composition : ETACS, Door Actuator, Door LockRelay, Fuse, Room Lamp, Seat Belt, Lamp, Door Lamp, Defog Lamp, Defog Relay etc
- Compact Type
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- ETACS circuit practice module.
  - Circuit testing practice of ETACS system.
  - Theory education, circuit completion and test practice of the system.

Air Conditioning System_ Compact Type YESA-4433



Feature

- Modulized electric circuit device of Air Conditioning systemso that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices and distributor installed in each panel for tests.
- Installed connectors at circuits and component for measuring wave patterns. Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

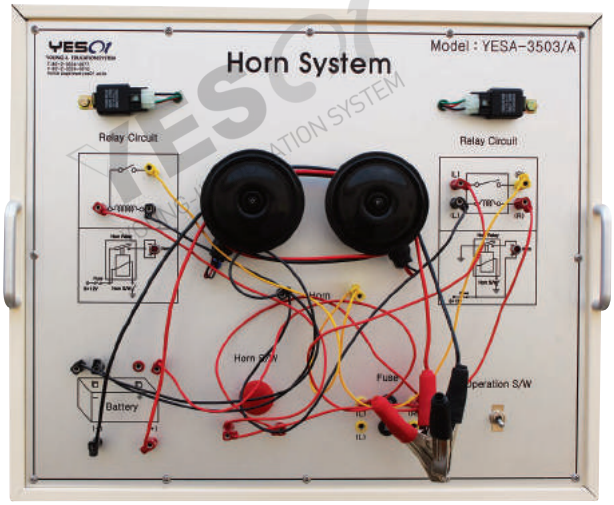
Specification

- Composition : Air Conditional Switch, Blow motor, resistor
- Compact Type
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Air–con system circuit practice module.
  - Circuit testing practice of Air–con system.
  - Theory education, circuit completion and test practice of the system.

Horn System YESA-4434



Feature

- Modulized electric circuit device of Horn systemso that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices and distributor installed in each panel for tests.
- connectors Installed at sensors, circuits and component for measuring wave patterns.
- Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

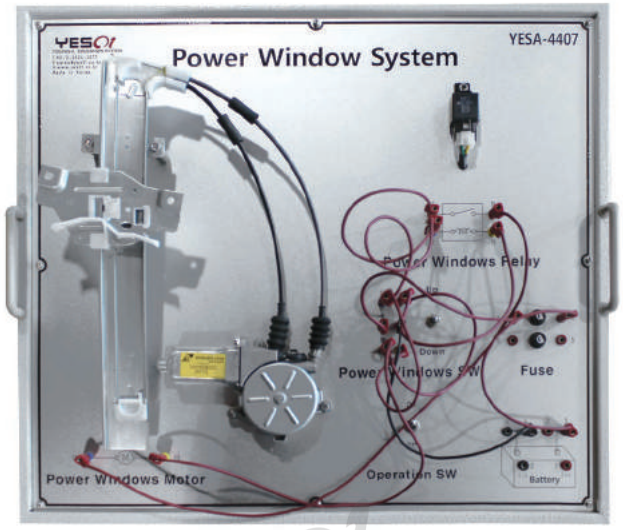
Specification

- Composition : Horn, Relay, Fuse, Power Cable
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Horn system circuit practice module.
  - Circuit testing practice of Horn system.
  - Theory education, circuit completion and test practice of the system.

Power Window System YESA-4435



Feature

- Modulized electric circuit device of Power Window System so that understand the automotive circuits by electric wiring and measuring practices.
- Electric devices of each part of Power Window System installed on the aluminum panel and the power and wiring terminal attached.
- Used the original wiring of the whole parts of the automobile.
- Installed connection terminals at each sensor, circuit and component so that can conduct wiring practices and measuring wave patterns.
- Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

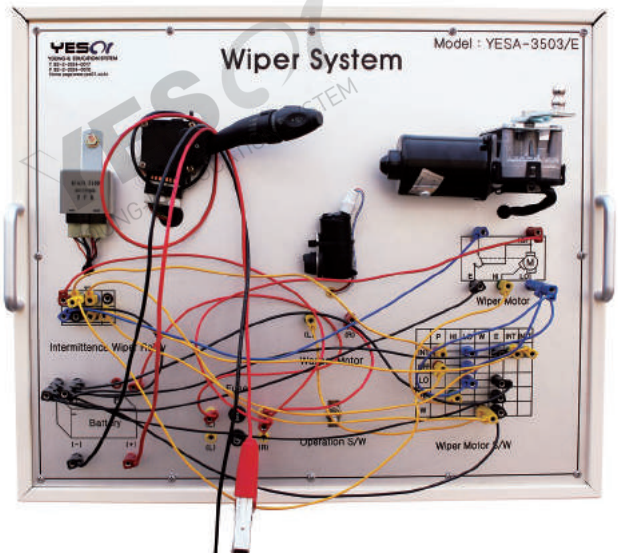
Specification

- Composition : Window motor, relay, fuse
- Size : Approx. 700 X 500 X 400 mm
- Weight : Approx. 10 kg

Training Contents

- Power Window System practice module.
  - Practice for Power Window System.
  - Checking operation test for Power Window System.
  - Theory education, circuit completion and test practice of the system.

Wiper System YESA-4436



Feature

- Modulized electric circuit device of Wiper System so that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices of each part of Wiper System installed on the aluminum panel for tests.
- Connection terminals installed at each circuit and component so that can conduct wiring practices and measuring wave patterns.
- Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

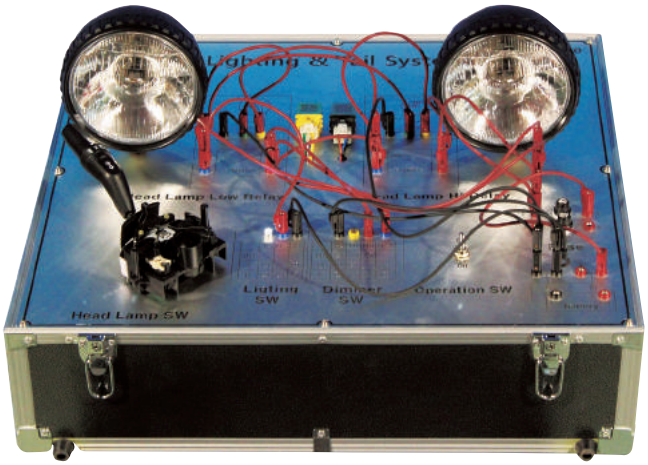
Specification

- Composition : Wiper Motor, Wiper Relay, Multifunctional Switch, Power Cable etc
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Wiper circuit practice module.
  - Practice of testing motor circuit and disassembly, arrangement of wiper parts.
  - Checking operation test of wiper using tester.
  - Theory education, circuit completion and test practice of the system.

Lighting & Tail System YESA-4440



Feature

- Modulized electric circuit device of Lighting & Tail System so that understand the automotive circuits by electric wiring and measuring practices.
- Used the original wiring of the whole parts of the automobile.
- Electric devices of each part of Lighting & Tail System installed on the aluminum panel for tests.
- Connection terminals installed at each circuit and component so that can conduct wiring practices and measuring wave patterns.
- Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

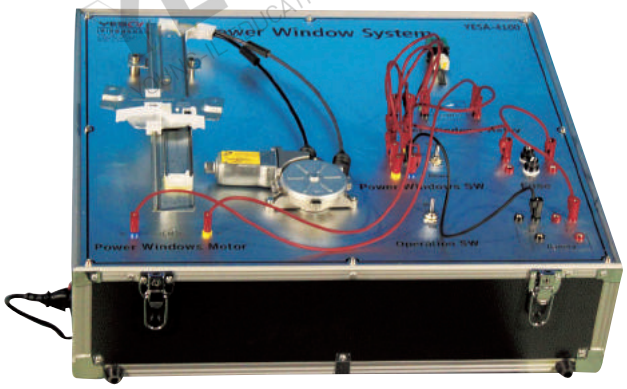
Specification

- Composition : Head lamp low, highmultifunctional switch, Emergency Switch, 4pins relay and fuse
- Size : Approx. 600 X 200 X 400 mm
- Weight : Approx. 30 kg

Training Contents

- Lighting circuit practice module.
  - Circuit testing practice lighting system.
  - Theory education, circuit completion and test practice of the system.

Power Window System YESA-4441



Feature

- Modulized electric circuit device of Power Window System so that understand the automotive circuits by electric wiring and measuring practices.
- Electric devices of each part of Power Window System installed on the aluminum panel for tests.
- Connection terminals installed at each sensor, circuit and component so that can conduct wiring practices and measuring wave patterns.
- Students are able to connect the wirings to the connector by themselves.
- Students can understand current of the entire circuit, find out causes and changes and take actions.

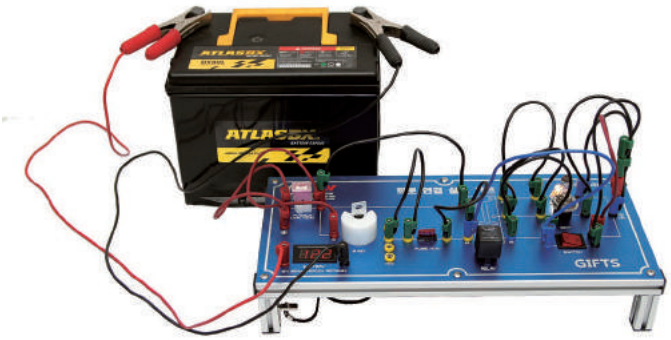
Specification

- Composition : Window motor, relay, fuse
- Size : Approx. 700 X 500 X 400 mm
- Weight : Approx. 10 kg

Training Contents

- Power Window System practice module.
  - Practice for Power Window System.
  - Checking operation test for Power Window System.
  - Theory education, circuit completion and test practice of the system.

Automotive Basic Electric Circuit Trainer YESA-4460



Feature

- An practice unit through which students can practice the principles of basic composition circuit of relay and power distribution of ignition switch with education purpose of basic electric and electronic system.
- Able to teach each components and connection lead so that it can be suitable for a test, inspection training.

Specification

- Composition : Maximum voltage : 30A, Working voltage : DV12V, Relay capacity : 30A, Lamp : 1.4W, 55W, Main fuse : 30A, Relay fuse : 10A, 1.0SQ Jump wire : 24 set/Red 6 set/Blue 6set/Black 6 set/Yellow 6 set
- Size : Approx. 300 X 200 X 150 mm
- Weight : Approx. 10 kg

Training Contents

- Automobile relay operation practice.
- Understanding of Ignition switch composition and power distribution.
- Practice of building system circuit.

Automotive Electric and Electronic Circuit Equipment YESA-4700

Feature

- 17 Equipment boards.
- Able to demonstrate the electric and electronic basic training.
- Useful for parallel theory education and electric theory.
- Simulate the training on website.
- Manage all experiment data on website.
- Textbook is supported on website.

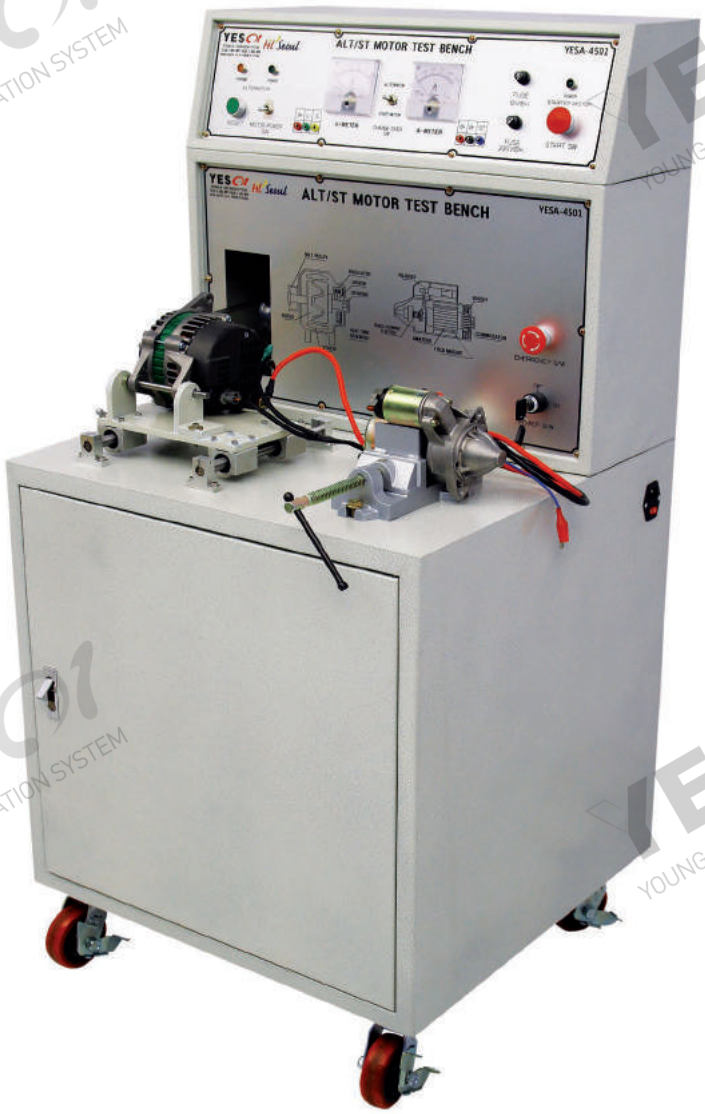
Specification

- Composition
  1) OHM's Law
  2) Voltmeter
  3) Amperemeter
  4) Ohm-Meter
  5) Transformer & Transformation
  6) Inductor & Inductance
  7) Capacitor & Capacitance
  8) LC Circuit & Resonance
  9) KIRCHHOFF's Law
  10) Resistance Bridge
  11) 3-Phase Transformer Connection
  12) Relay & Latch Circuit
  13) 1 φ Half & Full Wave Rectifier
  14) Generation of Electromotive force
  15) Mutual Inductance Module : 2ea
  16) AC 1φ Generator Module
  17) AC 3φ & AC Generator

Training Contents

- OHM's Law.
- Resistance in Series circuitand in parallel.
- Principles of the voltmeter and voltage measurement.
- Principles of the ammeter and current measurements.
- Principles of the tester and resistance measurements.
- Single-Phase transformer and conversion practice.
- 3-phase transformer and △ and y-connection.
- Inductance and RL circuit.
- Inductancein series and parallel circuits.
- CapacitanceandRC circuits.
- Capacitance in series and parallel circuits.
- Lc Circuit and resonance circuit.
- Law Of Kirchhoff.
- Bridge circuit.
- Single-Phase half-wave rectifier circuit and wave rectification circuit.
- Inducedelectromotive force andinduced electromotive force by magnetic field.

Generator and Start Motor Test Bench YESA-4501



Feature

- An practice unit through which students can practice the principles of basic composition circuit of relay and power distribution of ignition switch with education purpose of basic electric and electronic system.
- All components are from an actual vehicle.
- Able to attach/detach the module and test.
- The voltage and current gauge allow student to observe the difference between ON and OFF.

Specification

- Composition
  1) Voltage meter : 50V (digital type)
  2) Current meter : 500A (digital type)
  3) Stand : 1ea, Tester cable clip, Operation lamp, Switch, Generator motor
- Size : Approx. 700 X 700 X 1,200 mm
- Weight : Approx. 100 kg

Training Contents

- when the generator is on/off, measure the V,I.
- Test for generator, start motor failure, diagnosis test.
- Attach/detach training.

Starting System Simulator YESA-4502

Feature

- Able to understand composition of starting device of automobile and ideal for theoretical training, demonstration.
- Able to understand circuit wiring state of automobile starting device.
- Panel for understanding the starting motor circuit concisely.
- Measure the battery voltage when the start motor is on with extra battery.

Specification

- Composition
  1) Voltage meter : 50V (digital type)
  2) Current meter : 500A (digital type)
- Size : Approx. 500 X 500 X 1,600 mm
- Weight : Approx. 50 kg

Training Contents

- Test a drop of electric pressure when starting motor is rotating.
- Measure the voltage wave patterns according to each socket.

Starting System Simulator YESA-4503

Feature

- Able to understand composition of starting device of automobile and ideal for theoretical training, demonstration.
- Able to understand circuit wiring state of automobile starting device.
- Panel for understanding the starting motor circuit concisely.
- Measure the battery voltage when the start motor is on with extra battery.

Specification

- Size : Approx. 500 X 500 X 1,600 mm
- Weight : Approx. 50 kg

TTraining Contents

- Test a drop of electric pressure when starting motor is rotating.
- Measure the voltage wave patterns according to each socket.

Generator Circuit Training Equipment — YESA-4512

Feature

- An Educational unit manufactured to understand automotive component's electric circuit by modularization of generator's electronic circuit
- Able to check the role and output power of the generator
- Understand the principle of electricity production and diagnose, check electric capacity
- Directly link to electronic connection

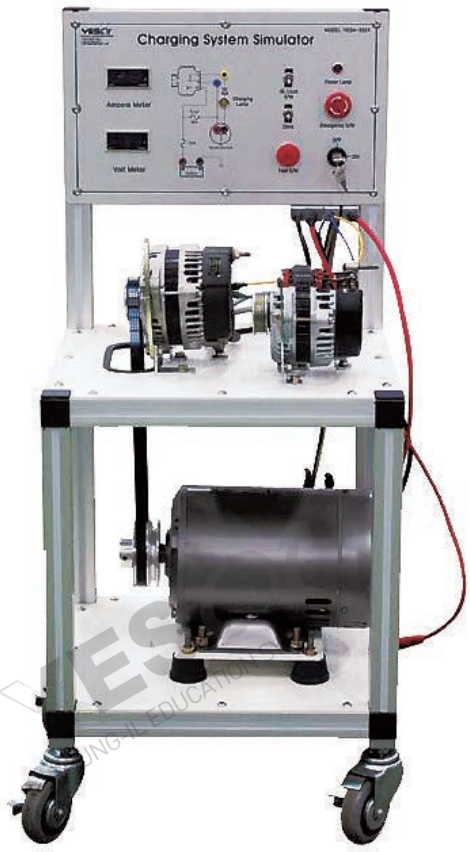
Specification

- Composition : Main body stand, 2 second phase of resistive heater, 2 sets of lighting system, 2 sets of resistance-modulating lighting system, power supplier, inverter for controlling speed of volt meter ampere motor, generator, etc.
- Motor : three phases 380V, 3HP motor
  - Equipment of transparent polycarbonate in motor drive parts, stand aluminum profile
- Size : Approx. 1200 X 800 X 1700mm
- Weight : Approx. 100kg

Training Contents

- Electric capacity Test of generator with resistance.
- Measurement of electrical loading by speed of generator.
- Identification of electric capacity and loading with V,A meta of generator.
- Verification of conversion DC-AC by power supplier.

Automotive Generator System Simulator — YESA-4510



Feature

- Able to understand composition of Generator System and fundamental principles.
- Components such as an ignition switch, relay used in this unit are from an actual vehicle.
- Able to attach/detach the generator by making the fixtures then available for the test.
- Simulator panel is made for understanding the circuit.
- Able to check the charging status when the charging motor is on.
- A Stand is used for installing two generators.

Specification

- Composition
  1) Voltage meter : 50V (Digital type)
  2) Current meter : 500A (Digital type)
  3) Generator stand : 1
  4) Tester cable clip : 2ea (5m)
  5) Lamp and switch attached
  6) Generator staring motor
- Size : Approx. 500 X 500 X 1,200 mm
- Weight : Approx. 50 kg

Training Contents

- Checking the charging status when the charging motor is on.
- Measure the voltage wave patterns according to each socket.

Automotive Generator, Starter Motor Test Simulator YESA-4513

Feature

- An practice unit through which students can practice the principles of basic composition circuit of relay and power distribution of ignition switch with education purpose of basic electric and electronic system.
- All components are from an actual vehicle
- Able to attach/detach the module and test
- The voltage and current gauge allow student to observe the difference between ON and OFF.

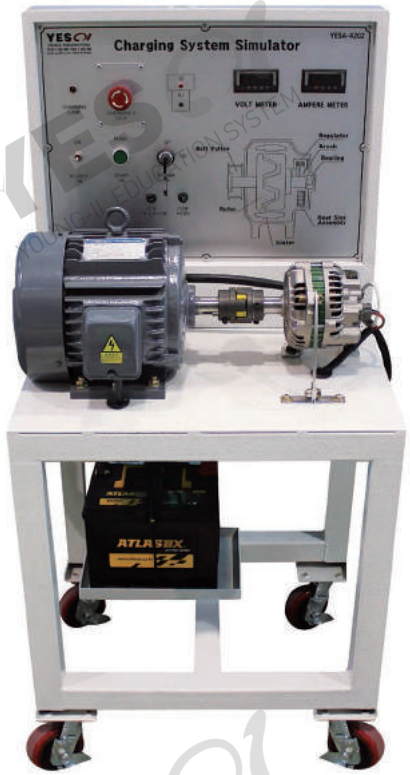
Specification

- Composition
  1) Voltage meter : 50V(digital type)
  2) Current meter : 500A (digital type)
  3) Stand : 1ea
  4) Tester cable clip, Operation lamp, Switch, Generator motor
- Size : Approx. 700 X 700 X 1200mm
- Weight : Approx. 100kg

Training Contents

- When the generator is on/off, measure the V,I.
- Test for generator, start motor failure, diagnosis test.
- Attach/detach training.

Automotive Generator System Simulator YESA-4511



Feature

- Able to understand composition of Generator System of automobile and fundamental principles.
- Components such as an ignition switch, relay used in this unit are from an actual vehicle.
- Able to attach, detach the generator by making the fixtures then available for the test.
- Simulator panel is made for understanding the circuit.
- Able to check the charging status when the charging motor is on.
- A Stand is used for installing two generators.

Specification

- Composition
  1) Voltage meter : 50V (Digital type)
  2) Current meter : 500A (Digital type)
  3) Generator stand : 1
  4) Tester cable clip : 2ea (5m)
  5) Lamp and switch attached
  6) Generator staring motor
- Size : Approx. 500 X 500 X 1,600 mm
- Weight : Approx. 50 kg

Training Contents

- Checking the charging status when the charging motor is on.
- Measure the voltage wave patterns according to each socket.

Air Bag System Simulator_ Auto Fault YESA-4520

Feature

- Able to understand composition of Air bag System of automobile and fundamental principles.
- Understanding the linkage among Safety belts, airbags, PPD (Passenger Presence Detector) and acknowledging operation condition.
- Measuring change in waveforms in accordance with resistance by adjusting the resistance from the seatbelt and air bag.
- The module is incised to see internal structure.
- Able to measure by a multimeter, oscilloscope, diagnosis etc.
- A seatbelt is driven when the airbag is on.

Specification

- Composition : Driver/passenger seat airbags, airbag modules, seat belts,PPD sensor, air regulators, air tanks, etc
- Size : Approx. 800 X 600 X 1,200 mm
- Weight : Approx. 120 kg

Training Contents

- Checkingand understanding the air bag system.
- Measure waveforms and checking wave patterns.

SRS Air bag System Simulator_ Auto Fault YESA-4520A

Feature

- Able to understand theories and fundamental principles of SRS(Supplemental Restraint System) Air bag System of automobile.
- Understanding the linkage among Safety belts, airbags, PPD (Passenger Presence Detector) and acknowledging operation condition.
- Measuring change in waveform in accordance to resistance by adjusting the resistance from the seatbelt and air bag.
- The module is incised to see internal structure.
- Able to measure by a multi meter, oscilloscope, diagnosis etc.
- A seatbelt is driven when the airbag is on.

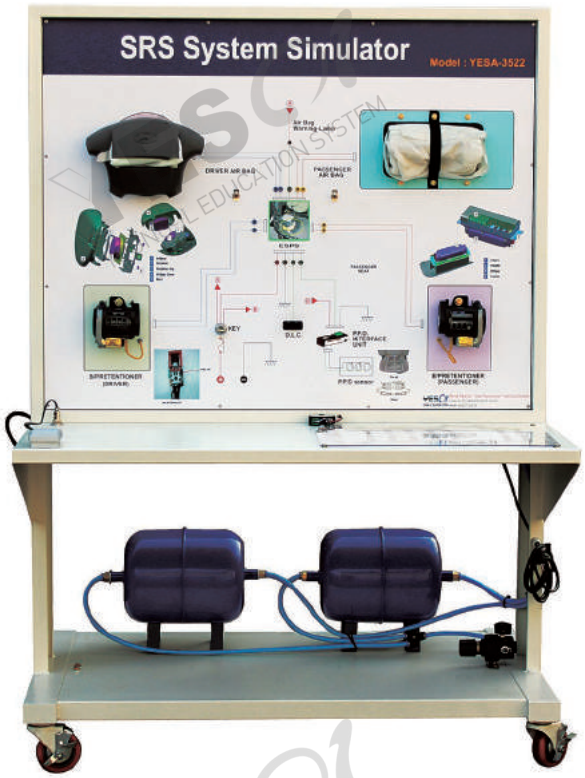
Specification

- Composition : Driver / passenger seat airbags, airbag modules, seat belts, PPD sensor, air regulators, 2 air tanks(10L), etc.
- Size : Approx. 1000 X 2000 X 1200mm
- Weight : Approx. 200kg

Training Contents

- Checking and understanding the air bag system.
- Measure waveforms and checking wave patterns.

Air Bag System Simulator_ Auto Fault YESA-4521



Feature

- Able to understand composition of Air bag System of automobile and fundamental principles.
- Understanding the linkage among Safety belts, airbags, PPD (Passenger Presence Detector) and acknowledging operation condition.
- Measuring change in waveform in accordance with resistance by adjusting the resistance from the seatbelt and air bag.
- Able to measure by a multimeter, oscilloscope, diagnosis etc.

Specification

- Composition : Driver/passenger seat airbags, airbag modules, seat belts, PPD sensor, air regulators, 2 air tanks(10L), etc
- Size : Approx. 800 X 600 X 1,200 mm
- Weight : Approx. 120 kg

Training Contents

- Checkingand understanding the air bag system.
- Measure waveforms and checking wave patterns.

Air Bag System Simulator_ Auto Fault YESA-4523

Feature

- Able to understand composition of Air bag System of automobile and fundamental principles.
- Understanding the linkage among Safety belts, airbags, PPD (Passenger Presence Detector) and acknowledging operation condition.
- Measuring change in waveform in accordance to resistance by adjusting the resistance from the seatbelt and air bag.
- Able to measure by a multimeter, oscilloscope, diagnosis etc.

Specification

- Composition : Driver/passenger seat airbags, airbag modules, seat belts, PPD sensor, air regulators, 2 air tanks (10L), etc
- Size : Approx. 800 X 600 X 1,200 mm
- Weight : Approx. 120 kg

Training Contents

- Checkingand understanding the air bag system.
- Measure waveforms and checking wave patterns.

Air bag System Simulator_ Auto Fault YESA-4524

Feature

- Able to understand composition of Air bag System of automobile and fundamental principles.
- Understanding the linkage among Safety belts, airbags, PPD (Passenger Presence Detector) and acknowledging operation condition.
- Measuring change in waveform in accordance to resistance by adjusting the resistance from the seatbelt and air bag.
- The module is incised to see internal structure.
- Able to measure by a multi meter, oscilloscope, diagnosis, etc.
- A seatbelt is driven when the airbag is on.

Specification

- Composition : Driver / passenger seat airbags, airbag modules, seat belts, PPD sensor, air regulators, 2 air tanks(10L), etc.
- Size : Approx. 800 X 600 X 1200mm
- Weight : Approx. 120kg

Training Contents

- Checking and understanding the air bag system.
- Measure waveforms and checking wave patterns.

Air bag System Simulator_ Auto Fault YESA-4525

Feature

- Able to understand composition of Air bag System of automobile and fundamental principles.
- Understanding the linkage among Safety belts, airbags, PPD (Passenger Presence Detector) and acknowledging operation condition.
- Measuring change in waveform in accordance to resistance by adjusting the resistance from the seatbelt and air bag.
- The module is incised to see internal structure.
- Able to measure by a multi meter, oscilloscope, diagnosis, etc.
- A seatbelt is driven when the airbag is on.

Specification

- Composition : Driver / passenger seat airbags, airbag modules, seat belts, PPD sensor, air regulators, 2 air tanks(10L), etc.
- Size : Approx. 800 X 600 X 1200mm
- Weight : Approx. 120kg

Training Contents

- Checking and understanding the air bag system.
- Measure waveforms and checking wave patterns.

Automotive Air Conditioning System Simulator YESA-4600

Feature

- The simulator is able to train and exercise about automobile air conditioning system, and understand how it works and faults, inspection.
- Easy to demonstrate the training session in refrigerant cycle, heating, air conditioning, temperatures and pressures.
- It is the purpose to understand and diagnosis of air conditioning system from faults in real vehicle effectively.
- Charging system attached.
- Compressor: 5HP motor, inverter RPM control type.
- HFC-134a.

Specification

- Composition : Compressor, condenser, dryer, expansion valve, the orifice tube, the evaporator,Blowers, piping, cooling fans, the unit, the control panel, Motor with speed control, pressure (high-1, low-3), 7 temperature gauge, etc
- 10 Fault insertion available
- 3 PCB board available to safety protection
- PCB Board is connect PC with USB or RS 232
- Size : Approx. 1,200 X 2,000 X 1,600 mm
- Weight : Approx. 300 kg

Training Contents

- Charging the refrigerant and recovery.
- Air vent.
- Session for FATC principles and theories, maintenance, inspection.

Automotive Air Conditioning System Training Equipment_ Auto Fault YESA-4611

Feature

- The simulator is able to training and exercise about automobile air-condition system.
- It is the purpose to understanding and diagnosis of air-condition system from faults in real vehicle effectively.
- Easy to demonstrate the training session in refrigerant cycle, heating, air conditioning, temperatures and pressures.
- Compressor : 5HP motor, inverter RPM control type.
- HFC (Hydrofluorocarbons)-134a.

Specification

- Composition : Compressor, condenser, dryer, expansion valve, the orifice tube, the evaporator, Blowers, piping, cooling fans, the unit, the control panel, Motor with speed control, pressure(high-1, low-3), 7 temperature gauge
- Size : Approx. 1200 X 2000 X 1200mm
- Weight : Approx. 300kg

Training Contents

- Charging the refrigerant and recovery.
- Air vent.
- Session for FATC principles and theories, maintenance, inspection.

Automotive Air Conditioning Training Panel_ Integrated Type YESA-4612

Feature

- The simulator is panel type equipment that is able to training and exercise about automotive air–condition system.
- It is the purpose to understanding and diagnosis of air–condition system from faults in real vehicle effectively.
- Easy to demonstrate the training session in refrigerant cycle, heating, air conditioning, temperatures and pressures.
- Compressor : 5HP motor, inverter RPM control type.
- HFC (Hydrofluorocarbons)–134a.

Specification

- Composition : Compressor, condenser, dryer, expansion valve, the orifice tube, the evaporator, Blowers, piping, cooling fans, the unit, the control panel, Motor with speed control, pressure(high–1, low–3), 7 temperature gauge
- Size : Approx. 1200 X 2000 X 1600mm
- Weight : Approx. 200kg

Training Contents

- Charging the refrigerant and recovery.
- Air vent.
- Session for FATC principles and theories, maintenance, inspection.

Automotive ECS Fault Diagnosis Training Simulator_ Auto Fault YESA-4900

Feature

- The simulator is able to train and exercise about Electric control suspension. It is the purpose to understand and diagnosis of Electric control suspension from faults in real vehicle effectively.
- Vehicle–specific wiring, parts are used.
- The rear panel is effective to understand the circuit diagram and pneumatic lines of the ECS system at a glance.
- Comparing and analyzing control system in suspension while acceleration, deceleration, turning left, right.

Specification

- Size : Approx. 1,200 X 2,000 X 1,600 mm
- Weight : Approx. 300 kg

Training Contents

- Various elementsby self–diagnosis.
- System related to ECS maintenance.
- Pneumatic line training.
- After arbitrary faults, the unit is used for maintenance, inspection, training.
- Checking the suspension change according to speed and waveform maintenance.

Automotive ECS Fault Diagnosis Training System_ Auto Fault YESA-4901

Feature

- The simulator is able to train and exercise about Electric control suspension. It is the purpose to understanding and diagnosis of Electric control suspension from faults in real vehicle effectively.
- Vehicle-specific wiring, parts are used.
- Demonstrate the operation like a real vehicle with seats.
- All components related to E.C.S are placed in the same position as the vehicle for efficiency.
- Simulate the sensor input at the ECU so it makes possible to inspect the output, ECS module and System status simultaneously.
- Comparing and analyzing control system in suspension while acceleration, deceleration, turning left, right.

Specification

- Composition : ECU Box, ECS module, G sensor, shock-absorber, speed sensor, Steering angle sensor, TPS sensor
- Size : Approx. 1,600 X 1,800 X 1,600 mm
- Weight : Approx. 200 kg

Training Contents

- Various elementsby self-diagnosis.
- System related to E.C.S. maintenance.
- Pneumatic line training.
- After arbitrary faults, the unit is used for maintenance, inspection, training.
- Checking the suspension change according to speed and waveform maintenance.
- Various sense force control.
- Automobile-height Control.
- Sensor Actuator simulation test.

Automotive Advanced ECS / ABS / VDC Control System Simulator YESA-4902

Feature

- The simulator is able to train and exercise about VDC, ECS, ABS. It is the purpose to understanding and diagnosis from faults in real vehicle effectively.
- Vehicle-specific wiring, parts are used.
- The seat is attached to allow students to operate.
- Components are designed to be the same as the actual vehicle.
- Installing a pressure gauge in each suspension to check the pressure in each lines.
- Comparing and analyzing electric signals and physical outputs by displaying on panel which are difficult to observe with eyes. (pressure, solenoid operation lamp, step motor display)

Specification

- Composition : ECU, rear absorber, G sensor, ECS mode switch, ECS warning, throttle position sensor, speed sensor, steering wheel sensors, instrument cluster, rear solenoid valve ASSY, the front solenoid valve ASSY, front parking sensors, rear parking sensors, compressor, solenoid power relays, front air tank, rear air tank, power relays, the return pump relay
- Size : Approx. 2,000 X 2,000 X 1,800 mm
- Weight : Approx. 400 kg

Training Contents

- Various elementsby self-diagnosis.
- Product operation.
- ANTI ROLL control ROLLING protection.
- ANTI DIVE should be in parallel.
- ANTI SQUAT control and ANTI DIVE control should work conversely.
- Control PITCHING & BOUNCING Shockabsorberdepending on the new construction situations.
- automatically selected by AUTO-running state. (super soft, soft, medium, hard)
- automatically selected by the SPORT running condition. (medium, hard)
- When accelerating control to LOW garage.
- During decelerationcontrol to NORMAL garage.
- Head lamp OFF : front = LOW, rear = NORMAL.
- Head lamps ON : front = LOW, rear = LOW.
- While operating below 40km/h garage is converted to HIGH.
- Operating the Switch. While operating above10km/h,it is converted to AUTOMODE.

Door System Troubleshooting Trainer YESA-4960

Feature

- Central door locking and electric window switches can be operated to demonstrate the working processes of the systems.
- Organic glass with aluminum rims. The diagram and real objects can help trainees learn and analyze the working principles of the systems.
- The training platform is installed with detection terminals to detect electric signals, resistance, voltage, current, and frequency, of circuit components of the systems.
- The training platform offers the automobile door system assembly and disassembly learning platform.
- Include 12 V power supply.
- Fault–setting and appraisal system.

Specification

- Composition : Driver seat, passenger seat door system 1set, Power switch, Door actuator, 4pin relay, Door pin, Fuse holder etc
- Over 2000cc Left/Right door are attached
- Including single phase 220V–DC12 V power supply
- Troubleshooting and evaluation system
- Rotational stand (reduction gear ratio 100 :1)
- Aluminum panel with door circuit CNC engraved

Door System Troubleshooting Trainer YESA-4961

Feature

- Central door locking and electric window switches can be operated to demonstrate the working processes of the systems.
- Organic glass with aluminum rims. The diagram and real objects can help trainees learn and analyze the working principles of the systems.
- The training platform is installed with detection terminals to detect electric signals, resistance, voltage, current, and frequency, of circuit components of the systems.
- The training platform offers the automobile door system assembly and disassembly learning platform.
- Include 12V power supply.
- fault–setting and appraisal system.

Specification

- Composition : Driver seat, passenger seat door system 1set, Power switch, Door actuator, 4pin relay, Door pin, Fuse holder etc
- Over 2000cc Left/Right door are attached
- Including single phase 220V–DC12 V power supply
- Troubleshooting and evaluation system
- Rotational stand (reduction gear. ratio 100 :1)
- Aluminum panel with door circuit CNC engraved

Advanced Door System Troubleshooting Trainer YESA-4962

Feature

- As a remote control panel, can control door's operating by remote control.
- Central door locking and electric window switches can be operated to demonstrate the working processes of the systems.
- Organic glass with aluminum rims. The diagram and real objects can help trainees learn and analyze the working principles of the systems.
- The training platform is installed with detection terminals to detect electric signals, resistance, voltage, current, and frequency, of circuit components of the systems.
- The training platform offers the automobile door system assembly and disassembly learning platform.
- Include 12V power supply.
- Fault-setting and appraisal system.
- Mounted on a stand with wheel.
- Query of switch positions with short voltage pulses.
  (in established engineering practice, this is carried out by means of static voltage potentials)
- Practice-oriented initial operation procedure. (Observance of actual sequence of actions)
- Oscilloscope as necessary testing device in car body servicing.

Specification

- Composition : Driver seat door system 1set, Power switch, Door actuator, 4pin relay, Door pin, Fuse holder etc
  1) Manufactured with a 3,000cc vehicle
  2) Including a single phase 220V-DC12V power supply
  3) Fault setting and evaluation system
  4) Aluminum profile or steel stand
  5) Wheel stand
  6) Aluminum panel with door circuit CNC engraved
  7) Installed single phase 220V power supply/driving power DC12V

Excavator Electric Circuit Training Simulator YESA-5101

Feature

- An educational unit for understanding the components of the excavator and training.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Effective to educate the troubleshooting and inspection theory/training.

Specification

- Composition : Battery, Operating Lever, Light System, Horn, Hydraulic Lever, Instrument Panel, Starter Motor, Battery Connector, Relay, Digital Meters, Etc
- Electronic systems using a Hyundai heavy machinery excavator 555–7K
- Size: approx. 2,000 X 600 X 1,700 mm

Training Contents

- Measuring the input/output data in each component.

Wheel Loaders Electric Circuit Training Simulator YESA-5102

Feature

- An educational unit for understanding the components of the Wheel loaders electric system and training.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Effective to educate the troubleshooting and inspection theory/training.

Specification

- Composition : ECU, Battery, operating lever, light system, horn, hydraulic lever, starter motor, battery connector, relay, digital meters, power DC 24 V battery, 2 A meter, 2Vmeter
- Electric circuit equipment using Hyundai Heavy machinery wheel loader
- Size : approx. 2,000 X 600 X 1,700 mm
- Weight : approx. 350 kg

Training Contents

- Measuring the input/output data in each component.

Electric Forklift Electric Circuit Training Simulator YESA-5103

Feature

- An educational unit for understanding the components of the Electric Forkliftelectric system and training.
- Is the best model to see operation state and location of components by making parts which aren't seen at an actual one open.
- Effective to educate the troubleshooting and inspection theory, training.

Specification

- Composition : Battery, operating lever, light system, horn, hydraulic lever, instrument panel, starter motor, battery connector, relay, digital meters, etc
- Electrical circuit device of left-seat type Electric Forklift
- Voltage, current measurement of driven rotor and hydraulic rotor during operation
- Size: approx. 2,000 X 600 X 1,700 mm
- Weight: approx. 350kg

Training Contents

- Measuring the input/output data in each component.

- K Sure (Korea Trade Insurance corporation) only choose YES01 as a global growth ladder company in technical teaching equipment sector in South Korea

- PPS(Public Procurement Service) selects YES01 as an entered enterprise in the International Procurement Business(PQ enterprise) in an automotive training equipment sector

- NO1 an international enterprise in Technical Teaching Equipment, over 10billion Revenue, "Great place to work" award

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