



SERVICE TRAINING ACADEMY

DAIMLER TRUCKS NORTH AMERICA



SERVICE TRAINING AIDS

Freightliner® and Western Star® Vehicle Training
Simulation Equipment for Classroom Environments

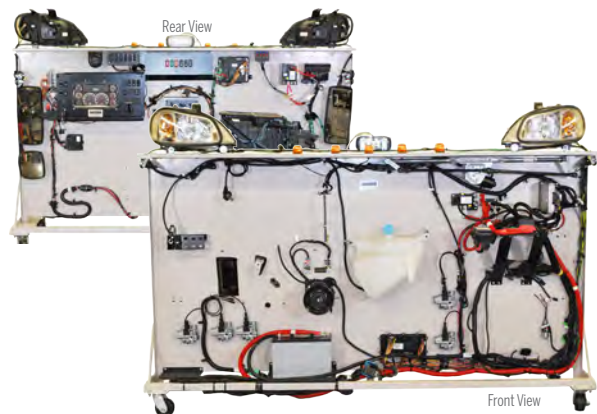
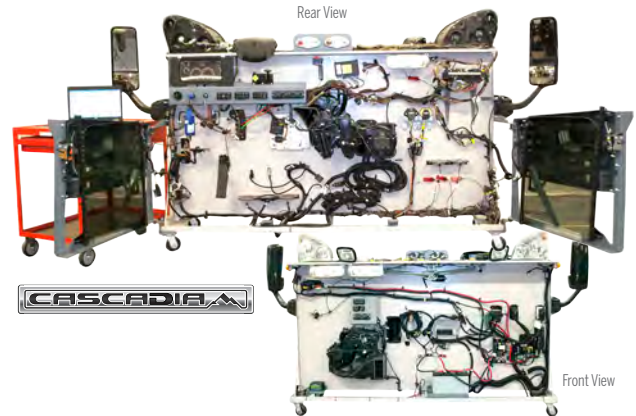
DTNA/STA-TAV015



Freightliner Cascadia Truck Simulator

Simulator package has complete electrical system with fully functioning electronics, lighting, and HVAC systems. All wiring is exposed, allowing for clear understanding of the wiring schematics. Factory components and harnesses utilized. Can be used in place of, or as a supplement to, a truck for training purposes.

TA-VEH-2300 Cascadia Truck Simulator\$16,500



Freightliner M2 Truck Simulator with SmartPlex™

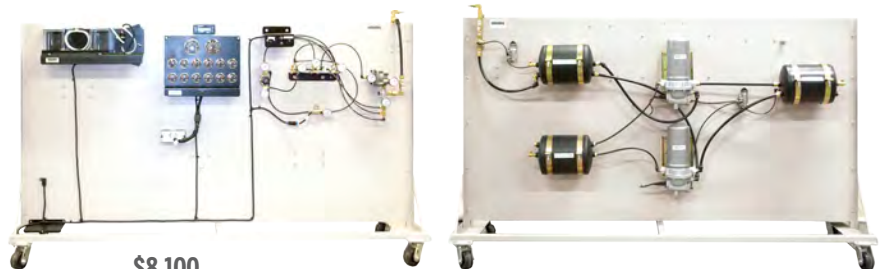
Simulator package has complete electrical system with fully functioning electronics, including the SmartPlex multiplex expansion system, lighting, and HVAC with A/C compressor. The board also features air switches, WABCO ECU with modulators, and a power take-off (PTO) AAVA solenoid. Can be used in place of, or as a supplement to, a truck for training purposes.

TA-VEH-2301 M2 Truck Simulator\$14,750

Western Star Truck Simulator

Simulator equipped with Star gauges, lift axle system, Equiflow fuel system, and dual air dryer system. Simulator is required for the Western Star instructor led training class.

TA-VEH-2302 Western Star Truck Simulator\$8,100



Tractor and Trailer Dual Air Brake System Simulator

Package equipped with fully functioning supply system (less the air compressor), primary air system, secondary air system, and parking brake system. Also included are dashboard air gauges, quick connect fittings on all air lines, trailer glad hands, functioning brake slack adjusters, and trailer system with WABCO ABS.

TA-VEH-2303 Tractor and Trailer Brake System Simulator\$9,800



REAL WORLD DIAGNOSTIC AND REPAIR SCENARIOS

NOW IN YOUR TRAINING ENVIRONMENT.

COMPACT AND MOBILE.

Dual Clutch Simulator

Includes Eaton Solo Advantage® hydraulic clutch and Easy-Pedal Advantage® mechanical clutch. Capable of demonstrating DD15 rear seal installation and flywheel timing procedures, proper parts installation, and clutch assessment and adjustment procedures. Includes clutch adjustment tools.

TA-VEH-2304 Dual Clutch Simulator\$9,200



Hydraulic Clutch Jack

Floor type; 300 lb. capacity. Used to remove, install and transport (in the lowered position) both 14" & 15-1/2" heavy duty clutches and flywheels. 1 3/4" Diameter Spline Shaft use with Eaton Clutches on DTNA clutch stand.

TA-VEH-2305 NORCO 72030B 300 lb. Floor Type Hydraulic Clutch Jack.....\$675



Clutch Adjustment Tools

1 3/4" Diameter Spline Shaft

Used with Eaton Clutches on DTNA clutch stand.

TA-VEH-2306 NORCO 72031 1 3/4" Spline Shaft\$68

Solo Advantage Clutch Reset Tool

Used to move a cam to a new position during the resetting procedure.

TA-VEH-2307 Eaton RR1005CL Solo Advantage Clutch Reset Tool.....\$47.50

Release Bearing Travel Tool

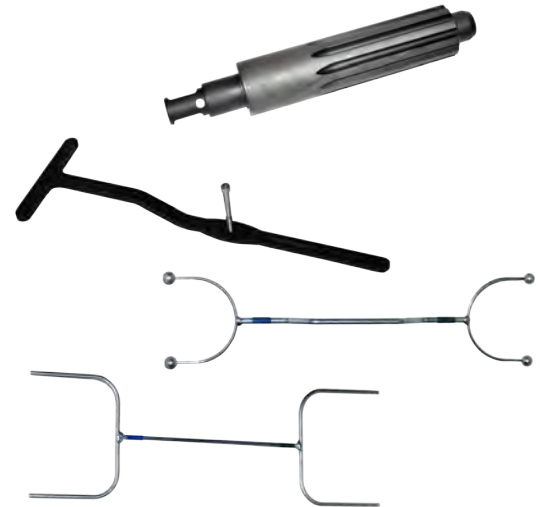
Part number A02-12419; necessary for clutch adjustments as per DTNA service manuals.

TA-VEH-2308 Release Bearing Travel Tool\$65.50

Release Yoke Free Travel Tool

Part number A02-12254; necessary for clutch adjustments as per DTNA service manuals.

TA-VEH-2309 Release Yoke Free Travel Tool.....\$57.50



Drive Line Simulator Kit

Includes the simulator, a second drive line attachment, digital angle meters, shims to customize angles, all packaged in a custom built box to facilitate portability and storage. Capable of demonstrating non-uniform velocity (impact of various drive line angles on speed), vibration and wear effects (including troubleshooting and practical corrective actions), audible and visual indicators of phasing, angle measurement, and U-joint behavior. Pictured table not included.

TA-VEH-2310 Drive Line Simulator Kit\$3,200



CUSTOM BUILT BY SERVICE TRAINING ACADEMY

USING FACTORY FREIGHTLINER® AND WESTERN STAR® COMPONENTS.



Height Adjustable Dual Brake Axle Stand

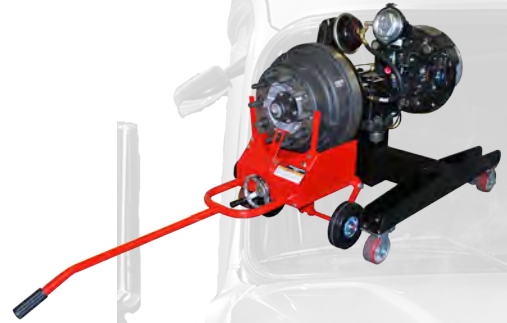
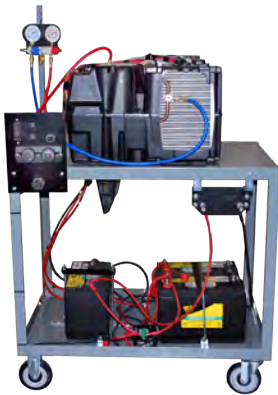
Dual brake stand with 24" to 31.5" adjustable height simulating vehicle conditions and facilitating demonstration and interaction. Capabilities include complete brake jobs, wheel seal installations, wheel bearing adjustments, as well as kingpin and tie rod end R/R. Can be connected to 90 psi shop air system to simulate service brake applications and slack adjuster operation. Configuration options include disc and/or drum brake(s). Stand may be purchased as a standalone item.

TA-VEH-2311 Dual Brake Stand Only	\$950
TA-VEH-2312 Disc Brake Only (each)	\$2,850
TA-VEH-2313 Drum Brake Only (each)	\$2,550

Brake Drum Handler

Designed for removing, installing and transporting outboard mounted brake drums and inboard mounted drums with disc wheel hubs.

TA-VEH-2314 NORCO 72040B Brake Drum Handler	\$285
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ParkSmart™ HVAC System

Complete running ParkSmart unit mounted on heavy duty cart with controller and interlock for separating truck starting batteries. Live working unit allows technicians to diagnose, identify, and access unit components. Displays refrigerant state during demonstration and diagnostic operations. Batteries not included. ParkSmart system revision 4.

TA-VEH-2315 ParkSmart HVAC System	\$2,150
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EquiFlo® Fuel System Simulator

Simulates the functionality of the EquiFlo fuel system, designed to pump fuel to and from the engine while equalizing the fuel levels in the tanks. Equipped with plug vents, pinch lines, and electric pump.

TA-VEH-2316 EquiFlo Fuel System Simulator	\$425
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Brush-Type Blower Motor Simulator

Allows students to identify and diagnose voltage and current throughout the blower motor circuitry. Used to support the HVAC instructor led class.

TA-VEH-2317 Brush-Type Blower Motor Simulator	\$255
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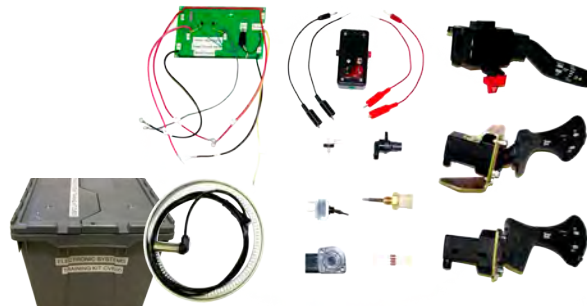




Electronic Systems Class Kit

Kit supports the Electronic Systems ILT class and includes four sets of each of the following: low coolant level sensor, throttle position sensor, camshaft sensor, ABS sensor and tone ring, toggle switches, transmission smart shift paddle, 5v supply, and FET circuit board. Electrical learning boards not included.

TA-VEH-2318 Electronic Systems Class Kit.....\$2,350



Student Electrical Learning Board

Student electrical learning board enables quick and easy setup of electrical circuits for understanding and diagnosis.

TA-VEH-2319 Student Electrical Learning Board\$100



Electrical Troubleshooting Kit

Electrical Troubleshooting kit includes relays with harnesses, toggle switches, momentary switches, light bulb harness, type I and II circuit breakers with harnesses, red/black jumper leads, power supply harness, switch/fuse harness, carrying case, and a variety of connectors and hardware to set up each student electrical learning board. 12v power supply not included.

TA-VEH-2320 Electrical Troubleshooting Kit.....\$400



Electrical Troubleshooting Bug Kit

Instructor bug kit contains bugged red & black attaching harnesses with alligator clips (open and resisted), bugged light harnesses (open and resisted), bugged relay & type II circuit breaker, faulty light bulbs, bugged switch harnesses (open and resisted) and tail light jumper harness (resisted). Each kit serves one student electrical learning board.

TA-VEH-2321 Electrical Troubleshooting Bug Kit..... \$200



Ride Height Suspension Adjustment Blocks

21K/40K and 23K/46K/69K Axle Blocks used to demonstrate and adjust ride height suspension. Includes 66.7mm (part # H16-14907-000) and 76.2mm (part # H16-17580-000).

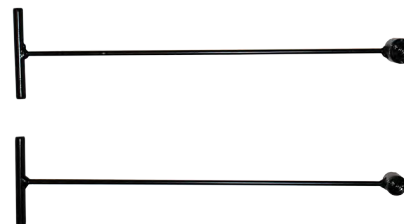
TA-VEH-2322 Ride Height Suspension Adjustment Blocks (pair)..... \$105



Axle Steering Stops

Used for power steering diagnostics to determine poppet pressure, as outlined by Daimler Trucks North America service literature. Includes ST 10 stop (M2 only) and ST 20 stop (all others) used in the Heavy Duty Truck Systems course.

TA-VEH-2323 Axle Steering Stops (pair)..... \$105





Custom built training aids by Daimler Trucks North America's Service Training Academy simulate real world diagnostic and repair scenarios in the classroom learning environment.

Each training aid is built with the same factory components used on Freightliner and Western Star trucks, ensuring that technicians are familiar with the exact setups seen in the service bay. From full working HVAC systems to brake slack adjusters, all functioning components of a truck are available.

Prices listed are manufacturer's suggested retail and do not include tax, crating or shipping costs. All components are new unless otherwise noted. All items are intended for training use only and are subject to availability. Contact Service Training Academy Custom Built Training Aids with custom item inquiries.