

DETROIT DIESEL

Series 40E™



On-Highway Power

Detroit Diesel Power Built to Perform In On-Highway Situations

The Series 40E is designed using the most advanced technology available today. The Series 40E is sold, serviced and supported by the Detroit Diesel Series 40 team headquartered in Detroit, Michigan, and by the network of Detroit Diesel distributors and dealers located throughout the world.

The Series 40E offers the single box, engine mounted electronic controls, utilizing the HEUI fuel system (Hydraulically actuated Electronically controlled Unit Injectors).

Detroit Diesel Takes Care of Your Engine Power Needs

Features

- Fuel governing (isochronous or min/max)
- Hand throttle/PTO
- Enhanced driver/management interface
- Remote throttle control
- Improved installation (reduced cost & engine mounted ECM)
- Fuel economy optimization
- Alternate torque curve
- Emissions, smoke, and noise control
- Transmission interface
- Enhanced cold starting
- Throttle inhibit
- Cruise control
- Fast idle

Engine Protection

- Engine warning system
- Engine crank inhibit
- Coolant temperature compensation

Diagnostics – Maintenance

- Complete diagnostics-troubleshooting (out of range & rational checks on sensors, engine off/running injector tests, active codes, and inactive codes)
- MPSI ProLink diagnostic reader
- No injector setting required
- Reduced maintenance
- Tamper protection



Basic Engine Data

Number of Cylinders	6	
Displacement	7.6L 466 cu. in.	8.7L 530 cu. in.
Bore and Stroke	4.59 in. x 4.68 in. (117 mm x 119 mm)	4.59 in. x 5.35 in. (117 mm x 136 mm)
Weight (dry)	1367lbs. (620kg)	1399lbs. (634kg)
Compression Ratio	16.4:1	17.2:1
Engine Type	4-cycle Inline	
Combustion System	Direct Injection	
Aspiration	Turbocharged/Air-to-Air Cooled	

Dimensions

Length	44.63 in. (1135 mm)
Width	27.72 in. (704 mm)
Height	39.61 in. (1006 mm)

Rated Power Output

Engine	BHP (kW) @ RPM
7.6LTA	175 BHP (130 kW) @ 2300 RPM ¹
7.6LTA	195 BHP (145 kW) @ 2300 RPM ¹
7.6LTA	195 BHP (145 kW) @ 2300 RPM ²
7.6LTA	210 BHP (157 kW) @ 2300 RPM ³
7.6LTA	215 BHP (160 kW) @ 2300 RPM ¹
7.6LTA	215 BHP (160 kW) @ 2300 RPM ²
7.6LTA	230 BHP (172 kW) @ 2300 RPM ¹
7.6LTA	230 BHP (172 kW) @ 2300 RPM ²
7.6LTA	250 BHP (187 kW) @ 2300 RPM ¹
7.6LTA	250 BHP (187 kW) @ 2300 RPM ²
8.7LTA	275 BHP (205 kW) @ 2000 RPM ⁴
8.7LTA	275 BHP (205 kW) @ 2000 RPM ⁴
8.7LTA	280 BHP (209 kW) @ 2000 RPM ⁴
8.7LTA	300 BHP (224 kW) @ 2000 RPM ⁴
8.7LTA	300 BHP (224 kW) @ 2000 RPM ⁴
8.7LTA	300 BHP (224 kW) @ 2000 RPM ⁴
8.7LTA	300 BHP (224 kW) @ 2000 RPM ⁵
8.7LTA	300 BHP (224 kW) @ 2000 RPM ⁴
8.7LTA	330 BHP (246 kW) @ 2000 RPM ⁴
8.7LTA	330 BHP (246 kW) @ 2000 RPM ⁶

Peak Torque (lb-ft @ RPM)
460 lb-ft (624 N•m) @ 1400 RPM
520 lb-ft (705 N•m) @ 1400 RPM
560 lb-ft (759 N•m) @ 1400 RPM
520 lb-ft (705 N•m) @ 1400 RPM*
560 lb-ft (759 N•m) @ 1400 RPM
620 lb-ft (841 N•m) @ 1400 RPM
620 lb-ft (841 N•m) @ 1400 RPM
660 lb-ft (895 N•m) @ 1400 RPM
660 lb-ft (895 N•m) @ 1400 RPM*
800 lb-ft (1085 N•m) @ 1400 RPM
800 lb-ft (1085 N•m) @ 1200 RPM
860 lb-ft (1166 N•m) @ 1200 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
860 lb-ft (1166 N•m) @ 1200 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
950 lb-ft (1288 N•m) @ 1300 RPM*
1050 lb-ft (1424 N•m) @ 1200 RPM
950 lb-ft (1288 N•m) @ 1200 RPM**
1150 lb-ft (1559 N•m) @ 1300 RPM**

* Euro II On-Highway and not available in the United States

** Limited to a 30% load factor

¹ Governed at 2600 RPM

² Governed at 2400 RPM

³ Governed at 2580 RPM

⁴ Governed at 2200 RPM

⁵ Governed at 2280 RPM

⁶ Governed at 2100 RPM



Series 40E

Standard Equipment

Belt tensioner — Polyvee
serpentine belt

Coolant conditioner

Cylinder liners — Wet replaceable

Electronic control — Engine
mounted

Fan drive — 15.1" height

Flywheel housing — SAE #2

Flywheel — SAE #2, 14" manual

Fuel filter

**Hydraulically Actuated Electronically
Controlled Unit Injectors (HEUI)**

Lube oil filter — Spin on full flow

Oil cooler — Engine mounted

Oil pan — Rear sump

Rocker cover — Top inlet

Turbocharger — Wastegate GT type

Optional Equipment

Air compressor — Bendix TuFlo 550
Bendix TuFlo 750

Alternator — Various

Alternator bracket — Various

Fan drive — Various

Front mounts — Various

Fuel filter — Remote accessory

Oil pan — Various

PTO adapter — SAE "B", 11 tooth

Power steering pump — Various

Pulleys — Accessory drive C/S

Rocker cover — Side inlet

Starter motor — Delco 37 MT
(12 or 24V) Delco 42 MT

Turbocharger — Reverse High mount

Thermostat bypass — Vertical
Horizontal

Water inlet — Various

Service and Parts Support

Equally important to our technology leadership and dedication to quality is our commitment to service. With over 2000 distributors and dealers located throughout the world, you can be reasonably assured that no matter where you are, Detroit Diesel will have the parts and service support you need when you need it.

The world's greatest engines are sold and supported by Detroit Diesel's vast distributor network.

Detroit Diesel maintains a world-wide Parts Distribution Center in Canton, Ohio and major parts warehouse operations in Texas (serving our Mexican operations), the Netherlands, and Singapore. The Canton facility covers nearly 600,000 square feet and features computerized parts tracking, state-of-the-art packaging capability and 14 shipping docks. Emergency air shipment is available to distributors on a 24-hour-a-day, seven-day-a-week basis to anywhere in the world.

For More Information
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