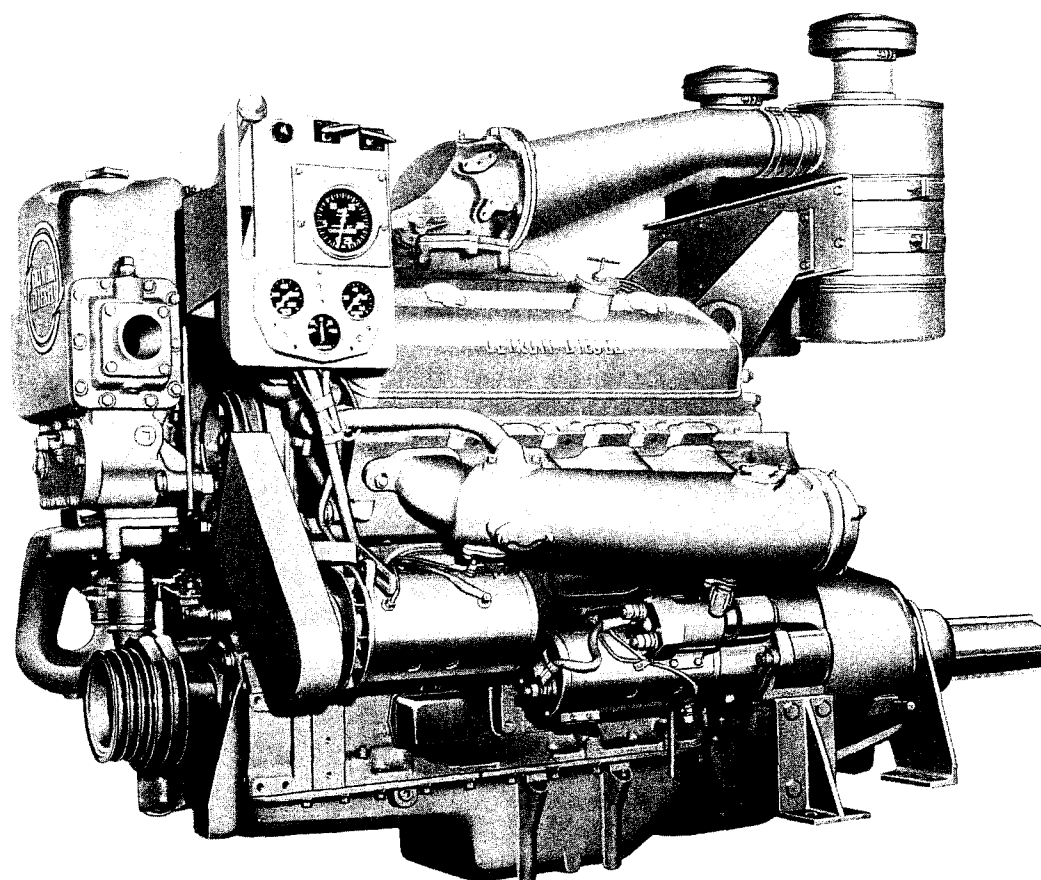


DETROIT DIESEL

POWER PLANTS
HEAVY
EXCHANGING
12V-71

MODEL

| | |
|--------|-----------|
| 6V-71 | 7064-7202 |
| 8V-71 | 7084-7202 |
| 12V-71 | 7124-7202 |



Model 7084-7202

A Power Product of General Motors



SPECIFICATIONS

| | 6V-71 | 8V-71 | 12V-71 |
|---|-------------------|-------------------|-------------------|
| Model | 7064-7202 | 7084-7202 | 7124-7202 |
| Engine Type | Two Cycle | Two Cycle | Two Cycle |
| No. of Cylinders | 6 | 8 | 12 |
| Bore and Stroke | 4 1/4 in. x 5 in. | 4 1/4 in. x 5 in. | 4 1/4 in. x 5 in. |
| Two Cycle Displacement (Every Downstroke a Powerstroke) | 426 cu. in. | 568 cu. in. | 852 cu. in. |
| Maximum Brake Horsepower—2300 RPM | 255 | 336 | 504 |
| Rated Brake Horsepower—2100 RPM | 218 | 290 | 434 |
| Continuous Brake Horsepower—1800 RPM | 170 | 227 | 340 |
| Torque—1200 RPM | 604 lb. ft. | 805 lb. ft. | 1205 lb. ft. |
| Compression Ratio | 17 to 1 | 17 to 1 | 17 to 1 |
| Net Weight (Dry) with Standard Equipment | 2450 lbs. | 2930 lbs. | 4200 lbs. |

STANDARD EQUIPMENT

Air Cleaners—Heavy-duty oil bath—Mounted
 Air Inlet Housing—Manual shutdown with 50" control cable
 Crankshaft Pulley—3 grooves—6.16" diameter with two accessory grooves—7.50" diameter
 Exhaust Manifold—Water cooled with exhaust flanges
 Flywheel—SAE #1—Models 7064-7202 and 7084-7202
 SAE #1/2—Model 7124-7202
 Flywheel Housing—SAE #1—Models 7064-7202 and 7084-7202
 —SAE #1/2 Model 7124-7202
 Generator—12 volt, 25 amp, Model 7064-7202
 24 volt, 20 amp, Models 7084-7202 and 7124-7202
 Governor—Mechanical limiting speed
 Heat Exchanger
 Injector—Cam operated Unit Type

Instrument Panel—Includes tachometer, ammeter, water temperature and oil pressure gages, starter button and wiring harness.

Lube Oil Filter—Full-flow filter

Oil Pan and Distribution System—

Stamped for 10 degree inclination. Model 7064-7202
 Stamped for 10 degree inclination. Model 7084-7202
 Cast Iron for 10 degree inclination. Model 7124-7202

Power Take-Off—

Short shaft, single plate—14"—Model 7064-7202
 Short shaft, double plate—14"—Model 7084-7202
 Short shaft, double plate—18"—Model 7124-7202

Starting Motor—

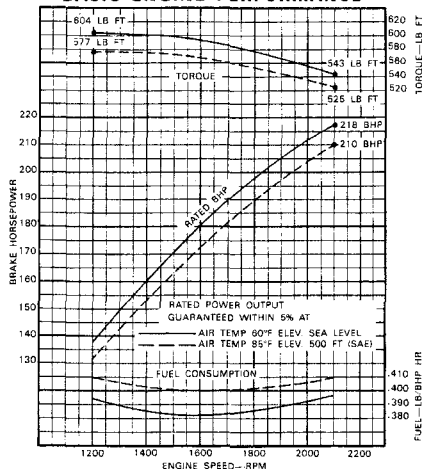
12 volt Sprag clutch, Model 7064-7202
 24 volt Sprag clutch, Models 7084-7202 and 7124-7202

Vibration Damper—Model 7124-7202 only

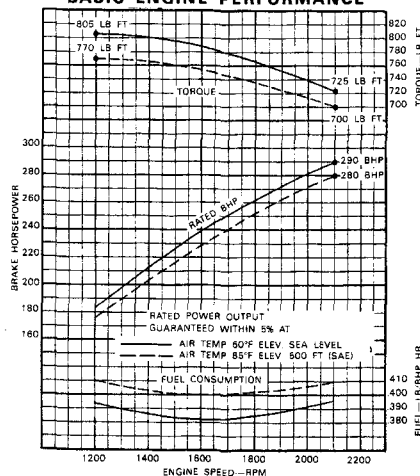
OPTIONAL AND EXTRA EQUIPMENT AVAILABLE

PERFORMANCE

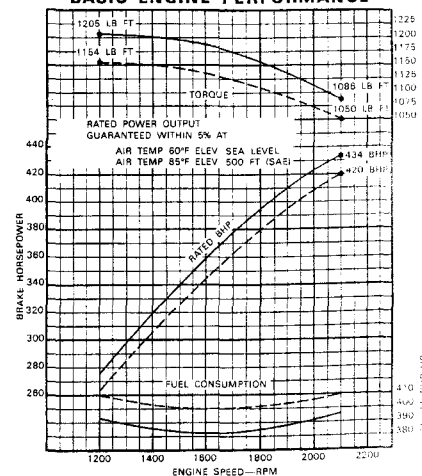
MODEL 7064-7202
BASIC ENGINE PERFORMANCE



MODEL 7084-7202
BASIC ENGINE PERFORMANCE



MODEL 7124-7202
BASIC ENGINE PERFORMANCE



Rating Explanation

RATED BHP is the power rating for variable speed and load applications where full power is required intermittently. Performance may be derated to improve fuel economy and extend engine life.

CONTINUOUS BHP is the power rating for applications operating under a constant load and speed for long periods of time.

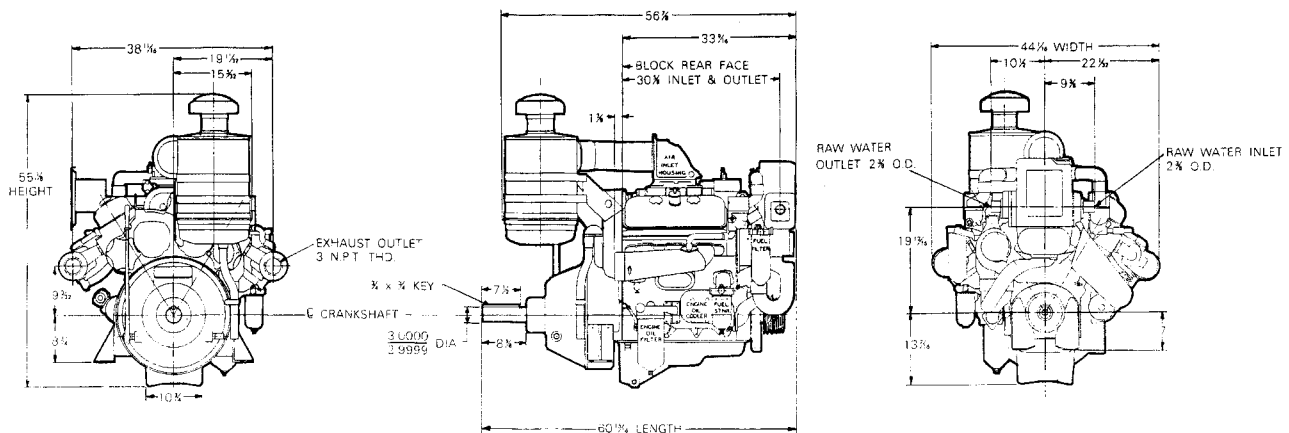
For complete engine specifications for your particular application, see your authorized Detroit Diesel representative.

FUEL CONSUMPTION CURVE shows fuel used in pounds per brake horsepower hour.

THESE RATINGS do not include power requirements for accessory and standard equipment.

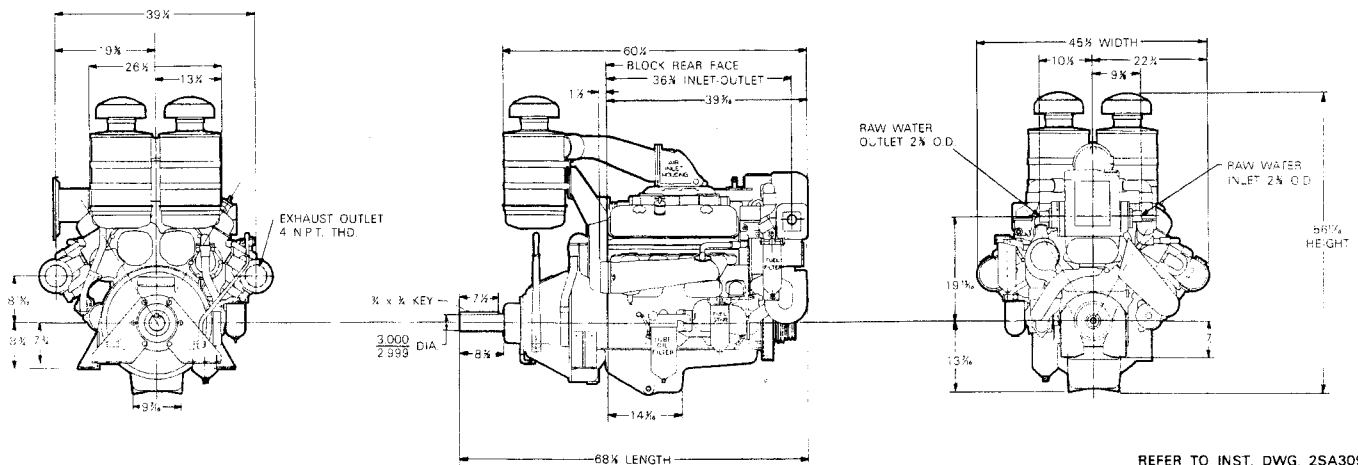
PRINCIPAL DIMENSIONS

7064-7202



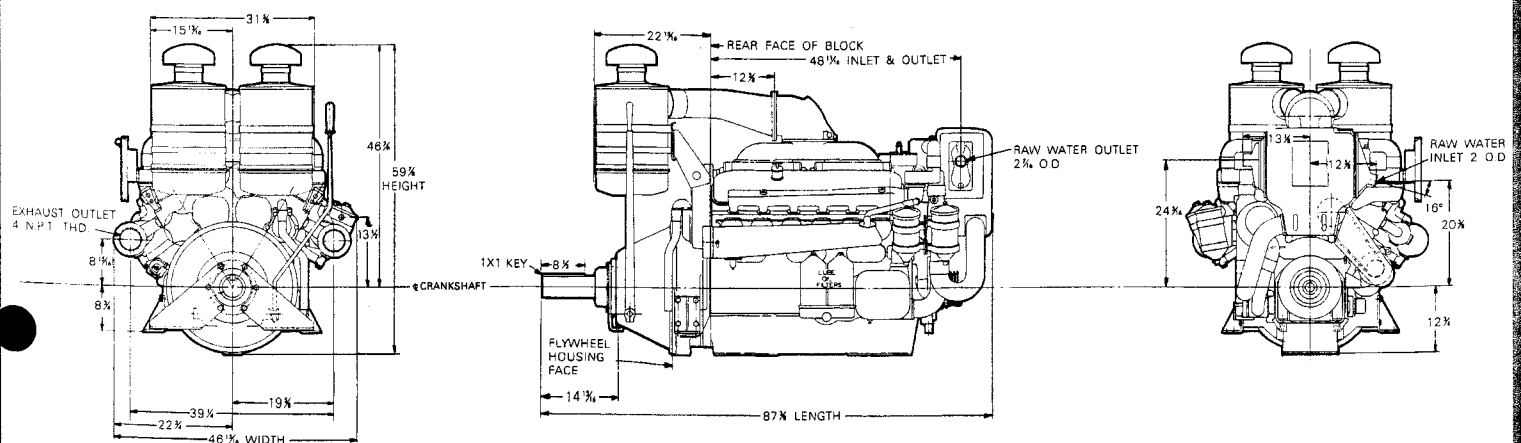
REFER TO INST. DWG. 2SA308

7084-7202



REFER TO INST. DWG. 2SA309

7124-7202



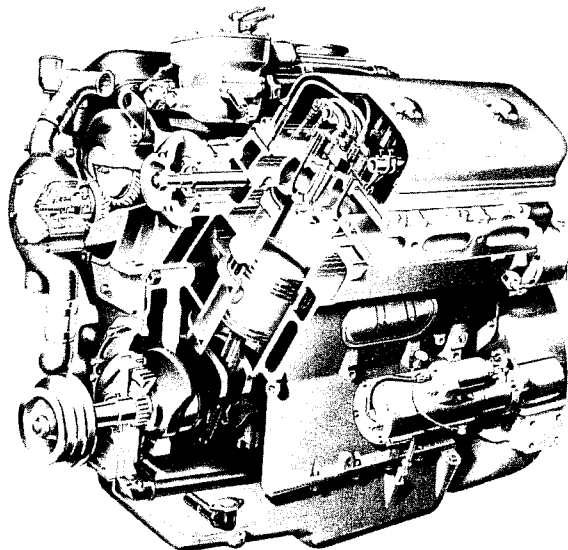
REFER TO INST. DWG. 2SA274

DETROIT DIESEL FEATURES

Family of Engines

RUGGED, PRECISION CONSTRUCTION

- Laminated metal compression rings and synthetic rubber washer-like seals provide leak proof bond between the cylinder head and block.
- Cylinder head is a sturdy distortion-resistant one-piece alloy iron casting. Hardened valve seats are pressed into the cylinder head for proper valve seating, longer head life and less valve grinding.
- One-piece drop forged camshaft with hardened cams and journals.
- Replaceable heat-treated cast iron cylinder liners with a hard scuff-resistant wearing surface.
- Precision machined pistons, ribbed for cooling and strength and tin plated for superior oil retention.
- Break-resistant hard chrome steel piston rings.
- Drop-forged steel connecting rods rifle-drilled for lubrication at the pin and for spray tip cooling of the piston head.
- Strong, durable, induction-hardened crankshaft, counter-weighted for proper static and dynamic balancing and drilled for pressure lubrication to main and connecting rod bearings.

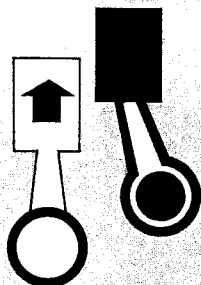


UNMATCHED PARTS INTERCHANGEABILITY

Only Detroit Diesel engines which feature this unmatched parts interchangeability can be repaired with the same ease and speed.

MODERN DESIGN

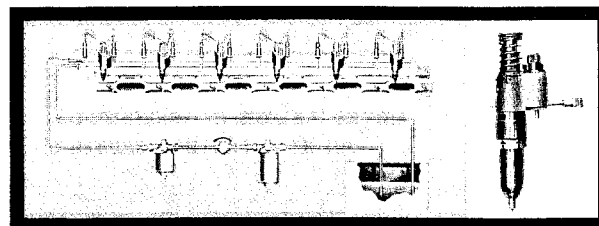
EXHAUST & INTAKE



COMPRESSION & POWER

The four functions of intake, compression, power, and exhaust are accomplished in one crankshaft revolution. Every piston downstroke is a powerstroke. This design makes Detroit Diesels lightest in weight, smallest in size and fastest in acceleration of all diesels. More work is done faster, more economically.

UNIT INJECTION FUEL SYSTEM



The simplest, most efficient Diesel fuel system ever devised. Cam-actuated Unit Injectors (one per cylinder) meter, pressurize, atomize and inject the fuel in one operation. A simple low-pressure transfer pump circulates fuel through the lines, filters, and injectors.

WORLD-WIDE SALES, PARTS, AND SERVICE



DETROIT DIESEL ENGINE DIVISION

GENERAL MOTORS CORPORATION ■ 13400 West Outer Drive Detroit, Michigan, 48228

IN CANADA: GENERAL MOTORS DIESEL LIMITED ■ LONDON, ONTARIO