



Replacement Engine Kit

Groundsmaster® 580-D, Model 30581

Part No. 110-6120

Form No. 3354-823 Rev. A

Installation Instructions

Temperature Senders

Remove the water temperature warning light, gauge and shut down senders from the old engine and install on new engine (Fig. 1).

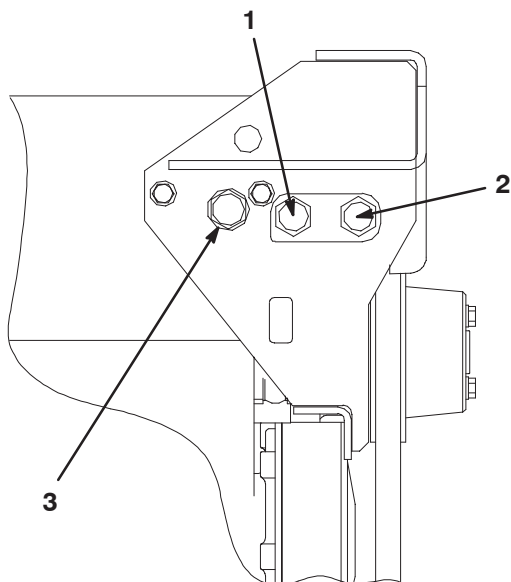


Figure 1

- | | |
|---------------------------------------|---|
| 1. Water temperature gauge sender | 3. Water temperature warning light sender |
| 2. Water temperature shut down sender | |

Shipping Cover

Remove the (4) bolts securing the shipping cover and the foam to the front of the engine (Fig. 2). Discard the bolts, cover and foam.

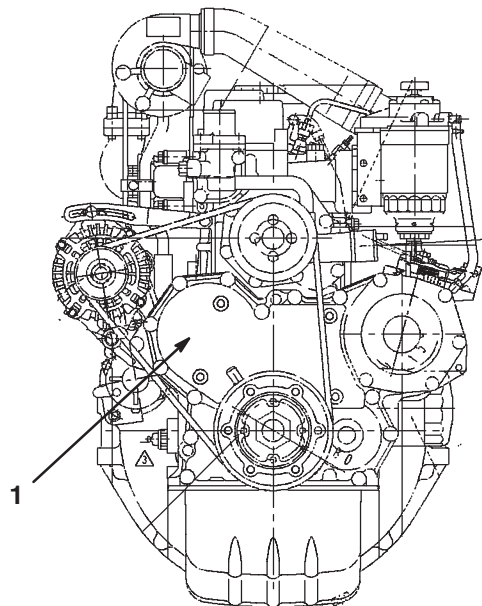


Figure 2

1. Shipping cover

Motor Mounts

If required, replace the existing left motor mounts, positioning as shown in figure 3.

Fan & Idler Brackets

If required, replace the existing fan and idler brackets, positioning as shown in figure 3.

Air Cleaner Bracket

Replace the existing air cleaner bracket, positioning as shown in figure 3.

Throttle Cable Bracket

If required, replace the existing throttle cable bracket, positioning as shown in figure 3. Also, replace the connecting hardware.

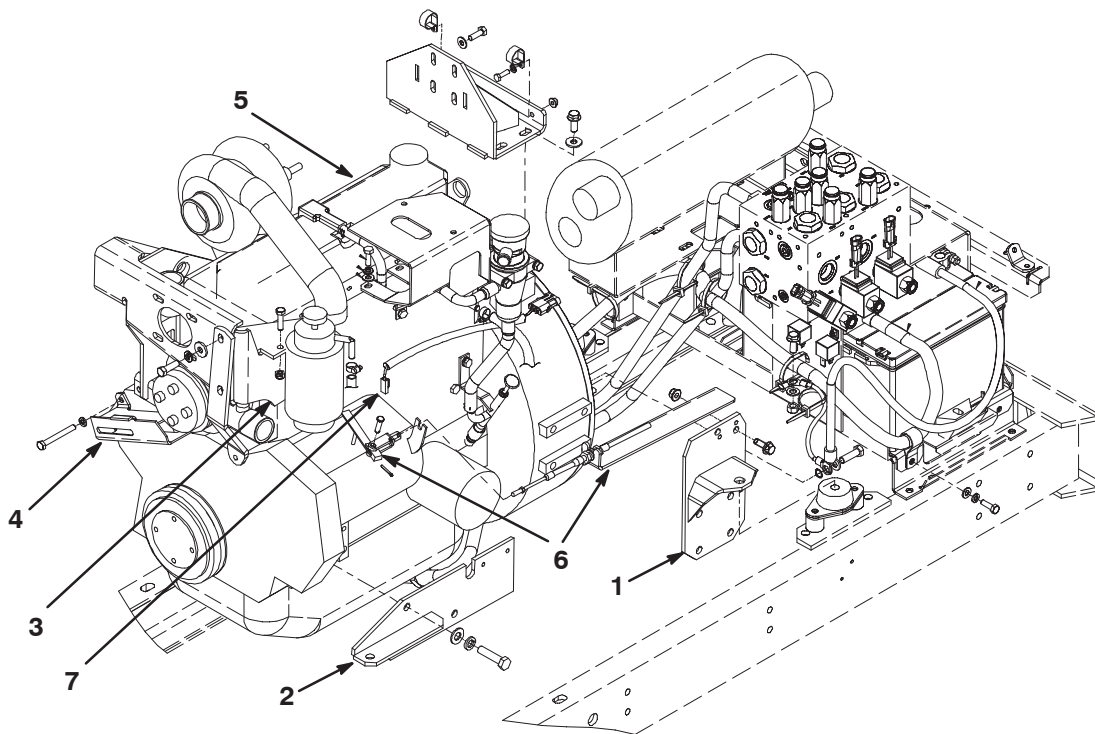


Figure 3

- | | | | |
|-----------------------------|------------------------|------------------------------------|-------------------------|
| 1. Motor mount (left front) | 4. Idler bracket | 6. Throttle cable bracket/hardware | 7. Wire harness adapter |
| 2. Motor mount (left rear) | 5. Air cleaner bracket | | |
| 3. Fan bracket | | | |

Bellhousing Support Kit

Refer to the Toro Commercial Service Bulletin # 02-10 for Rotaries to install the bellhousing support kit. Figure 3 also shows the positioning of the components.

Fuel Hoses

Replace any fuel hoses that do not fit the new installation. Measure and cut the hoses to the required length.

Important The hoses must be free of twists and must not contact any sharp edges or any hot or moving parts.

Wire Harness Adapter

The wire harness adapter connects the main harness to the run solenoid.

Miscellaneous Wiring

- The blue wire, from the machines main harness, previously connected to the alternator is not required for this application.
- The wire from the engine fuel/water separator is not required for this application. Use the fuel/water separator located on the motor mount.