

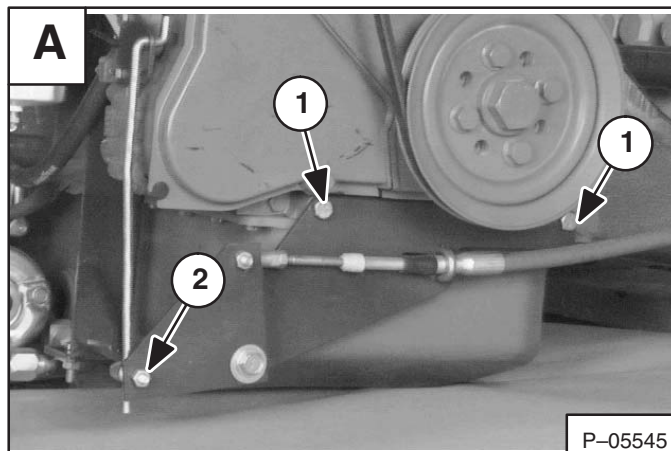
ENGINE AND ENGINE MOUNTS (Cont'd)

Removal And Installation (Cont'd)

Remove the alternator belt shield.

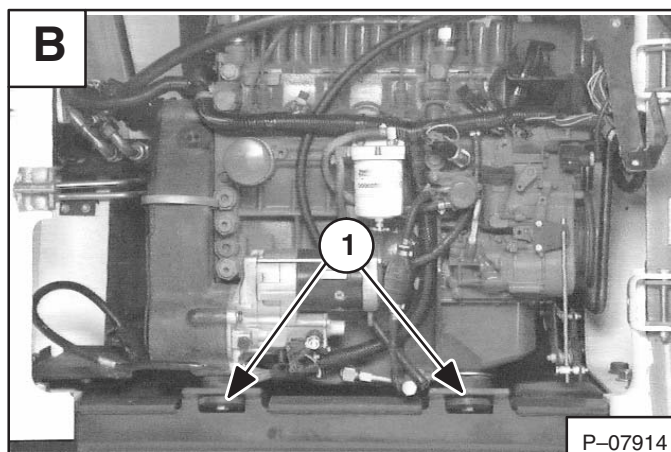
At the right side of the engine, remove the two throttle bracket mount bolts (Item 1) [A].

Disconnect the throttle rod connector (Item 2) [A].



Remove the left and right rear engine mounting bolts (Item 1) [B] and nuts.

Installation: Tighten the bolts and nuts to 61–69 ft.-lbs. (83–94 Nm) torque.

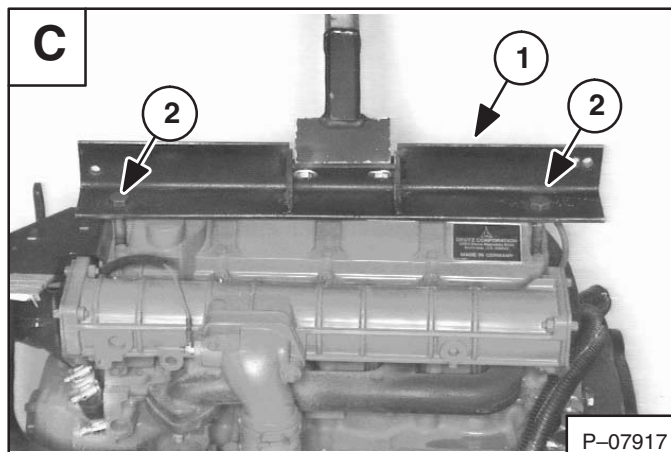


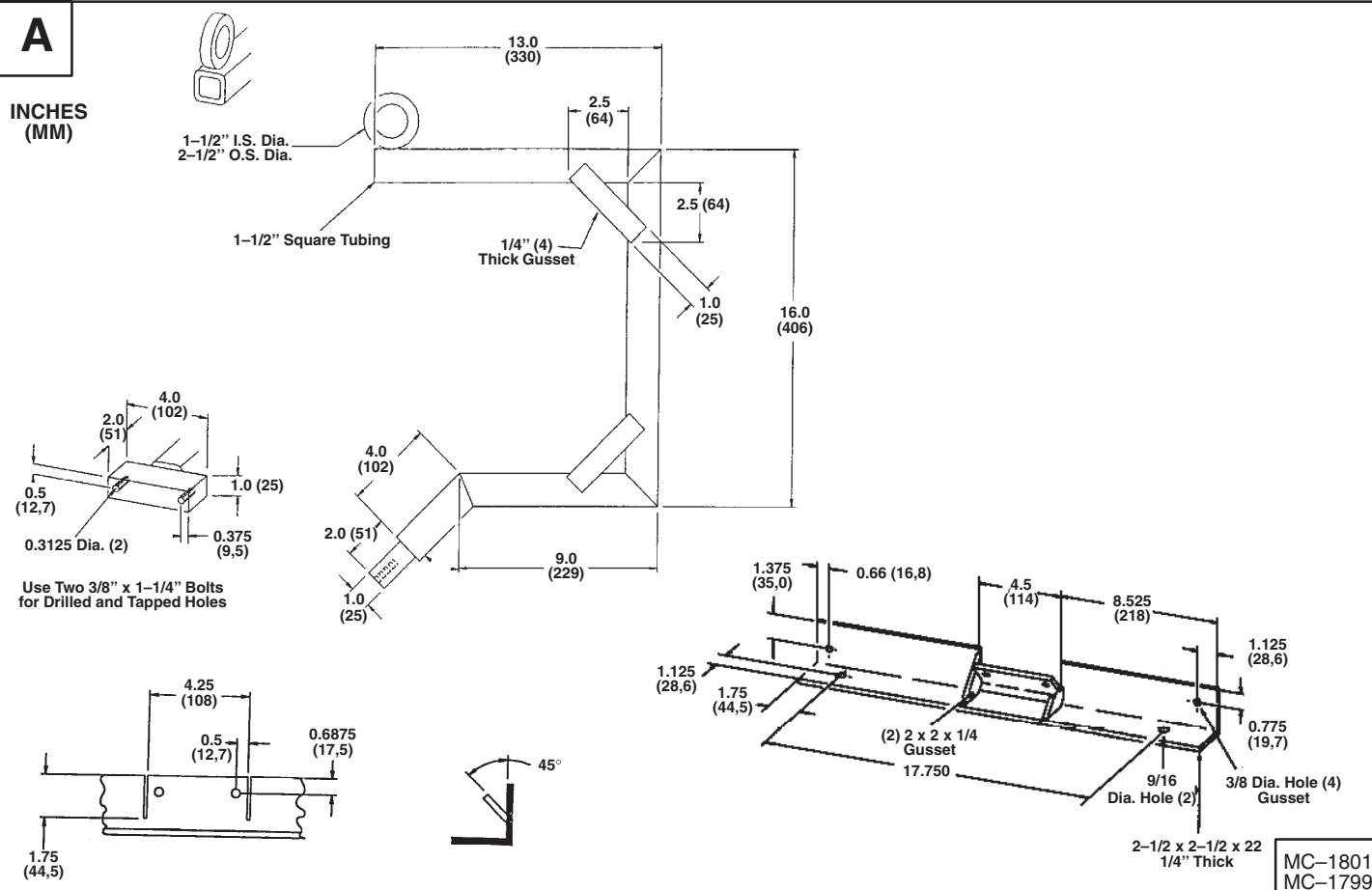
Use the dimensions from (Figure ([A] Page 7–34) to make engine removal and installation brackets.

Install the lift bracket (Item 1) [C] on the engine.

Tighten the bolts (Item 2) [C] until the lift bracket is held firmly against the valve cover.

NOTE: Bolts required are two 12x80 mm x 1.75 thread.

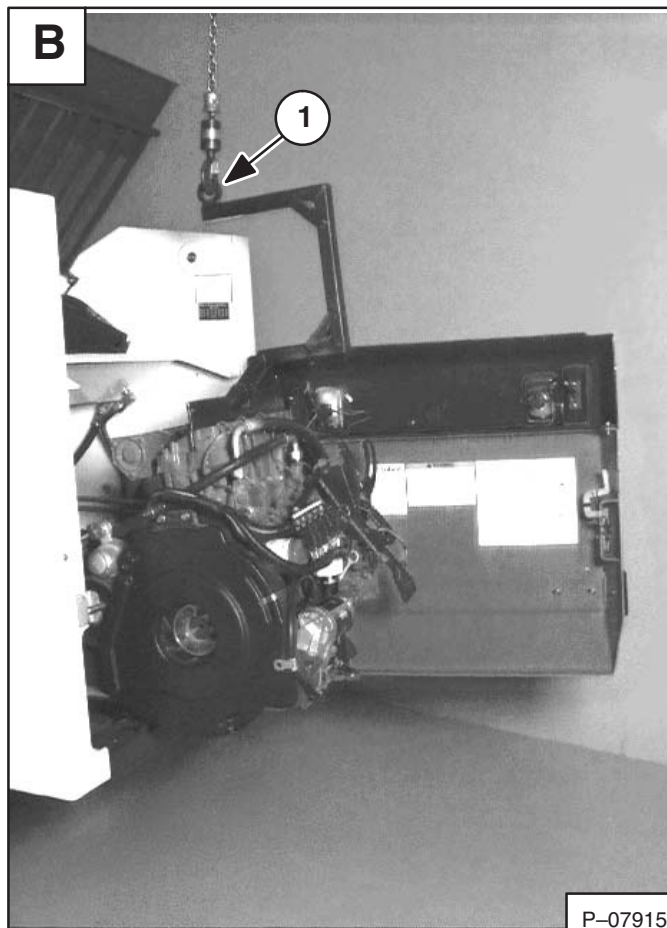


A**INCHES
(MM)****ENGINE AND ENGINE MOUNTS (Cont'd)****Removal And Installation (Cont'd)**

Connect a chain hoist to the ring (Item 1) [B] on the lift bracket.

Remove the engine/hydrostatic pump assembly from the loader [B].

NOTE: Residue remaining in the engine oil cooler may contaminate the engine oil and damage the engine. In the event of severe engine oil contamination, oil cooler replacement is recommended. Drain and flush the cab heater and plumbing thoroughly.



ENGINE AND ENGINE MOUNTS

Engine Mount Replacement

Use the following procedure to install new engine mounts:

Remove the existing mount from the engine. Refer to engine removal and installation for engine mount locations.

Replace all four engine mounts (two front and two rear).

Use the parts shown to install the new engine mounts **[A]**.

Item 1 – Square Nut – Used on left side engine mounts

Item 2 – Hex Nut – Used on right side engine mounts

Item 3 – Mount Washer

Item 4 – Engine Mount

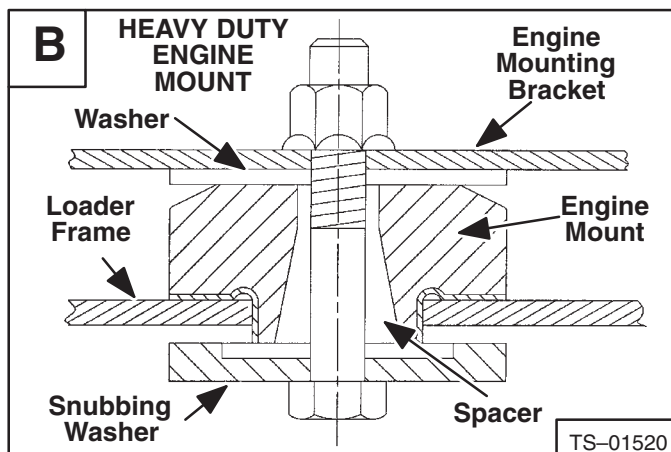
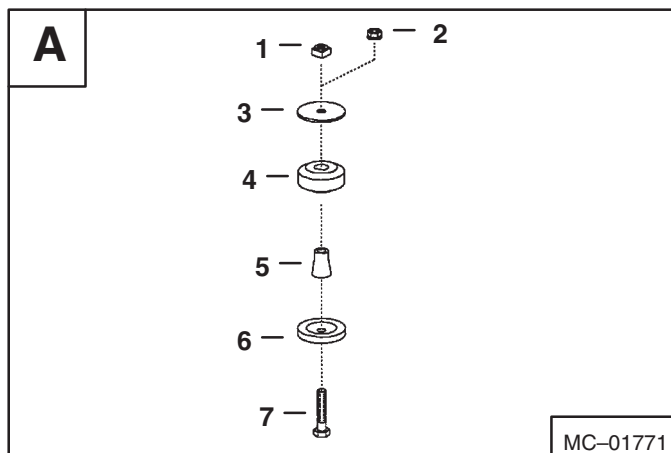
Item 5 – Tube Spacer

Item 6 – Snubbing Washer

Item 7 – Mounting Bolt

Install the new engine mount as shown in the cut away side view **[B]**.

Tighten the mounting bolts to 61–69 ft.-lbs. (83–94 Nm) torque.



FLYWHEEL AND HOUSING

Flywheel Removal And Installation

Remove the drive belt. (See Page 3-1.)

Remove the bolts (Item 1) [A] from the flywheel.

Installation: Tighten the flywheel bolts as follows:
Initial Torque 22 ft.-lbs. (30 Nm)
1st. Step Angle 60°
2nd. Step Angle 30°

Remove the flywheel from the engine crankshaft [B].

Ring Gear Removal And Installation

NOTE: The lead chamfer on ring gear tooth must face the starter.

The ring gear (Item 1) [B] on the flywheel is an interference fit. Heat the ring gear enough to expand it and hit it with a hammer to remove it evenly.

Clean the outer surface of the flywheel to give it a smooth fit.

Clean the new ring gear and heat it to a maximum temperature of 428°F (220°C).

Fit the ring gear over the flywheel. Make sure the gear is on the seat correctly.

Flywheel Housing Removal And Installation

Remove the drive belt. (See Page 3-1.)

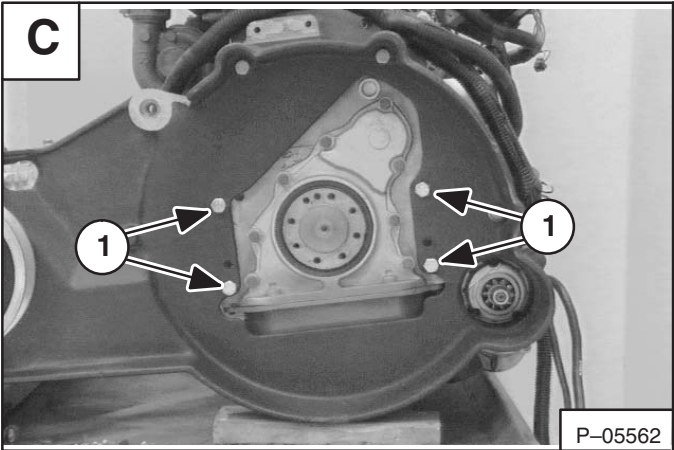
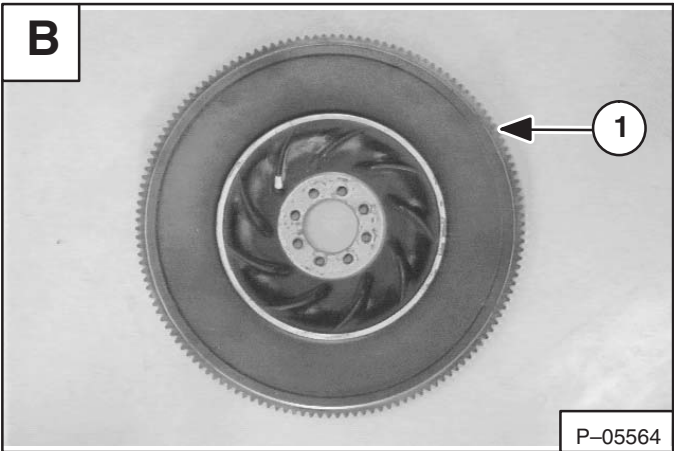
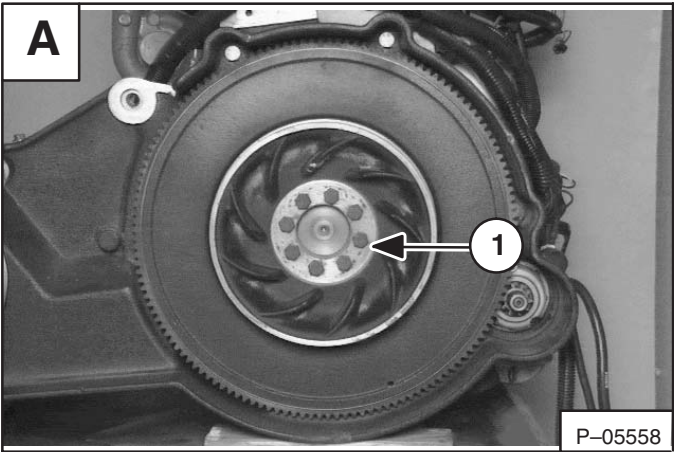
Remove the hydrostatic pump. (See Page 3-1.)

Remove the belt tension pulley assembly. (See Page 3-1.)

Remove the starter. (See Page 6-1.)

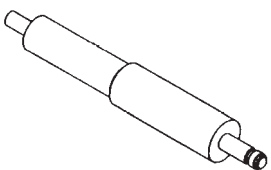

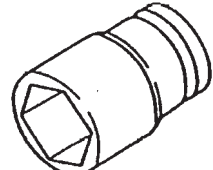
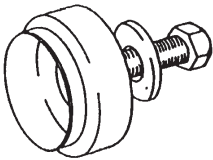
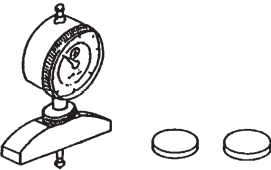
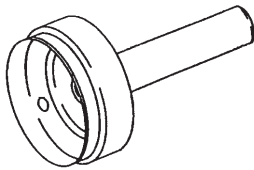
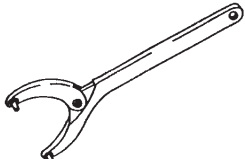
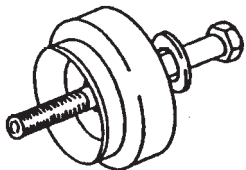
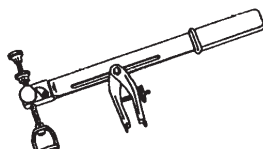
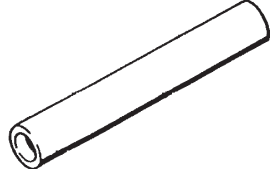
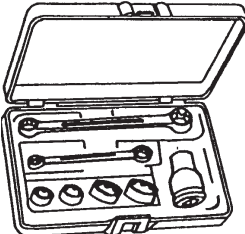
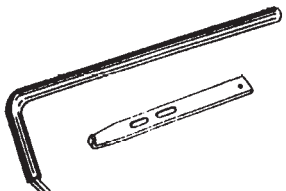
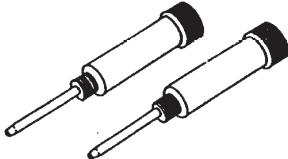
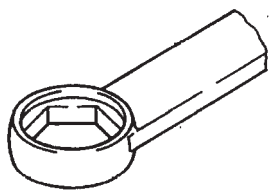

Remove the flywheel housing mounting bolts (Item 1) [C].

Remove the flywheel housing from the engine.



RECONDITIONING THE ENGINE

Deutz Engine Tools Identification Chart

Part No.	Description	Illustration	Part No.	Description	Illustration
MEL1433	Compression Test Adapter		MEL1460	Belt Tension Tool for Toothed Belt	
MEL1453	Socket 60 JMP		MEL1461	Crankshaft Seal Tool (Front)	
MEL1454	Depth Gauge w/Spacers		MEL1462	Crankshaft Seal Tool (Rear)	
MEL1455	Spanner		MEL1463	Camshaft Seal Tool	
MEL1456	Valve Spring Assembly Lever		MEL1464	Valve Stem Seal Tool	
MEL1457	Torx Tool Kit		MEL1465	Crankshaft Gasket Removing Tool	
MEL1458	Timing Pin for Crankshaft and Camshaft		MEL1466	Camshaft Gear Wrench	
MEL1459	Adjusting Pin for Injection Pump Control		MEL1467	Centering Pin Injection Pump Control Lever	