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MODEL:

16, 18, 20 & 24

Onan Engines

MANUAL PREVIEW

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JD-S-CTM2

16, 18, 20, and 24 HP ONAN ENGINES
COMPONENT TECHNICAL MANUAL
CTM-2 (MAR-87)

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7. For T260 engine, install left side shroud (D), exhaust pipe shroud (C), lift bracket (B) and fasten with seven cap screws. Tighten lift bracket cap screw to 11 ± 3 N·m (97 ± 27 lb-in.).

For P218G or P220G engines, install left side shroud, lift side shroud, lift bracket, and fasten with four cap screws. Tighten lift bracket cap screw to 11 ± 3 N·m (97 ± 27 lb-in.). Connect voltage regulator leads.

For B43E, B43G, or B48G engine, install left side shroud (D), lift bracket (B), and fasten with five cap screws. Tighten lift bracket cap screw to 11 ± 3 N·m (97 ± 27 lb-in.).

Connect voltage regulator leads (E). Install the two stator leads on "AC" terminals and the battery lead on "B+" terminal of the voltage regulator.

8. Connect spark plug wire (A).

T260 Engine

B43E, B43G, B48G Engines

- A—Spark Plug Wire
- B—Lift Bracket
- C—Exhaust Pipe Shroud
- D—Left Side Shroud
- E—Voltage Regulator Leads

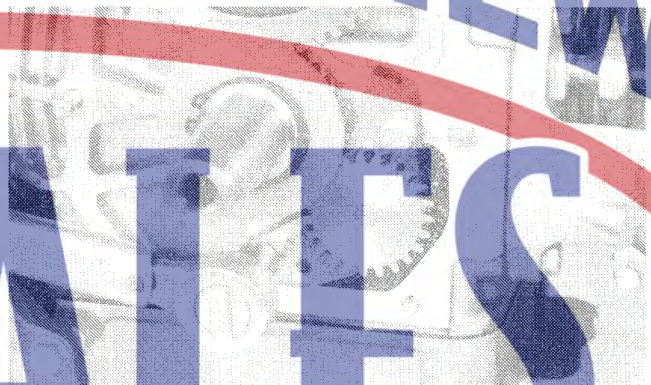
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INSTALL OIL PUMP

1. Turn crankshaft until suction tube does not hit crankshaft lobe.
2. Install oil pump assembly. Install and tighten two cap screws to 11 ± 1 N·m (97 ± 9 lb-in).



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3. Install oil seal (A), with lip of seal downward, in gear cover using JDG 325 Crankshaft Seal Installer (B).



017;M36325 M98;2040K 17 111085

4. Turn cup until the plastic bushing (A) is in the 3 o'clock position.

5. Apply multipurpose grease between cup and camshaft gear to hold cup in position.



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14. Remove two cap screws. Remove starter.



Bendix Drive Starter Shown

017;M37102 M98;;2060K 11 051185

REMOVE STARTER—P218G AND P220G ENGINES

NOTE: See Starting Circuit Diagnosis in machine technical manual before removing starter.

1. Remove engine. (See machine technical manual.)
2. Disconnect spark plug wire.
3. Remove cap screw to remove lift bracket and manifold cover.
4. Remove cap screws to remove side shroud.
5. Remove cap screws from flywheel shroud. Move flywheel shroud just far enough to remove starter.
6. Remove two cap screws (A) to remove starter.



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DISASSEMBLE BENDIX DRIVE STARTER

1. Remove rubber dust cover.



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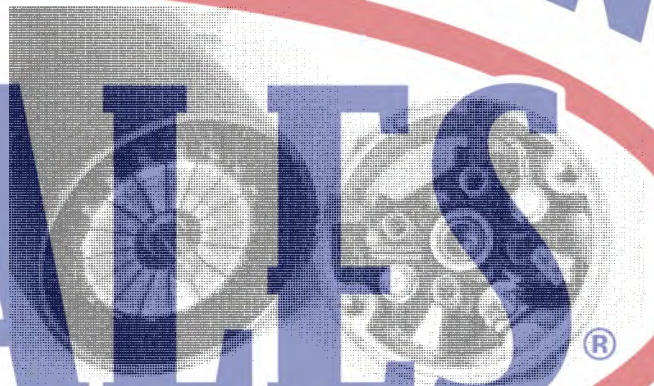
2. Remove two thru-bolts.



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NOTE: Brush springs may snap out of the end cap when it is removed. Be careful not to lose springs.

3. Remove end cap.



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4. Remove two cap screws to remove negative brushes.



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5. Remove nut to remove positive side brushes.

Check all brushes for cracks or excessive wear. Replace brushes if they are worn shorter than 6.35 mm (0.25 in.).

Inspect springs. Replace springs if they are weak or broken.

Always replace springs and brushes as a set if any are defective.



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**REPLACE BREAKER POINTS AND
CONDENSER—B43E, B43G, B48G, AND T260
ENGINES**

*NOTE: On later engines, the condenser is located on side
of air filter bracket.*

1. Remove air cleaner assembly. (See Remove Air Cleaner
in Group 05 in this manual.)

2. Remove breaker point cover.

3. Remove two set screws to remove breaker points.

4. Loosen screw (A) to disconnect coil and condenser
leads.

5. Remove screw (B) to remove condenser.

6. Install new condenser and point assembly. Apply thread
sealant on threads of set screws and fasten breaker points.

Early Point Assembly Shown

7. Check breaker point gap. Turn engine flywheel until
points are at their widest gap. Adjust gap to 0.41 mm (0.016
in.) using a flat feeler gauge.

8. Be sure coil lead wire is in notch in the base; then install
breaker point cover. Tighten cover set screw snug only so
cover is not crushed or deformed.

9. Install air cleaner assembly. (See Install Air Cleaner in
Group 05 in this manual.)



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017;M37244 M98;2065K 3 051185



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