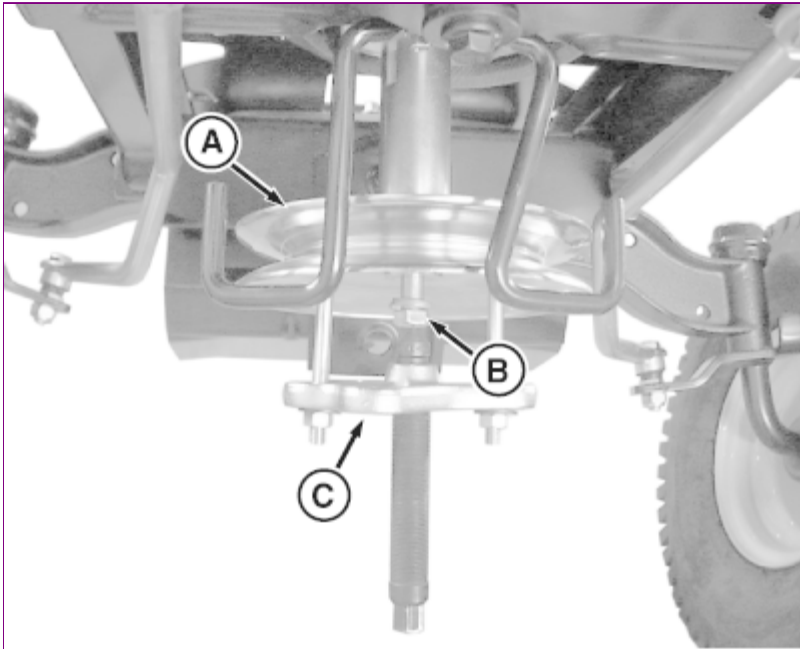


## TM113419 - X115R, X135R, X155R, 92H, 107H Tractors Remove Engine Single Cylinder (SN 058001-)

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### Remove Engine Single Cylinder (SN 058001-)

1. Turn all switches OFF. Disconnect battery negative (—) cable.
2. Lock park brake to relieve tension on traction drive belt.
3. Raise hood. Disconnect light harness on right side of hood. Lower hood to approximately 3/4 open. Slide the hood off the bracket.
4. Remove mower deck. See Attachments section.



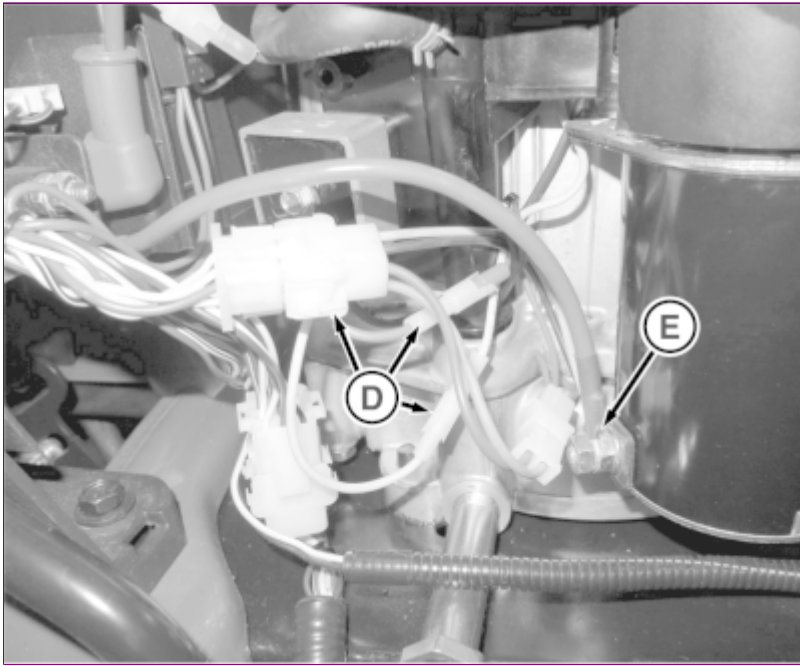
5. GXT002032-UN: Engine Sheave Assembly

#### LEGEND:

- A - Sheave Assembly
- B - Cap Screw
- C - Puller

Loosen sheave cap screw (B) until threads no longer engage in engine output shaft, Remove sheave assembly (A) with a suitable puller (C), while simultaneously removing drive belt from around engine sheave.

- 6.
  7. Remove muffler. (See Remove and Install Muffler Single Cylinder (SN 058001-).)
-



8. GXT002024-UN: Engine and Main Wiring Harness Connectors

LEGEND:

D - Harness Connectors  
E - Stator Wire

Disconnect engine wiring harness connectors from main wiring harness (D).

9. Disconnect stator wire (E).

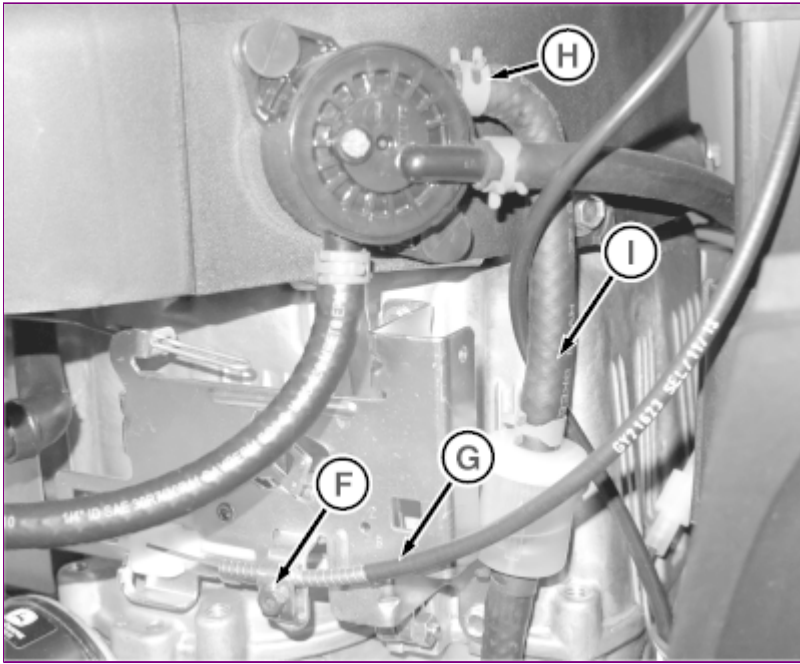
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10.



***Avoid Injury! Gasoline is flammable. Do not smoke. Always work in a ventilated area away from open flame or spark producing equipment; including equipment that utilizes pilot lights.***

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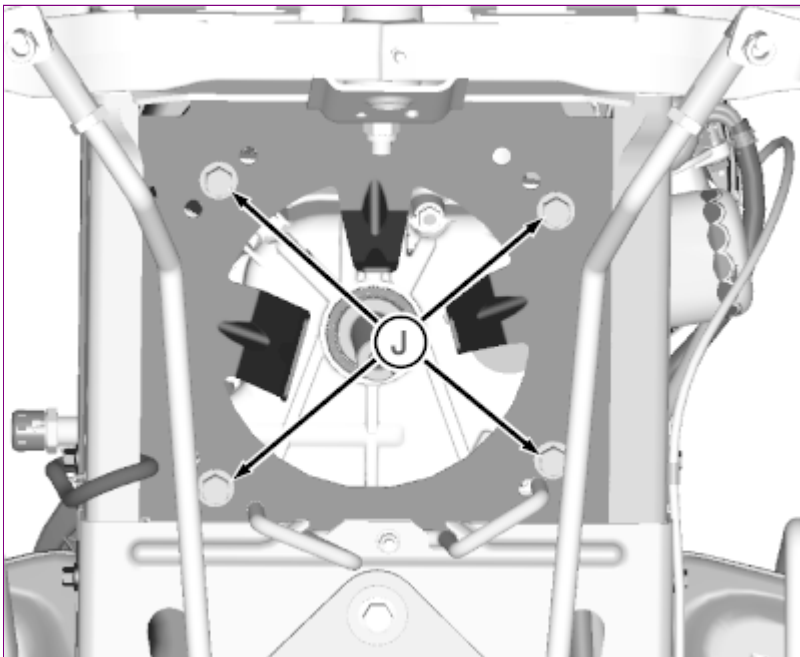
GXT002025-UN: Throttle Cable and Fuel Hoses

LEGEND:

- F - Throttle Cable Clamp
- G - Throttle Cable
- H - Hose Clamp
- I - Main Fuel Hose

Loosen clamp (F) and remove throttle cable (G).

11. Remove hose clamp (H) and remove fuel hose (I).



12. GXT002026-UN: Engine Mounting Bolts

LEGEND:

J - Engine Mounting Cap Screws

Remove the four engine mounting cap screws (J) securing engine to frame.

13. Remove engine from machine.

# TM113419 - X115R, X135R, X155R, 92H, 107H Tractors

## Install Engine Single Cylinder (SN 058001-)

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### Install Engine Single Cylinder (SN 058001-)

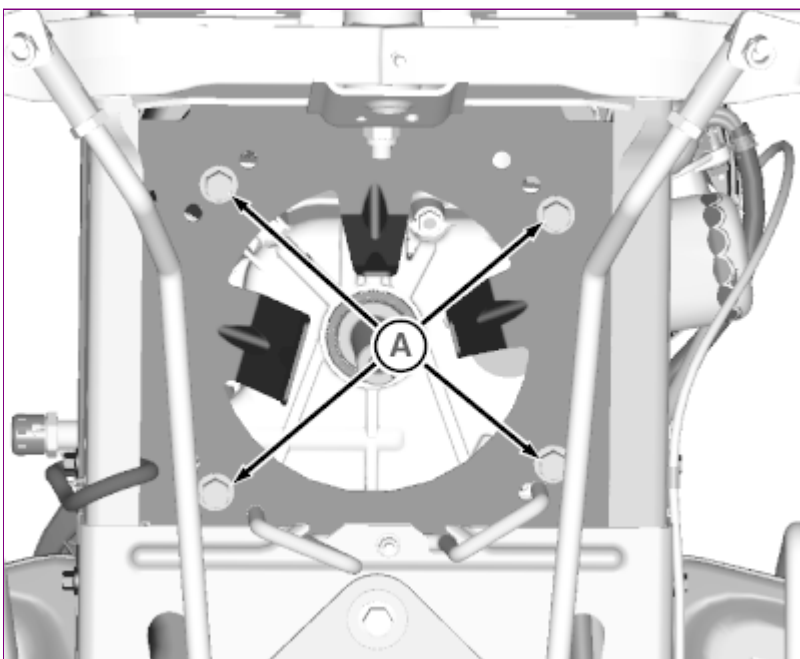
1.

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*Avoid Injury! Gasoline is flammable. Do not smoke. Always work in a ventilated area away from open flame or spark producing equipment; including equipment that utilizes pilot lights.*

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GXT002028-UN: Engine Mounting Cap Screws

#### LEGEND:

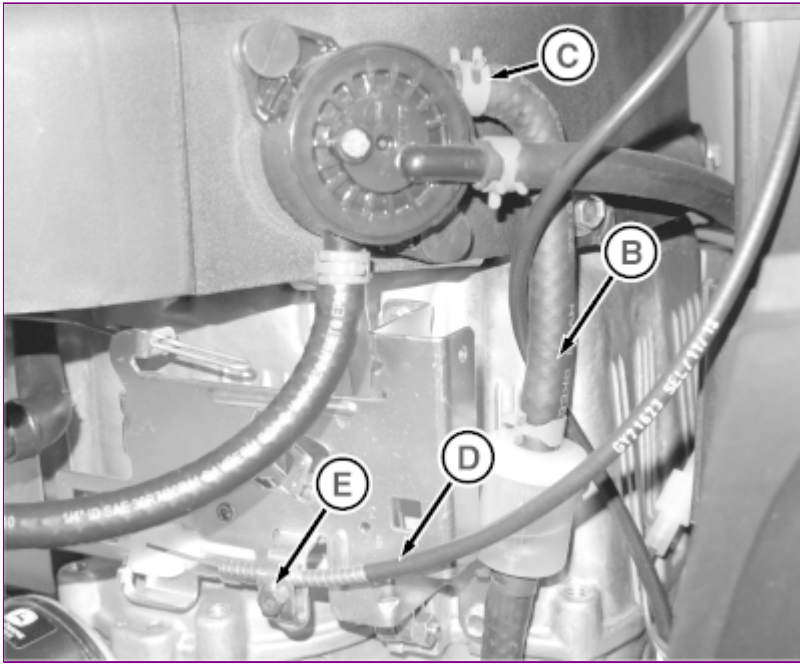
A - Engine Mounting Cap Screws

Place engine onto machine frame and install four engine mounting cap screws (A).

2. Tighten engine mounting bolts to specification.

Item	Measurement	Specification
Engine Mounting Bolts	Torque	50 N·m (37 lb.-ft.)

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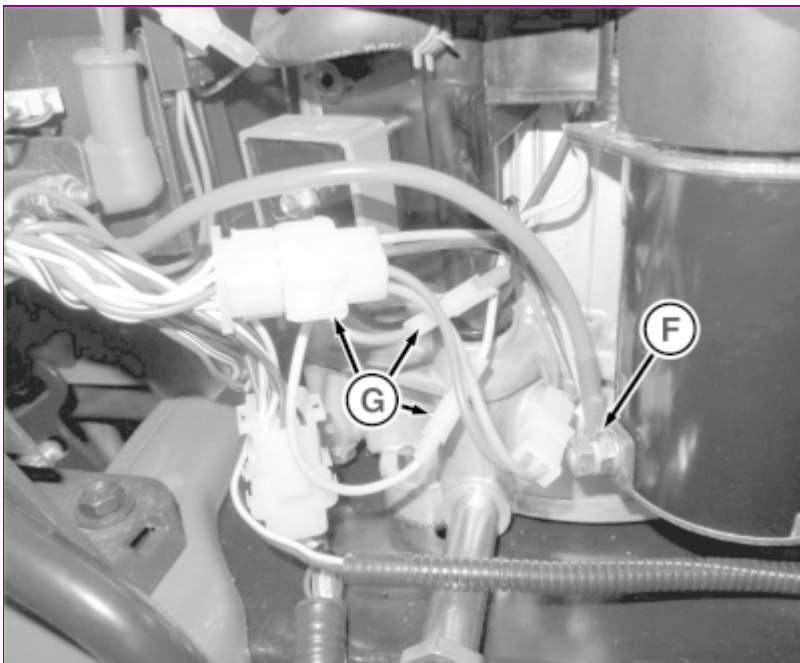
3. GXT002029-UN: Throttle Cable

LEGEND:

- B - Main Fuel Hose
- C - Hose Clamp
- D - Throttle Cable
- E - Clamp

Install fuel hose (B) onto fuel pump and secure with hose clamp (C).

4. Install throttle cable (D) and tighten clamp (E).



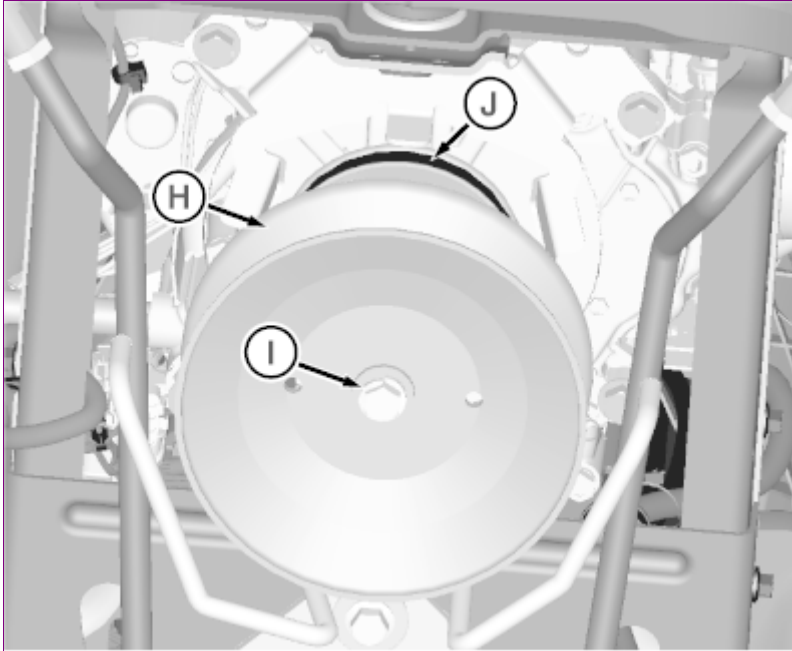
5. GXT002030-UN: Engine Electrical

**LEGEND:**

- F - Starter terminal
- G - Engine Connectors

Connect wires to starter terminals (F).

6. Connect main wiring harness connectors (G) to engine connectors.



7. GXT002033-UN: Sheave Installation

**LEGEND:**

- H - Sheave Assembly
- I - Cap Screw
- J - Drive Belt

Install sheave assembly (H) and drive belt (J).

8. Secure sheave assembly with cap screw (I) and tighten to specification.

Item	Measurement	Specification
Sheave Assembly Cap Screw	Torque	75 N·m (55 lb.-ft.)

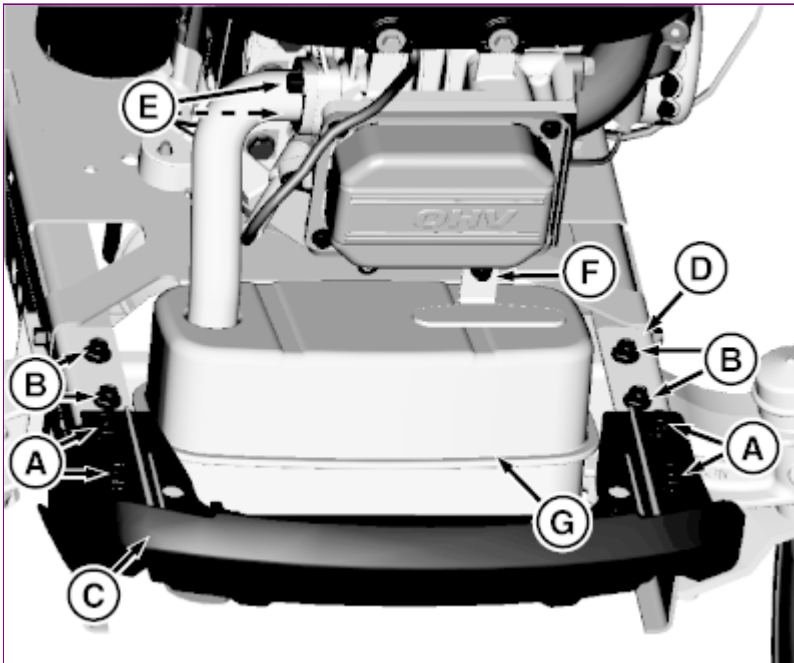
9. Install muffler. (See Remove and Install Muffler Single Cylinder (SN 058001-).)
10. Connect battery.
11. Install hood. (See [Install Hood](#) .)
12. Install mower deck. See Attachments section.

# TM113419 - X115R, X135R, X155R, 92H, 107H Tractors Remove and Install Muffler Single Cylinder (SN 058001-)

## Remove and Install Muffler Single Cylinder (SN 058001-)

### Muffler Removal

1. Remove hood. (See [Remove Hood](#) )



2. GXT002023-UN: Muffler Shield

#### LEGEND:

- A - Pivot Bracket Cap Screws
- B - Muffler Shield Cap Screws
- C - Pivot Bracket
- D - Muffler Shield
- E - Muffler Flange Screws
- F - Muffler Support Screw
- G - Muffler

Remove four cap screws (A) securing hood pivot bracket (C) to machine. Remove bracket.

3. Remove four cap screws (B) securing muffler shield (D) to machine. Remove shield.
4. Remove the two muffler flange screws (E) securing the muffler (G) to the engine.
5. Remove muffler support screw (F), gasket, and muffler (G)..

### Muffler Installation



1. Clean gasket mating surfaces of old gasket material.
2. Install new gasket.
3. Install muffler (G) onto engine with muffler flange (E) and support (F) screws.
4. Tighten to specification.

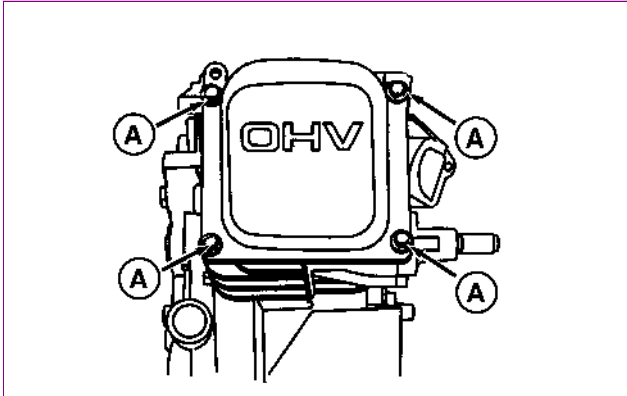
<b>Item</b>	<b>Measurement</b>	<b>Specification</b>
Muffler Screws	Torque	16 N·m (140 lb.-in.)

5. Install muffler shield (D) to machine using four cap screws (B).
6. Install hood pivot bracket (C) using four cap screws (A).
7. Install hood. (See [Install Hood](#) )

**TM113419 - X115R, X135R, X155R, 92H, 107H Tractors**  
**Remove Cylinder Head Single Cylinder**

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**Remove Cylinder Head Single Cylinder**



MXT003030-UN: Valve Cover Cap Screws

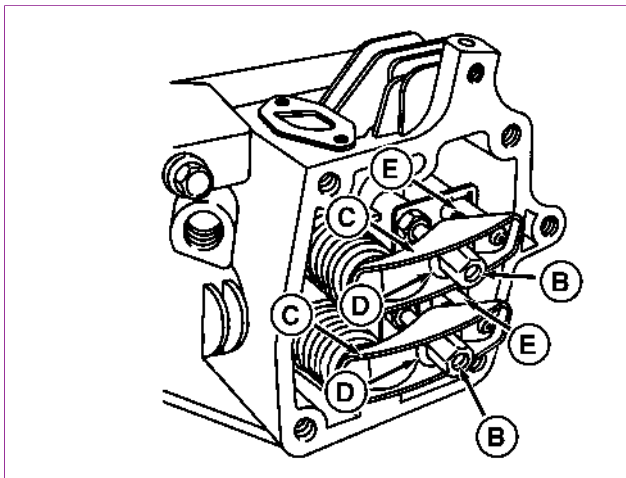
**LEGEND:**

A - Cap Screws

1. Disconnect spark plug lead and remove spark plug.
2. Remove air cleaner assembly, carburetor and blower housing.
3. Remove intake manifold and governor control bracket and linkage.
4. Remove valve cover cap screws (A).

5. **NOTE:**

*Mark the push rods for reassembly in their original position. The exhaust valve push rod is steel and is marked with a red stripe. The intake valve push rod is aluminum.*



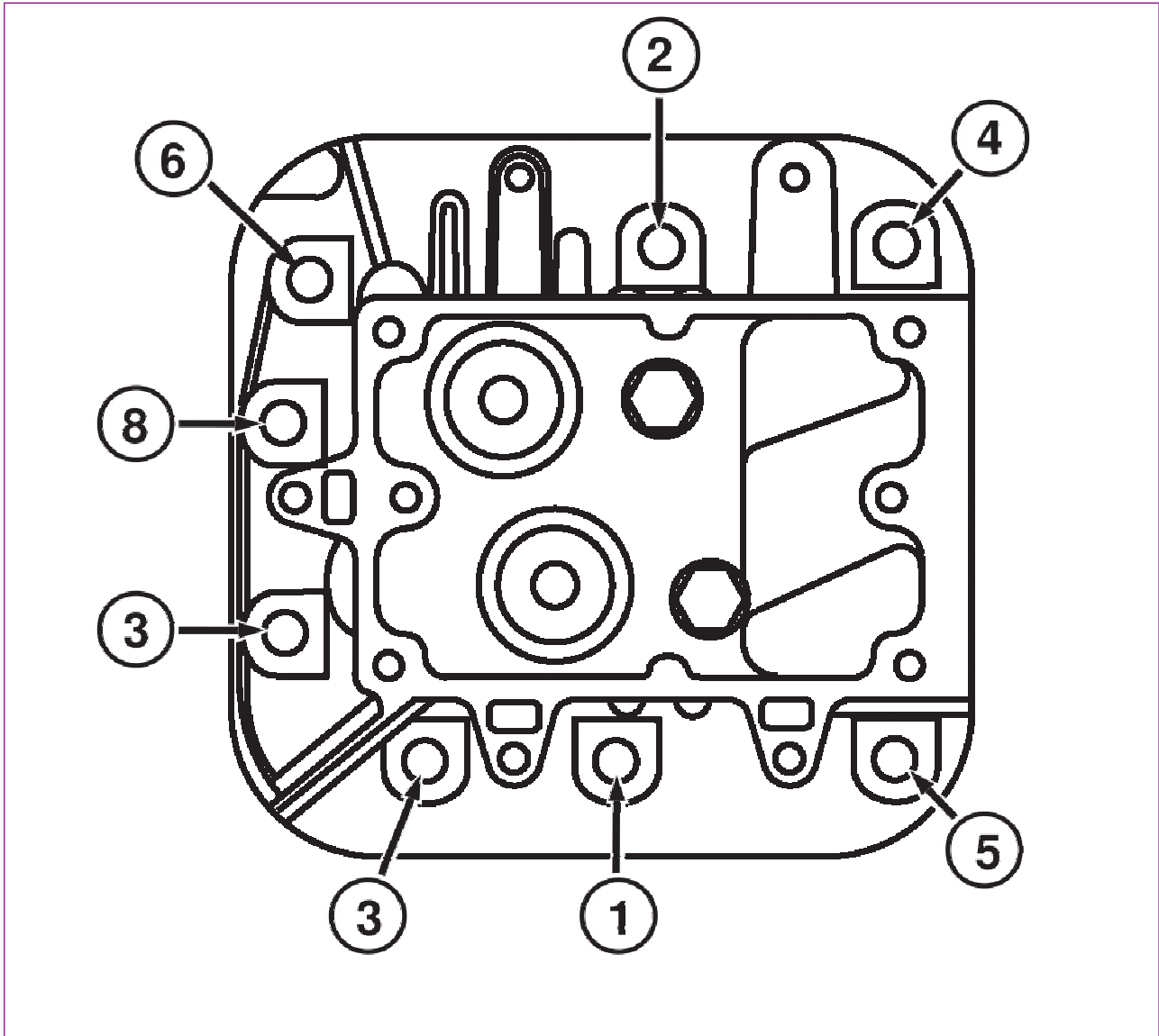
MXT003031-UN: Rocker Arms and Push Rods

**LEGEND:**

B - Adjustment Nuts  
C - Rocker Arms  
D - Pivots  
E - Push Rods

Remove rocker arm adjustment nuts (B), rocker arms (C), rocker arm pivots (D), and push rods (E).

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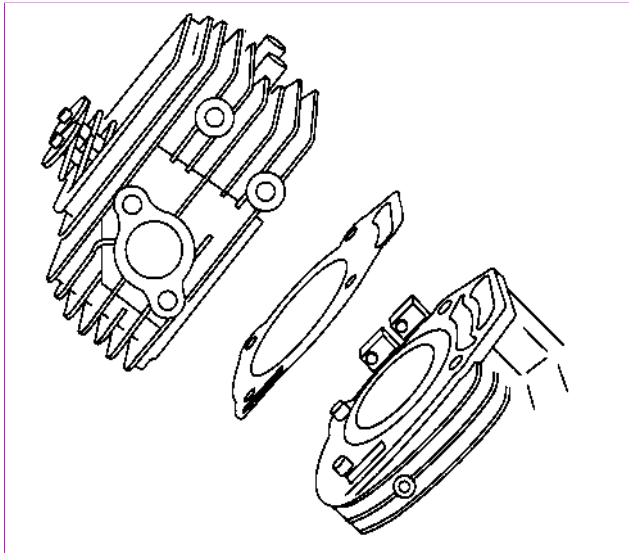
6. MXT016301-UN: Cylinder Head Bolts  
Remove cylinder head bolts in sequence shown.

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7.

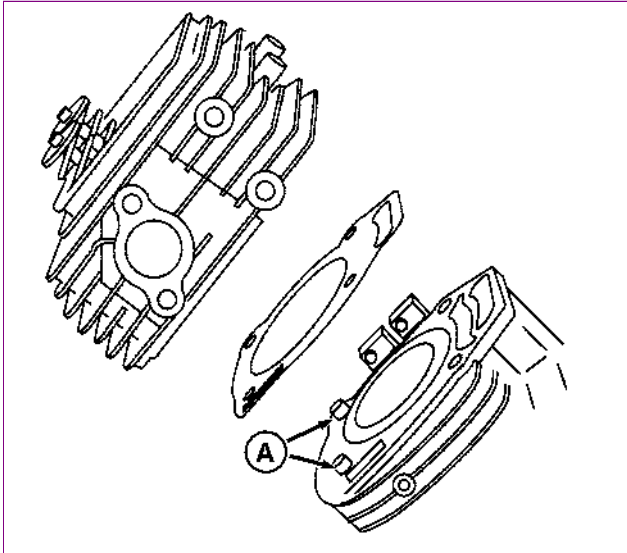
MXT003033-UN: Cylinder Head and Gasket

Remove cylinder head, cylinder head gasket and push rods. Discard the gasket.

**TM113419 - X115R, X135R, X155R, 92H, 107H Tractors**  
**Install Cylinder Head Single Cylinder**

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**Install Cylinder Head Single Cylinder**



MXT003034-UN: Cylinder Head and Gasket

LEGEND:

A - Alignment Sleeves

1. Clean gasket surfaces.

2. **IMPORTANT:**

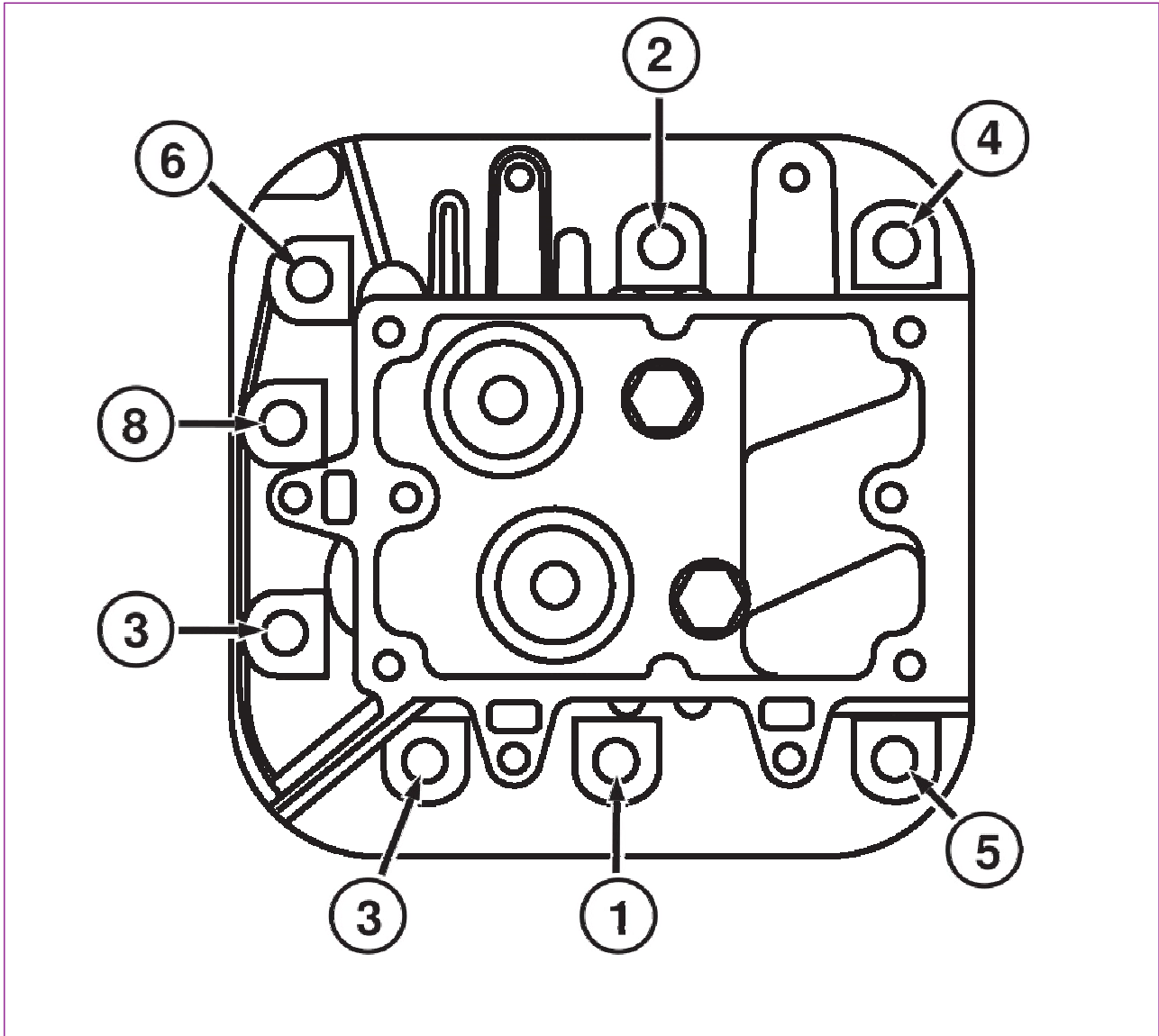
**Do not use sealer of any kind on gaskets.**

Place new gasket and cylinder head on cylinder. Align head with alignment sleeves (A) located in the cylinder.

3. Apply thin coat of clean engine oil to threads. Install eight cylinder heads bolts.

4. **IMPORTANT:**

**Do not tighten each bolt to final torque in a single step. Incorrect tightening may cause a warped cylinder head. Step-tighten all bolts to 1/3 of the final torque value, then 2/3 of the final torque value.**

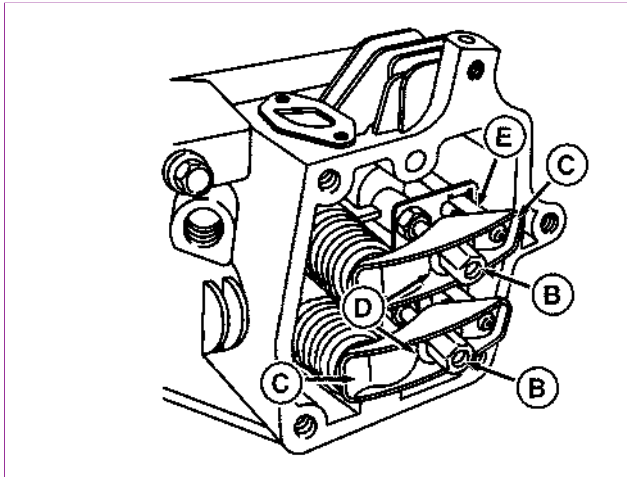


MXT016301-UN: Cylinder Head Bolts

Tighten all bolts down evenly by hand. Tighten cylinder head bolts in sequence shown in three even increments to specification.

Item	Measurement	Specification
Cylinder Head Bolts	Torque	28.2 N·m (250 lb-in)

5. **IMPORTANT:**  
 The exhaust valve push rod is steel and is marked with a red stripe. The intake valve push rod is aluminum.



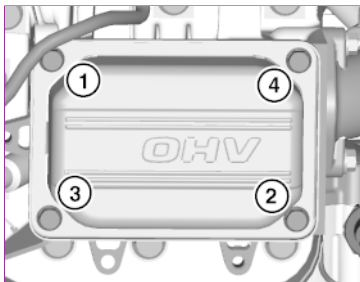
MXT003036-UN: Rocker Arms and Push Rods

**LEGEND:**

- B - Nuts
- C - Rocker Arms
- D - Pivots
- E - Push Rods

Install push rods (E), rocker arm pivots (D), rocker arms (C), and arm support nuts (B). Tighten to specification.

6. Adjust valve clearance. (See [Valve Clearance Adjustment Single Cylinder](#).)



7. GXT001593-UN: Valve Cover Torque Sequence

Install valve cover with new gasket. Tighten to specification using the sequence shown.

Item	Measurement	Specification
Valve Cover Screws	Torque	8 N·m (70 lb-in)

8. Install intake manifold. Tighten bolts to specification.

Item	Measurement	Specification
Intake Manifold Bolts	Torque	10 N·m (90 lb-in)

9. Install blower housing.
10. Install governor control bracket and linkage.
11. Install carburetor and adjust governor linkage. (See [Install Carburetor Single Cylinder](#) and [Governor Static Adjustment](#).)
12. Install air cleaner assembly.
13. Install spark plug and plug wire.