

August 26, 2026

Version 1

Warranty Extension: 2020–22 CR-V Hybrid Cylinder Head Gasket

APPLIES TO

Year	Model	Trim Level	VIN Range
2020–22	CR-V Hybrid	ALL	Check iN VIN status for eligibility

BACKGROUND

Under certain conditions, the cylinder head gasket effectiveness may be reduced which may cause vehicles to experience overheating, coolant loss, misfire and/or DTCs P0300 thru P0304 stored.

American Honda is extending the warranty coverage on the cylinder head gasket, related to this condition, to **10 years from the original date of purchase or 150,000 miles**, whichever comes first.

OWNER NOTIFICATION

Owners of affected vehicles will be sent a notification of this campaign.

Do an iN VIN status inquiry to make sure the vehicle is shown as eligible.

CORRECTIVE ACTION

Replace the cylinder head gasket if coolant is leaking into the combustion chamber. In addition, if cylinder head or engine block warpage is detected, replace the cylinder head and/or the engine short block as dictated by the inspection process.

CUSTOMER INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by “do-it-yourselfers,” and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Honda automobile dealer.

WARRANTY CLAIM INFORMATION

NOTE: Each warranty claim must include the following documentation from the Head Gasket Inspection Procedure, submitted in PDF format:

- ALL DTC Check printout from step 2.
- Borescope image from Step 9.3 with VIN, Repair Order Number, Date, and Engine Number.

Repair Procedure #1 – Head Gasket Only

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
1105E2	Inspect for coolant leaks. Remove cylinder head and check head and engine block for warpage. Replace head gasket (includes DTC clear)	11.7 hr	6H200	PPJ00	A26018A	12251-6C1-A01

Repair Procedure #2 – Head Gasket and Cylinder Head Replacement

1105E3	Inspect for coolant leaks. Remove cylinder head and check head and engine block for warpage. Replace head gasket and cylinder head (includes DTC clear, completing Job Aid, and contacting the Repair Verification Team)	12.1 hr	6H200	PPJ00	A26018B	12251-6C1-A01
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Repair Procedure #3 – Head Gasket and Short Block Replacement

1105E4	Inspect for coolant leaks. Remove cylinder head and check head and engine block for warpage. Replace head gasket and short block (includes DTC clear, completing Job Aid, contacting the Repair Verification Team, and align)	15.3 hr	6H200	PPJ00	A26018C	12251-6C1-A01
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Repair Procedures #2 & #3 – Head Gasket, Cylinder Head and Short Block Replacement

1105E5	Inspect for coolant leaks. Remove cylinder head and check head and engine block for warpage. Replace head gasket, cylinder head and short block (includes DTC clear, completing Job Aid, contacting the Repair Verification Team, and align)	15.7 hr	6H200	PPJ00	A26018D	12251-6C1-A01
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PARTS INFORMATION

Repair Procedure #1 – Head Gasket Only

Part Name	Part Number	Quantity
GASKET, CYLINDER HEAD	12251-6C1-A11	1
GASKET, CYLINDER HEAD COVER	12341-6C1-A01	1
O-RING SET, OIL PUMP	15101-5K0-A00	1
FILTER, OIL	15400-RTA-003	1
GASKET, IN. MANIFOLD	17105-5K0-A01	1
GASKET, THROTTLE BODY	17107-RNA-A01	1
GASKET, CONVERTER (NIPPON LEAKLESS)	18115-5K0-004	1
GASKET, PRE CHAMBER (57.5MM-58.5MM)	18393-SS0-J30	1
GASKET, EGR PIPE	18719-5R1-004	2
GASKET, EGR COOLER OUTLET	18721-6C1-A01	1
O-RING, DRAIN (TOYO)	19012-PD2-004	2
GASKET, WATER OUTLET	19316-6C1-A01	1
BOLT, FLANGE (12X40) (SIDE MOUNT BOLT)	90162-T0A-A00	2
BOLT, FLANGE (14X76) (SIDE MOUNT)	90164-TLA-A00	1
BOLT, FLANGE (12X97) (SIDE MOUNT)	90165-S04-000	1
BOLT, FLANGE (10X30) (SIDE MOUNT)	90171-TBA-A00	3
BOLT-WASHER (12X110) (SIDE MOUNT BOLT)	90172-TVA-A02	1
NUT, SELF-LOCK (10MM) (EXHAUST)	90212-SA5-003	1
NUT, FLANGE (14MM) (SIDE MOUNT)	90371-SJD-003	1
OIL SEAL (43X58X7) (CRANK SEAL)	91212-R1B-A01	1
O-RING (92.4X2.8) (CRANK SEAL)	91306-5K0-A01	1
WASHER, DRAIN PLUG	94109-14000	1

Repair Procedure #2 – Cylinder Head Replacement

THERMOSTAT ASSY.	06193-6C1-305	1
GENERAL ASSY., CYLINDER HEAD	10003-6C1-A01	1
FILTER ASSY., SPOOL VALVE	15826-RNA-A01	1
O-RING (7.47X3.6) (INJECTOR)	91301-PLC-000	4
O-RING (8.8X1.9) (DIPSTICK TUBE)	91302-GE0-000	1
O-RING (7.45X3.61) (INJECTOR)	91302-PNA-003	4

Repair Procedure #3 – Short Block Replacement

GENERAL ASSY., CYLINDER BLOCK	10002-6C2-A03	1
GASKET, EX. PIPE	18303-T2B-A01	1
NUT, FLANGE (10MM) (SWAY BAR LINK)	90002-S10-000	1
BOLT, FLANGE (12X35) (TORQUE MOUNT)	90164-T0A-A00	5
BOLT, FLANGE (14X125) (TORQUE ROD)	90169-TLA-A01	1
BOLT, FLANGE (12X60) (TORQUE ROD)	90170-S5A-000	1
NUT, SELF-LOCK (10MM) (EXHAUST)	90212-SA5-003	3
NUT, SPINDLE	90305-S3V-A11	1
GASKET (10MM)	90471-59C-000	1
WASHER, DRAIN PLUG (18MM)	90471-PX4-000	1
O-RING (46.8X3.1) (WATER PASSAGE)	91301-5K0-A01	1
O-RING (9.5X1.9) (OIL PRESSURE SENSOR)	91301-5Y3-A01	1
O-RING (16.9X3.1) (WATER PASSAGE)	91303-5K0-A01	1
O-RING (23X3.1) (WATER PASSAGE)	91308-R9L-003	1
O-RING (31.2X4.1) (NOK) (CONNECTING PIPE)	91314-PH7-003	2
CKP SENSOR O-RING	91333-PNC-006	1
WASHER, SEALING (28 MM) (Only needed on vehicles with engine block heater accessory)	90401-PR4-000	1

REQUIRED MATERIALS

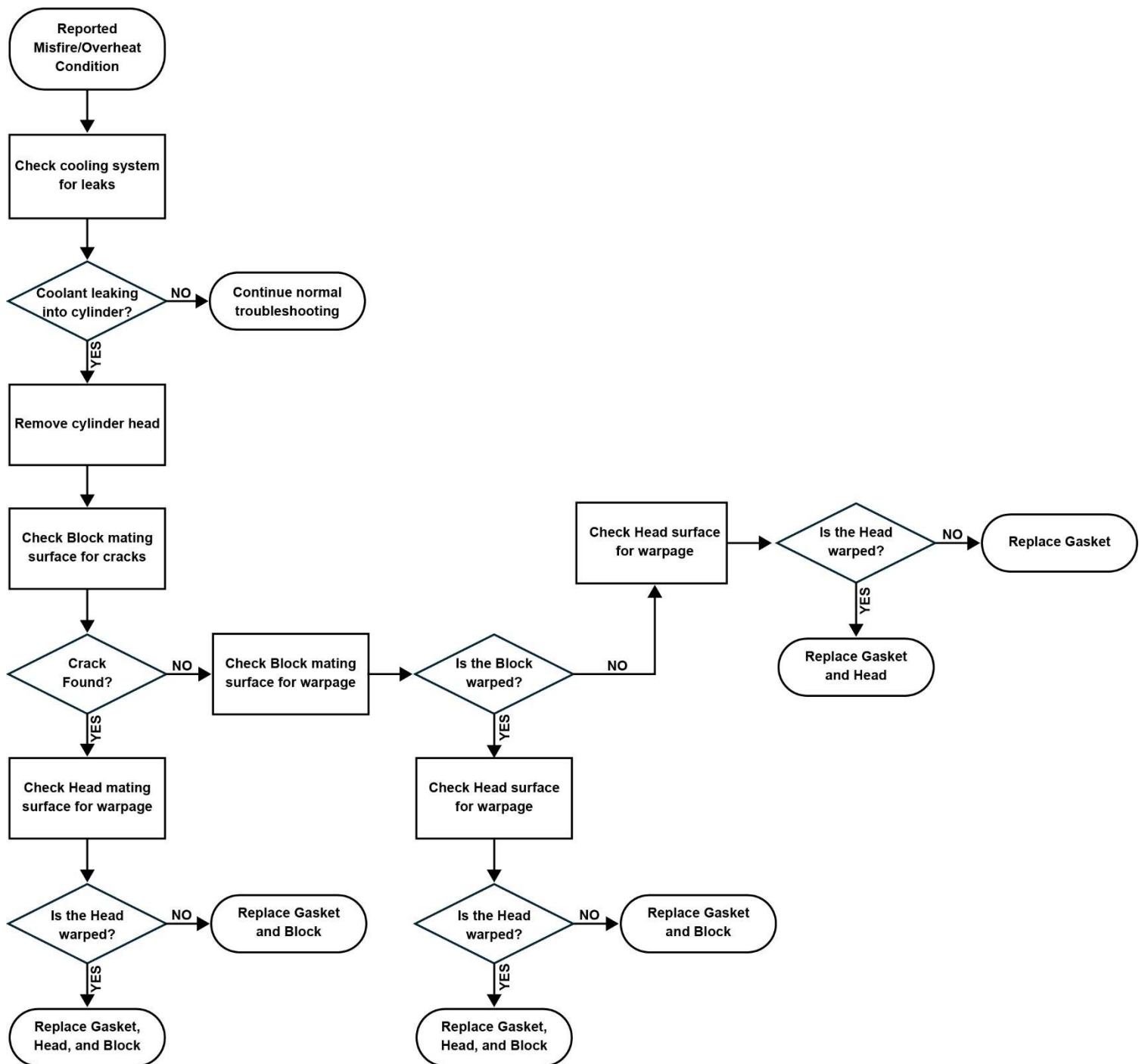
Part Name	Part Number	Quantity
Hondabond HT	08718-0004	1
Brake Cleaner (Restricted for CA, CO, CT, DE, MD, NH, NY, RI, UT, and NJ)	08700-9200	1
Brake Cleaner 10% VOC	08700-9222	1
Brake Cleaner SCAQMD Compliant	08700-SBPCA	1
Long Life Antifreeze/Coolant Type 2	08CLA-P99-0F0A8	2
Honda ATF DW-1	08200-9008	3
Honda 0w-20 Motor Oil	08798-9163	4 or 5
Red Scotch-Brite® or equivalent	Commercially available	1

TOOL INFORMATION

Tool Name	Part Number	Quantity
Cooling System Pressure Tester	SVTS272A	1
Snap-on 5.5 mm Borescope	BK5700	1
Engine Support Hanger Tool	AART1256	1
Universal Lift Eyelet *	07AAK-SNAA600	1
Support Eyelet *	07AAK-SNAA120	2
Spacer 4X.375 *	07AAB-59BA110	2
Bolt M10x1.25 – 30MM (10.9) *		1
Bolt M10x1.25 – 20MM (10.9) *		1
Bolt M8x1.25 – 30MM (10.9) *		1
Bolt M8x1.25 – 20MM (10.9) *		1
Straight Edge 18" *	07AAJ-59BA110	1
Feeler Gauge *	07AAJ-59BA120	1
Torque Angle Gauge	TA360 or Commercially Available	1

* Delivered to all dealers in the Warpage Inspection Kit 07AAJ-59BA100

REPAIR FLOW



INSPECTION PROCEDURE

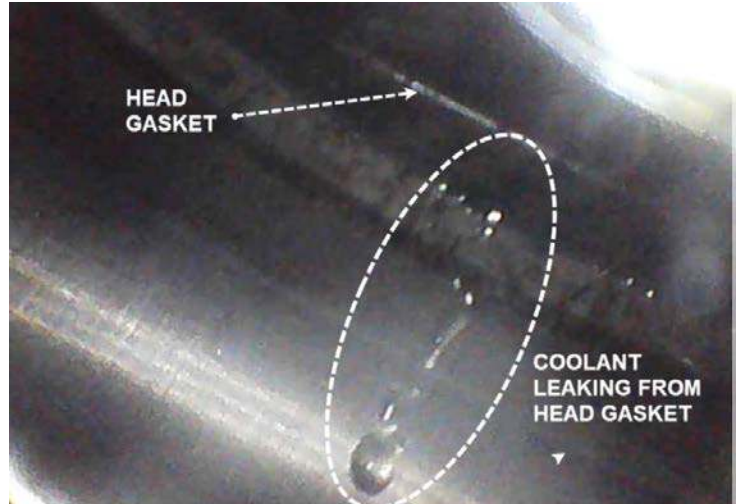
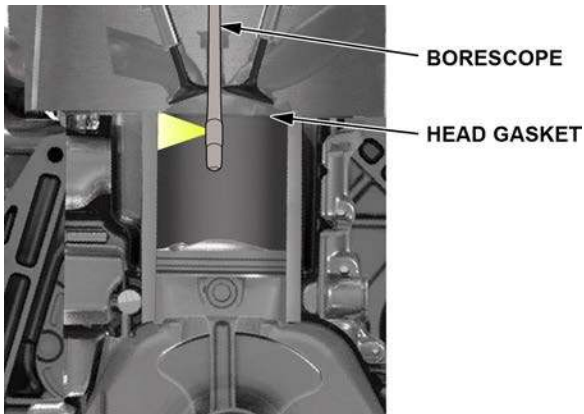
1. Begin the inspection procedure when the engine is cold.
2. Run the ALL DTC Check with i-HDS and document all stored PGM-FI DTCs.
NOTE: Print the ALL DTC check results in PDF format to submit with the warranty claim. Claims submitted without the ALL DTC attachment will be denied.
3. Remove the radiator cap, top off the coolant if low, then install the cooling system pressure tester.
4. Buckle the driver's seat belt.
5. With the cooling system pressure tester installed and the climate control OFF, start the engine in Maintenance Mode, [How to Enter PGM-FI System Maintenance Mode](#) and let it run until it reaches normal operating temperature (indicated by the cooling fan cycling on or ECT1 reaches **194°F [90°C]**).
6. Turn the engine OFF once it reaches normal operating temperature.
7. Check the cooling system pressure. If the pressure is below **18 psi**, use the pressure tester to bring the cooling system pressure to **18 psi**.
NOTE: The cooling system pressure could be higher than **18 psi** when vehicle reaches normal operating temperature, which is acceptable.
8. Remove all 4 spark plugs.

9. Use the Snap-on BK5700 Borescope to inspect all cylinders for coolant entering at the head gasket.

Click here to view the video of coolant leak in cylinder:

▶ PLAY VIDEO

- 9.1 Write the VIN, repair order number, and current date on a yellow sticky note.
- 9.2 Insert the borescope through the spark plug hole to inspect for coolant entering the cylinders. Using the **90°** camera to capture a side view, focus on the area where the cylinder head meets the block and scan completely **360°** around the cylinder.



- 9.3 If coolant is observed, place the yellow sticky note to the side of the borescope screen. Then, take a picture that includes the borescope, the yellow sticky note, the image of the leak in the cylinder, and the engine number (as shown below).

NOTE:

- This image needs to be submitted with the warranty claim. Claims submitted without this image will be denied.
- The image must be saved in PDF format.



ENGINE NUMBER

- 9.4 Repeat for all cylinders.

Is coolant leaking into the cylinders?

YES – Reinstall the spark plugs and ignition coils, then proceed to DETERMINING NECESSARY REPAIRS on the next page.

NO – This bulletin **does not** apply. Continue with normal troubleshooting.

DETERMINING NECESSARY REPAIRS

1. Remove the cylinder head.

- 1.1 Do the Removal steps 1-8 in the Cylinder Head, Valve, Valve Spring, Valve Seal and Valve Guide section of [Cylinder Head Overhaul](#).

NOTE:

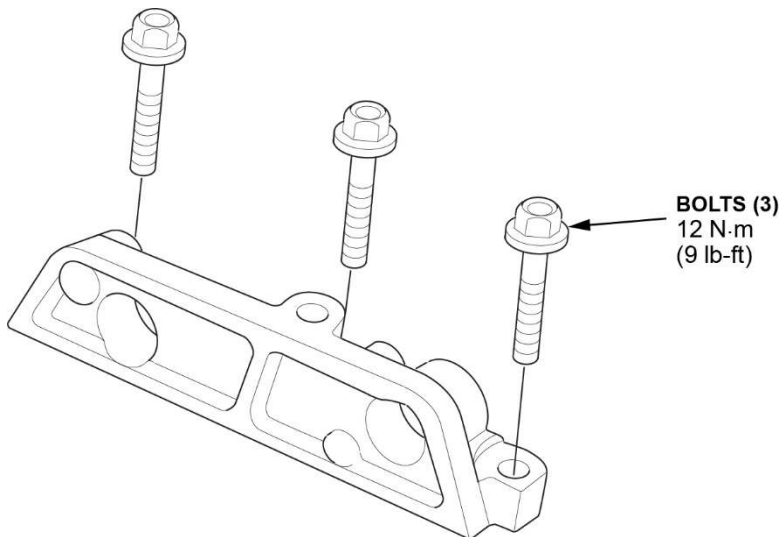
- **Do not** do Step 9 – Rocker Arm Control Valve Assembly Removal at this time.
- **Do not** do Step 10 – Fuel Rail and Injector Removal at this time.

- 1.2 Do the Removal steps 11-13.

- 1.3 Remove the CMP Sensor Holder with the CMP Sensors installed.

NOTE: **Do not** remove the CMP sensors individually from the CMP sensor housing as indicated by steps 14 and 15.

During installation, apply liquid gasket to the cylinder head mating surface of the CMP sensor holder and to the inside edge of the threaded bolt holes, then torque to specification.



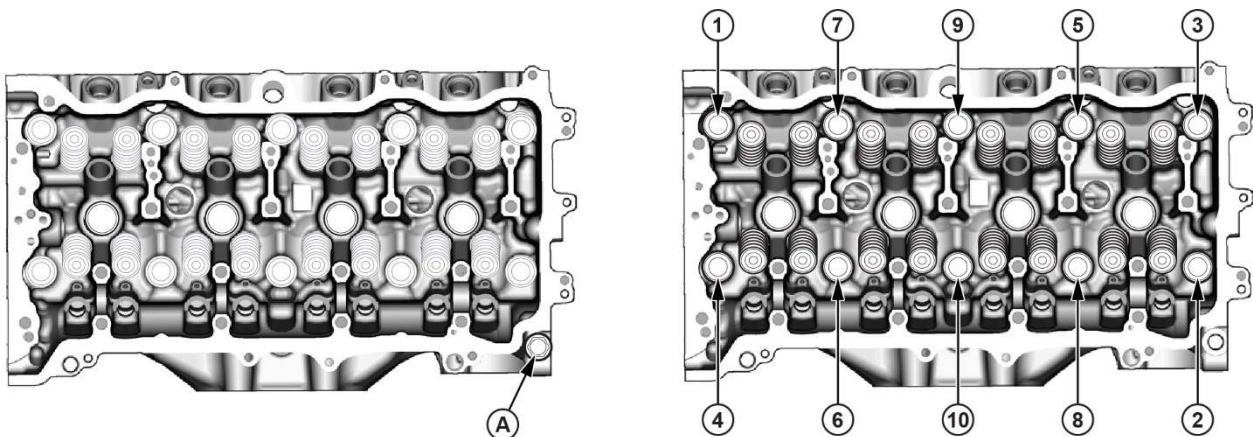
- 1.4 Do the Removal steps 16-23.

NOTE:

- **Do not** do step 24 – Remove Oil Level Pipe at this time.
- **Do not** do step 25 – Remove Oil Control Orifice at this time

- 1.5 Remove the cylinder head mounting bolt (A), then remove the cylinder head.

NOTE: To prevent warpage, loosen the bolts in sequence, **1/3 turn** at a time, repeat the sequence until all the bolts are loosened.



- 1.6 Remove the head gasket.

- 1.7 Remove all gasket material and carbon from the head gasket mating surface on the engine block with brake cleaner and a clean shop towel.

NOTE:

- Place a clean shop towel in each cylinder to collect and remove any debris that falls into the cylinders.
- If necessary, use red Scotch-Brite® **by hand** to remove any gasket material or residue that remains on the mating surface, then clean again with brake cleaner.
- **Do not** use power tools which can damage the cylinder head and block.

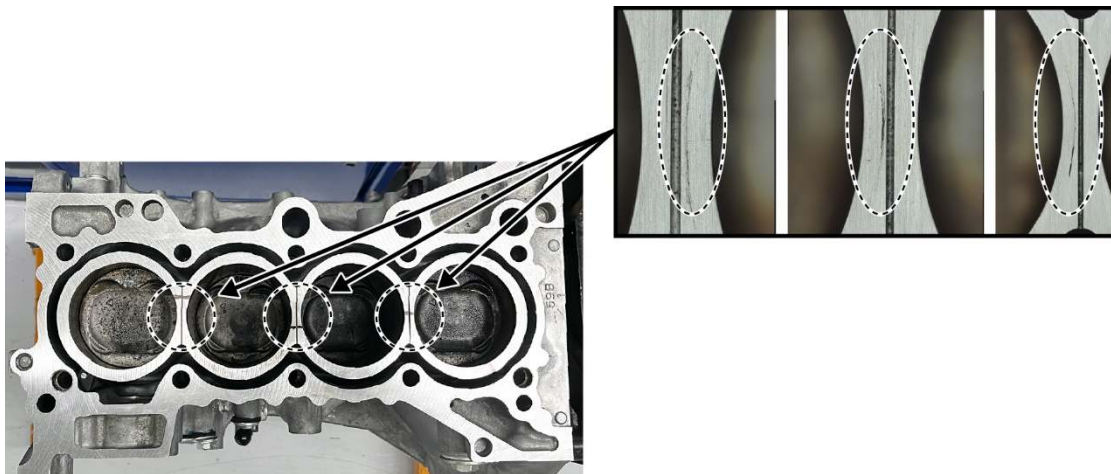
- 1.8 Remove all gasket material and carbon from the head gasket mating surface on the cylinder head with brake cleaner and a clean shop towel.

NOTE:

- If necessary, use red Scotch-Brite® **by hand** to remove any gasket material or residue that remains on the mating surfaces, then clean again with brake cleaner.
- **Do not** use power tools which can damage the cylinder head and block.

2. Visually inspect the engine block or cracks around the cylinders.

Examples of cracks:



3. Follow the instructions in Job Aid [AJA31119 Inspecting Cylinder Head and Engine Block for Warpage](#) to check the cylinder head and engine block mating surfaces for warpage. Contact the Repair Verification Team for approval if either component is outside of specifications.

IMPORTANT: Replacement of the cylinder head or short block requires prior approval from the Repair Verification Team as outlined in the Job Aid. Warranty claims that include cylinder head or short block replacement which have not received approval from the Repair Verification Team will be denied.

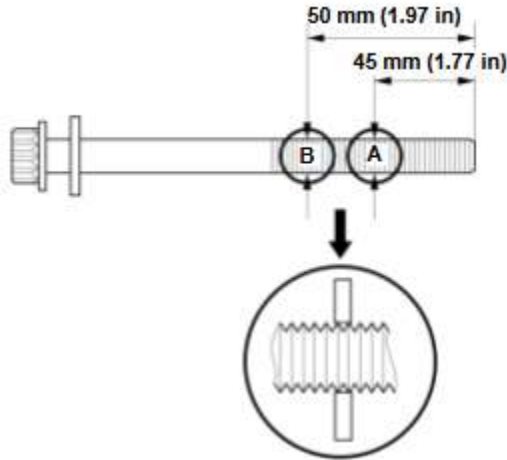
4. Determine the repair direction:

Is the cylinder head warped?	Is the engine block warped?	Repair action
No	No	Repair Procedure #1 -Replace the cylinder head gasket
Yes	No	Repair Procedure #2 - Replace the cylinder head
No	Yes	Repair Procedure #3 - Replace the short block
Yes	Yes	Repair Procedures #3, then Repair Procedure #2 - Replace the short block and the cylinder head

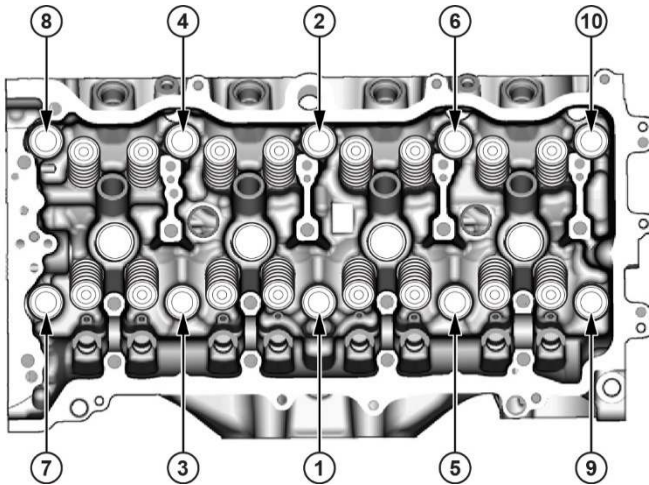
REPAIR PROCEDURE

Repair Procedure #1 - Head Gasket Only

1. Install the cylinder head with a new head gasket.
 - 1.1 If the engine block was replaced, install a new coolant separator (A), in the engine block if the new block did not come with one.
 - 1.2 Install the new cylinder head gasket (B) and the dowel pins (C) on the engine block.
 - 1.3 Measure the cylinder head bolt diameters at point A and point B. If the diameter on any of the head bolts is less than 10.6 mm (0.417 in), replace **all** the cylinder head bolts.



- 1.4 Install the cylinder head on the block.
- 1.5 Apply new engine oil to the threads and under the bolt heads of all cylinder head bolts.
- 1.6 Torque the cylinder head bolts in sequence to **40 N·m (30 lb-ft)** with a beam-type torque wrench if possible. When using a click-type torque wrench, be sure to tighten slowly and do not overtighten. If a bolt makes any noise while torquing, loosen the bolt and go back to step 1.5.



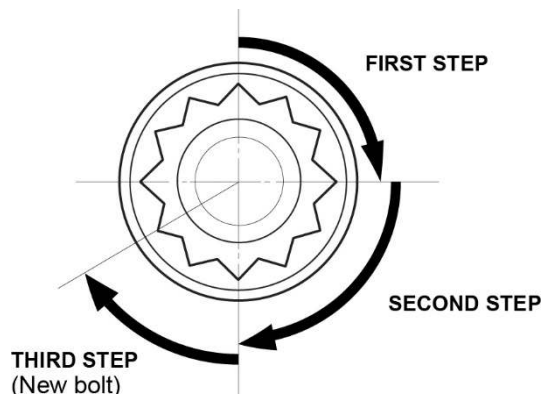
- 1.7 **IMPORTANT:** Once all cylinder head bolts have been initially torqued, repeat the torque process in sequence to ensure all cylinder head bolts are at **40 N·m (30 lb-ft)** before beginning the angle torque process.

1.8 After setting the initial head bolt torque, use a torque angle gauge to tighten all cylinder head bolts in two steps:

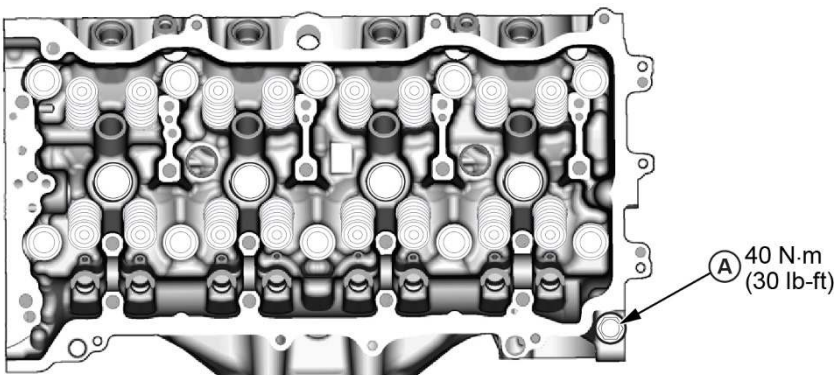
Step 1: Tighten each cylinder head bolt **90°** following the torque sequence.

Step 2: Tighten each cylinder head bolt **another 90°** following the torque sequence.

NOTE: If new head bolts were installed: Tighten each new cylinder head bolt an **additional 60°** following the torque sequence.



1.9 Tighten the cylinder head mounting bolt (A) to **40 N·m (30 lb-ft)**.



2. Do steps 9-35 of the Cylinder Head, Valve, Valve Spring, Valve Seal, and Valve Guide section of the Installation tab, – [Cylinder Head Overhaul](#) to complete the cylinder head installation.

3. NOTE: Once the side engine mount has been installed, do the engine mount tightening procedure; select the Procedure tab in [Engine Assembly Mount Removal and Installation](#).

4. Refill the transmission fluid (if drained during short block replacement).

5. Drain the engine oil (if not previously drained).

6. Install oil filter and fill with the recommended engine oil.

Including oil filter: 3.8 L (4.0 US qt)

After engine replacement: 4.5 L (4.8 US qt)

7. Refill the engine coolant.

8. Connect the 12-volt battery, [12 Volt Battery Terminal Disconnection and Reconnection](#).

9. Do the [PCM Reset](#).

10. Do the [CKP Pattern Clear/CKP Pattern Learn Procedure](#).

11. Do the [Idle Speed Inspection](#).

12. Do the [Ignition Timing Inspection](#).

13. Reset the Maintenance Minder for engine oil, coolant and, if applicable, transmission fluid, [Maintenance Minder General Information](#).

14. Do an alignment (Only if the short block was replaced).

Repair Procedure #2 - Cylinder Head Replacement

1. Transfer the following parts from the old cylinder head to the new cylinder head:

- 1.1 New thermostat and housing.

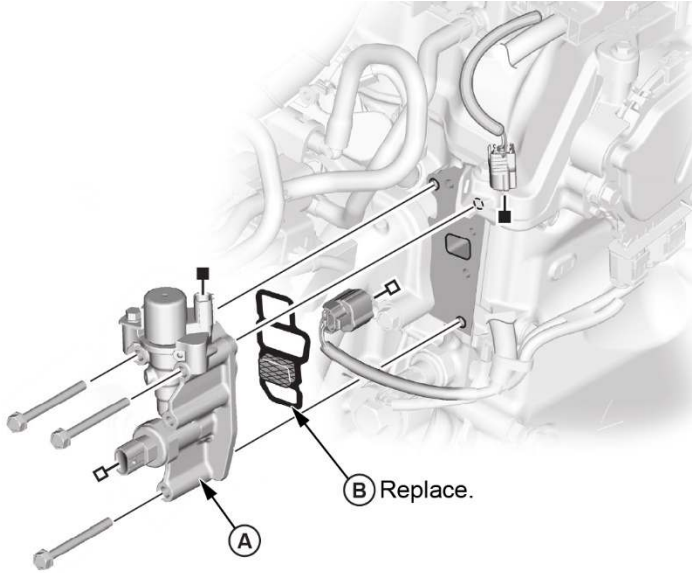
During installation, use a new thermostat and new gasket and torque the bolts to **12 N·m (9 lb-ft)**.

- 1.2 Transfer the fuel rail and injectors with new O-rings.

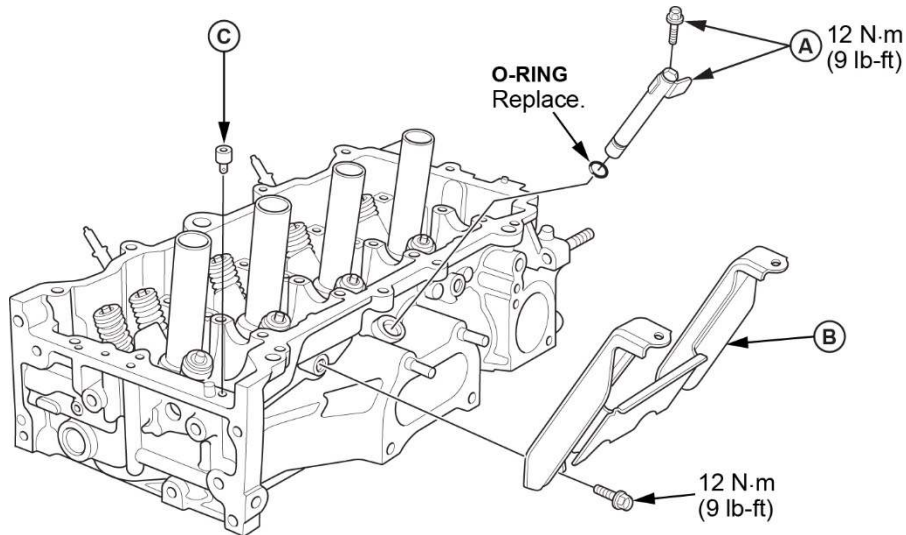
Do Removal steps 5 & 6, then do Installation steps 1 & 2 – [Injector Removal and Installation](#).

- 1.3 Spool valve assembly (A) with new filter (B).

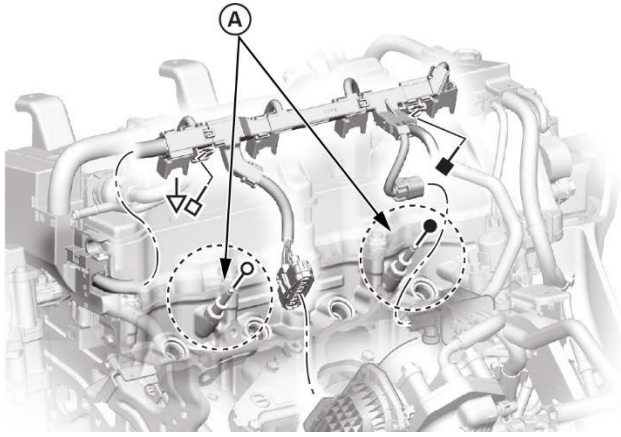
During installation, use a new filter and torque the bolts to **12 N·m (9 lb-ft)**.



- 1.4 Oil level pipe with new seals (A), air cleaner stay (B), and oil control orifice (C)



1.5 Fuel pipe bolts with threaded heads (A) (if not included with new cylinder head). Torque to **22 N·m (16lb-ft)**.

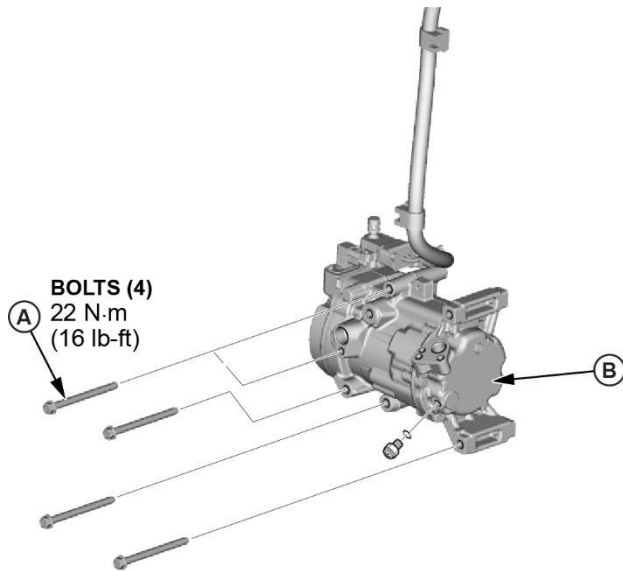


2. Go to **Repair Procedure #1 – Head Gasket Only**, to install the cylinder head and complete the repair.

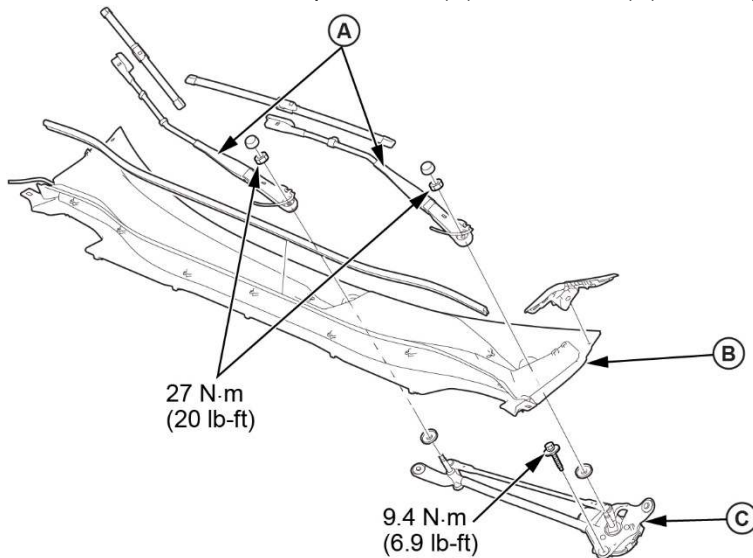
Repair Procedure #3 - Short Block Replacement

1. With the floor jack still supporting the engine, remove the electric water pump.
2. Disconnect the wiring connector from the A/C compressor.
3. Leaving the A/C hoses connected, remove the 4 mounting bolts (A) securing the A/C compressor (B) to the engine block, then shift it toward the radiator fan and secure it with a strap to the front bulkhead area.

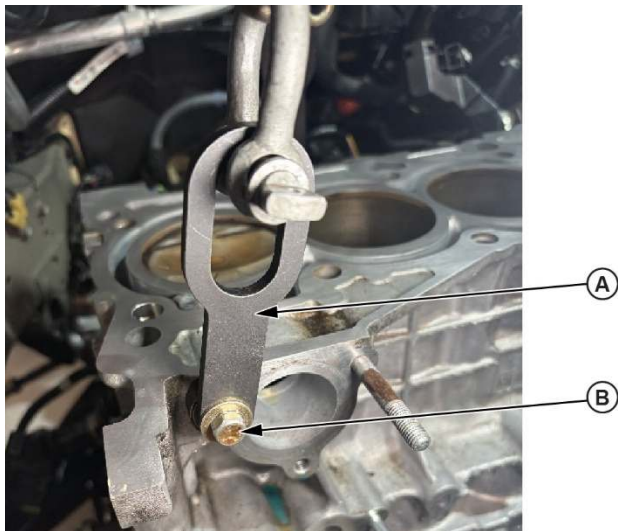
NOTE: **Do not** disconnect the A/C hoses.



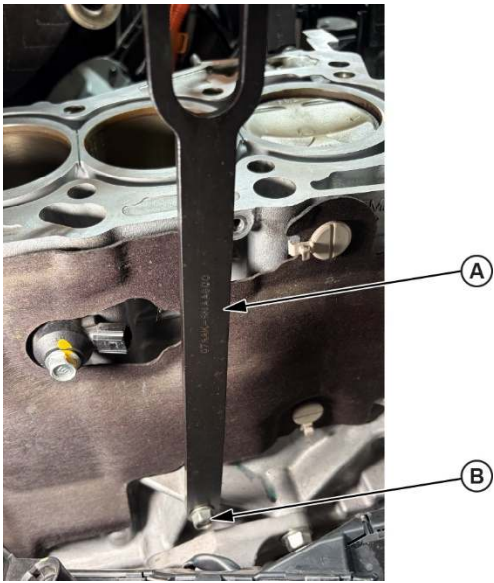
4. Remove the windshield wipers arms (A), cowl cover (B), and wiper motor assembly (C).



5. Remove the bulkhead cover, [Front Bulkhead Cover Removal and Installation](#).
6. Disconnect the knock sensor connector.
7. Install a lifting eyelet (T/N 07AAK-SNAA120) (A) into the electric water pump bolt hole (B) on the block with a **10 mm** spacer and a **30 mm** bolt from the kit, then tighten until the lifting eyelet is snug to the block.



8. Install the long support eyelet (T/N 07AAK-SNAA600) (A) to bolt hole (B) above the intermediate shaft bracket using the **20 mm** bolt from the kit, then tighten until the lifting eyelet is snug to the block.



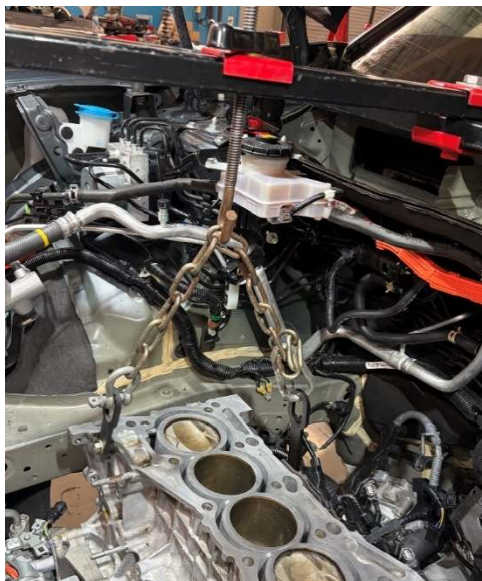
9. Position the engine support hanger tool as shown.

NOTICE

Keep the engine support hanger clear of the windshield to avoid damage.



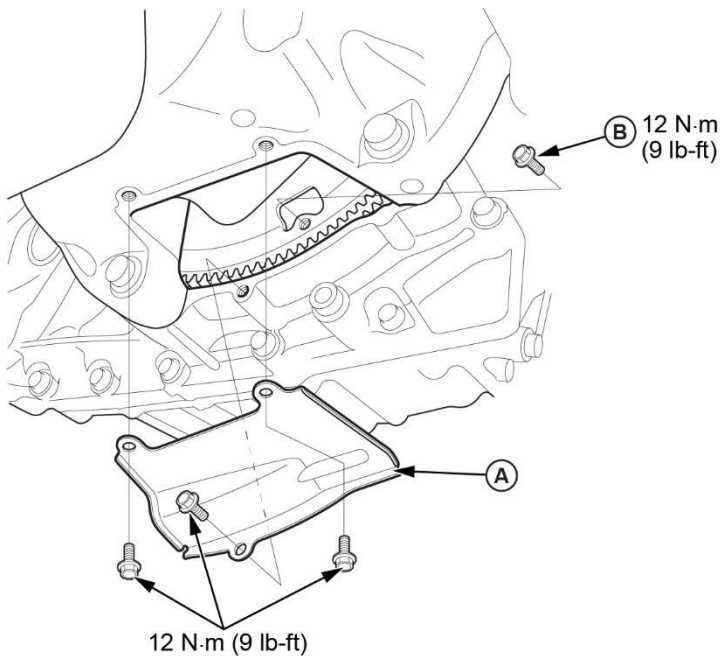
10. Attach a chain to the lifting eyelets, then attach the chain to the engine support hanger and tighten until the engine is supported by the engine hanger.



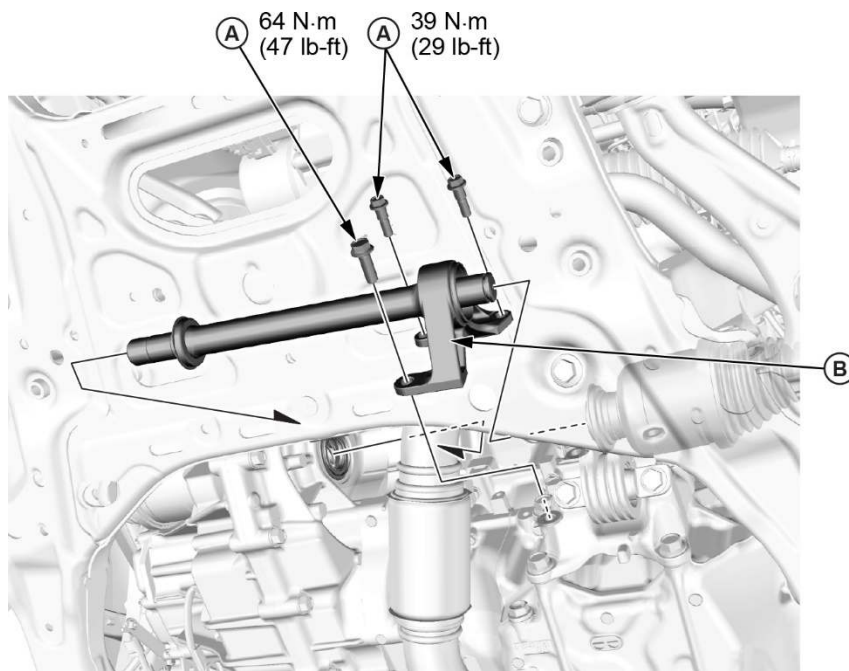
11. Remove the floor jack, then raise the vehicle.
12. Drain the engine oil.
13. Drain the transmission fluid.
14. Remove the A-pipe, [Exhaust Pipe and Muffler Removal and Installation](#).
15. Remove the torque converter cover (A), then remove the eight drive plate bolts (B) while rotating the crankshaft pulley.

During installation:

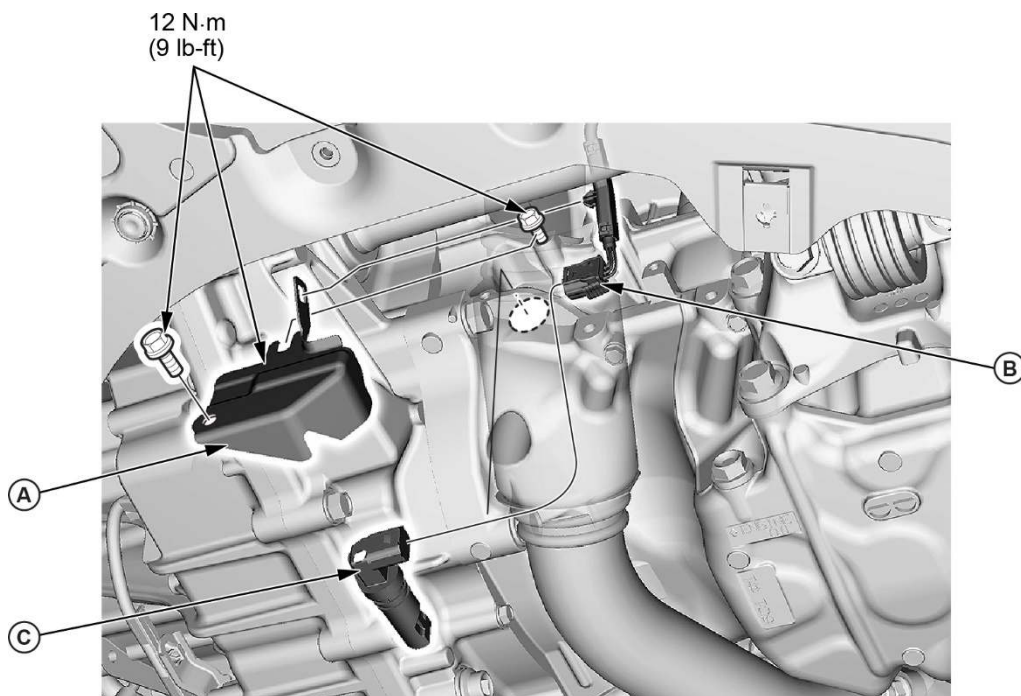
- 15.1 Rotate the crankshaft pulley as necessary to tighten the drive plate bolts (B) to half of the specified torque, then do the final torque in a crisscross pattern.
15.2 Check that the crankshaft rotates freely.
15.3 Install the torque converter cover (A).



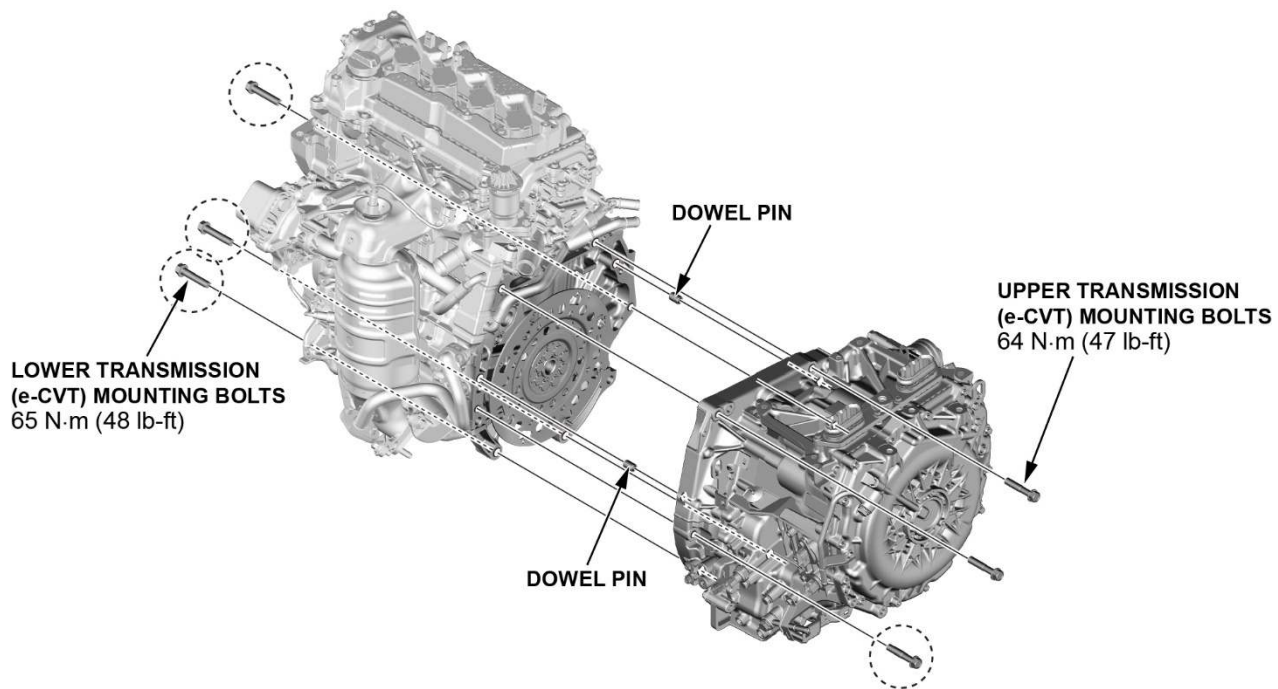
16. Remove the 3 bolts (A) holding the intermediate shaft bracket (B) to the engine block.



17. Remove the CKP sensor cover (A), then disconnect the harness (B) from the CKP sensor (C).

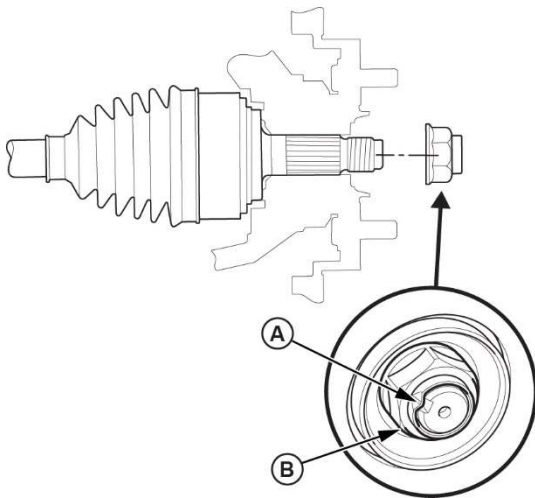


18. Remove the 4 lower transmission mounting bolts.



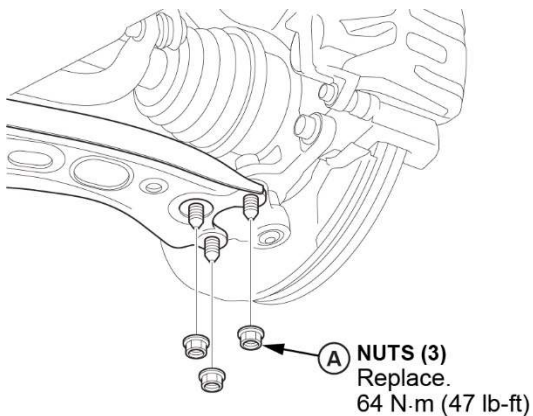
19. Remove the right front spindle nut. Pry up the stake (A), then remove the spindle nut (B).

During installation, install a new spindle nut and apply oil to the threads, then torque to **328 N·m (242 lb-ft)**. Once torqued, use a drift to stake the spindle nut shoulder (A) to the driveshaft.



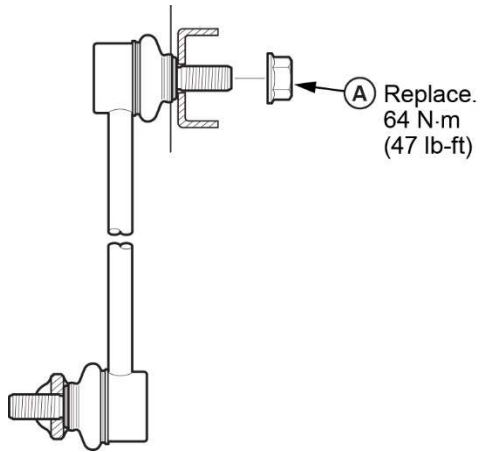
20. Remove the 3 nuts (A) mounting the lower control arm to the ball joint.

During installation, loosely install new flange nuts, then torque to **64 N·m (47 lb-ft)** in the sequence shown.



21. Remove the upper sway bar link nut (A).

NOTE: Use a new flange nut during reassembly.



22. Remove the right-side driveshaft and intermediate shaft as an assembly.

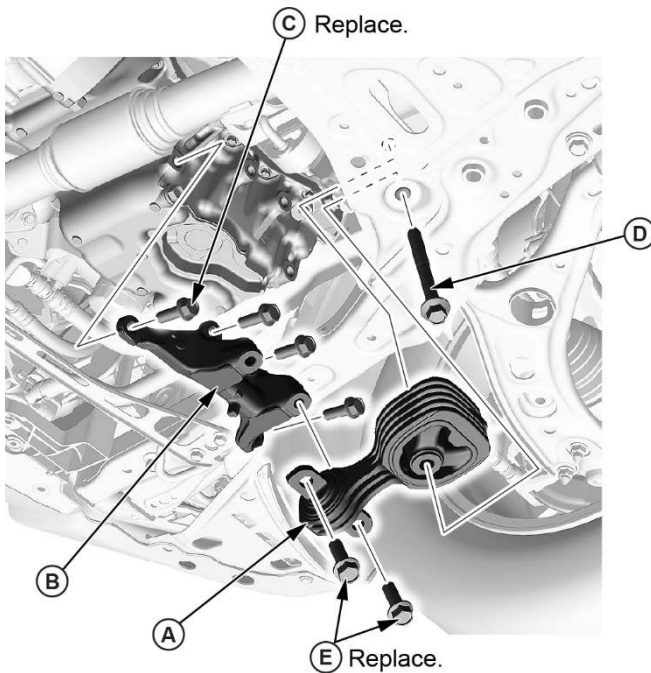


23. Remove the lower torque rod (A), then remove the lower torque rod bracket (B).

During installation, install the lower torque rod bracket and torque the new mounting bolts (C) to **49 N·m (36 lb-ft)**.

NOTE:

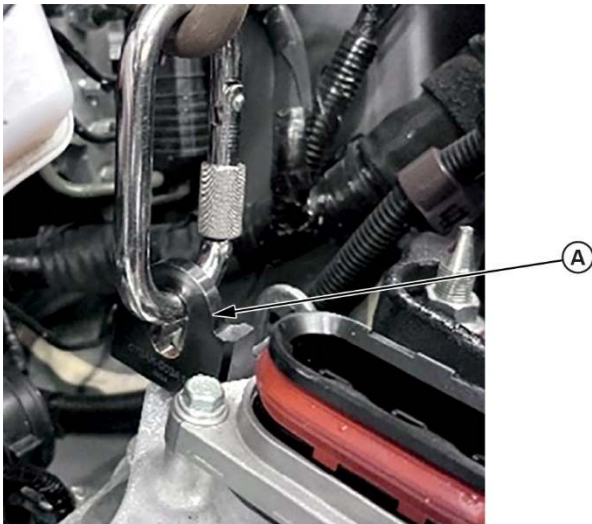
- Use new bolts during installation.
- Tighten the torque rod mounting bolts until snug but do not final torque at this time. Final torque will be done during the cylinder head installation steps.



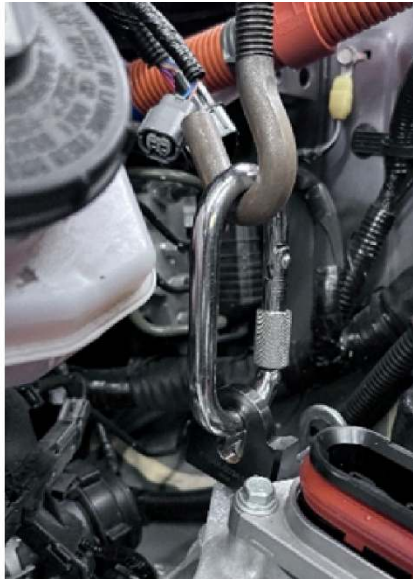
24. Lower the vehicle and use the floor jack to support the engine.

25. Remove the chain from the lifting eyelets on the engine.

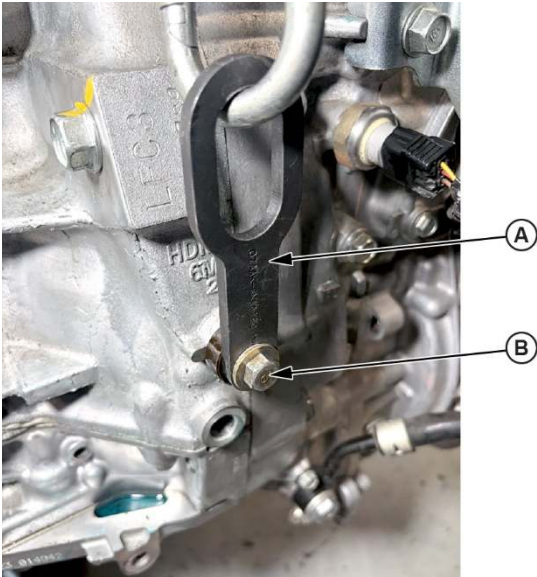
26. Install the transmission hanger (A) (T/N 070AK-003A100).



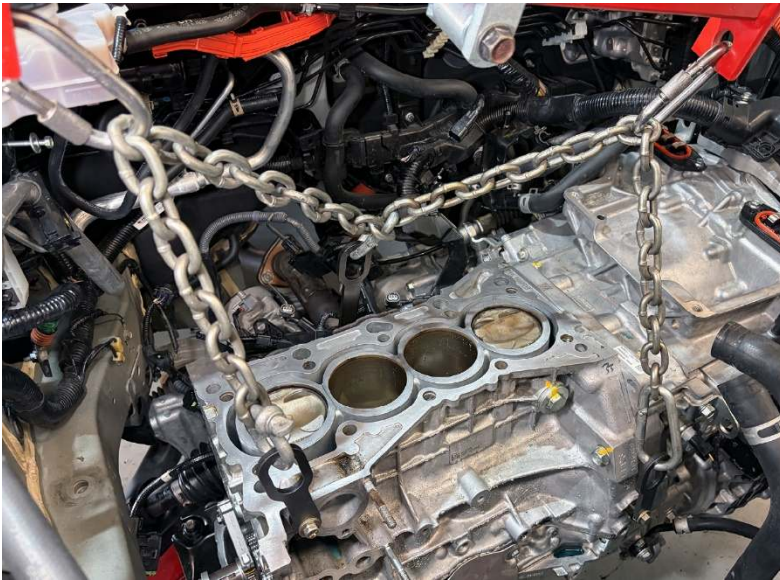
27. Move the engine support hanger tool over to the transmission and attach the chain to the transmission eyelet, then tighten to support the transmission.



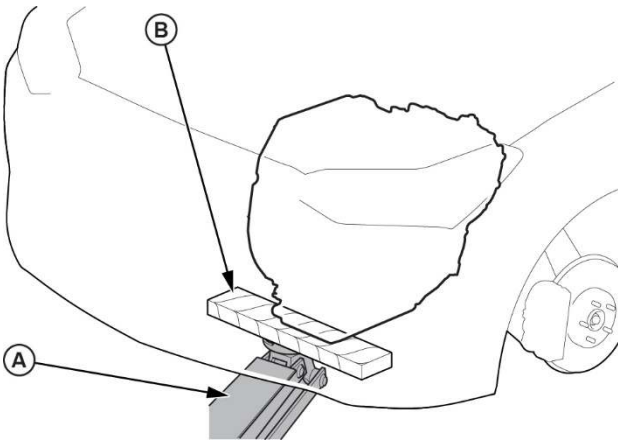
28. Install another lifting eyelet (T/N 07AAK-SNAA120) (A) and **10 mm** spacer with a **30 mm** bolt from the kit to the EGR cooler mounting bolt location, then tighten until the eyelet is snug to the block.



29. Attach the chains from the engine leveler to the lifting eyelets on the engine as shown, then remove the slack.



30. Remove the floor jack (A) from under the engine and position it under the transmission. Lift and support the transmission with the floor jack and a wood block (B).



31. Remove the 3 transmission mounting bolts from the front of the engine.



32. Separate the engine from the transmission.

NOTE: Use a prybar or screwdriver between the drive plate and the torque converter to ensure the torque converter stays with the transmission.

33. Lift the short block to clear the engine compartment.

NOTE: Make sure the torque converter does not come off the transmission.

34. Lower the short block to the ground.

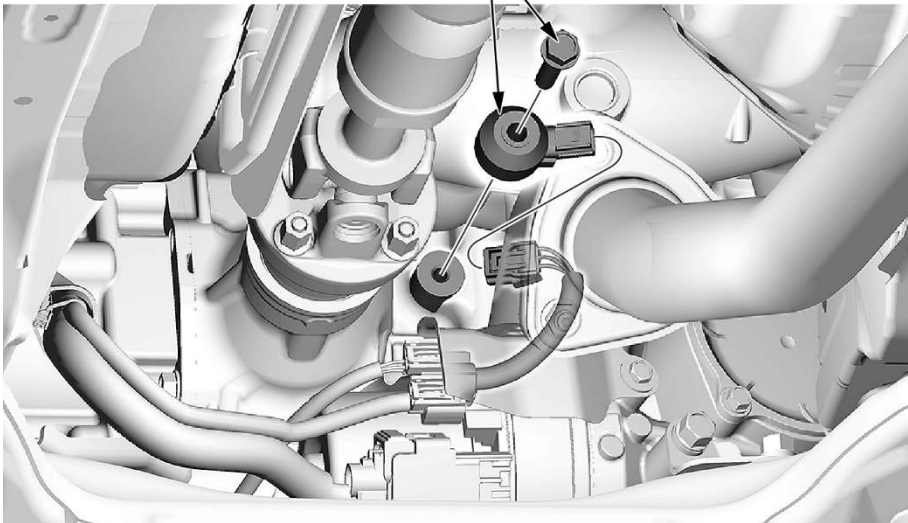
35. Transfer the following parts to the new short block:

35.1 Drive Plate – torque to **74 N·m (55 lb-ft)**.

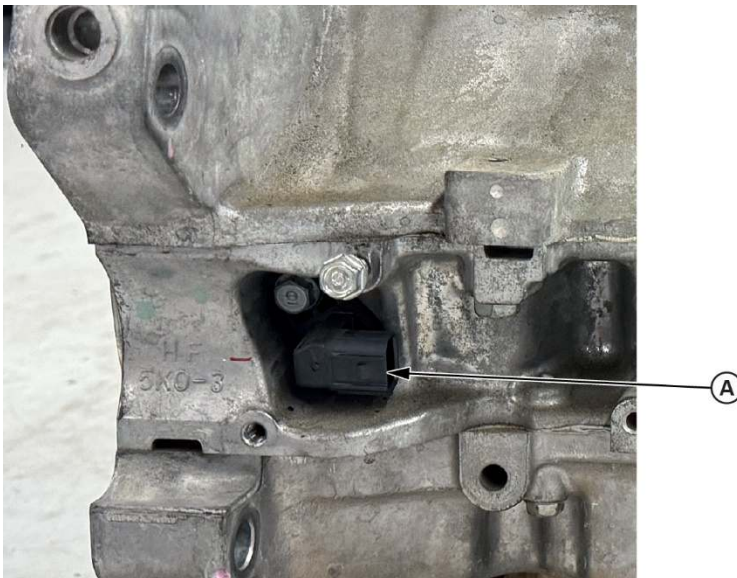
NOTE: Tighten the eight bolts in a crisscross pattern in at least two steps.

35.2 Knock Sensor – torque to **22 N·m (16 lb-ft)**.

22 N·m (16 lb-ft)



35.3 CKP Sensor (A) – Install with a new seal and torque to **12 N·m (9 lb-ft)**.



35.4 Dowel pins (if applicable).

36. Transfer the lifting eyelets from the original engine to the new engine, installing in the same locations.

37. Use the engine hoist and leveler to install the new short block into the vehicle.

38. Complete the Short Block Replacement by installing the remaining parts in the reverse order of removal.

Is the cylinder head also being replaced?

YES – Go to **Repair Procedure #2 - [Cylinder Head Replacement](#)**.

NO – Go to **Repair Procedure #1 – [Head Gasket Only](#)** to install the cylinder head and complete the repair.