



Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 23-01-021G
DATE APRIL 2023	MODEL(S) GV80 (JX1)

SUBJECT: 3.5L T-GDI ENGINE TURBOCHARGER OIL PORT RESURFACING
(SERVICE CAMPAIGN T25G)

* IMPORTANT

Dealers must perform this service campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

Access the "Vehicle Information" screen via WEBDCS to identify open campaigns.

Description: On certain 2022MY GV80 (JX1) vehicles, the turbo oil feed pipe mating surface on the engine may have been scratched during the manufacturing process. This scratch could cause an oil leak. This bulletin provides the procedure to polish the oil feed pipe mating surfaces and replace the gaskets.

STUI

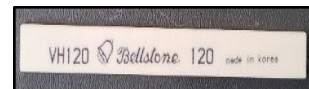


This TSB includes STUI pictures as a requirement. Where indicated, please include the last 6 digits of the VIN and date of repair on a piece of paper. Ensure the VIN and date of repair are clearly visible. Finally, please ensure the captured pictures are completed according to the steps in this TSB and uploaded to STUI. All claims submitted that have illegible, incomplete, missing, or incorrect picture(s) are subject to debit.


Applicable Vehicles: Certain 2022MY Genesis GV80 (JX1) vehicles produced from 11/25/2021 to 1/25/2022

Parts Information:

PART NAME	PART NUMBER	DESCRIPTION	QTY.
SERVICE KIT	28241-3N110	NBR 300 μ m coated gasket	2 EA
		Rough stone (GT700200305130521)	1 EA
		Soft stone (GT700200212080846)	1 EA



Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

EAR PLUGS	N/A	Foam type disposable safety ear plugs (Locally sourced)		1 PAIR
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Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
GV80 (JX1)	20D015R0	TURBOCHARGER OIL FEED REWORK (LH or RH ONLY)	9.9M/H	28231-2T000	E74	ZZ2
	20D015R1	TURBOCHARGER OIL FEED REWORK (BOTH SIDES)	10.4M/H			

NOTE 1: Submit claim on Campaign Claim Entry Screen.

NOTE 2: If a part that is not covered by this campaign is found in need of replacement while performing campaign and the affected part is still under warranty, submit a claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

NOTE 3: The incident parts are subject to callback through the normal Warranty Technical Center (WTC) parts return process. Claim is subject to debit if part is requested and not returned.

NOTE 4: The op times include taking a STUI picture and uploading. The picture must include installation of the new coated gasket along with the last six digits of the VIN and date of the repair on a piece of paper. **If not included, claim will be subject to debit.**

Service Procedure:

TURBOCHARGER OIL FEED REWORK (LH SIDE)

1. Remove the engine and transmission assembly according to the vehicle shop manual.
 - Engine Mechanical System > Engine and Transmission Assembly > Engine and Transmission Assembly



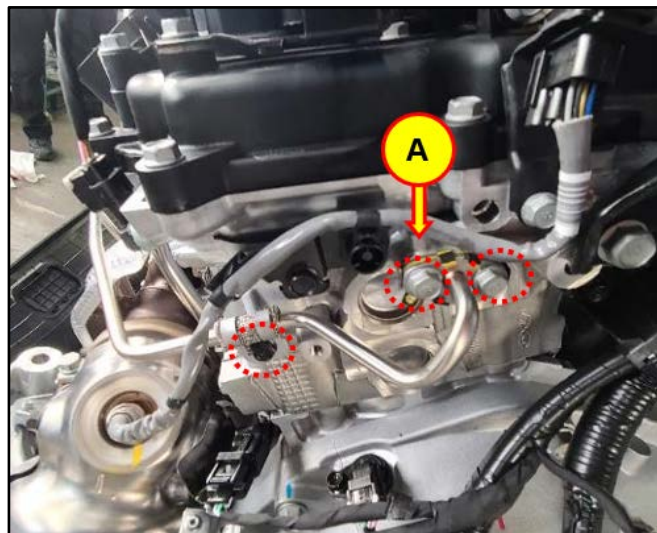
- Loosen the LH turbo charger oil feed pipe mounting fasteners (A).

Tightening Torque:

- 9.8 ~ 11.8 Nm (7.2 ~ 8.7 lb-ft)

CAUTION

Be careful not to damage the oil feed pipe.



- Inspect the turbo oil feed mating surface on the LH side cylinder head for scratches.
 - If a scratch is found, continue to the next step.
 - If no scratch is found, reinstall the removed parts from Step 2 above in reverse order of removal and continue to **TURBOCHARGER OIL FEED REWORK (RH SIDE)** in the following pages.



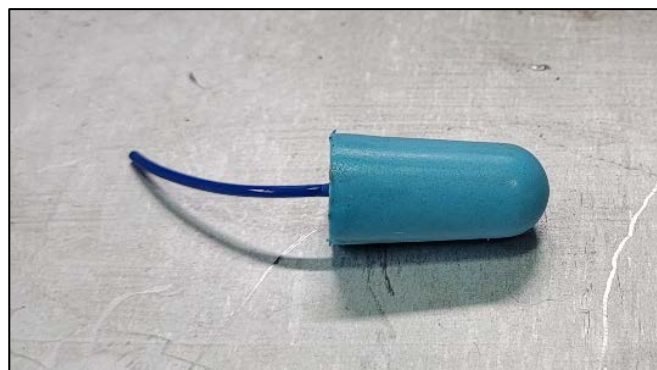
- Remove the hoist lifting bracket from the rear of the LH cylinder head using a 14mm socket.

Tightening Torque:

- 44.1 ~ 53.6 NM (32.5 ~ 39.8 lb-ft)



- Modify an earplug to use as a plug for the oil feed hole by cutting the cord about an inch from the end of the earplug.



6. Fold the remaining cord attached to the earplug over so that it can be used as a loop to later remove it from the hole.



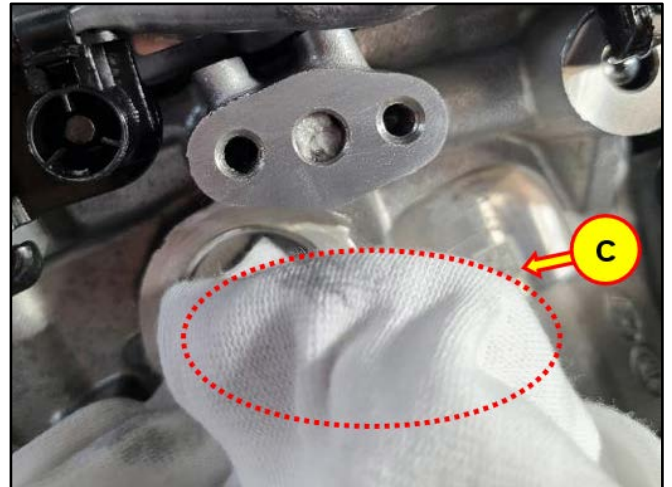
- Compress the earplug and insert it just past flush of the oil feed hole surface, so that no debris can enter.

⚠ CAUTION

Ensure that the plug is only inserted just past flush with the surface so that it can be easily removed.



7. Wrap the oil feed pipe (C) using fabric as shown or cover with masking tape to prevent debris from entering.



8. Using a permanent marker, mark the oil feed surface so that the entire face is covered.
 - This will help to identify when the entire scratch has been removed.

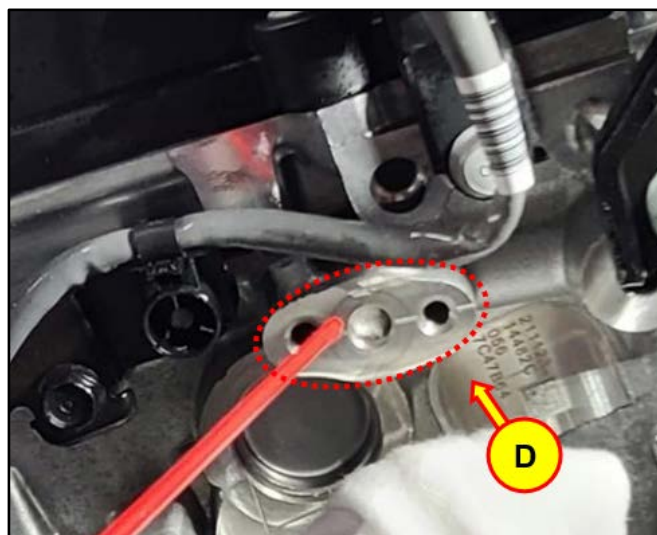


9. Cut both polishing stones in half before using them.

NOTE: A set of stones cut into 2 pieces each can be used to repair at least 2 vehicles.

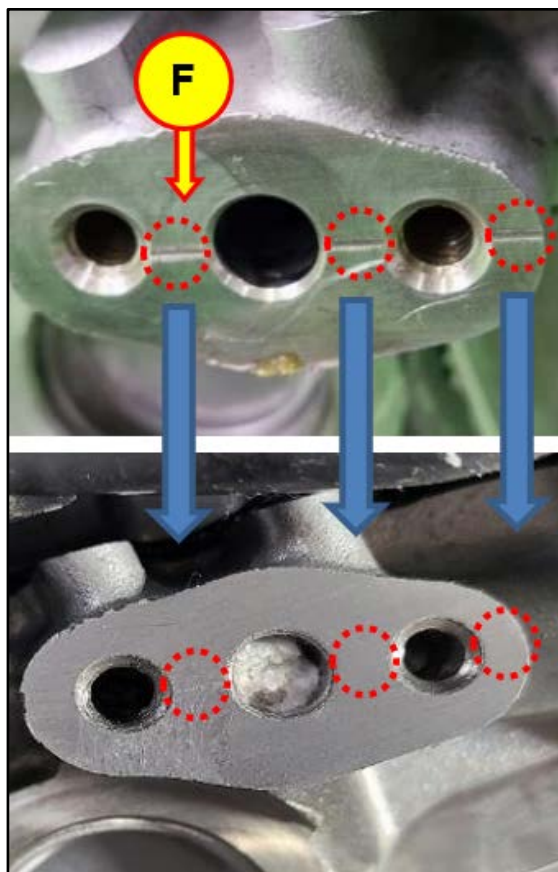


10. Lubricate the supplied rough stone (GT700200305130521) and oil feed surface using soapy water, WD40 or equivalent lubricant.

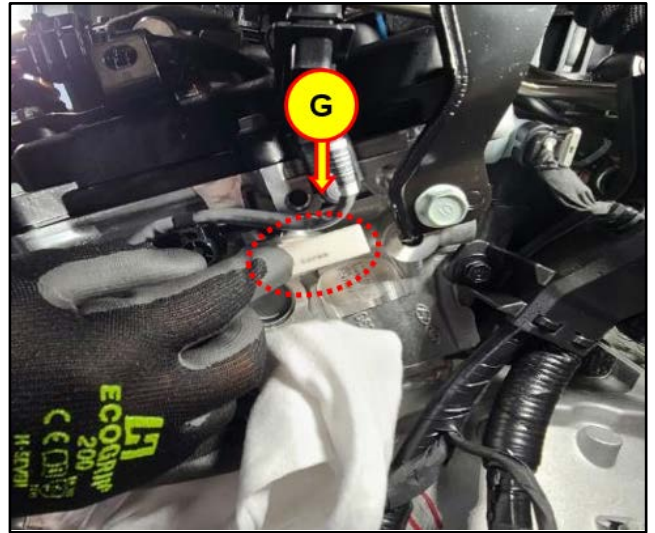


11. Polish the pipe adhesive surface (E) using rough 120 grit stone (GT700200305130521) until the groove (F) and any marker that was applied within the scratch is no longer visible.

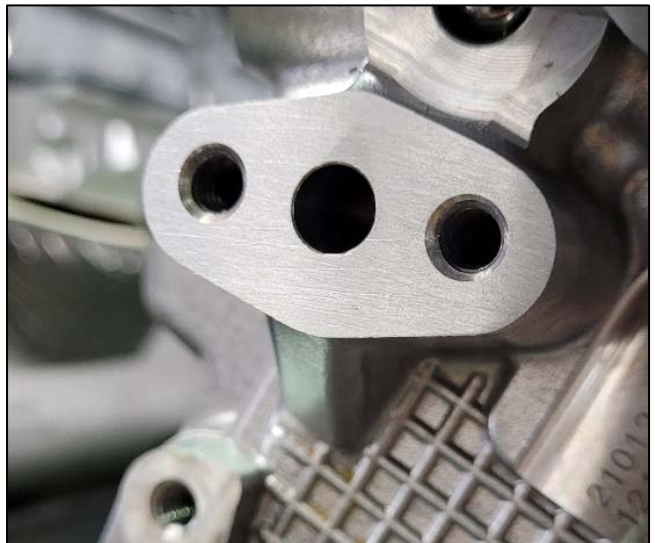
- While polishing using a side-to-side motion, be sure to work the stone up and down so that the entire surface is evenly polished.
- Periodically spray the stone with lubricant during this process to clear any debris from its surface.



12. Lubricate the supplied soft 400 grit stone (GT700200212080846) and oil feed surface using soapy water, WD40 or equivalent.



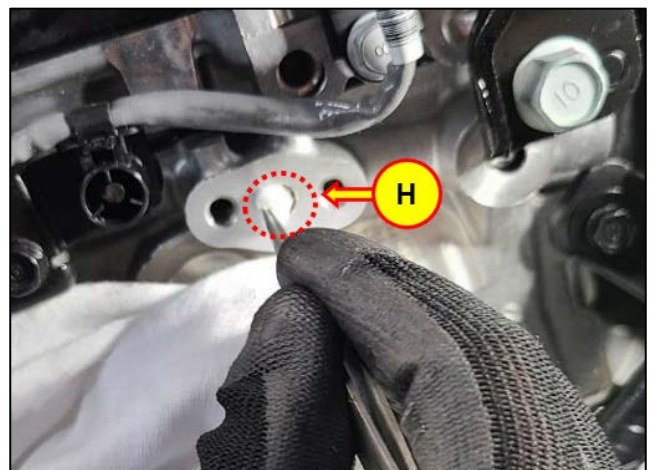
13. Polish the pipe adhesive surface (E) using soft 400 grit stone until the surface of the oil feed boss is smooth and free of any scratches left behind by the rough polishing stone.
- While polishing using a side-to-side motion, be sure to work the stone up and down so that the entire surface is evenly polished.
 - Periodically spray the stone with lubricant during this process to clear any debris from its surface.
 - Ensure the edges of the surface are free from any burrs.



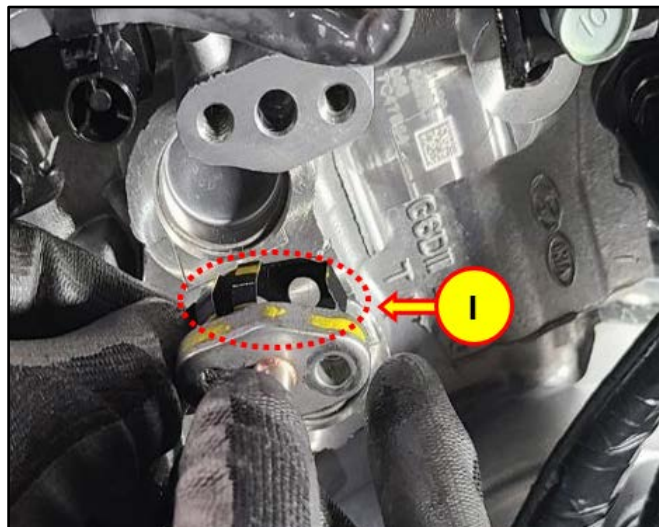
14. Clean the oil feed surface and then carefully remove the plug (H) from the oil feed hole.

⚠ CAUTION

Inspect oil feed hole to ensure there is no debris in the hole.



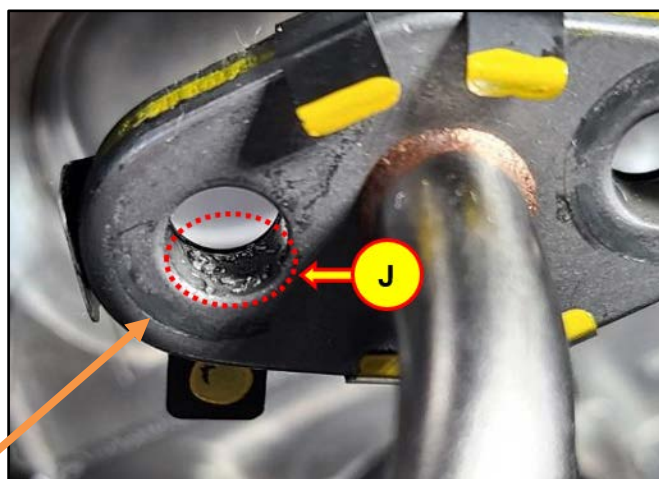
15. Remove the cloth or masking tape from the oil feed pipe and then remove the existing pipe gasket (I).



- Install the supplied NBR 300 μ m coated gasket.

NOTICE

Before installing the supplied gasket, clean any debris (J) from the pipe bolt hole.



STUI



Using STUI in the GDS, take a picture of the NEW coated gasket with last 6-digits of VIN and date of repair on a piece of paper.

Ensure the picture is in focus and **VIN with date of repair are legible.**

Upload the photo in STUI.

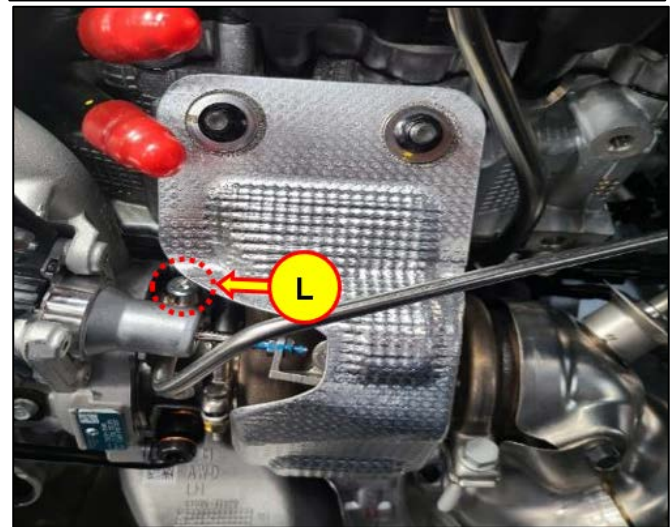
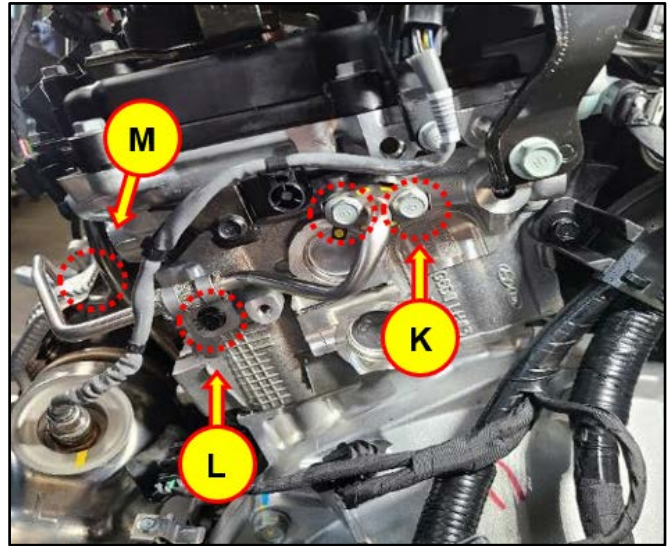
16. Reinstall the removed parts in reverse order of removal.

CAUTION

Make sure to check the oil feed pipe tightening torque.

Tightening Torque:

- Feed pipe bolt (K): 9.8 ~ 11.8 Nm (7.2 ~ 8.7 lb-ft)
- Feed pipe bracket bolt (L): 9.8 ~ 11.8 Nm (7.2 ~ 8.7 lb-ft)
- Eye bolt (M): 17.7 ~ 21.6 Nm (13.0 ~ 15.9 lb-ft)
- Engine hoist lifting bracket: 44.1~ 53.6 Nm (32.5 ~ 39.8 lb-ft)

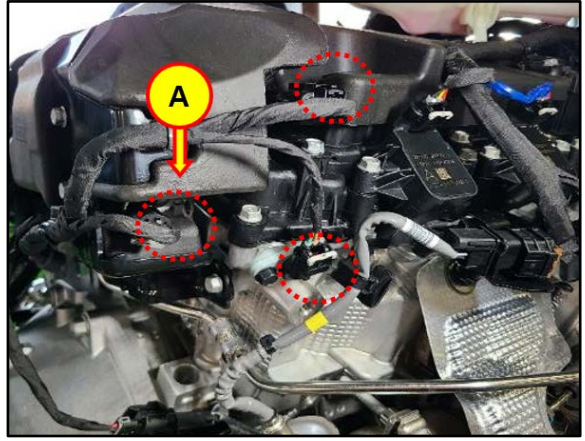


TURBOCHARGER OIL FEED REWORK (RH SIDE)

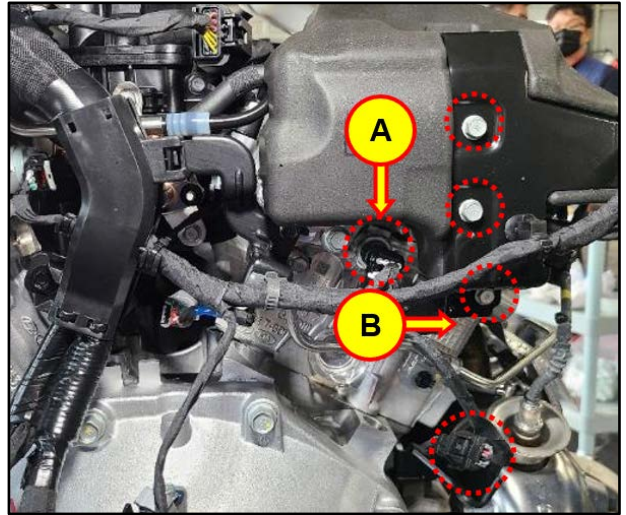
1. Remove the engine and transmission assembly according to the vehicle shop manual, if this has not already been done for the LH side operation.
 - Engine Mechanical System > Engine and Transmission Assembly > Engine and Transmission Assembly



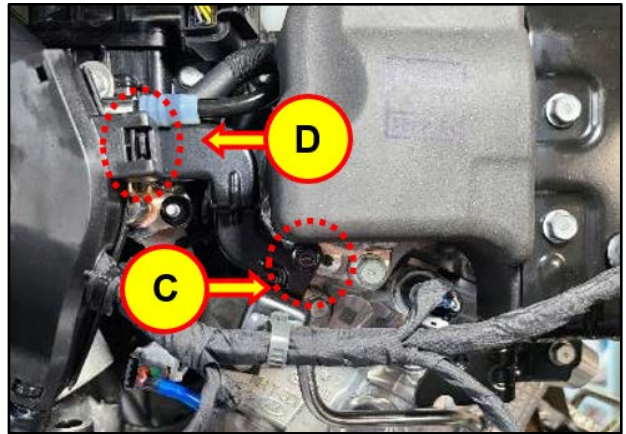
2. Disconnect the connector (A).



3. Loosen the mounting bolt (B) and remove the high-pressure fuel pump form.



4. Loosen the bracket mounting bolt (C).



5. Release the locking pin (D) and remove the bracket.



- Inspect the turbo oil feed mating surface on the RH side cylinder head for scratches. If a scratch is found, continue to the next step. If no scratch is found, skip Step 7 below and proceed directly to Step 8.



- Perform the polishing procedure on the RH side according to steps 5 - 15 of the TURBOCHARGER OIL FEED REWORK (LH SIDE) procedure.

STUI



Using STUI in the GDS, take a picture of the NEW coated gasket with last 6-digits of VIN and date of repair on a piece of paper. See Step 15 of TURBOCHARGER OIL FEED REWORK (LH SIDE) procedure for details.

Ensure the picture is in focus and **VIN with date of repair are legible.**

Upload the photo in STUI.

- Reinstall the removed parts in reverse order of removal.

CAUTION

Make sure to check the oil feed pipe eyebolt tightening torque.

Tightening Torque:

- Feed pipe bolt: 9.8 ~ 11.8 Nm (7.2 ~ 8.7 lb-ft)
- Feed pipe bracket bolt: 9.8 ~ 11.8 Nm (7.2 ~ 8.7 lb-ft)
- Eye bolt: 17.7 ~ 21.6 Nm (13.0 ~ 15.9 lb-ft)

