

# SHIFT SHAFT REPLACEMENT

**AFFECTED MODEL:  
 2020 1290 SUPER DUKE R**

**RESTRICTIONS: AFFECTED MODELS ARE LINKED BY VIN IN KTM DEALER.NET**

**INITIAL INFORMATION:**

KTM North America, Inc. has determined that a deviation has been found with the shift shaft stop of certain 2020 1290 Super Duke R models. On affected VIN's the shift shaft stop may not be the proper length intended during gear changes. During operation this could cause the motorcycle to feel hard to shift. To remedy this the shift shaft must be replaced with a new revised version. The revised shift shaft P.N. 61734005044 (Fig.1) has a new additional stop which is pictured below to compare to with the original shift shaft.

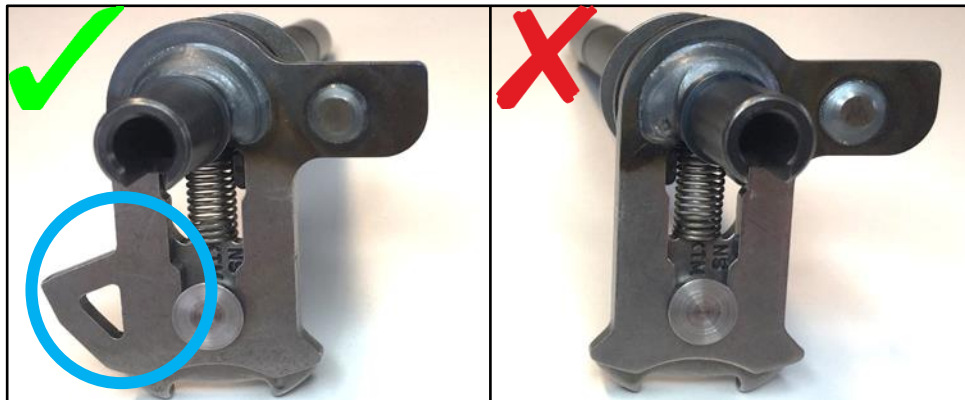


Fig. 1

P.N.- 61734005044

Originally installed part

**PROCEDURE FOR REPAIR:**

1. Drain the engine oil and coolant.
2. Remove the left rear cylinder side frame cover (Fig. 2), remove the spark plug of the rear cylinder and lock the engine at TDC according to the repair manual.



Fig. 2

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3. Remove the water pump cover and the water pump impeller.
4. Remove the shift shaft sensor. Remove the outer clutch cover, and the complete clutch hub assembly.
5. Remove the inner clutch cover while holding the water pump shaft against the engine case.
6. Remove the shift linkage, then the shift shaft.
7. Remove the magnet holder from the shift shaft and install it on the new replacement shift shaft. Using circlip pliers or two screwdrivers, unlock the detents carefully to prevent damage (Fig. 3).



Fig. 3

8. Align the guide of the magnet holder with the new shift shaft using a 21mm socket. Then press on the magnet holder until it's locked into place (Fig. 4).



Fig.4

9. Please reference **Table 1** on the next page for torque specifications.
10. Install the new shift shaft and then install the shift linkage.
11. Install the clutch basket and carefully align it properly against the oil pump gear.
12. Install the remaining clutch components.
13. Install the inner clutch cover and take care not to damage the water pump seal, also install the outer clutch cover and install the shift shaft sensor.
14. Install the water pump impeller and the water pump cover.
15. Remove the locking bolt from the engine and install the spark plug and frame cover.
16. Refill the coolant and bleed the cooling system. Refill the engine oil.
17. Connect the motorcycle to the XC\_2 diagnostics tool and clear the adaptation values.
18. Program the gear position sensor and the shift shaft sensor.
19. Perform a motorcycle initialization run, visually check for leaks in the cooling system and clutch cover areas. A 5 minute test ride will verify proper operations of this repair.

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**Table 1 – Screw connections and torques**

Component	Screw	Torque	Remark
Nut, inner clutch hub	M22x1.5	130 Nm	Medium strength thread locker (e.g., Loctite® 243™)
Screw, clutch spring	M6	12 Nm	
Screw, clutch cover (inner and outer)	M6	10 Nm	
Screw, shift shaft sensor	M5	6 Nm	Medium strength thread locker (e.g., Loctite® 243™)
Screw, water pump impeller	M6	10 Nm	Medium strength thread locker (e.g., Loctite® 243™)
Screw, water pump cover	M6	10 Nm	
Screw, shift shaft linkage on shift shaft	M6	18 Nm	Medium strength thread locker (e.g., Loctite® 243™)

**PARTS ORDERING:**

Please order the following parts for each affected motorcycle:

- 1 QTY. 61734005044 - Shift shaft, complete
- 1 QTY. 61730025000 - Clutch cover gasket
- 1 QTY. 0603061001 - Copper seal ring 6x10x1

**WARRANTY INPUT INFORMATION:**

**This Technical Bulletin only affects certain VIN numbers! Please check the VIN by performing a Motorcycle History search in KTM Dealer.net to determine if it's affected. If the motorcycle is affected, you will see a link to the bulletin and its repair status in the history results. KTM North America will not warranty units whose VIN numbers are not linked as this bulletin does not apply to them. It is the responsibility of the dealer to determine if the unit requires this update by checking the vehicle history and understanding the instructions provided by this bulletin.**

Please note that when entering a warranty claim on an affected model, you must perform a vehicle history search, expand the **Technical information** window and click the orange arrow on the right side of the corresponding bulletin message.

You can now choose the TI Number from the list. The TI number for this procedure is according to the repairs performed and listed in the warranty claim input information; click **Continue with selected action code**.

The Warranty Claim is automatically entered for you, including parts & labor. You must enter additional information in the required fields marked with an asterisk "\*" before submitting the claim to KTM. The flat rate time for this repair is based on the action performed and provided in minutes.

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**Claim entry information for the shift shaft replacement**

<b>Warranty type:</b>
TI warranty
<b>Component group:</b>
30 – Engine housing
<b>Failure code:</b>
900 – Failure identification by manufacturer
<b>Failure causing part:</b>
6173000004424 – Crankcase cmpl.
<b>Campaign code, parts, labor time:</b>
Action code: <b>30_1778008_00</b>
Labor time: <b>75 minutes</b>
Parts: <b>1 QTY. #61734005044 - Shift shaft cmpl.</b>
<b>1 QTY. #61730025000 – Clutch cover gasket</b>
<b>10 QTY. #GA05 – Anti-freeze 0,1l</b>
<b>1 QTY. #0603061001 – Copper seal ring 6x10x1</b>
<b>Are stock items affected: NO</b>

**Claim entry information for oil reimbursement**

For reimbursement of the engine oil used you must submit a separate claim using the crankcase cmpl. P.N. 6173000004424 as the failure causing part set at QTY. 0. Please enter QTY. 35 #GA01 engine oil. Please reference the second table below.

<b>Warranty type:</b>
Manufacturer
<b>Component group:</b>
30 – Engine housing
<b>Failure code:</b>
900 – Failure identification by manufacturer
<b>Failure causing part:</b>
6173000004424 – Crankcase cmpl.
<b>Campaign code, parts, labor time:</b>
Parts: <b>35 QTY. #GA01- Engine Oil 0,1l SAE 10W50</b>
<b>Are stock items affected: NO</b>

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