

EMEA
Quality - Product Liability

P. 1057/14

Turin, 28th October 2014

Messrs. **FIAT GROUP Automobiles FOREIGN
BRANCHES/ITALY MARKET**
Att. **Technical Service Managers**

Att. **Importers**
Eng. Bertolusso



CAMPAIGN 5854 - Service Campaign
Fiat Ducato model with MTA
- transmission actuator

On 1278 Fiat Ducato vehicles with MTA, whose chassis numbers range between 1675901 and 2668940, the transmission actuator must be replaced, to prevent any customer's claim resulting from the extensions of times for gear engagement with relevant warning on the instrument panel.

Therefore, it is compulsory to make a pre-delivery intervention on vehicles still in stock. For vehicles which have already been delivered, customers must be contacted by the attached letter (Annex 1) and the operating cycle described in the attachment (Annex 2) must be implemented to upgrade all vehicles.

Sincerely yours

A. Milizia

Annexes

Turin, October 2014

DRAFT LETTER

SERVICE CAMPAIGN 5854

**Service Campaign
Fiat Ducato model with MTA
- transmission actuator**

Dear Customer,

We inform you that on a limited number of Fiat Ducato vehicles with MTA, including yours, the transmission actuator must be replaced to improve gear engagement times.

We would be grateful if you could have your vehicle checked by taking it back to the Dealer you bought it from or, if more convenient, to any other workshop of authorised Fiat Dealership, referencing to this letter.

The check and any required service shall be carried out as soon as possible, free of charge.

For your convenience, you can book this intervention by phone, by directly contacting your preferred Fiat Dealership or any other workshop in the Fiat Authorised Service Network.

For any clarification or assistance, contact our freephone number

If you have already sold or transferred your vehicle to someone else, we would be very grateful if you could provide us with the name and address of the new owner, using the enclosed stamped and pre-printed card, along with any information which could make our research of the possible owner or user easier.

We thank you for your kind cooperation and apologise for any inconvenience caused. In the meanwhile, we send you our most sincere regards.

Vehicle: Fiat Ducato

chassis.....



CAMPAIGN

Service Campaign

5854

COMPONENT:	GEAR SELECTION / ENGAGEMENT ACTUATOR			
FAULT:	Possible increase of gear engagement times with switching-on of the dedicated warning light in the instrument panel			
VERSION:	Ducato 250 - 2.3 and 3.0 JTD Comfort-Matic Euro 5 Ducato 290 - 2.3 and 3.0 JTD Comfort-Matic Euro 5+			
VEHICLES CONCERNED:	All vehicles with chassis number listed in SIGI.			
TECHNICAL CAUSE:	Production process			
RELEASE NO.:	0			
MATERIAL:	Description:	Part No.:	Qty:	
	See table for Spare Parts Availability at the end of cycle			
SPECIAL TOOLS:	-			
EPLUS ORDER UPLOADING METHOD:	-			
REMUNERATION:	Cost:	Campaign:	Operation:	Time:
MANPOWER AND MATERIAL:	A01	5854	A - (250 - 2.3 JTD versions)	1.90
	A01	5854	B - (250 - 3.0 JTD versions)	2.40
	A01	5854	A - (290 - 2.3 JTD versions)	1.30
	A01	5854	B - (290 - 3.0 JTD versions)	1.80
MISCELLANEOUS (MAIL, ETC.):	A10	5854	-	-
INTERVENTIONS DURING PRODUCTION:	The assembly of a compliant gear selection/engagement actuator is guaranteed			
NETWORK INTERVENTION IDENTIFICATION:	-			

It is compulsory to make a pre-delivery intervention on vehicles still in stock. For vehicles which have already been delivered, customers must be contacted by sending the enclosed letter to upgrade all vehicles.

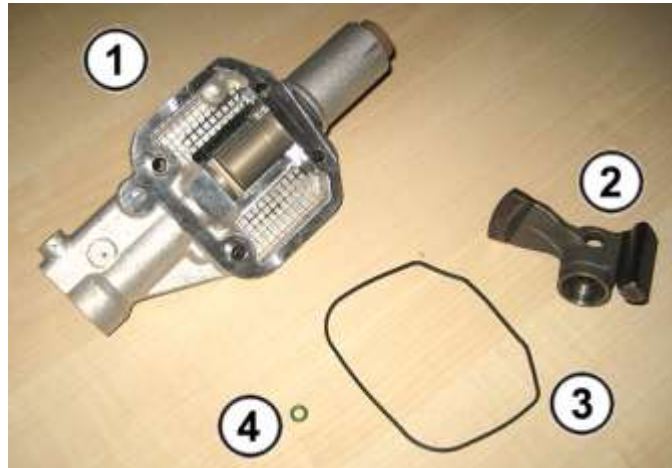
OPERATING CYCLE

On the vehicles involved, depending on the version, replace the gear selection/engagement actuator, as described below, with reference to the Service Manual.

Gear engagement/selection actuator replacement

Take from the Spare Parts Dpt. the components for the replacement of the gear selection/engagement actuator part no. 71776984, formed by:

- no. 1 gear engagement/selection actuator (1);
- no. 1 control lever (2);
- no. 1 seal (3);
- no. 1 O-Ring (4);
- no. 4 screws M6x35 (not shown).



Depending on the model, proceed as below described.

Procedure valid for Ducato 250 - 2.3 and 3.0 JTD models

Position the vehicle on a lift.

- Engage the gear control lever on "N" (Neutral).
- Using Examiner Emulator (inside Witech^{PLUS}) depressurise the actuation hydraulic circuit.

NOTE: in order for the depressuring procedure to be successful it is necessary that:

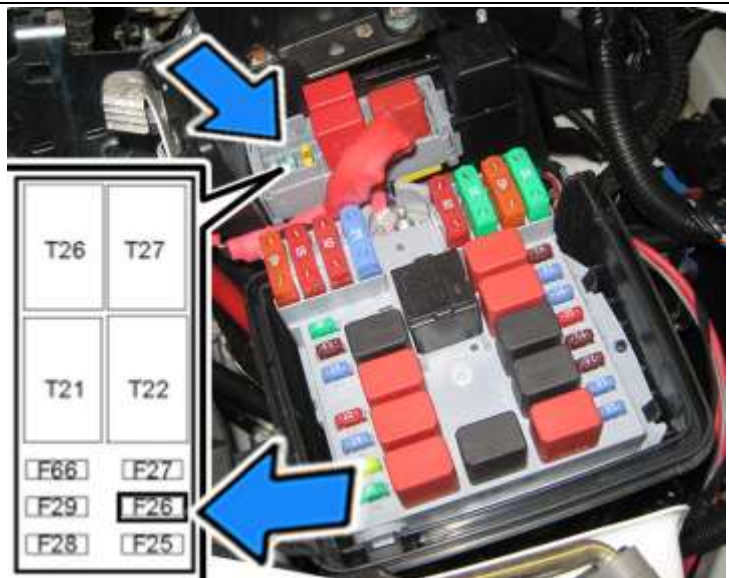
- there are no errors;
- the brake pedal remains pressed.

Then, continue as described.

Working in the engine compartment:

- Undo the fixing nuts and remove the cover for the junction box, to reach the additional fuse box (B046) shown, used for versions with robotised gearbox.
- Disconnect the electric pump fuse F26 (30 A), located as shown, all the cycle long.

NOTE: if the key is rotated to MAR, the circuit will go back to the operating pressure.



- Turn the ignition key to the STOP position
- Remove the battery cover, see Op. 5530B54.
- Disconnect the negative battery terminal.

For Ducato 250 - 2.3 JTD only, proceed as follows:

- Working on the gear selection/engagement actuator, with reference to Op. 2127C39, undo the fixing nuts and move aside, without disconnecting the pipes, the electrohydraulic fluid circuit, with the relevant bracket.

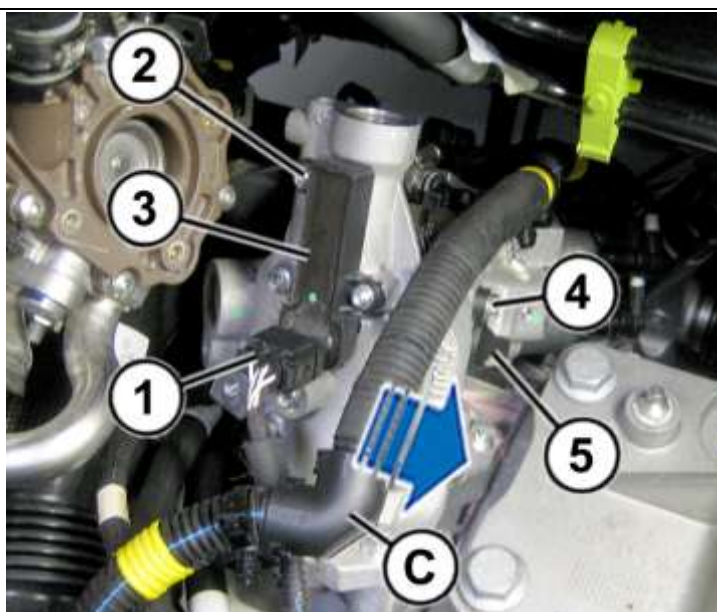
For Ducato 250 - 3.0 JTD only, proceed as follows:

- Remove the turbocharger air inlet pipe, see Op. 1048A51.
- Working on the gear selection/engagement actuator, with reference to Op. 2127C07 and 2127C45, undo the fixing nuts and move aside, without disconnecting the pipes, the electrohydraulic fluid circuit, with the relevant bracket.

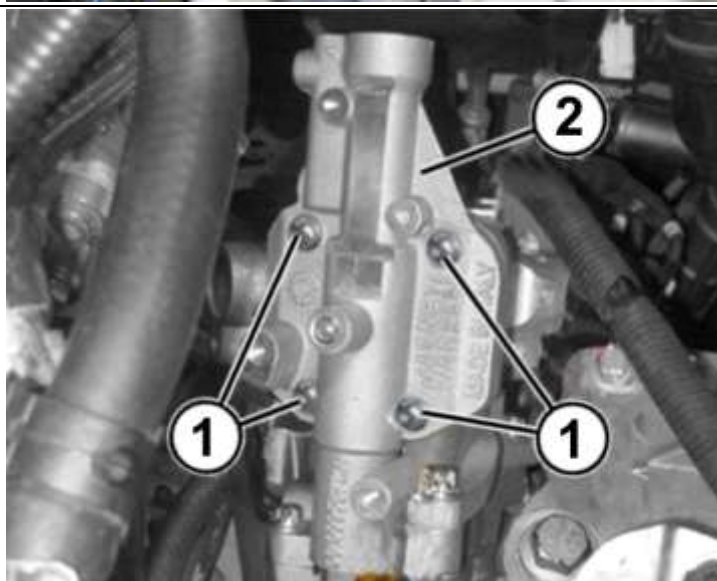
Working on both Ducato 250 - 2.3 and 3.0 JTD models

Work on the gear selection/engagement actuator for the electrohydraulic gearbox:

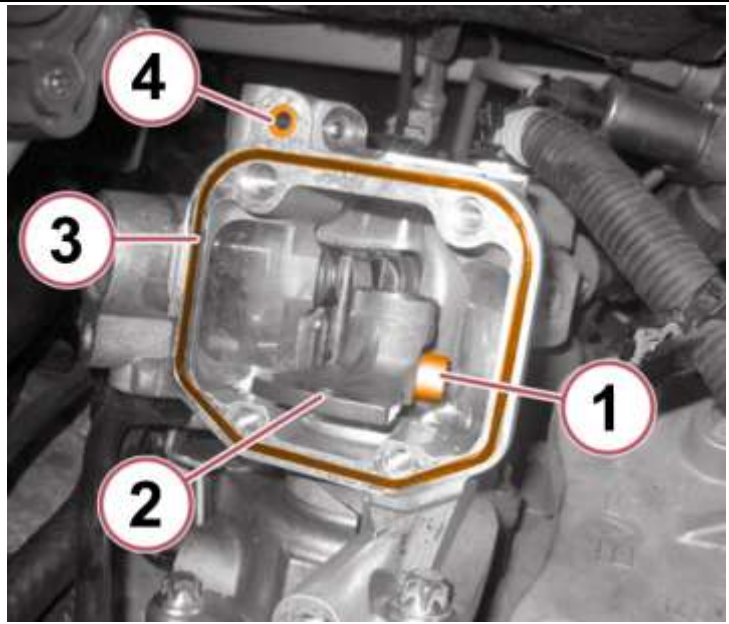
- Release the cable harness (C) from the fasteners and move it aside to clear the working area.
- Disconnect the electrical connection (1), undo the fixing screws (2) and remove the gear selection potentiometer (3).
- Undo the fixing screw (4) and remove the side inspection cover (5).



- Undo the fixing screws (1) and remove the gear selection/engagement actuator (2) from its housing.



-
- Undo the fixing screw (1) and remove the control lever (2) from its housing.
 - Release and remove the seals (3) and (4) from their respective housings.



Refitting of the new actuator

Install the new actuator for gear selection/engagement of the electrohydraulic gearbox, with reference, for both power units to the description of Op. 2127C39 for 2.3 JTD power unit.

Proceed with the actuator calibration operations, as described in Op. 2127C39, **strictly complying** with the instructions, which are valid for both power units.

- Reinstall the removed components, working in the reverse order of removal.

Connect the diagnosis equipment and start the "Hydraulic kit replacement" procedure; then carry out the two procedures:

- "End of line/service self-calibration"
- "Enabling clutch self-calibration"

Remove the vehicle from the lift.

Working on Ducato 290 - 2.3 and 3.0 JTD models

Position the vehicle on a lift.

- Turn the ignition key to the Stop position.
- Remove the battery cover, see Op. 5530B54.
- Disconnect the negative battery terminal.
- Remove the left front light cluster, see Op. 5540B70
- Reconnect the negative battery terminal.
- Turn the ignition key to the MAR position.
- Engage the gear control lever on "N" (Neutral).
- Using wiTECH^{PLUS} depressurise the actuation hydraulic circuit.

NOTE: in order for the depressuring procedure to be successful it is necessary that:

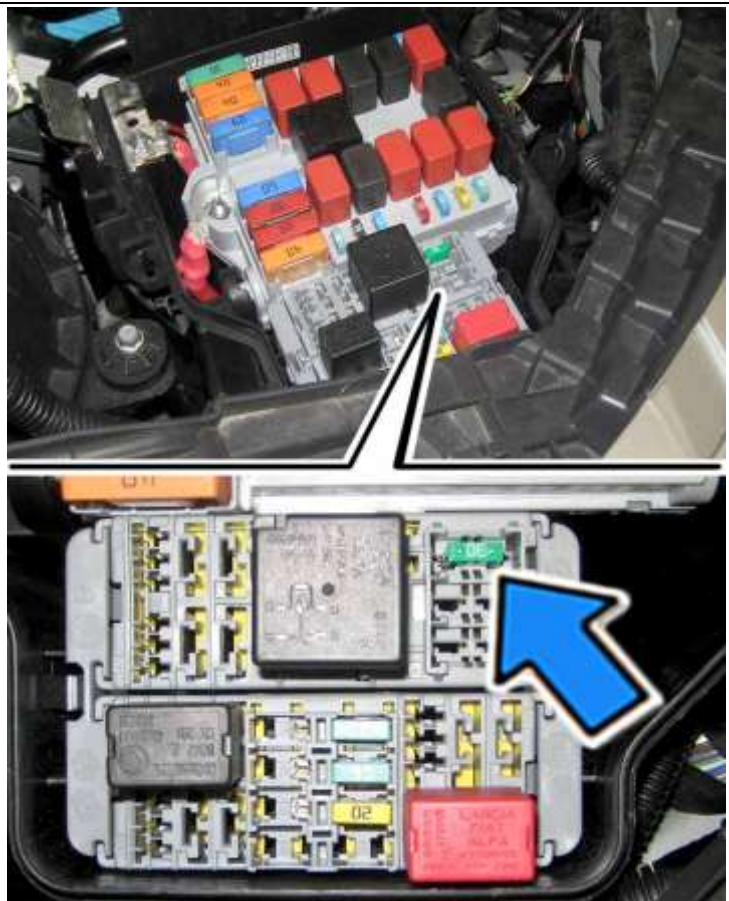
- there are no errors present,
- the brake pedal remains pressed.

Then, continue as described.

Working in the engine compartment:

- Undo the fixing nuts and remove the cover for the junction box, to reach the additional fuse box (B046) shown, used for versions with robotised gearbox.
- Disconnect the electric pump fuse F71 (30 A), located as shown, all the cycle long.

NOTE: if the key is rotated to MAR, the circuit will go back to the operating pressure.



- Turn the ignition key to the STOP position
- Disconnect the negative battery terminal.
- Remove the complete air cleaner, see Op. 10148A10.

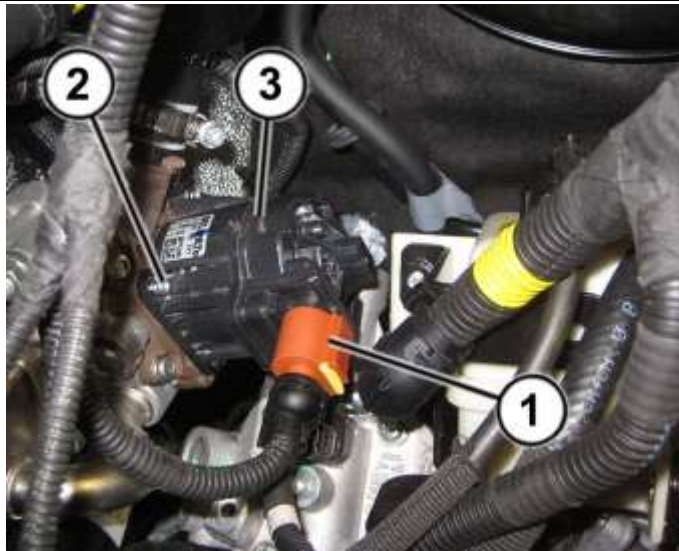
For Ducato 290 - 3.0 JTD only

- Remove the Powertrain Control Module, with mounting, see Op. 1060G80;
-

For Ducato 290 - 2.3 JTD only

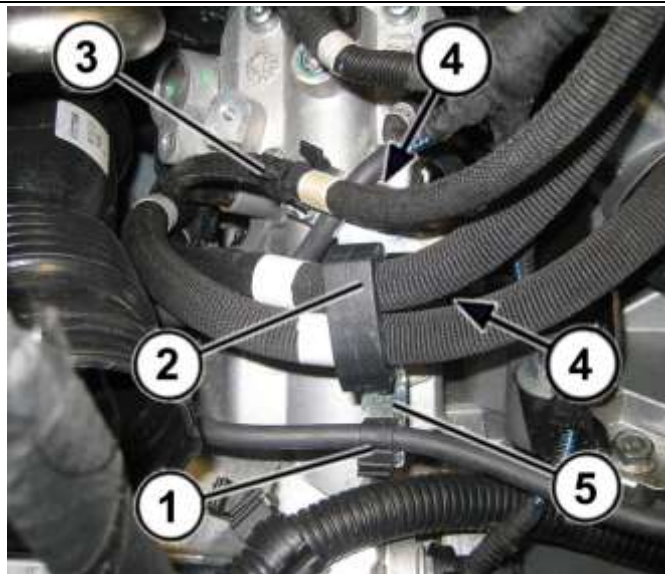
Working in the engine compartment:

- Release the safety lock and disconnect the electrical connection (1) from the EGR actuator.
- Undo the fixing screws (2) and remove the EGR actuator (3).

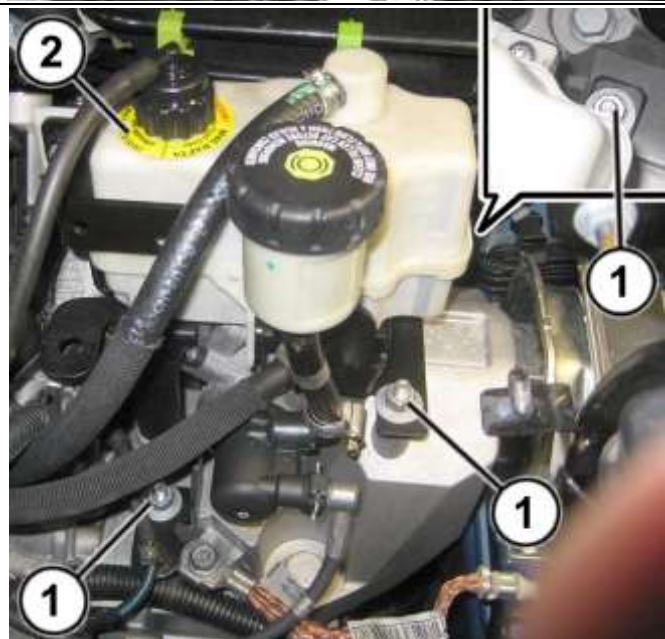


Working on both Ducato 290 - 2.3 and 3.0 JTD

- Release the pipes from the securing clips (1, 2 and 3).
- Undo the fixing screws (4) and remove the pipe fixing bracket (5).

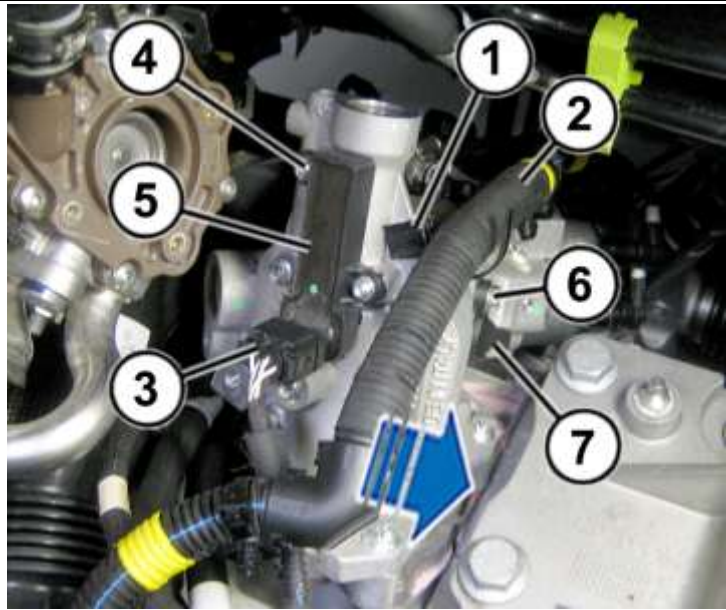


- Undo the fixing nuts (1) and move aside, to clear the working area, the whole assembly with oil tanks for the electrohydraulic system (2).

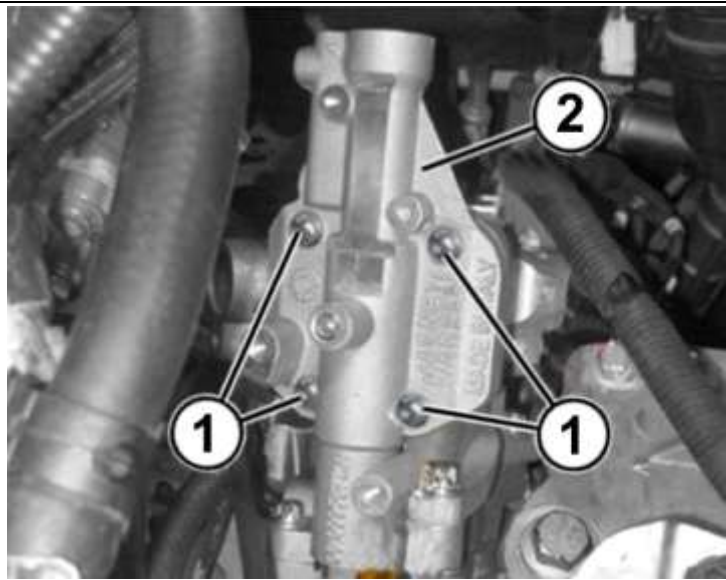


Work on the gear selection/engagement actuator for the electrohydraulic gearbox:

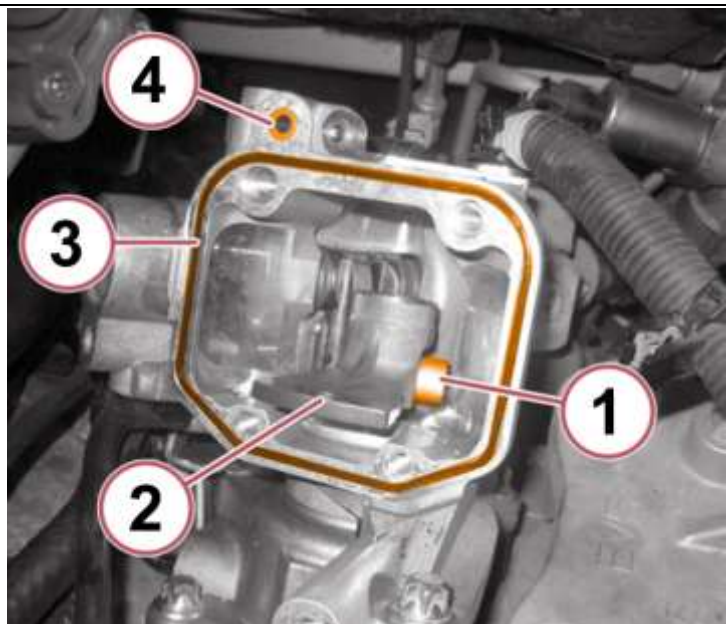
- Release the cable harness (C) from the fasteners and move it aside to clear the working area.
- Disconnect the electrical connection (1), undo the fixing screws (2) and remove the gear selection potentiometer (3).
- Undo the fixing screw (4) and remove the side inspection cover (5).



- Undo the fixing screws (1) and remove the gear selection/engagement actuator (2) from its housing.



- Undo the fixing screw (1) and remove the control lever (2) from its housing.
- Release and remove the seals (3) and (4) from their respective housings.



Refitting of the new actuator

Install the new actuator for gear selection/engagement of the electrohydraulic gearbox, with reference, for both power units to the description of Op. 2127C39 for 2.3 JTD power unit.

Proceed with the actuator calibration operations, as described in Op. 2127C39, **strictly complying** with the instructions, which are valid for both power units.

- Reinstall the components removed working in the reverse order of removal.

For Ducato 290 - 3.0 JTD only

- Refit the Powertrain Control Module, with mounting, see Op. 1060G80;

For Ducato 290 - 2.3 JTD only

- Refit the EGR actuator and tighten the fixing screws.
- Connect the electrical connection (1) to the EGR actuator and engage the safety lock of the connection.
- Reinstall the removed components, working in the reverse order of removal.

Connect the diagnosis equipment and start the "Hydraulic kit replacement" procedure; then carry out the two procedures:

- "End of line/service self-calibration"
- "Enabling clutch self-calibration"

Remove the vehicle from the lift.

PARTS AVAILABILITY

Description:	Part No.:	Qty:
Gear engagement/selection actuator kit	71776984	1
Control lever fixing screw	73501776	1 (*)

(*) Each pack contains 10 components

Disposal of removed parts

Removed part return required?

Local scrapping