

SERVICE INFORMATION BULLETIN

TITLE : Gearbox paddle shift operation not consistent

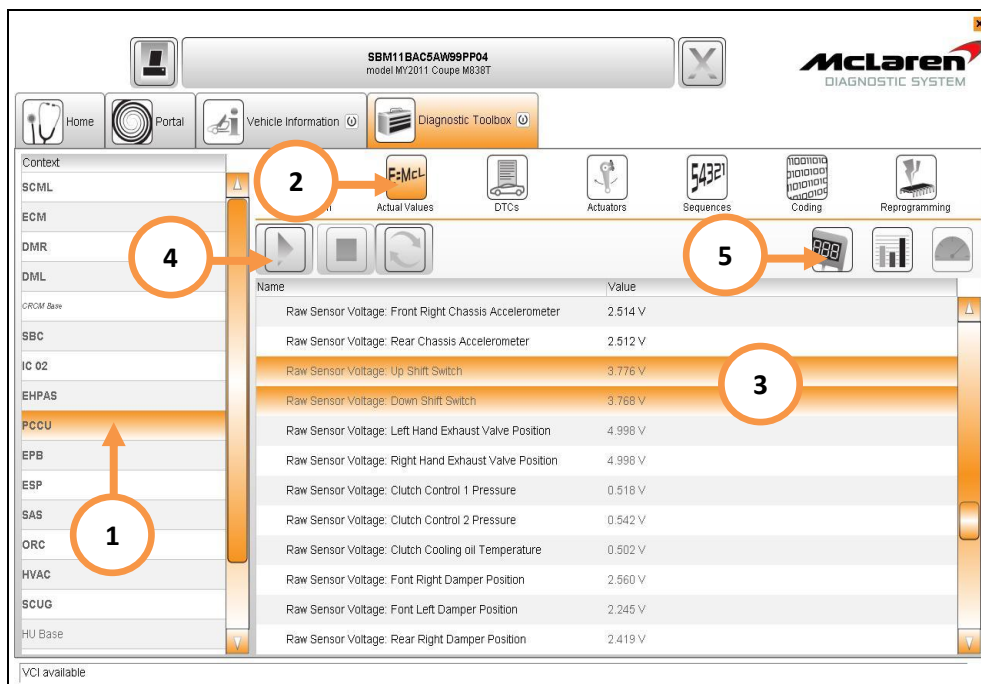
DOCUMENT # : 11 N 006

AFFECTED VEHICLES : All MP4-12Cs built from 8th March 2012 onwards

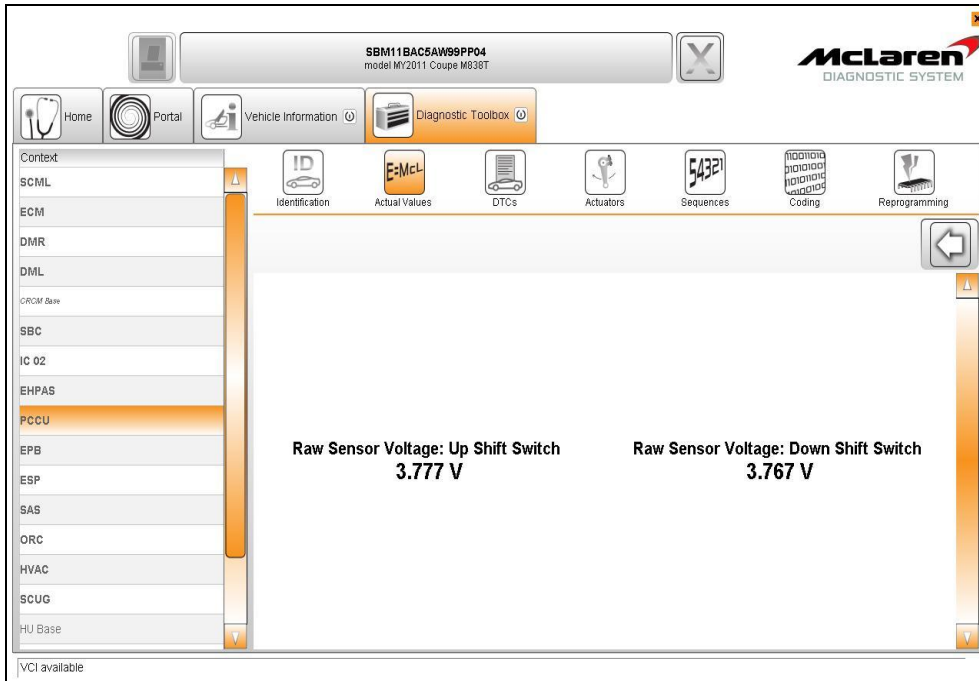
SITUATION : Quality Engineering at McLaren Automotive identified that the steering wheel paddle switches on some vehicles have been incorrectly set-up by the supplier.

PROCEDURE : In the event of a customer complaint of inconsistent gear shifts in Manual mode, refer to the procedure outlined in this document.

1. Confirm whether the gear shift characteristics are inconsistent by road testing the vehicle. If confirmed, proceed to step 2. If the concern is not confirmed no further action is required.
2. Connect the McLaren Diagnostic System (MDS) to the vehicle.
3. Select PCCU (1), then Actual Values (2), select the Raw Sensor Voltage options as per the screenshot below (3), select the play button to access the required data screen (4) and select Digital Display (5).



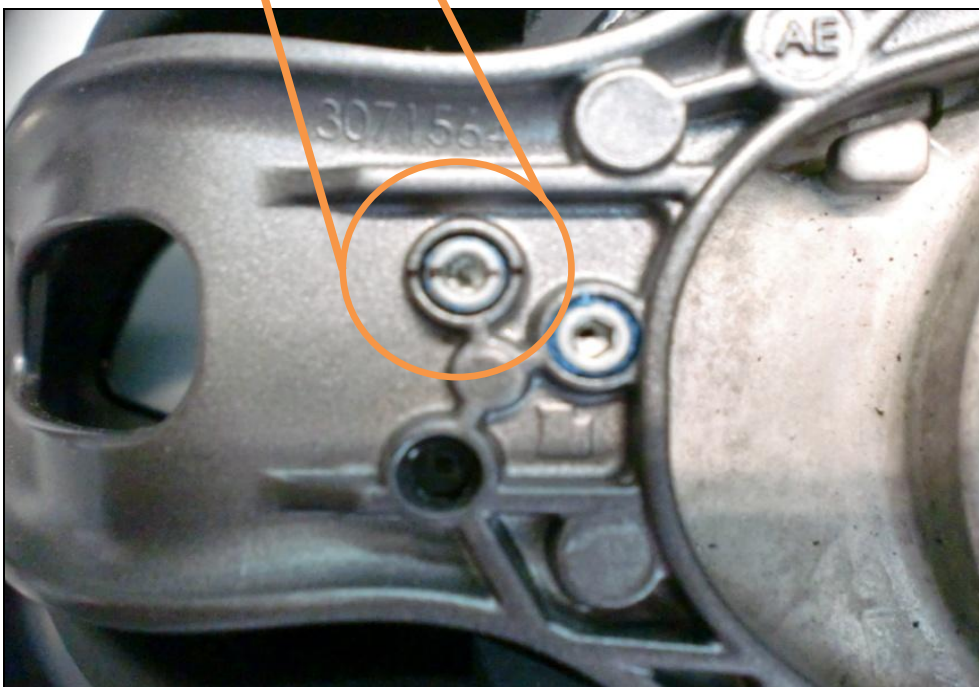
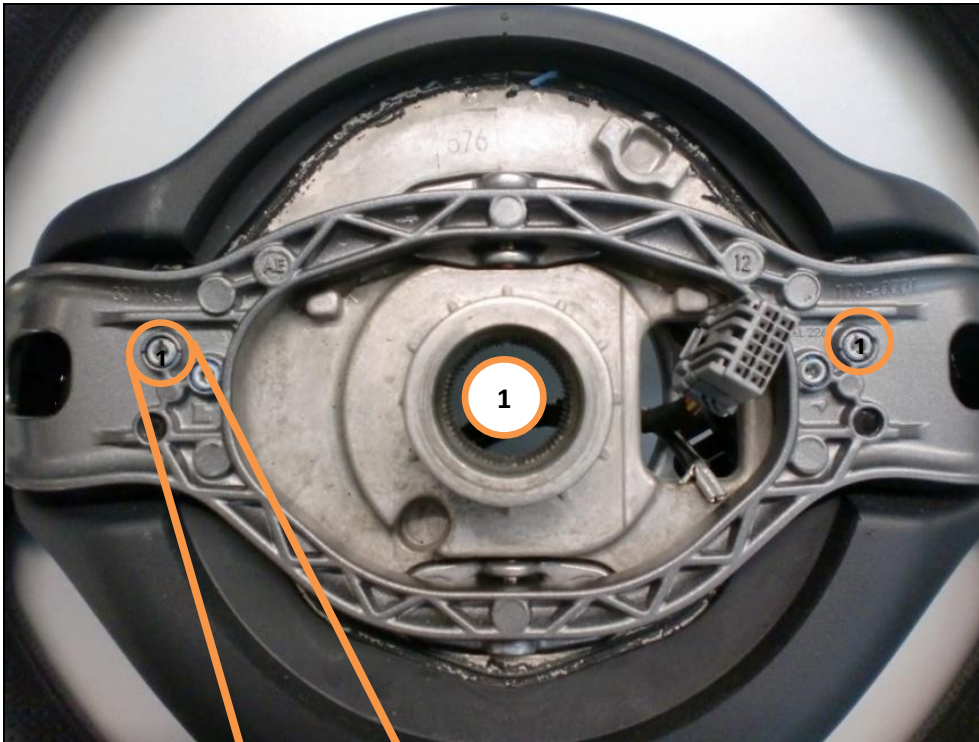
4. The MDS digital display will be shown.



5. The standard 'resting' voltage for the paddle should be between 3.45v and 4.05v. If the voltages measured are within this range, proceed to the Removal section of this document. If the measured voltages are outside this range, submit a Technical Request through the Retailer Portal for further assistance.

REMOVAL:

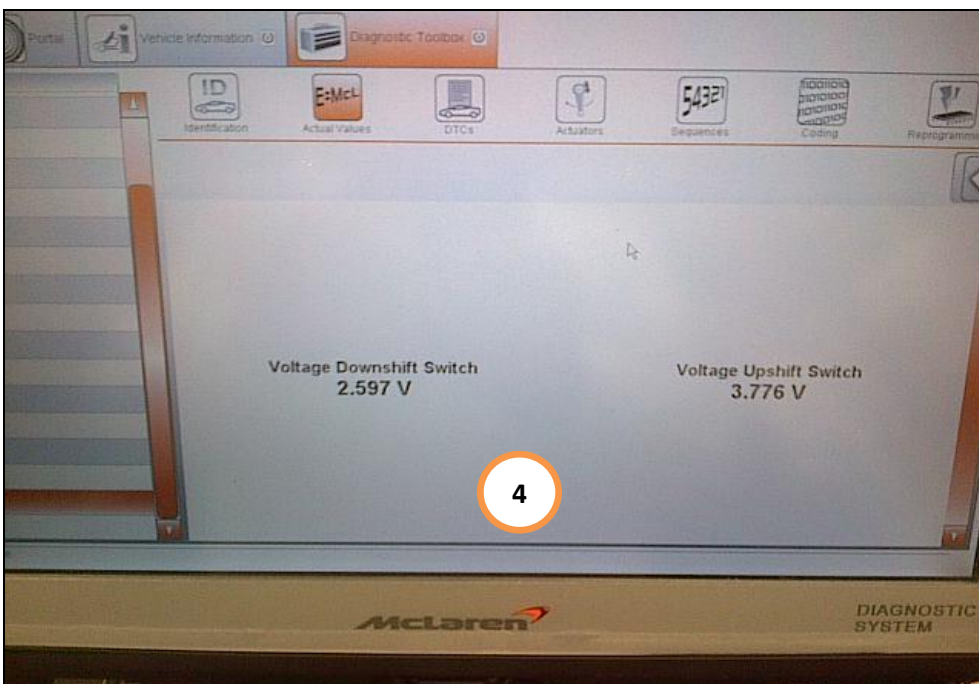
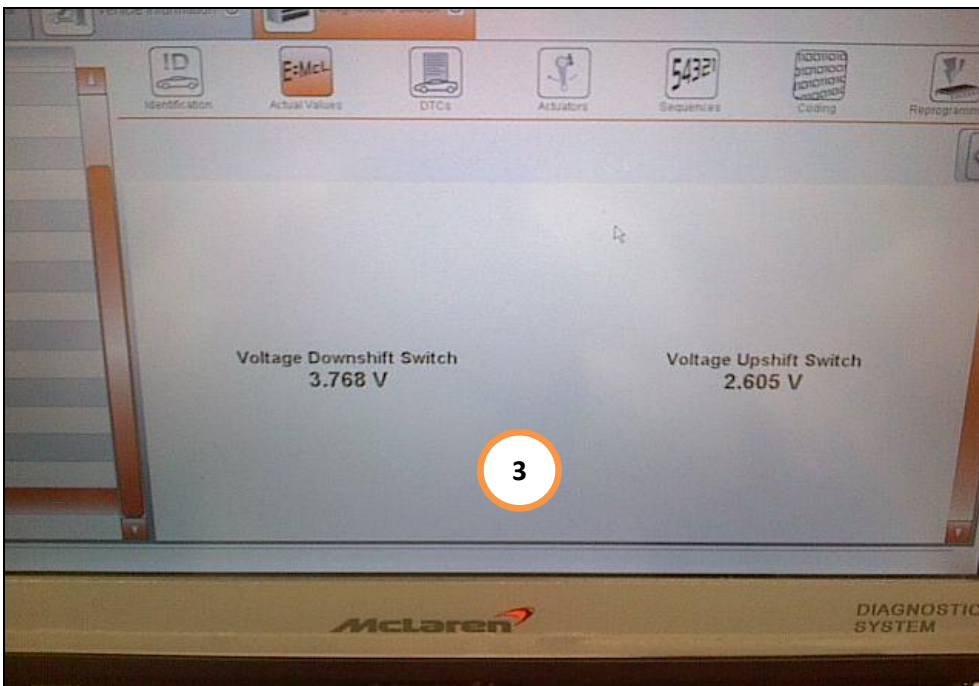
1. Please refer to A-RM-03D01-01-003 - Remove/install steering wheel
2. Mark the two grub screws highlighted below to show their original orientation (1).



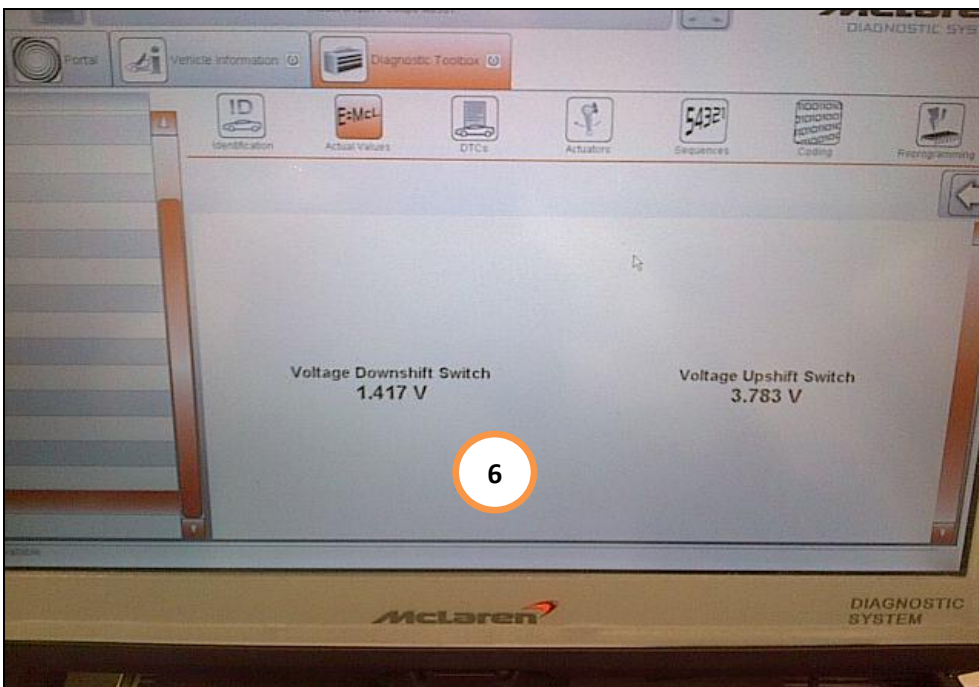
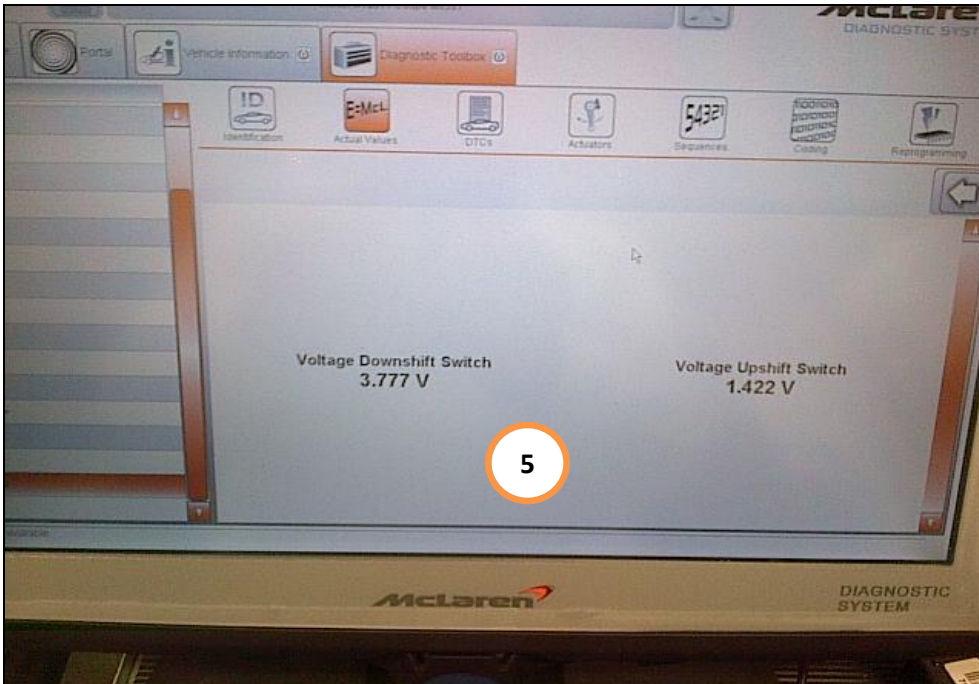
3. Rotate the Grub screw $\frac{1}{4}$ of a turn clockwise (only on the paddle confirmed not to operate correctly when the vehicle was road tested) this should now set the correct nominal value which will rectify the issue.

4. Install the steering wheel without fitting the securing bolt.
5. Check the pre-cog and full gearshift voltage values, by pulling the up shift and then the down shift paddles to engage pre-cog, check the voltage range is between 2.2v to 2.8v and then engage the paddles fully and check the voltage range is between 0.95v to 1.55v.

Example Pre-cog up shift and down shift screenshots below (3, 4)



Example gear selection up shift and down shift screenshots below (5, 6)



INSTALLATION:

1. Install components in reverse order.
2. Road test the vehicle to confirm that the gear shifts in manual mode are no longer inconsistent.

Please contact your Regional Aftersales Manager should you have any questions relating to the information contained in this bulletin.

WARRANTY INFORMATION

DESCRIPTION	RESOLUTION CODE	TOTAL REPAIR TIME
Paddle Shift Operation not consistent	N0N10141A33A4E04	1.50 hrs

PARTS INFORMATION

PART DESCRIPTION	PART NUMBER	QUANTITY	ORDER PROCESS
Screw - M16x25 - SKT - CSK	11N2249CP	1	Unipart
