# Technical product information

| | |
|---|---|
| **Topic** | Transmission communication DTC's (Numerous) |
| **Market area** | Bentley: worldwide (2WBE) |
| **Brand** | Bentley |
| **Transaction No.** | 2059068/2 |
| **Level** | EH |
| **Status** | Approval |
| **Release date** | |

**New customer code**

| Object of complaint | Complaint type | Position |
|---|---|---|
| vehicle service -> vehicle diagnosis -> guided fault finding | control units, services -> with event log entry | |
| electrical power, electric system, data transfer -> data bus systems | component / consumables | |
| power transmission -> power distribution, power flow -> power flow | functionality -> without function / defect | |
| electrical power, electric system, data transfer -> power supply | functionality | |

# Vehicle data

## New Continental GT and New Continental GTC

**Sales types**

| Type | MY | Brand | Designation | Engine code | Gearbox code | Final drive code |
|---|---|---|---|---|---|---|
| 3S* | 2018 | E | | * | * | * |
| 3S* | 2019 | E | | * | * | * |
| 3S* | 2020 | E | | * | * | * |

# Documents

| Document name |
|---|
| master.xml |

## Customer statement / workshop findings

Customer statement

Drive system fault active on DIP (Figure 1)

Figure 1

Workshop findings

Various/numerous Transmission control module (TCM) communication DTC's logged

## Technical background

Loose pins within the transmission link harness to the Mechatronic unit for dual clutch gearbox -J743- connections can lead to communication based DTC's

## Production change

Not applicable

## Measure

Ensure the ignition is switched off for the duration of this procedure

1) Remove the left hand front wheel arch liner - Refer to Repair manual Rep.Gr 66

2) Gain access and disconnect the transmission control module plug T58g - Refer to Repair manual Rep.Gr 37

- Referring to Figure 2 and the applicable current flow diagram - Disconnect the three connections

3) Once disconnected carry out pin/terminal grab checks on all male and female connections (All three connections)

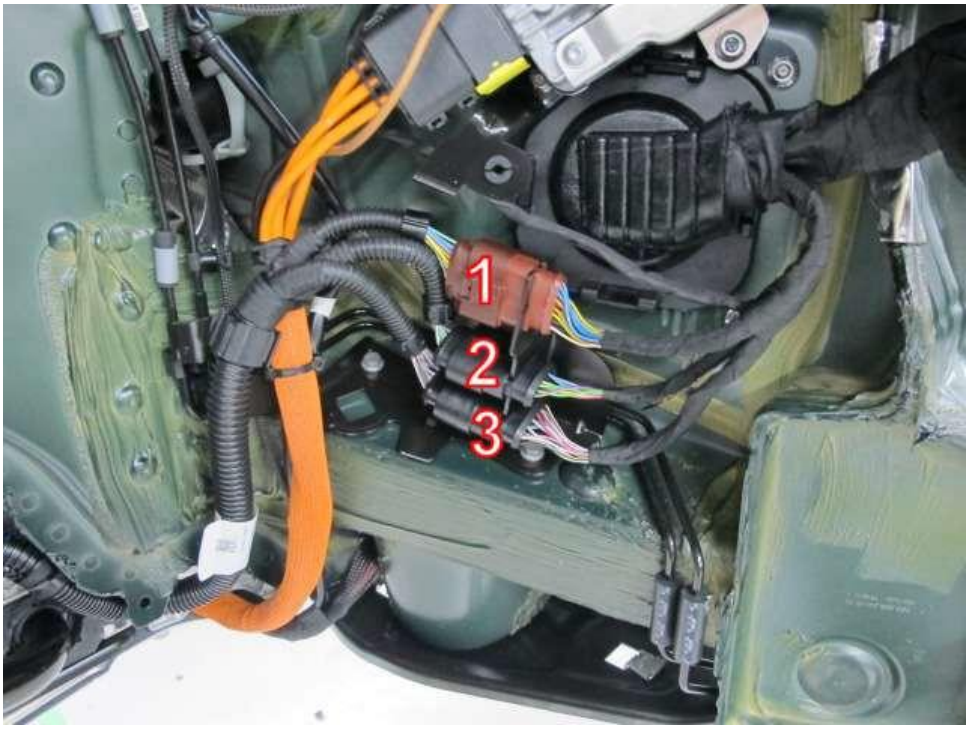



Figure 2

4) Remove the rear subframe support – Rep.Gr 40 (Figure 3)

Figure 3

5) Disconnect the connections (Figure 4 - Arrows) from the Mechatronic unit for dual clutch gearbox -J743-

Referring to the applicable current flow diagram and Figure 5 and 6 - Carry out resistance and pin/terminal grab checks on all disconnected connections from the T58g connector to T20ch and T20ci on the harness.

Figure 4

Check T58g to connector T20ci

| Connector T58g | | Connector T20ci | Resistance |
|---|---|---|---|
| PIN 1 | to | PIN 4 | 0.4 |
| PIN 3 | to | PIN 2 | 0.2 |
| PIN 4 | to | PIN 3 | 0.5 |
| PIN 6 | to | PIN 1 | 0.4 |
| PIN 9 | to | PIN 8 | 0.4 |
| PIN 10 | to | PIN 6 | 0.1 |
| PIN 11 | to | PIN 10 | 0.3 |
| PIN 12 | to | PIN 20 | 0.3 |
| PIN 13 | to | PIN 13 | 0.5 |
| PIN 16 | to | PIN 17 | 0.4 |
| PIN 22 | to | PIN 5 | 0.4 |
| PIN 23 | to | PIN 7 | 0.4 |
| PIN 24 | to | PIN 9 | 0.4 |
| PIN 25 | to | PIN 11 | 0.4 |
| PIN 26 | to | PIN 12 | 0.4 |
| PIN 27 | to | PIN 14 | 0.4 |
| PIN 29 | to | PIN 16 | 0.5 |

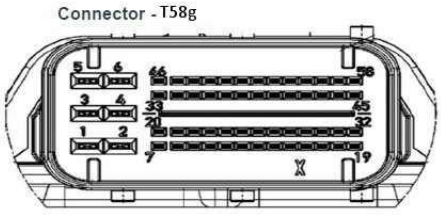
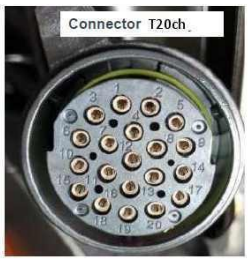



Figure 5

| Connector T58g | | Connector T20ch | Resistance |
|---|---|---|---|
| PIN 1 | to | PIN 5 | 0.4 |
| PIN 14 | to | PIN 1 | 0.4 |
| PIN 21 | to | PIN 20 | 0.4 |
| PIN 34 | to | PIN 18 | 0.3 |
| PIN 36 | to | PIN 3 | 0.3 |
| PIN 37 | to | PIN 2 | 0.4 |
| PIN 38 | to | PIN 4 | 0.4 |
| PIN 41 | to | PIN 9 | 0.4 |
| PIN 42 | to | PIN 13 | 0.5 |
| PIN 43 | to | PIN 10 | 0.4 |
| PIN 44 | to | PIN 15 | 0.4 |
| PIN 46 | to | PIN 17 | 0.4 |
| PIN 48 | to | PIN 19 | 0.5 |
| PIN 49 | to | PIN 16 | 0.4 |
| PIN 50 | to | PIN 6 | 0.4 |
| PIN 51 | to | PIN 7 | 0.4 |
| PIN 52 | to | PIN 8 | 0.4 |
| PIN 54 | to | PIN 11 | 0.4 |
| PIN 56 | to | PIN 12 | 0.4 |
| PIN 58 | to | PIN 14 | 0.4 |

| Connector T58g | | Power supply | Resistance |
|---|---|---|---|
| PIN 2 | to | Ground | 0.2 |
| PIN 5 | to | Fuse box SK 20A | 0.2 |
| PIN 55 | to | TV48 | 0.3 |


| Connector T20ci | | | Resistance |
|---|---|---|---|
| PIN 1 | to | PIN 5 | 5.1 |
| PIN 1 | to | PIN 7 | 5.3 |
| PIN 2 | to | PIN 6 | 5.2 |
| PIN 2 | to | PIN 20 | 5.3 |
| PIN 3 | to | PIN 8 | 5.3 |
| PIN 3 | to | PIN 9 | 5.3 |
| PIN 3 | to | PIN 10 | 5.3 |
| PIN 3 | to | PIN 12 | 10.9 |
| PIN 3 | to | PIN 13 | 11 |
| PIN 3 | to | PIN 14 | 11 |
| PIN 4 | to | PIN 11 | 5.3 |
| PIN 16 | to | PIN 17 | 1800 |
| | | | |

Figure 6

6) Should any issues be found on either end of the link harness, the link harness should be replaced.

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Should any issues be found with the Mechatronic unit for dual clutch gearbox -J743- pin connections or the transmission control module plug (T58g) pin connections

Or

The male connections of the plugs shown in Figure 2

Please raise a DISS query and await feedback before carrying out any further work

## Warranty accounting instructions

Warranty type: 910 or 110

Service ID number: 9797

Damage type: 0040

Labour

Time to conduct wiring checks

Labour operation code: 38 85 01 05

Time: 160 Time units

Time to replace link harness

Labour operation code: 38 85 55 55

Time 20 Time units

## Parts information

| Part number | Description | Quantity |
|---|---|---|
| 971 971 771 | Link harness | 1 |