Housing Assembly 2p MQS Sealed Clean Body

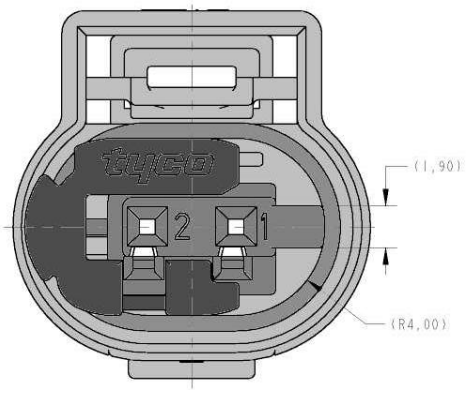
1. SCOPE

1.1 Content

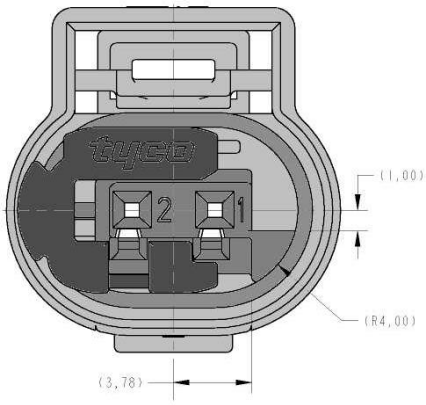
This Application spec is to provide useful information for correct assembly to the harness and correct assembly / disassembly of the connectors.

Tyco Part Number	Description
1438608-X	HOUSING ASSEMBLY 2 POS, MQS* SEALED CLEAN BODY

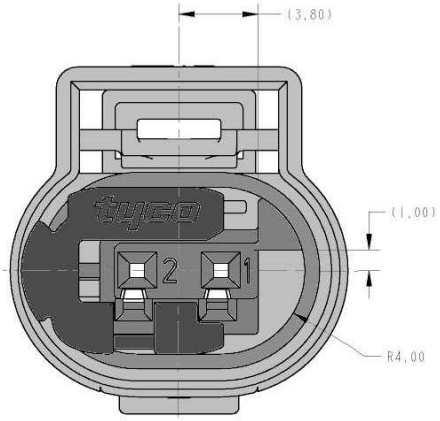
Table 1
(Tyco Part Numbers)



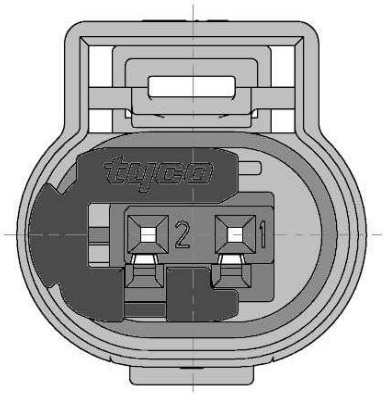
KEY CODE A
1438608-1 AND –5



KEY CODE B
1438608-2 AND –6



KEY CODE C
1438608-3 AND –7



KEY CODE X
1438608-4 AND –8

Figure 1

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| Indicates changes

2. PACKAGING OF THE CONNECTORS

Housing Ass'y 2 Posn, MQS Sealed Clean Body (P/N1438608-X*)* is shown in Figure 2.
The connectors are designed to be supplied with a preassembled Terminal Position Assurance (TPA) and Connector Position Assurance (CPA), which may or may not be supplied with a CPA , depending on the Part Number. Connectors have mechanical polarizations and various codings to assure the proper mating between male housing and counter part.
The connectors are supplied in bulk packaging.

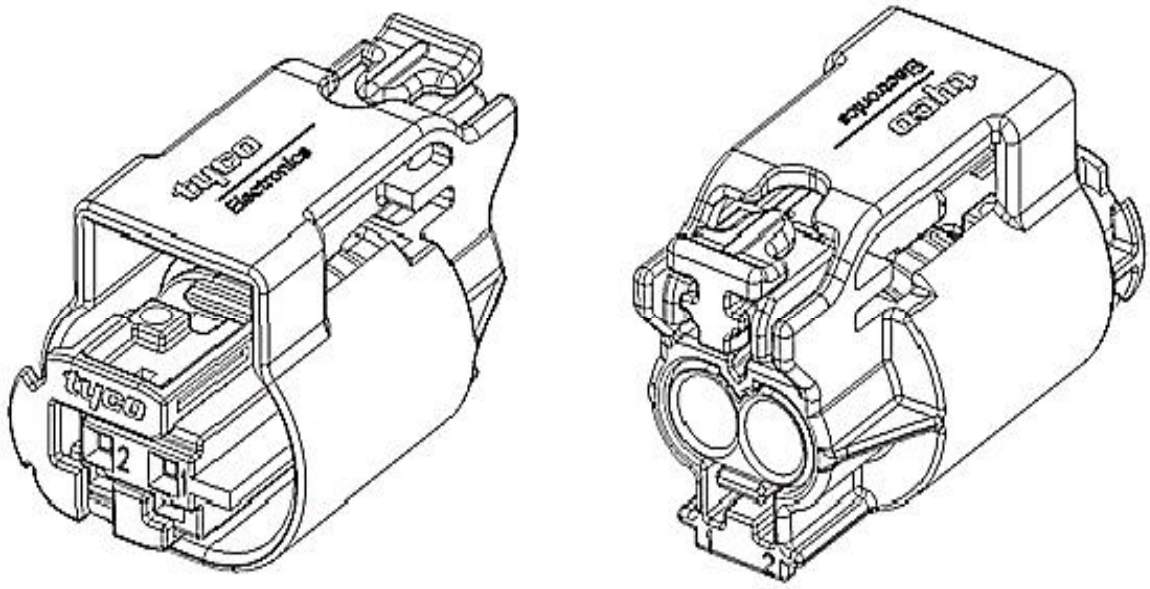

Figure 2
(Cod "A" Shown)

3. CONTACT LOADING

Insert contacts into the housings cavities according to Figure 3 until the contact bottom and the plastic lance locks in place. On table 2 below are indicated the different contact and seal Part numbers used.

Tyco Part Number	Description	Wire Range (for contact only)
1703032-X	MQS* SOCKET CONTACT CLEAN BODY EDS (Aplicattion Spec of Contact – 114-18025-1)	0,5 – 0,75 mm² FLR 20 – 18 AWG TXL 20 AWG GXL
967067-1	SINGLE WIRE SEAL FOR CAVITY ϕ 3,60mm	ϕ1,40 – ϕ 2,19 mm

Table 2
(Contact and seal used on Hsg Ass'y 2Posn, MQS Sealed Clean Body)

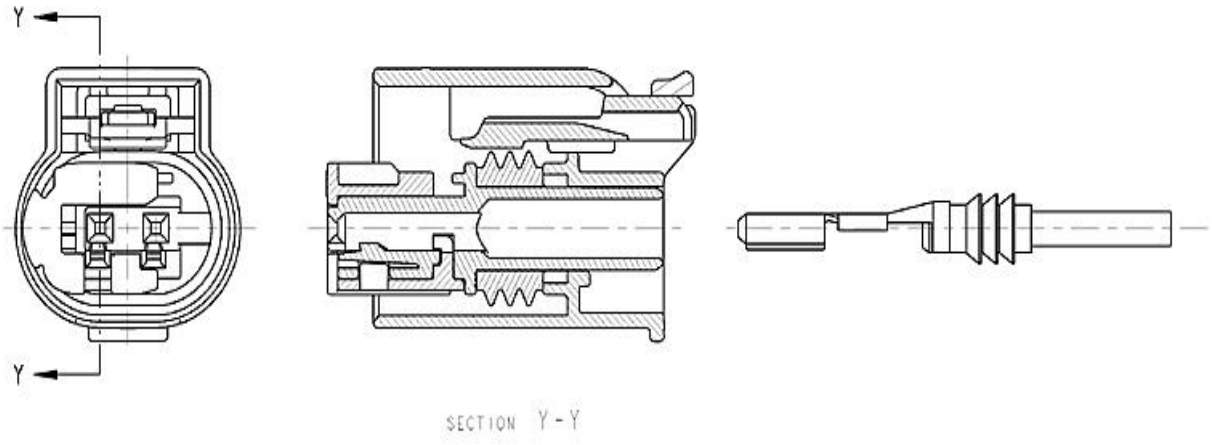

Figure 3

Warning ! ***If you notice a resistance when inserting contact , check if the contact is in the proper orientation.***

4. TERMINAL POSITION ASSURANCE (TPA)

After insertion of the contacts into their cavities, close the TPA by pushing it in the direction shown by the arrow in Figure 4 below, into the relevant seats until the end position.

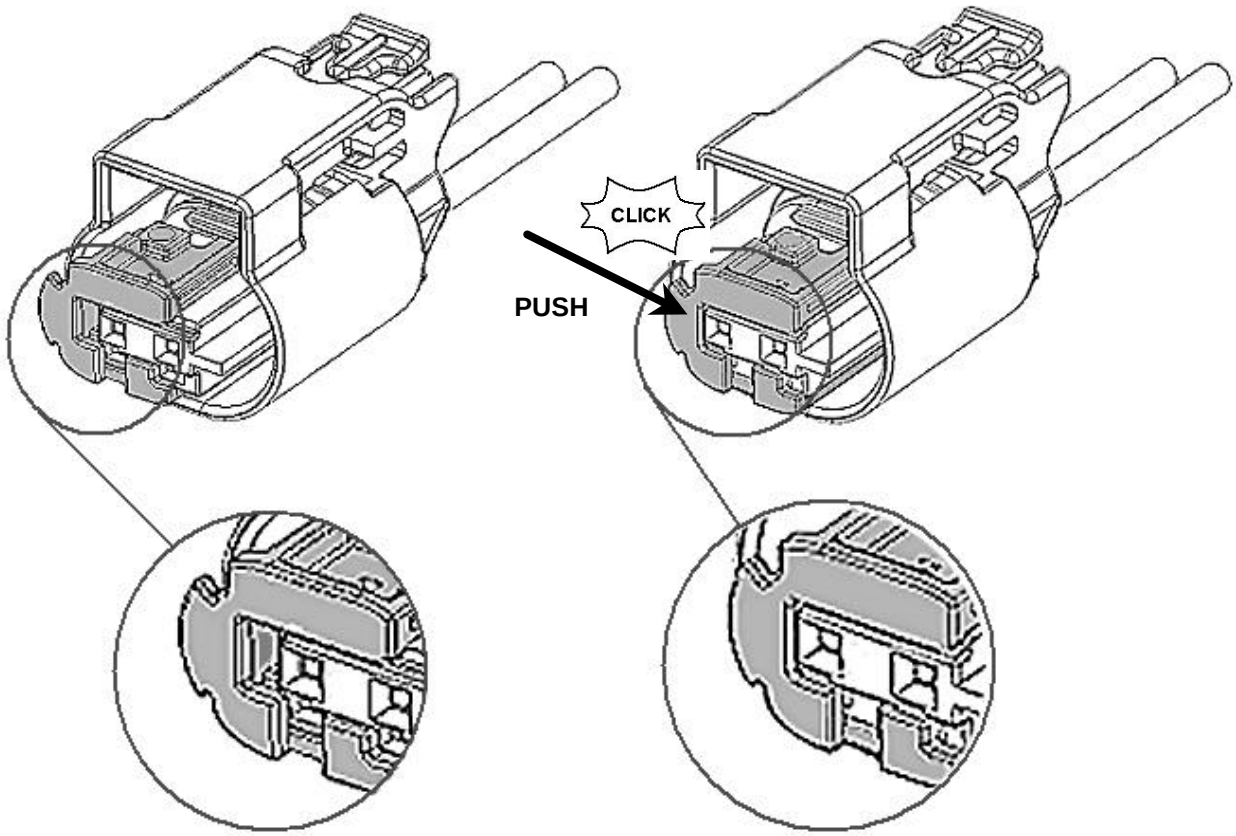

Figure 4

Warning ! ***When pushing the TPA, if you notice a resistance do not push any more, but check the correct position of the contacts in their cavities, and only then proceed to lock the TPA.***

5. CONTACT EXTRACTION

To extract a contact , these steps must be followed :

a) Insert a small screwdriver, or similar tool and rotate to lift TPA slightly. Gently lift and push TPA until it locks into pre-lock position, leaving a 2mm gap approximate as shown Figure 5 below :

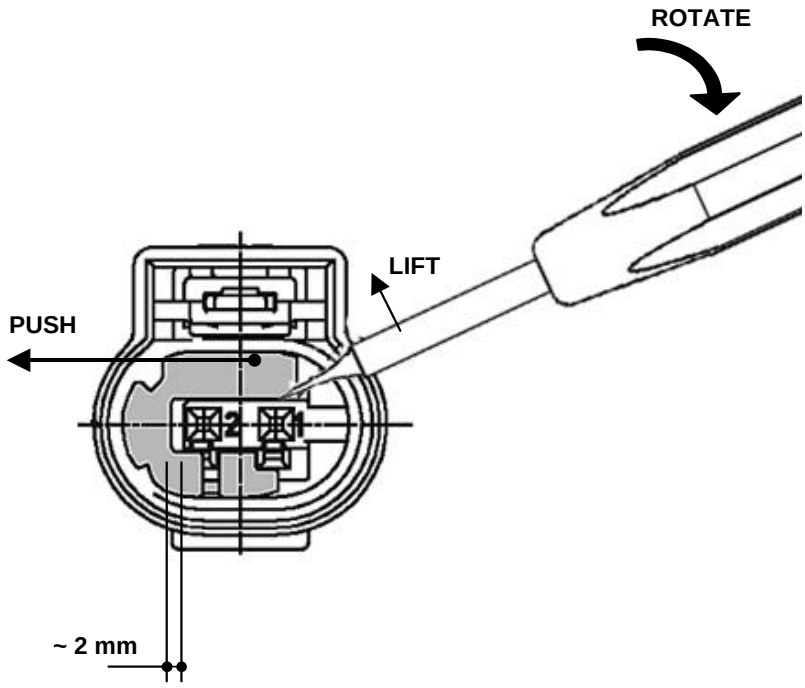

Figure 5

b) Insert terminal extraction tool P/N 785833-1 or similar with 1mm wide blade between cavity wall and plastic finger , according to Figure 6 and move (in **lift** direction) , and then pull the contact out , in the direction shown by the **pull** arrow .

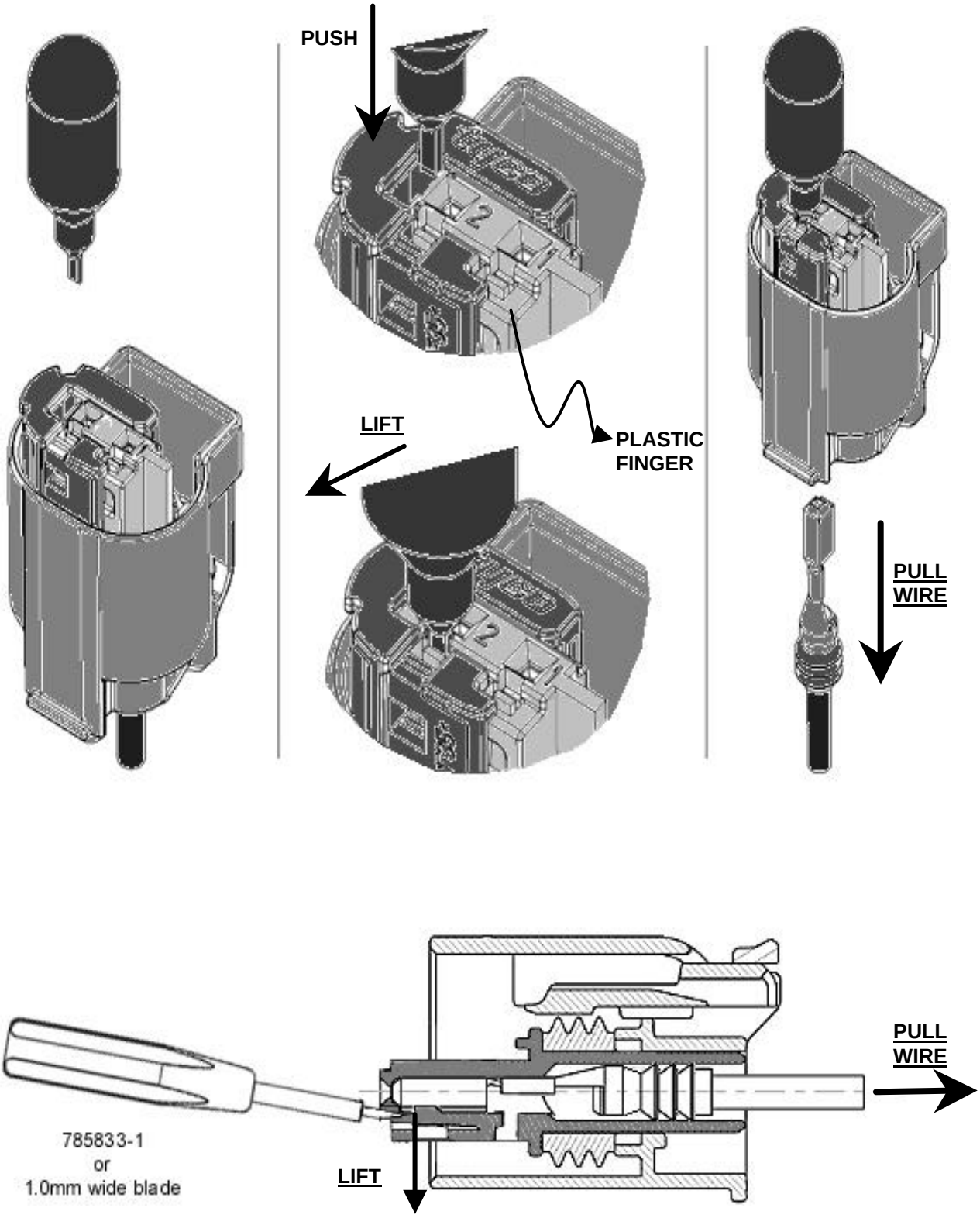
PUSH
LIFT
PLASTIC
FINGER
PULL
WIRE
PULL
WIRE
785833-1
or
1.0mm wide blade
LIFT

Figure 6

6. CONNECTOR POSITION ASSURANCE CLOSING DEVICE (IF PRESENT)

After insertion of the connector assembly into its mating part , close the CPA by pushing it in the direction shown by the arrows on Figure 7 below, until the locked position .

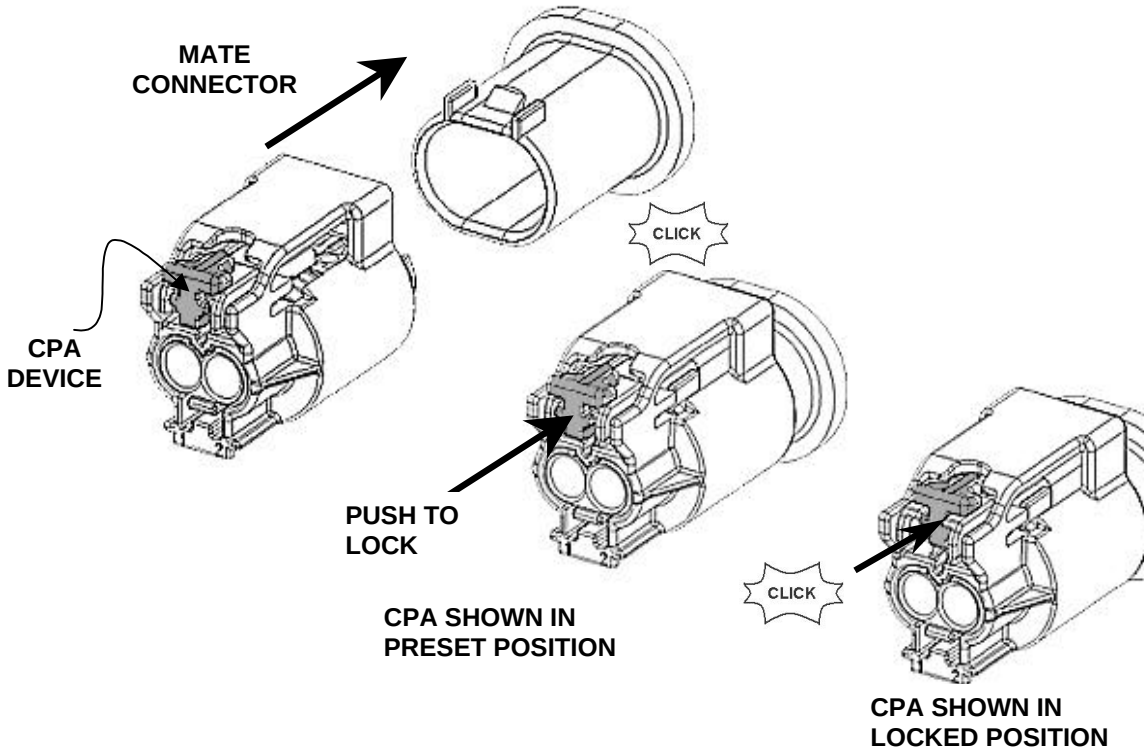

Figure 7

Warning ! ***When pushing the CPA, if you notice a resistance do not push any more, but check the correct position of the connector assembly in its counter part, and only then proceed to lock the CPA.***

7. CONNECTOR EXTRACTION

To extract a connector the following steps must be followed :

a) If CPA is present, push in the direction shown by the arrow to move the CPA from final locking to pre-locking position , see Figure 8 below :

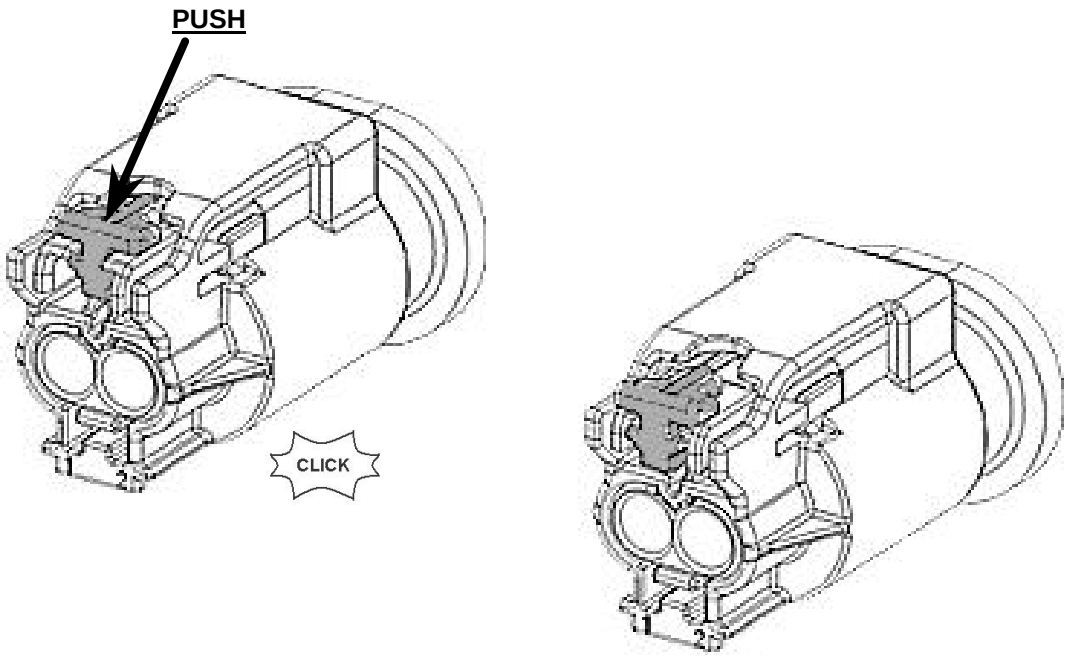

Figure 8

b) Depress the latch and pull the connector; see Figure 9 below :

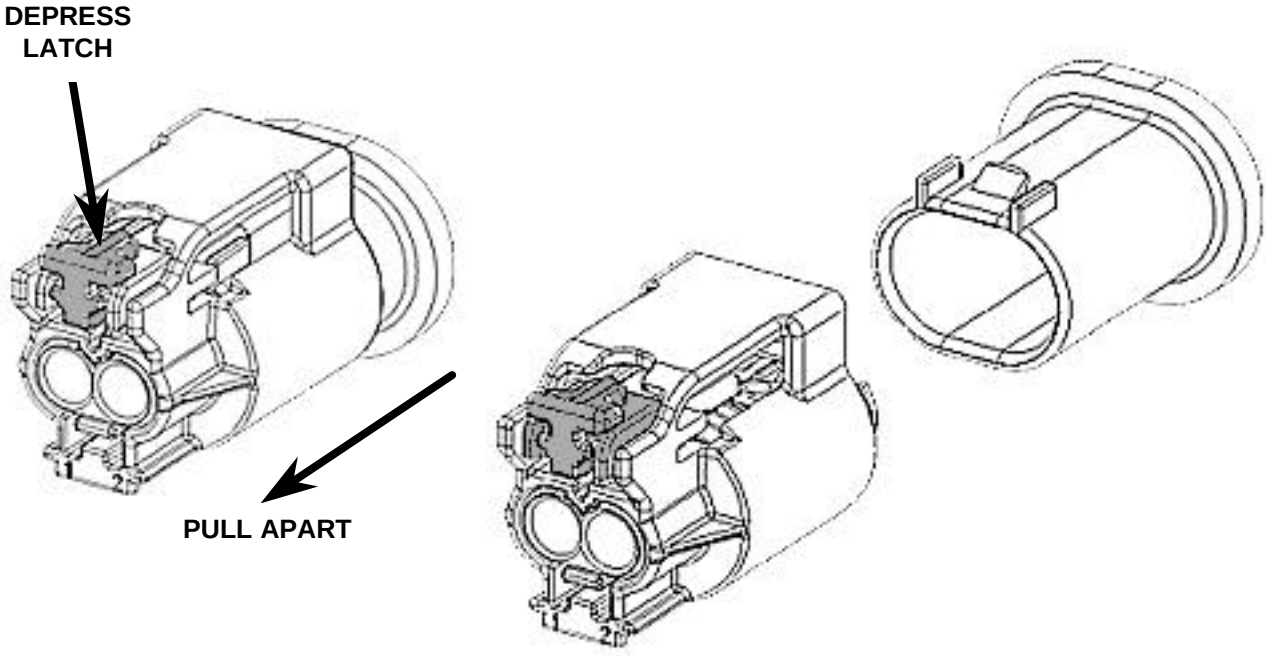

Figure 9

Revision Record		
Revision	**Date**	**Description**
O	11-Mar-2005	Released