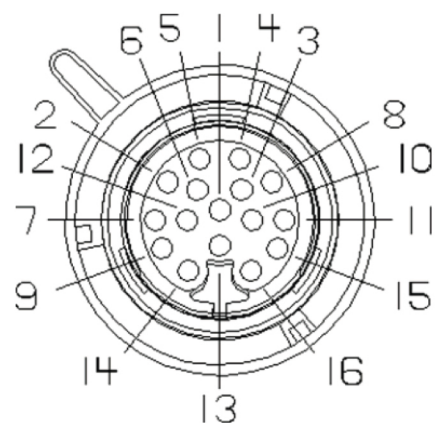
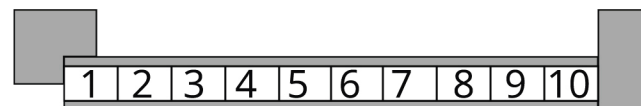


8HP TCU CONNECTOR



BMW F-Series Shifter



10 & 8 Pin Versions, follows same logic

Diagram Table

Function	ECU	TCU	Shifter (10P/8P)
CAN2 -L	O-4	3	NC
CAN2-H ²	N-4	4	NC
CAN1-H ²	N-4	5	4/4
CAN1-L	O-4	6	3/3
Wake-up	NC	9 ¹	7/2
+12v	NC	13 ¹	10/1
GND	C4/D4	14	8/5

1 NC
2 NC
3 PT-CAN Low
4 PT-CAN High
5 PT-CAN2 Low
6 PT-CAN2 High
7 Wakeup[2]
8 Ground
9 NC
10 +12V

1 +12V
2 Wakeup
3 PT-CAN Low
4 PT-CAN High
5 Ground
6 PT-CAN2 Low
7 PT-CAN2 High
8 NC

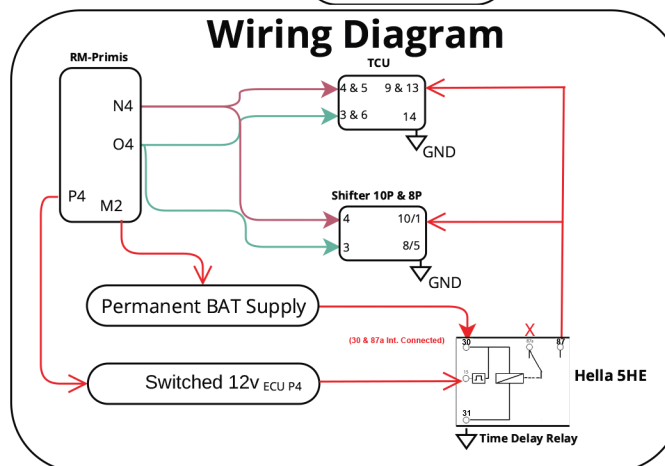
Normal Shifter

RHD Shifter	61 31 9296897
LHD Shifter	61 31 9296896

Sport Shifter

RHD Shifter	61 31 9296899
LHD Shifter	61 31 9296898

Wiring Diagram



¹- The TCU needs to be powered through a time-delayed relay to keep the TCU powered for at least 45s after ignition is turned OFF.
²- Both CAN-BUS circuits on TCU connect to the RM-Primis CAN1 Together.