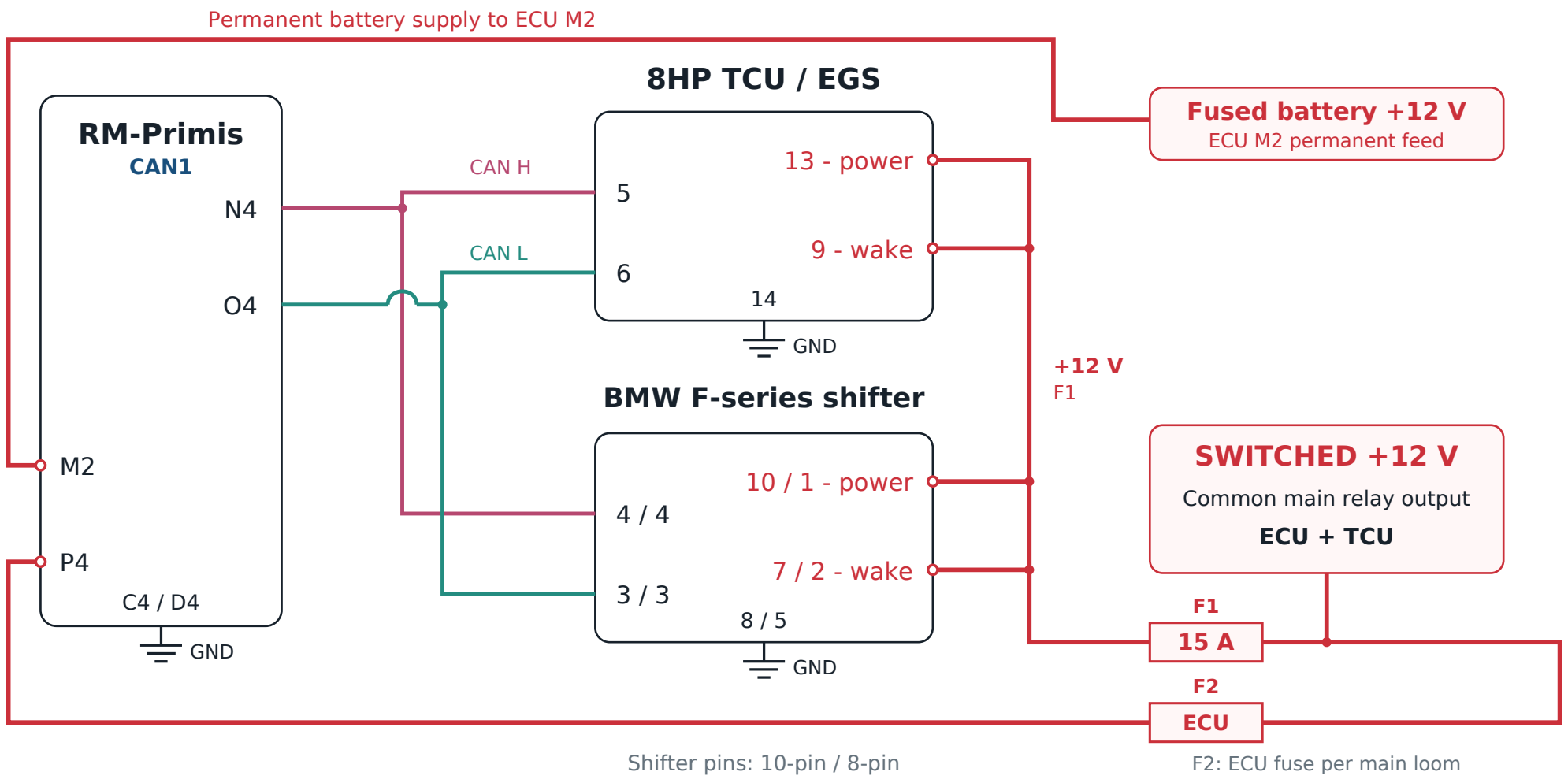
BMW 8HP | Performance Pack

RM-Primis ECU / Single CAN bus on CAN1

PERFORMANCE PACK ONLY

SEE PAGE 2 - WIRING DETAIL

POWER AND CAN WIRING



Shifter pins: 10-pin / 8-pin

F2: ECU fuse per main loom

CONNECTIONS

Function	RM-Primis	TCU	Shifter 10-pin / 8-pin
CAN1 High	N4	5	4 / 4
CAN1 Low	O4	6	3 / 3
Power + wake	P4	13 + 9	10+7 / 1+2
Ground	C4 / D4	14	8 / 5
ECU battery +12 V	M2	NC	NC
Unused CAN2	NC	3, 4	5,6 / 6,7

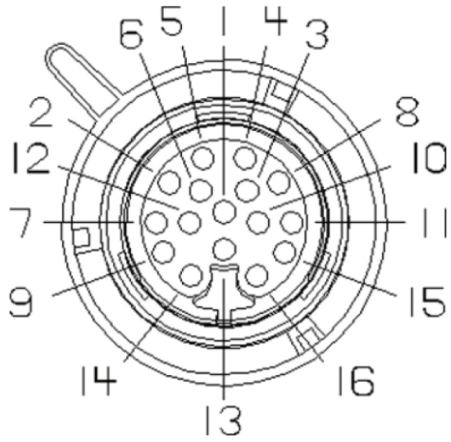
F1: 15 A for TCU and shifter. F2: ECU fuse per main loom.

ECU P4 and TCU use the same switched source.

SHIFTER PIN ASSIGNMENTS

Function	10-pin	8-pin
Power supply (+12 V)	10	1
Wake-up (+12 V)	7	2
Ground	8	5
CAN1 Low	3	3
CAN1 High	4	4
Unused CAN2 Low	5	6
Unused CAN2 High	6	7
Not connected	1, 2, 9	8

TCU CONNECTOR





16-pin transmission connector

Identify terminals by their moulded pin numbers.

BMW F-SERIES SHIFTER



10-pin connector terminal numbering

SHIFTER PART NUMBERS

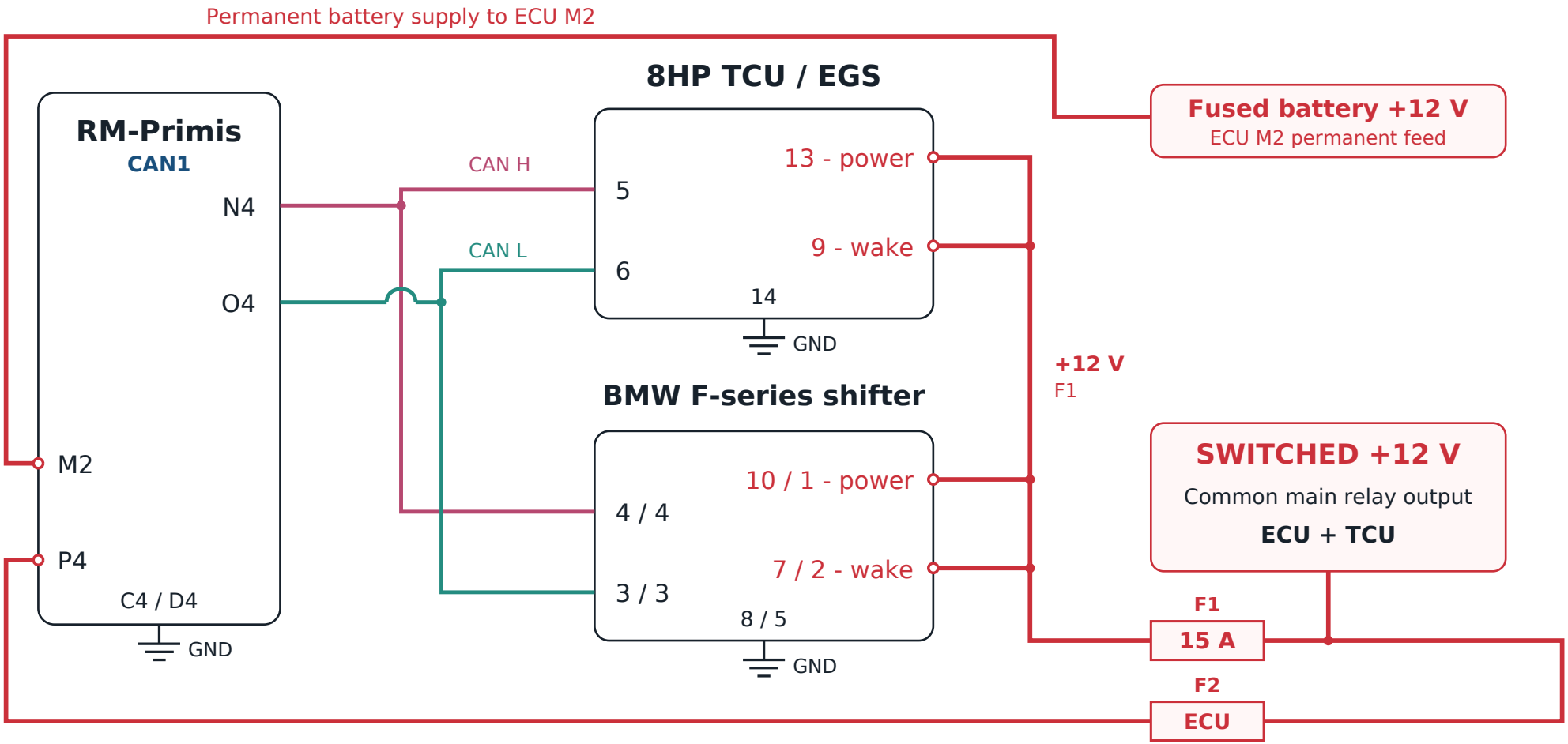
Shifter	RHD	LHD
Normal	61 31 9296897	61 31 9296896
Sport	61 31 9296899	61 31 9296898

See page 2 for power connections, fuse details and switching sequence.

BMW 8HP | Power and CAN Wiring

RM-Primis CAN1 / TCU power and wake-up joined after F1

PERFORMANCE PACK ONLY



Shifter pins: 10-pin / 8-pin

F2: ECU fuse per main loom

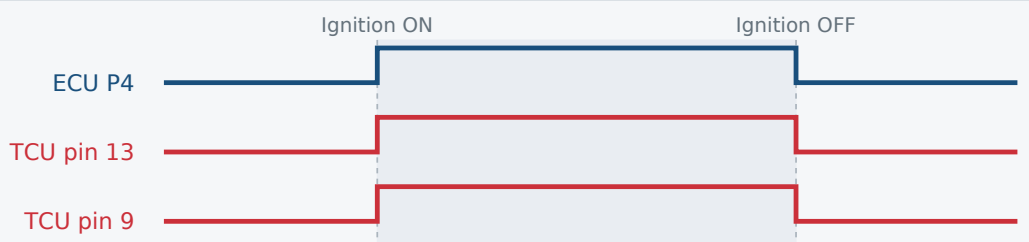
POWER SUPPLY

F1: dedicated 15 A fuse for TCU and shifter.

F2: ECU fuse, rated for the main loom.

TCU supply and ground: 2.5 mm².

ECU P4 and TCU switch ON together.

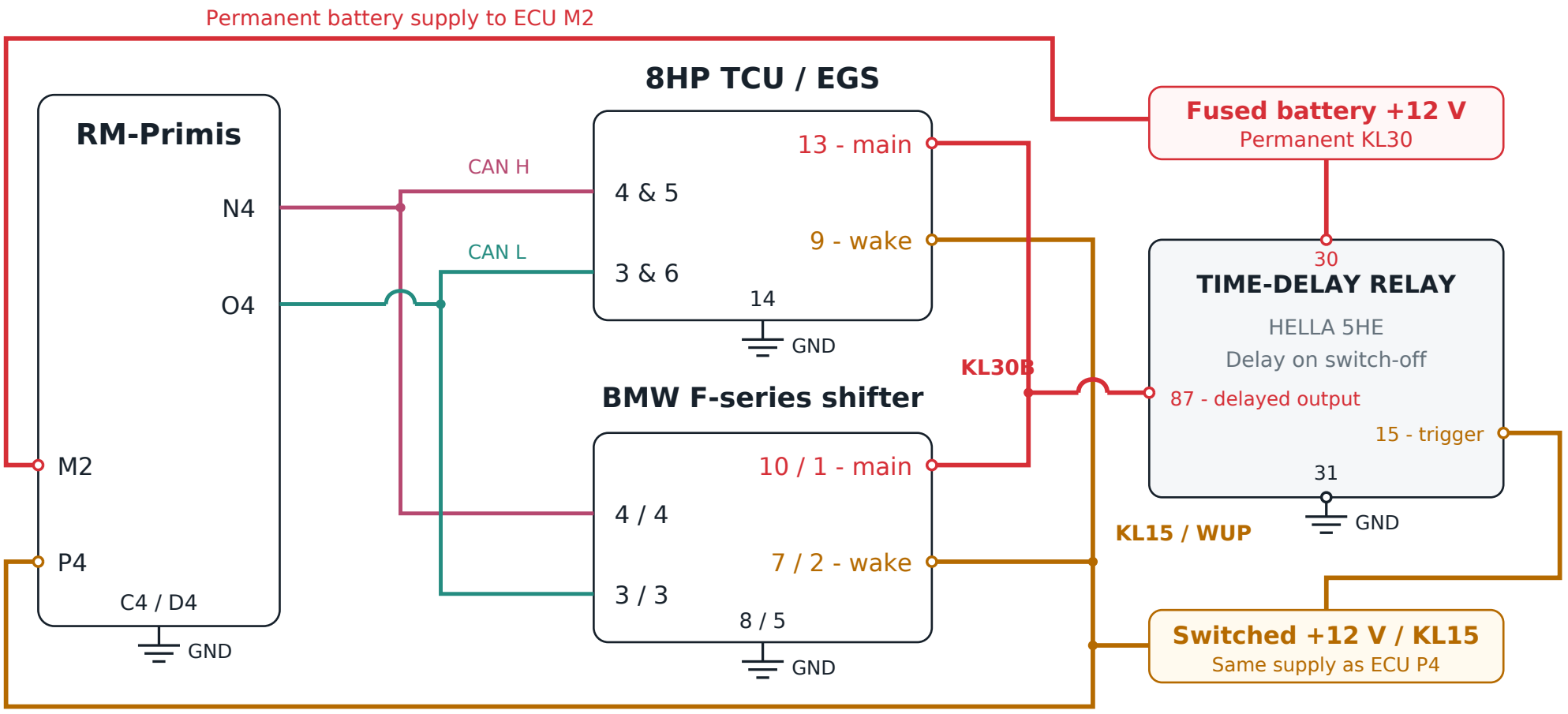


BMW 8HP | Standard Wiring

RM-Primis ECU / BMW F-series / Standard BMW firmware

SEE PAGE 4
Wiring and shutdown detail

POWER AND CAN WIRING



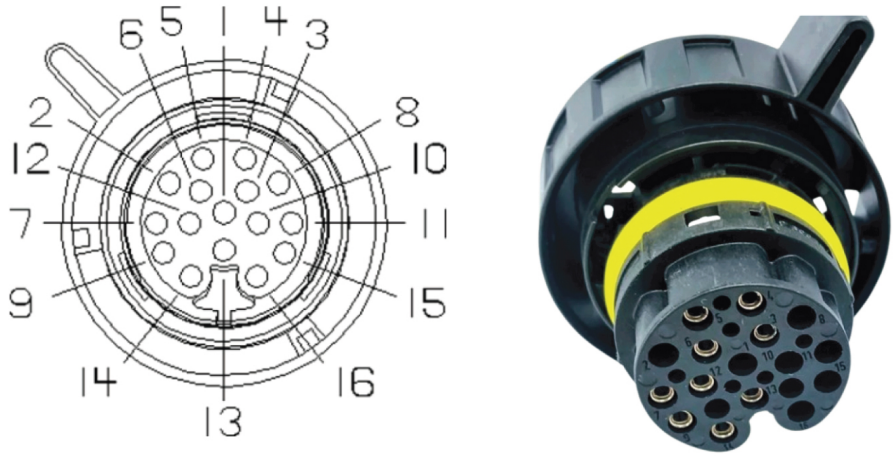
Shifter pin format: 10-pin / 8-pin

CONNECTIONS

Function	RM-Primis	TCU	Shifter 10-pin / 8-pin
CAN2-L	O4	3	NC
CAN2-H	N4	4	NC
CAN1-H	N4	5	4 / 4
CAN1-L	O4	6	3 / 3
Wake-up (KL15)	NC	9	7 / 2
Main +12 V (KL30B)	NC	13	10 / 1
Ground	C4 / D4	14	8 / 5

Both TCU CAN buses connect to RM-Primis CAN1.

TCU CONNECTOR



16-pin transmission connector

Identify terminals by their moulded pin numbers.

SHIFTER PIN ASSIGNMENTS

Function	10-pin	8-pin
Main +12 V (KL30B)	10	1
Wake-up (KL15)	7	2
Ground	8	5
PT-CAN Low	3	3
PT-CAN High	4	4
PT-CAN2 Low	5	6
PT-CAN2 High	6	7
Not connected	1, 2, 9	8

BMW F-SERIES SHIFTER



10-pin connector terminal numbering

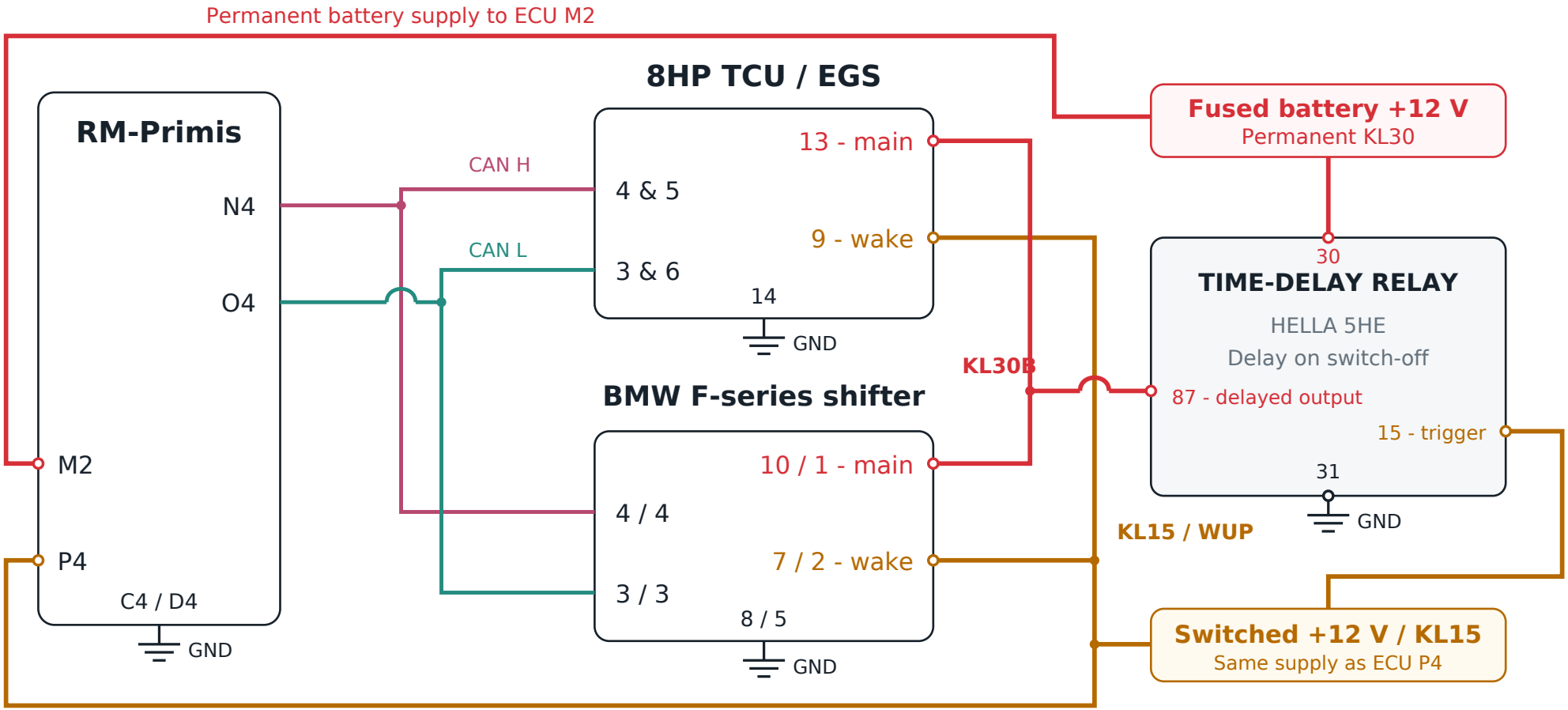
SHIFTER PART NUMBERS

Shifter	RHD	LHD
Normal	61 31 9296897	61 31 9296896
Sport	61 31 9296899	61 31 9296898

See page 4 for detailed wiring, relay terminals and shutdown timing.

BMW 8HP | Power and CAN Wiring

RM-Primis ECU / Standard BMW firmware



Shifter pin format: 10-pin / 8-pin

Relay: HELLA 5HE

30 = battery; 15 = KL15; 31 = ground;
87 = delayed output. Leave 87a unused.

SHUTDOWN ORDER

1. KL15 / wake-up switches OFF.
2. KL30B stays at battery voltage.
3. KL30B switches OFF after run-on.

Ground remains connected throughout.

