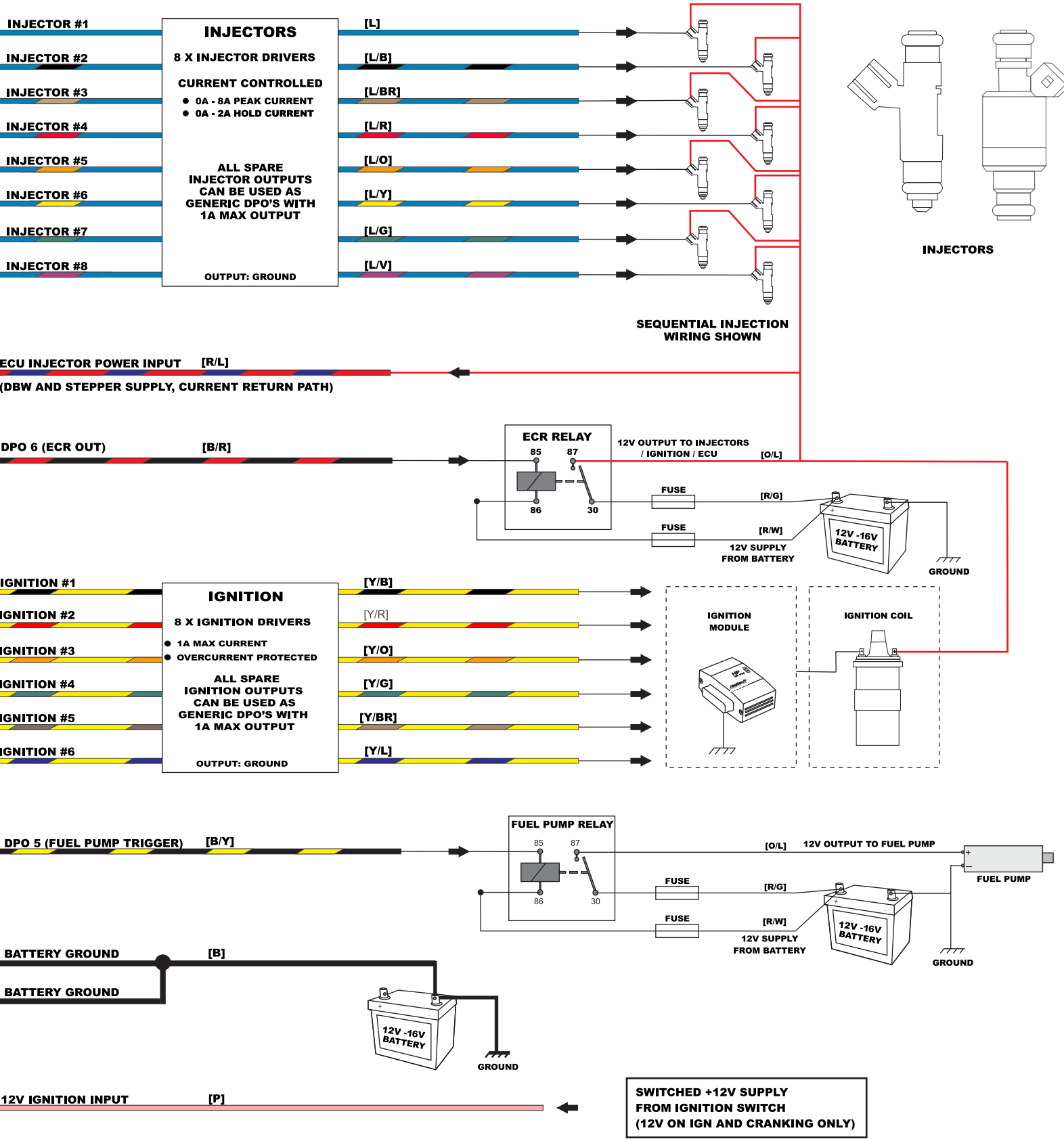
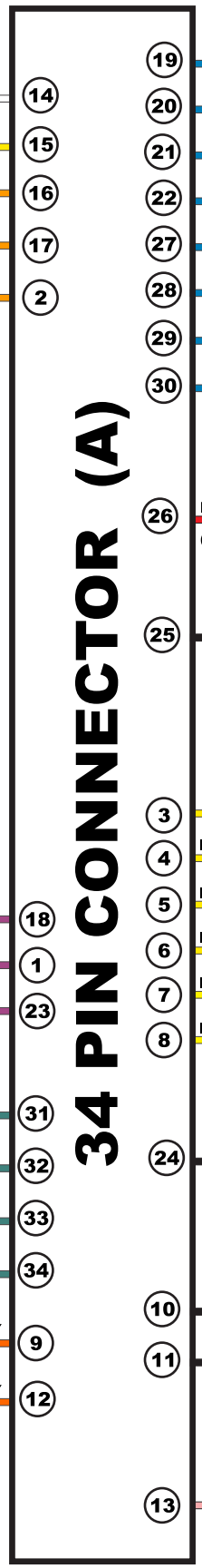
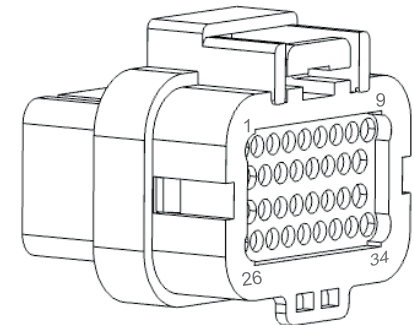
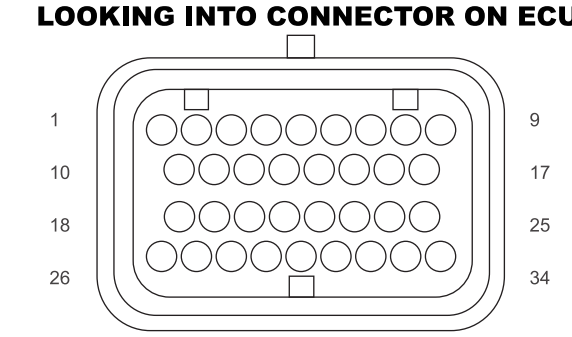
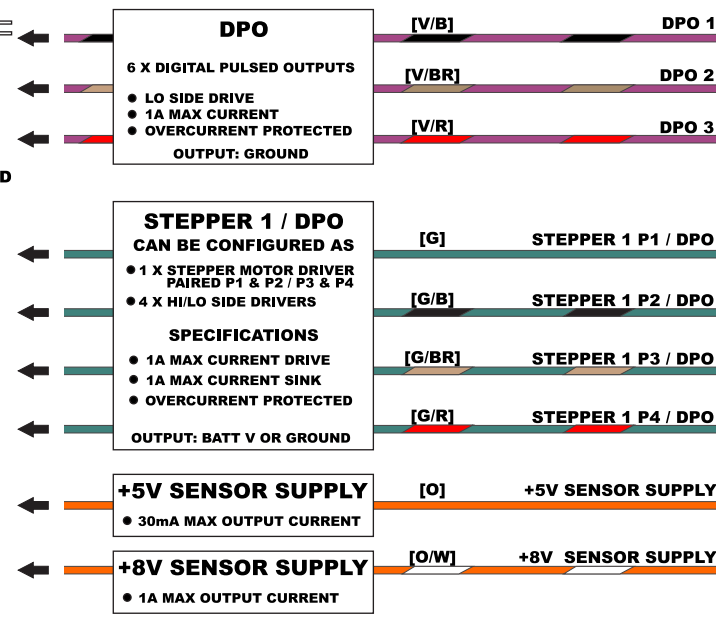
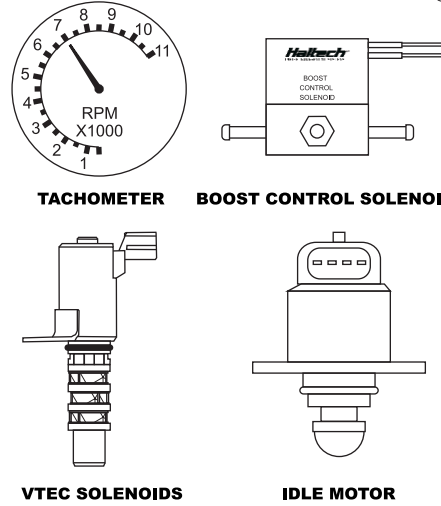
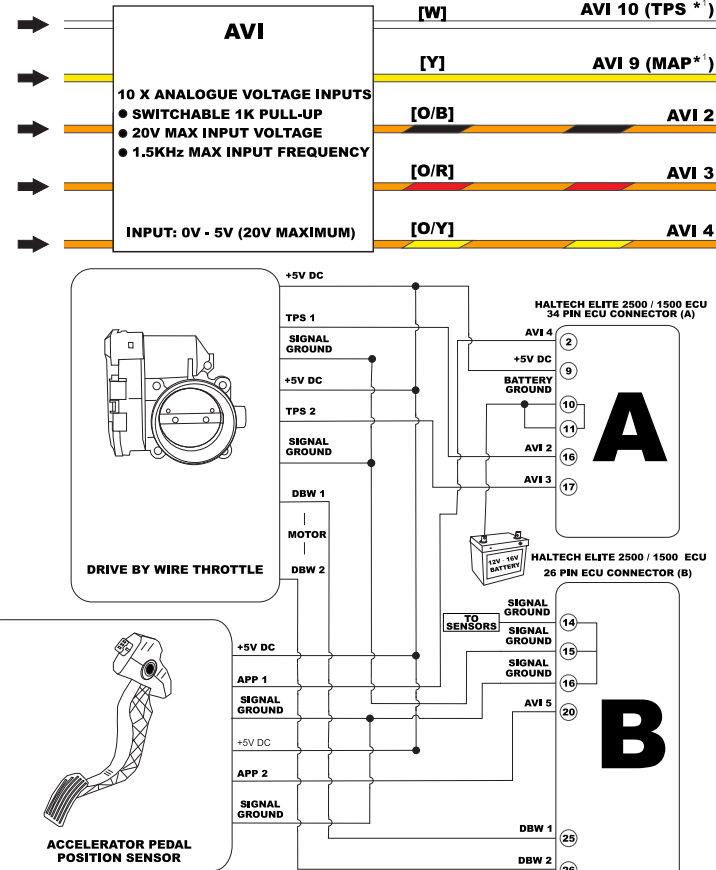
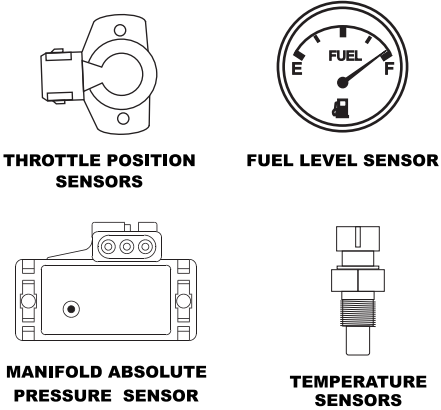


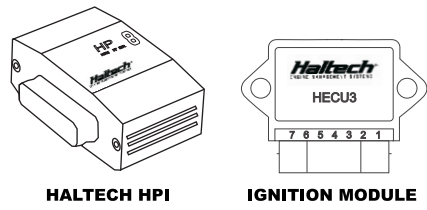
EXAMPLE CONNECTIONS



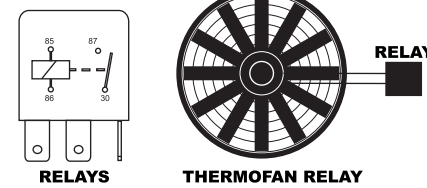
LEGEND - WIRE COLOUR
B = BLACK BR = BROWN G = GREEN GY = GREY L = BLUE
O = ORANGE P = PINK R = RED V = VIOLET Y = YELLOW W = WHITE
WHEN TWO COLOURS ARE USED IN A WIRE BY THE ALPHABETICAL CODE, THE FIRST LETTER INDICATES THE BASIC WIRE COLOUR, THE SECOND COLOUR INDICATES THE COLOUR OF THE STRIPE.

NOTES:
*1 RECOMMENDED FUNCTION ALLOCATION, BUT NOT LIMITED TO
*2 CAN USE 75A CIRCUIT BREAKER

EXAMPLE CONNECTIONS



HALTECH HPI IGNITION MODULE



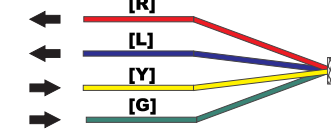
RELAYS THERMOFAN RELAY

IGNITION
8 X IGNITION DRIVERS
● 1A MAX CURRENT
● OVERCURRENT PROTECTED
ALL SPARE IGNITION OUTPUTS CAN BE USED AS GENERIC DPO'S WITH 1A MAX OUTPUT
OUTPUT: GROUND

DPO
6 X DIGITAL PULSED OUTPUTS
● LOW SIDE DRIVE
● 1A MAX CURRENT
● OVERCURRENT PROTECTED
OUTPUT: GROUND

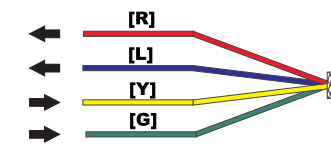
CRANK (TRIGGER) INPUT

+12V SWITCHED
SIGNAL GROUND
CRANK (TRIGGER) (+)
CRANK (TRIGGER) (-)

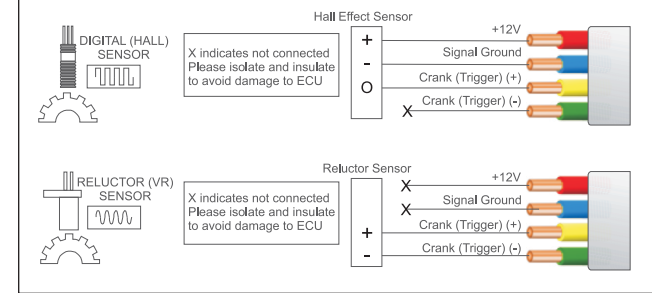


CAM (HOME) INPUT

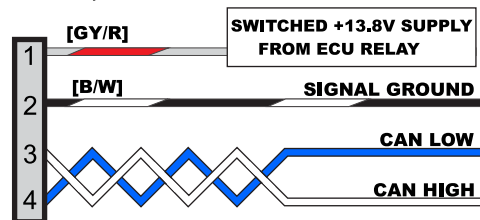
+12V SWITCHED
SIGNAL GROUND
CAM (HOME) (+)
CAM (HOME) (-)



CRANK AND CAM SENSOR WIRING INFORMATION



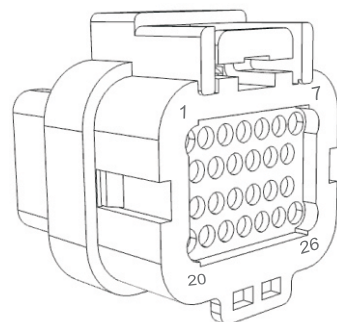
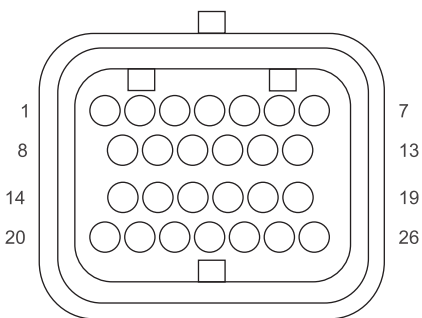
MAIN HARNESS CAN CONNECTOR (DTM04-4P)



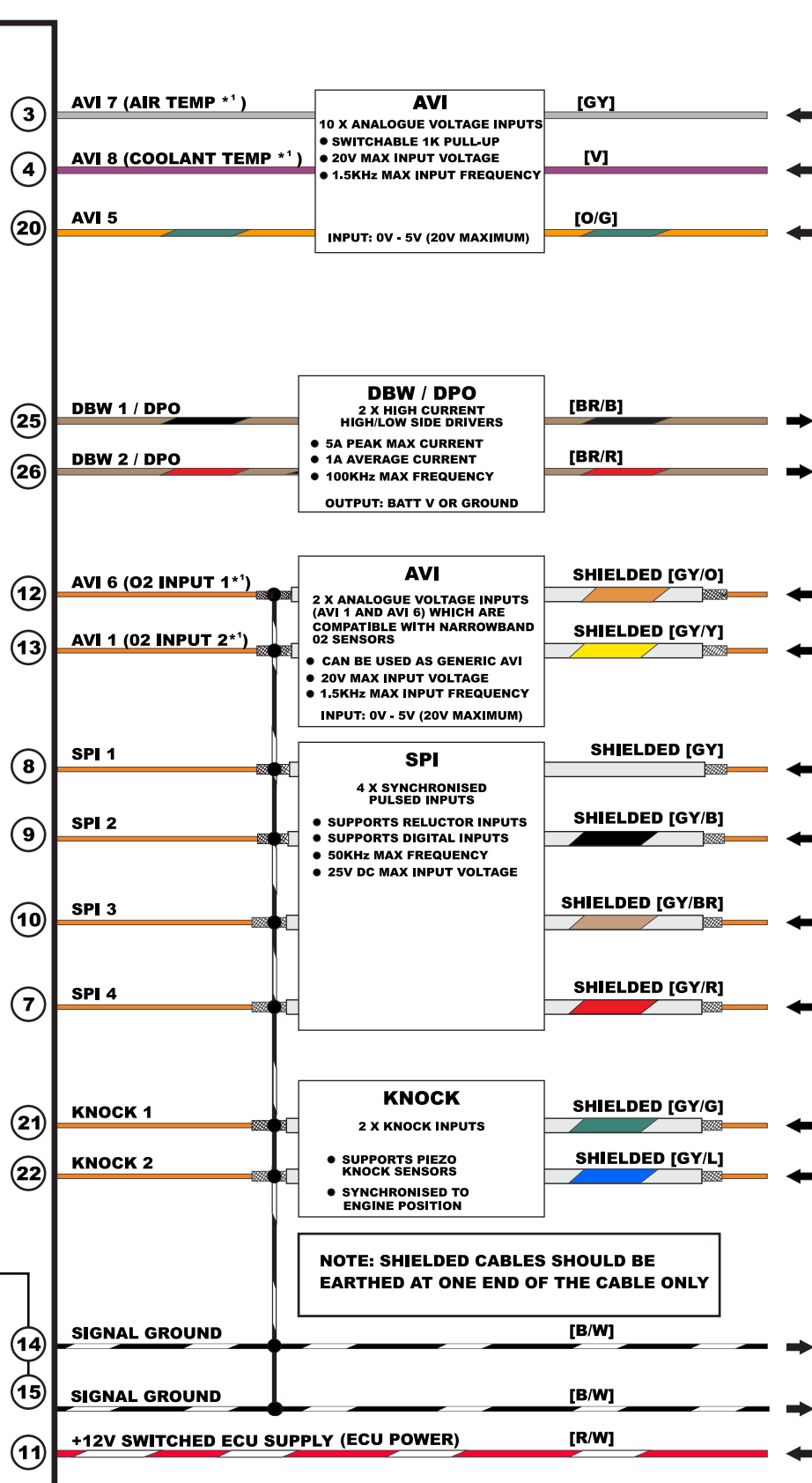
CAN (ISO 11898)

SUPPORTS SPEEDS UP TO 1Mbits/s
HALTECH BUS
● SUPPORTS ALL HALTECH EXPANSION PRODUCTS
VEHICLE BUS
● SELECTABLE PRECONFIGURED VEHICLE CAN INTERFACE
● OBDII COMPLIANT

LOOKING INTO CONNECTOR ON ECU



26 PIN CONNECTOR (B)



AVI
10 X ANALOGUE VOLTAGE INPUTS
● SWITCHABLE 1K PULL-UP
● 20V MAX INPUT VOLTAGE
● 1.5KHz MAX INPUT FREQUENCY
INPUT: 0V - 5V (20V MAXIMUM)

DBW / DPO
2 X HIGH CURRENT HIGH/LOW SIDE DRIVERS
● 5A PEAK MAX CURRENT
● 1A AVERAGE CURRENT
● 100KHz MAX FREQUENCY
OUTPUT: BATT V OR GROUND

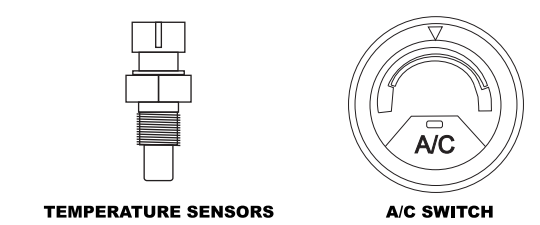
AVI
2 X ANALOGUE VOLTAGE INPUTS (AVI 1 AND AVI 6) WHICH ARE COMPATIBLE WITH NARROWBAND O2 SENSORS
● CAN BE USED AS GENERIC AVI
● 20V MAX INPUT VOLTAGE
● 1.5KHz MAX INPUT FREQUENCY
INPUT: 0V - 5V (20V MAXIMUM)

SPI
4 X SYNCHRONISED PULSED INPUTS
● SUPPORTS RELUCTOR INPUTS
● SUPPORTS DIGITAL INPUTS
● 50KHz MAX FREQUENCY
● 25V DC MAX INPUT VOLTAGE

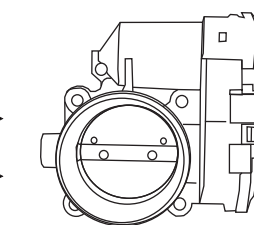
KNOCK
2 X KNOCK INPUTS
● SUPPORTS PIEZO KNOCK SENSORS
● SYNCHRONISED TO ENGINE POSITION

NOTE: SHIELDED CABLES SHOULD BE EARTHED AT ONE END OF THE CABLE ONLY

EXAMPLE CONNECTIONS



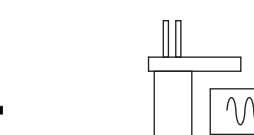
TEMPERATURE SENSORS A/C SWITCH



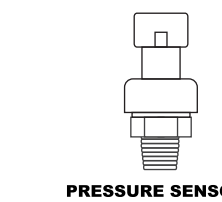
DRIVE BY WIRE THROTTLE



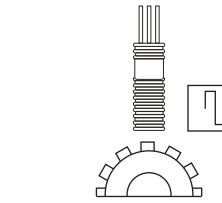
NARROWBAND O2 SENSORS



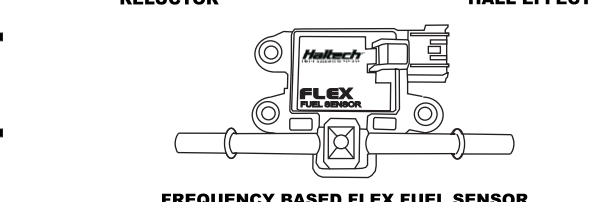
VEHICLE SPEED SENSORS RELUCTOR



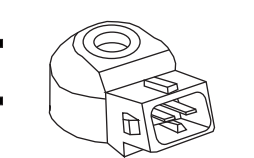
PRESSURE SENSORS



VEHICLE SPEED SENSORS HALL EFFECT



FREQUENCY BASED FLEX FUEL SENSOR



KNOCK SENSORS

TO SENSORS

FROM ECU RELAY IN FUSE BLOCK (R1)

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