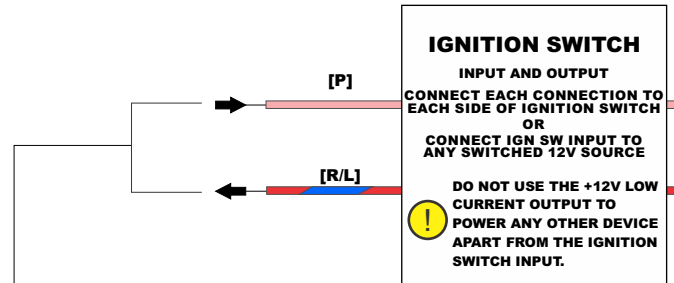
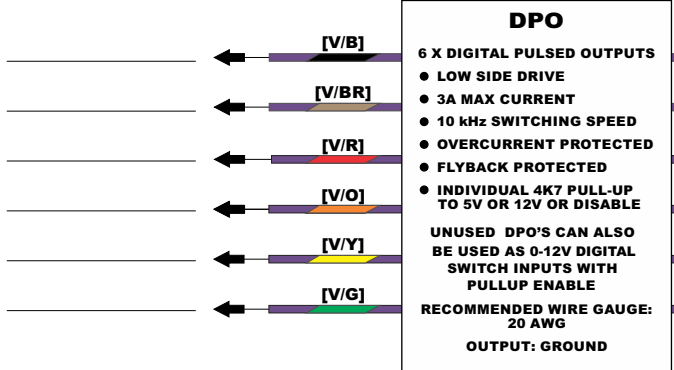
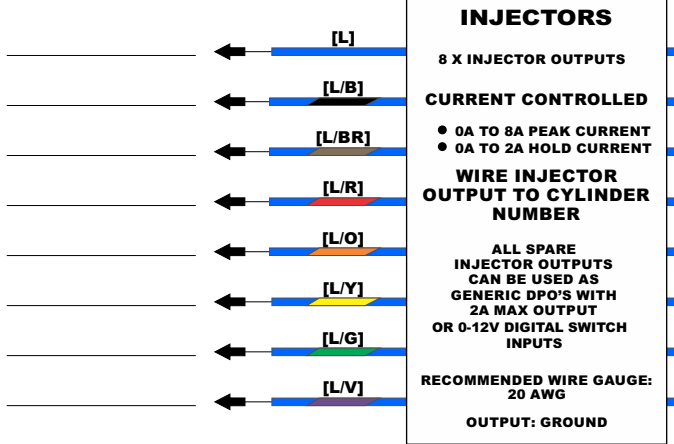


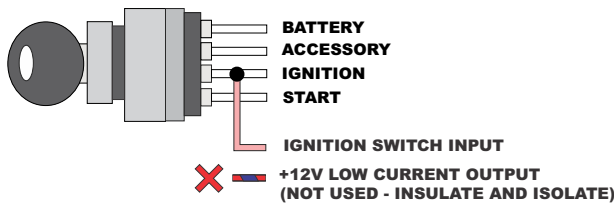


HT-183200 UNIVERSAL WIRE-IN HARNESS FOR NEXUS R3 VCU

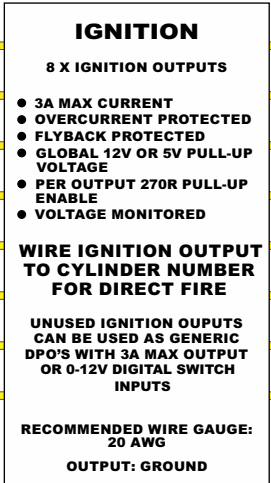
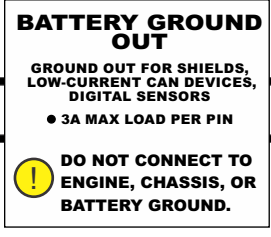
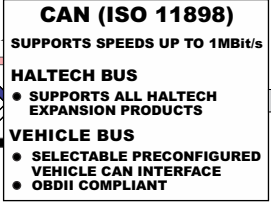
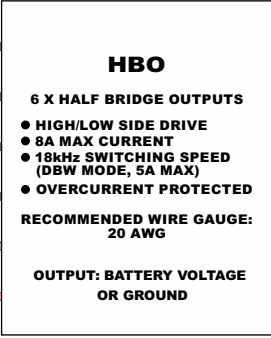
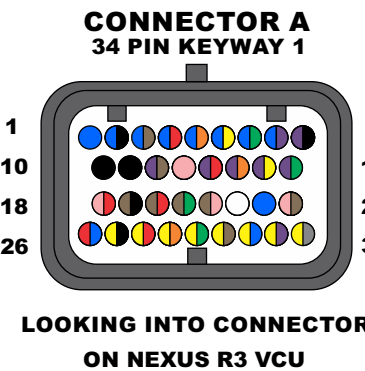
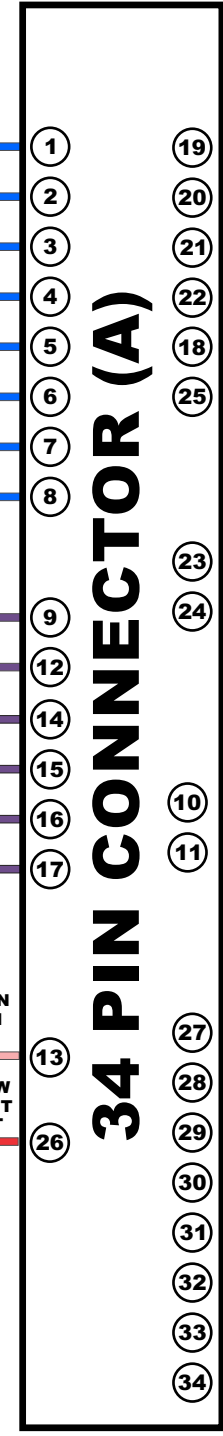
NOTES



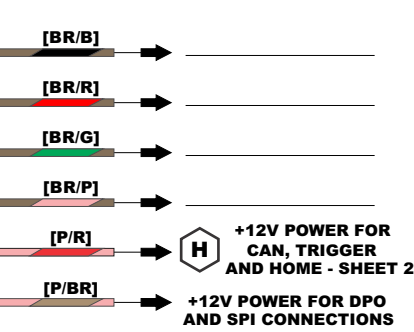
SWITCHING THE NEXUS R3 VCU ON
METHOD 1 - CONNECTING TO EXISTING IGNITION KEY SWITCH WIRING



SWITCHING THE NEXUS R3 VCU ON
METHOD 2 - USING A GENERIC TOGGLE SWITCH

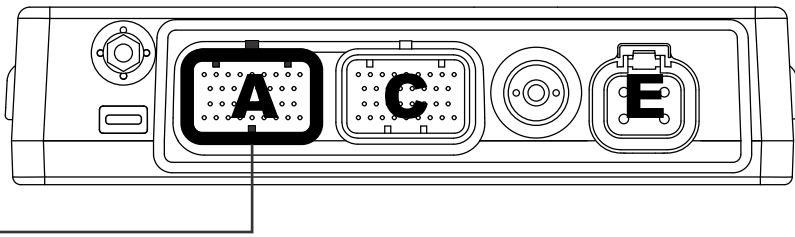
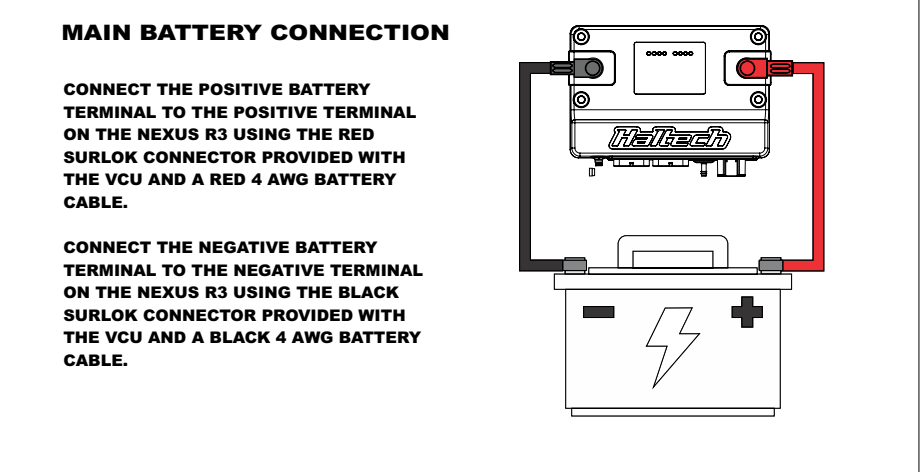
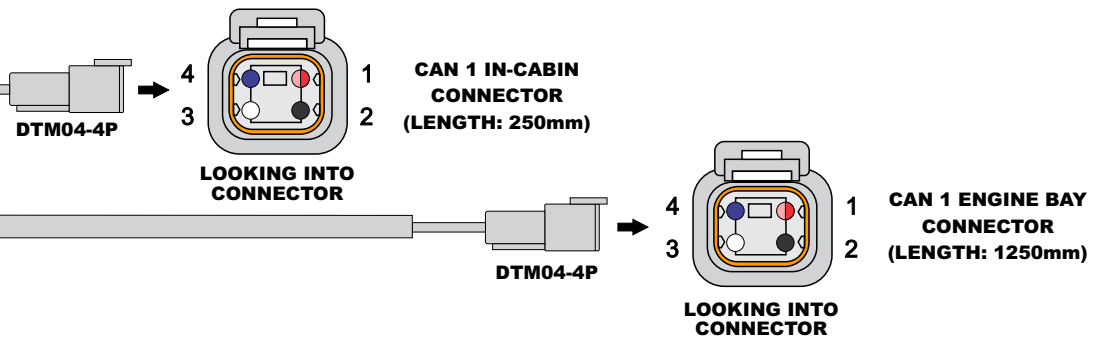


NOTES



WARNING!

THIS HARNESS DOES NOT GROUND YOUR ENGINE. MAKE SURE THE ENGINE IS SUFFICIENTLY GROUNDED USING A GROUND / EARTHING STRAP TO THE BATTERY. KEEP ALL WIRES AWAY FROM THE EXHAUST MANIFOLD.



LEGEND - WIRE COLOUR

B = BLACK BR = BROWN G = GREEN GY = GREY L = BLUE
LL = LIGHT BLUE LG = LIGHT GREEN LY = LIGHT YELLOW 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.

Haltech	
HT-183200 UNIVERSAL WIRE-IN HARNESS FOR NEXUS R3 VCU - WIRING DIAGRAM	
DOCUMENT REVISION: 1.1	HARNESS REVISION: C
DATE: JANUARY 2026	SHEET 1 OF 2

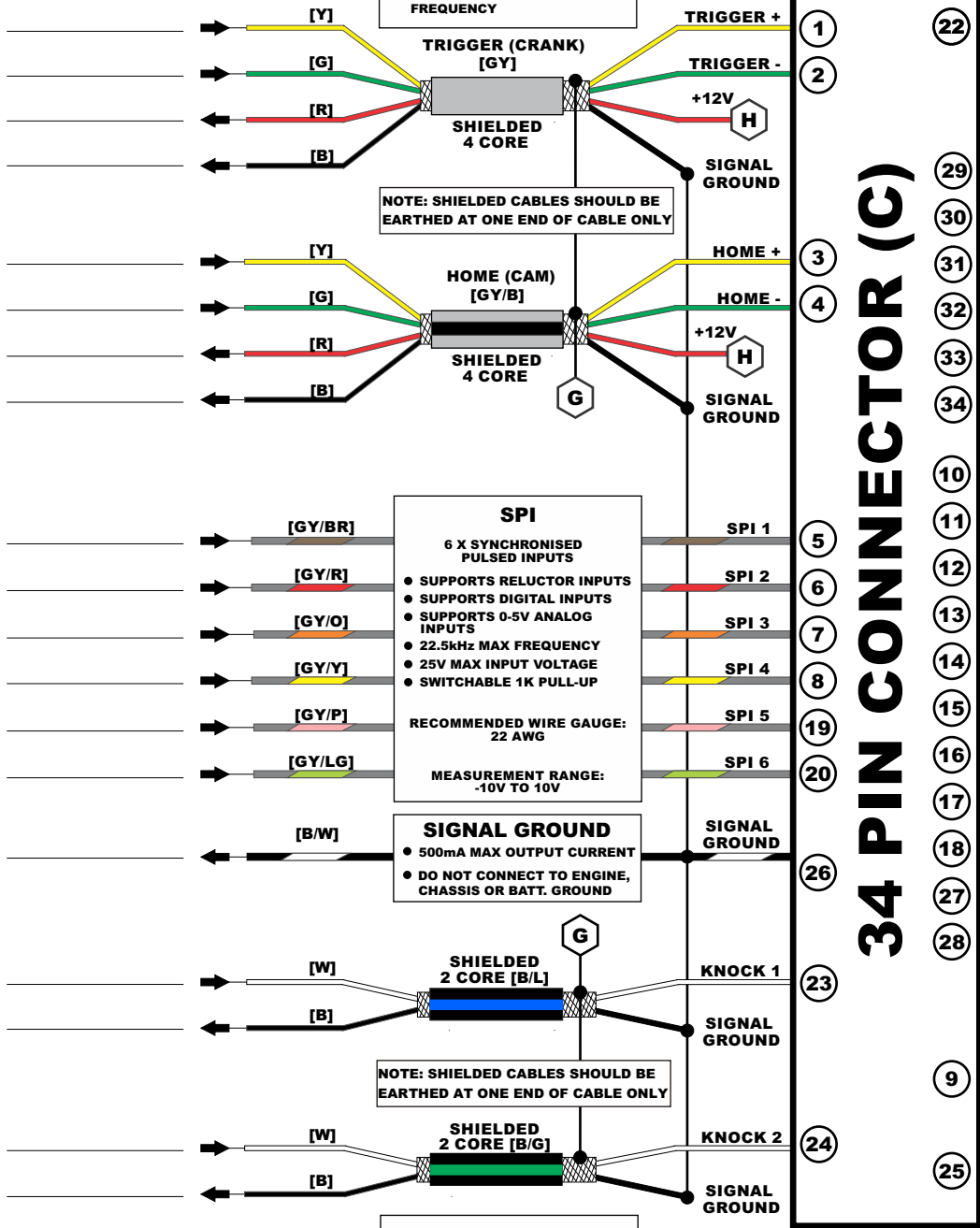


HT-183200 UNIVERSAL WIRE-IN HARNESS FOR NEXUS R3 VCU

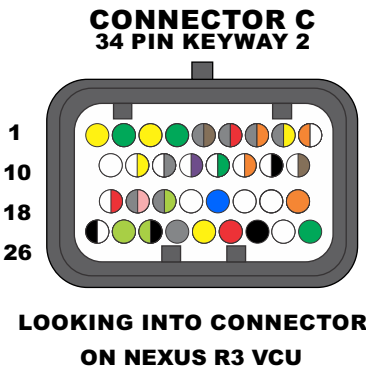
NOTES

TRIGGER AND HOME INPUTS

- SUPPORTS RELUCTOR INPUTS
- SUPPORTS DIGITAL INPUTS
- SELECTABLE GROUND REFERENCE AND PULLUP TO 5V
- 48kHz MAX SIGNAL FREQUENCY



34 PIN CONNECTOR (C)



CAN (ISO 11898)
SUPPORTS SPEEDS UP TO 1Mbit/s

HALTECH BUS
• SUPPORTS ALL HALTECH EXPANSION PRODUCTS

VEHICLE BUS
• SELECTABLE PRECONFIGURED VEHICLE CAN INTERFACE
• OBDII COMPLIANT

WIDEBAND SENSOR INPUT
COMPATIBLE WITH BOSCH LSU 4.9 AND NTK SENSORS
SELECT WHICH SENSOR IS BEING USED IN THE NSP SOFTWARE

- COMPATIBLE WITH ETHANOL
- MUST BE INSTALLED PRE CATALYTIC CONVERTOR
- OPTIONAL WIDEBAND HARDWARE PACK MAY BE PURCHASED IF REQUIRED (HT-010746 FOR LSU4.9) (HT-010747 FOR NTK)

AVI
11 X ANALOG VOLTAGE INPUTS

- INDIVIDUAL SOFTWARE SELECTABLE 1K PULL-UP TO 5V
- USER DEFINABLE INPUTS CAN BE ALLOCATED TO AVAILABLE FUNCTIONS IN THE SOFTWARE
- 30V MAX INPUT VOLTAGE
- 1000 SAMPLES/SECOND
- 1.5kHz MAX INPUT FREQUENCY
- ALL AVIS CAN BE USED FOR NARROWBAND O2 AND DBW INPUTS

RECOMMENDED WIRE GAUGE: 22 AWG
INPUT: -10V TO 30V

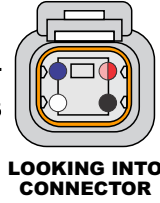
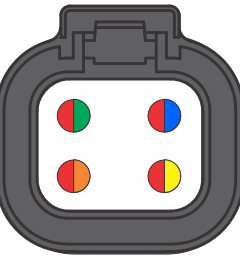
+8V SENSOR SUPPLY
• 200mA MAX OUTPUT CURRENT

+5V SENSOR SUPPLY (A)
• 200mA MAX OUTPUT CURRENT

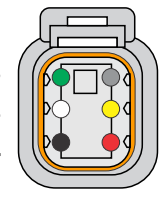
NOTES

4 PIN (E) CONNECTOR

CONNECTOR E
4 PIN DTP



CAN 2 IN-CABIN CONNECTOR
(LENGTH: 250mm)



WIDEBAND O2 SENSOR CONNECTOR
(LENGTH: 1250mm)

25A HCO
4 X 25A HIGH CURRENT OUTPUTS

- HIGH/LOW SIDE DRIVE
- 25A MAX CURRENT
- CAPABLE OF 0-100% DUTY
- 1kHz SWITCHING SPEED
- SOFTWARE PROGRAMMABLE FUSE CURRENT, DELAY AND NO. OF RETRIES
- OVERCURRENT PROTECTION

RECOMMENDED WIRE GAUGE: 12 AWG
OUTPUT: BATTERY VOLTAGE OR GROUND

NOTES

+12V POWER FOR INJECTORS

+12V POWER FOR IGNITION COILS

LEGEND - CONNECTION POINTS

- G** CONNECTION TO BATTERY GROUND
OUTPUT ON CONNECTOR A - SHEET 1
- H** CONNECTION TO HBO 5 (+12V) - SHEET 1

LEGEND - WIRE COLOUR

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HT-183200 UNIVERSAL WIRE-IN HARNESS
FOR NEXUS R3 VCU - WIRING DIAGRAM

DOCUMENT REVISION: 1.1

HARNESS REVISION: C

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SHEET 2 OF 2