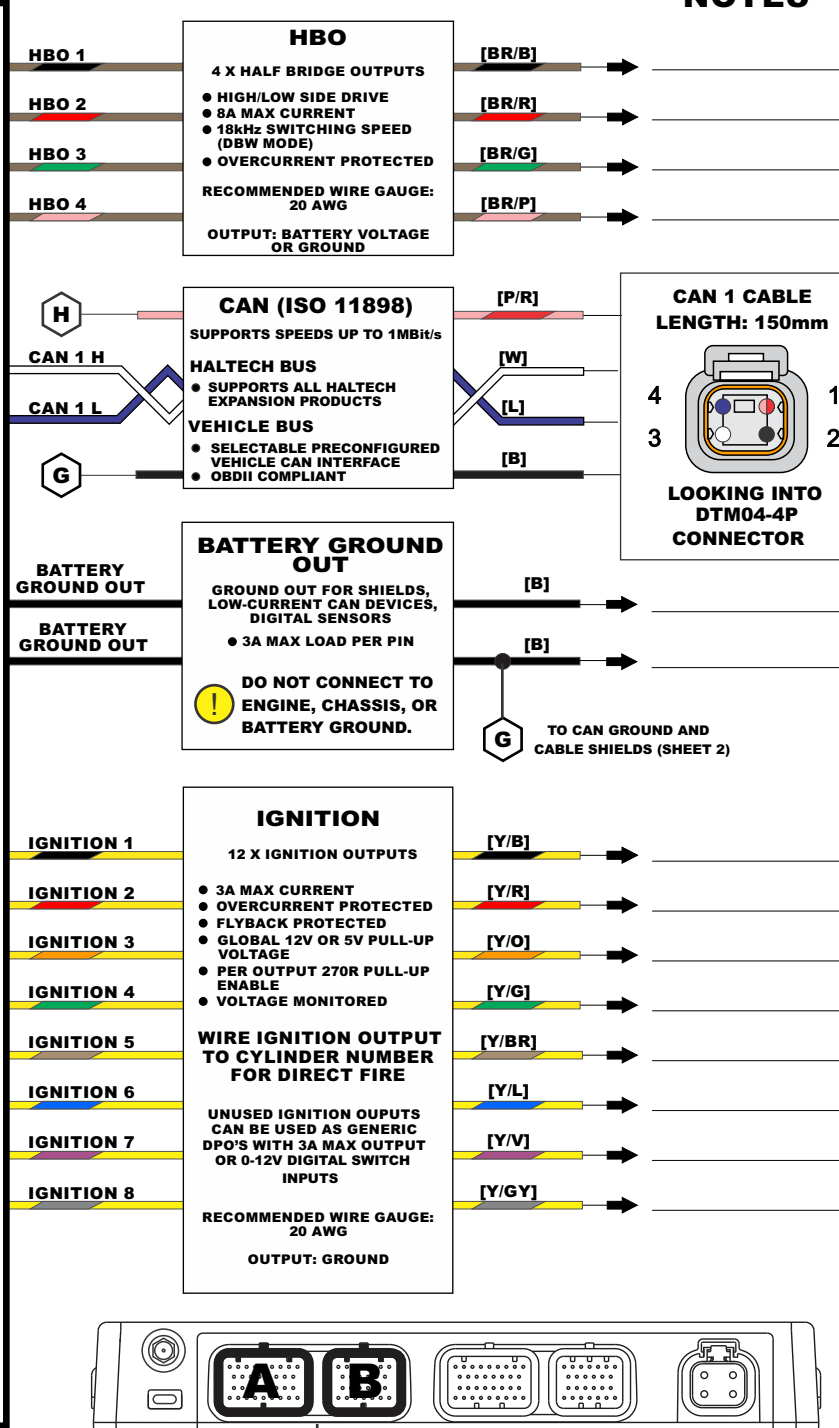
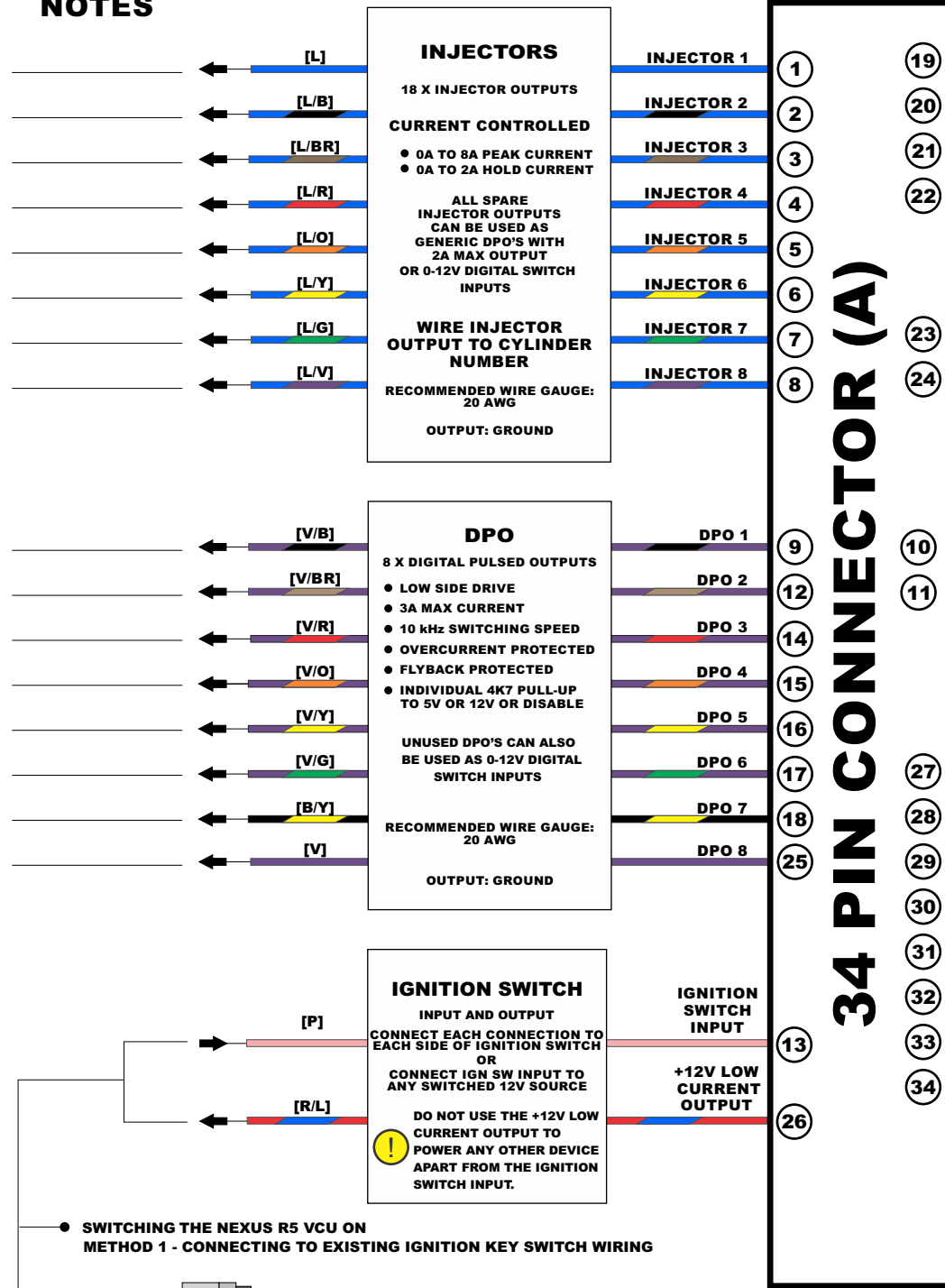


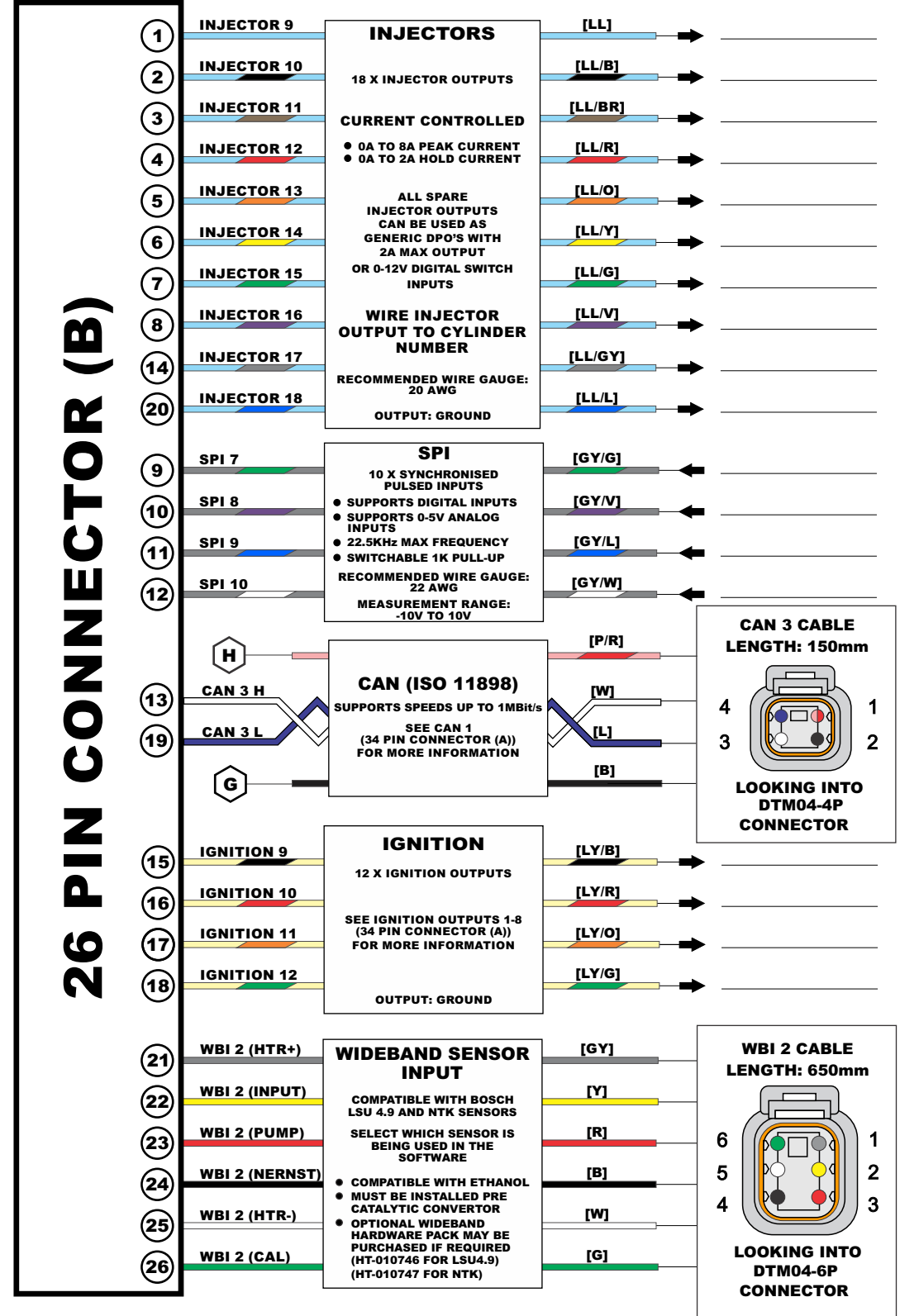


NEXUS R5 VCU WIRING DIAGRAM

NOTES

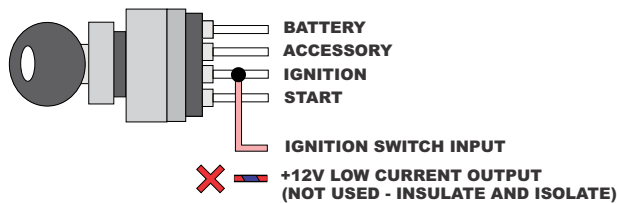


NOTES



NOTES

SWITCHING THE NEXUS R5 VCU ON METHOD 1 - CONNECTING TO EXISTING IGNITION KEY SWITCH WIRING



SWITCHING THE NEXUS R5 VCU ON METHOD 2 - USING A GENERIC TOGGLE SWITCH



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.



NEXUS R5 VCU WIRING DIAGRAM

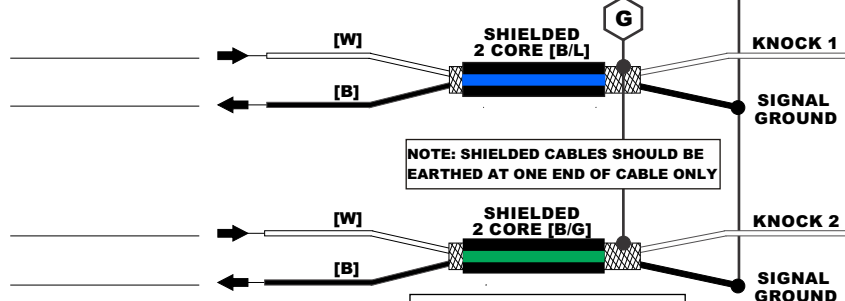
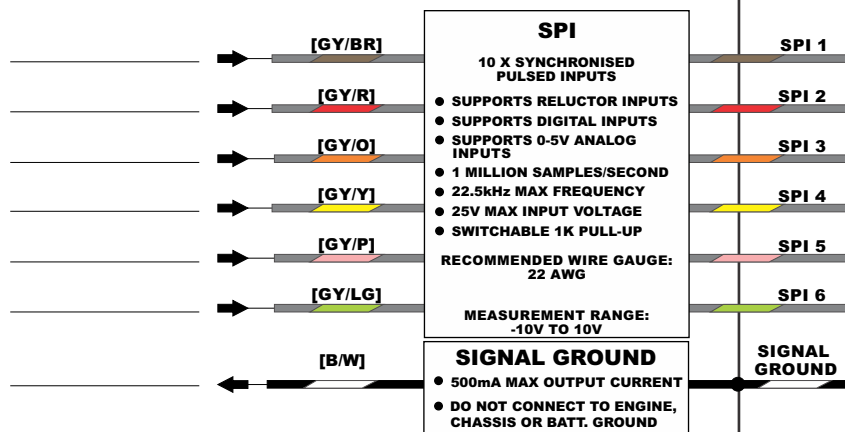
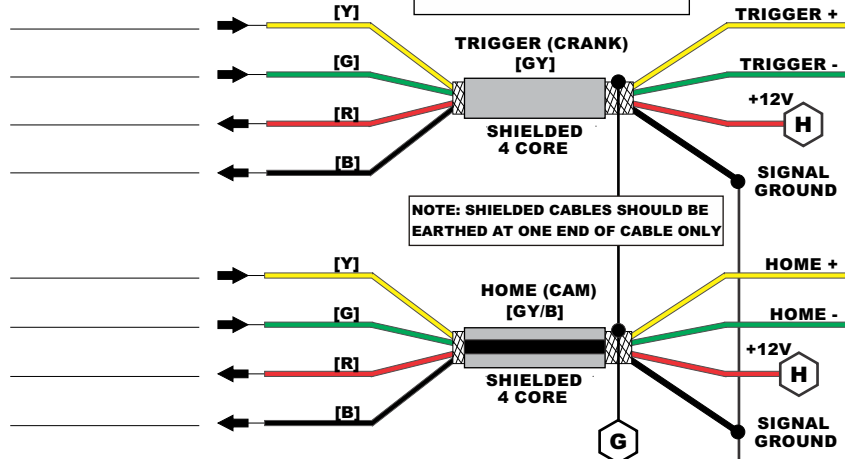
DOCUMENT REVISION: 2.3	HARNESS REVISION: 2.0
DATE: JANUARY 2026	SHEET 1 OF 2



NEXUS R5 VCU WIRING DIAGRAM

NOTES

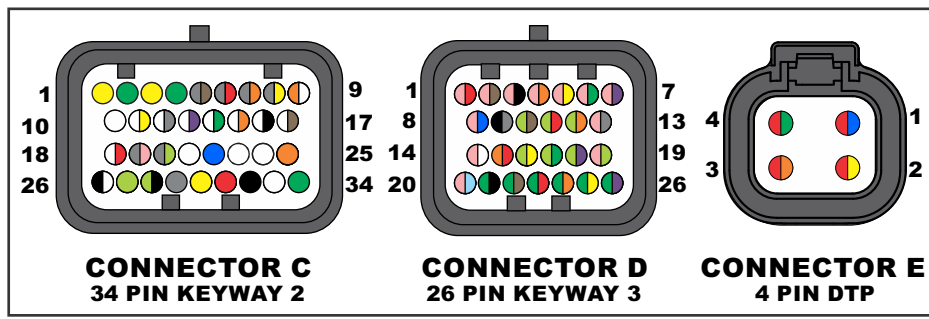
- TRIGGER AND HOME INPUTS**
- SUPPORTS RELUCTOR INPUTS
 - SUPPORTS DIGITAL INPUTS
 - SELECTABLE GROUND REFERENCE AND PULLUP TO 5V
 - 48kHz MAX SIGNAL FREQUENCY



- KNOCK INPUTS**
- -2.5V TO +2.5V AC INPUT ONLY
 - 160Hz TO 48kHz SIGNAL FREQUENCY

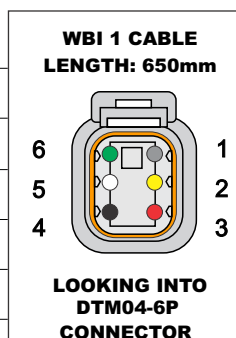
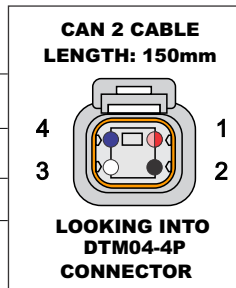
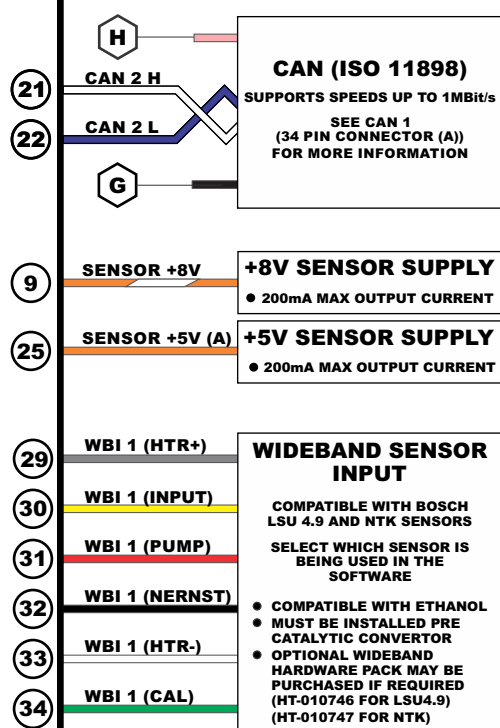
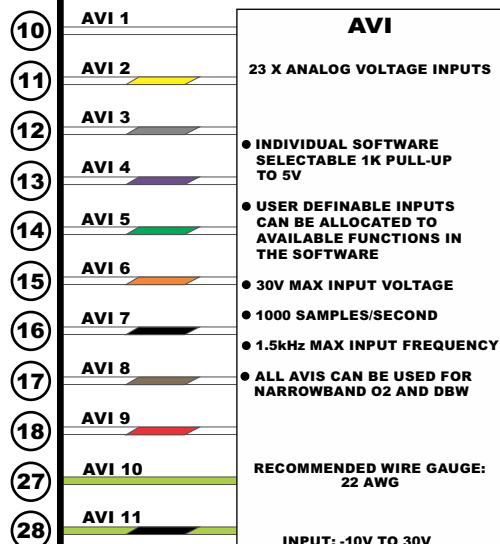
LEGEND - CONNECTION POINTS

- G** CONNECTION TO BATTERY GROUND OUTPUT ON CONNECTOR A - SHEET 1
- H** CONNECTION TO 8A-HCO 1 ON CONNECTOR D (MUST BE ASSIGNED AS +12V CAN POWER OUTPUT FUNCTION IN NSP)

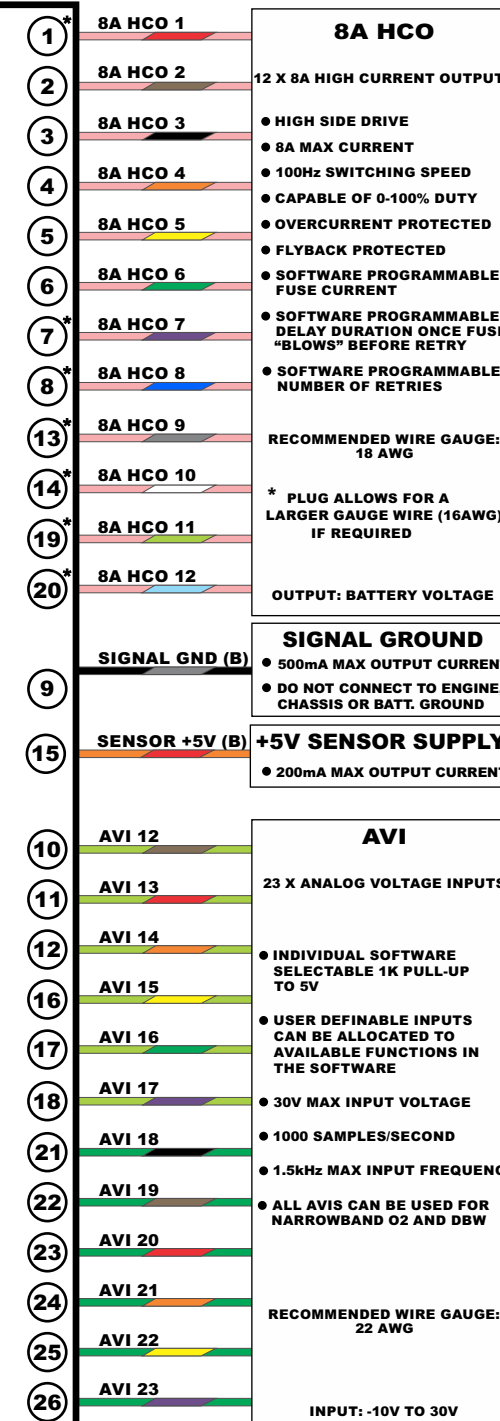


NOTES

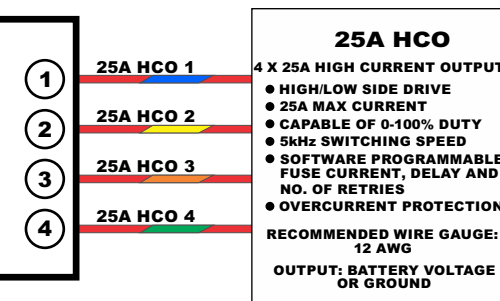
34 PIN CONNECTOR (C)



26 PIN CONNECTOR (D)



4 PIN (E) CONNECTOR



NOTES

- H** +12V CAN POWER
- P/R** [P/R]
- P/BR** [P/BR]
- P/B** [P/B]
- P/O** [P/O]
- P/Y** [P/Y]
- P/G** [P/G]
- P/V** [P/V]
- P/L** [P/L]
- P/GY** [P/GY]
- P/W** [P/W]
- P/LG** [P/LG]
- P/LL** [P/LL]

- SIGNAL GND (B)**
- 500mA MAX OUTPUT CURRENT
 - DO NOT CONNECT TO ENGINE, CHASSIS OR BATT. GROUND

- +5V SENSOR SUPPLY**
- 200mA MAX OUTPUT CURRENT

- AVI**
- 23 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

- 25A HCO**
- 4 X 25A HIGH CURRENT OUTPUTS
 - HIGH/LOW SIDE DRIVE
 - 25A MAX CURRENT
 - CAPABLE OF 0-100% DUTY
 - 5kHz SWITCHING SPEED
 - SOFTWARE PROGRAMMABLE FUSE CURRENT, DELAY AND NO. OF RETRIES
 - OVERCURRENT PROTECTION
 - RECOMMENDED WIRE GAUGE: 12 AWG
 - OUTPUT: BATTERY VOLTAGE OR GROUND



NEXUS R5 VCU WIRING DIAGRAM

DOCUMENT REVISION: 2.3

HARNESS REVISION: 2.0

DATE: JANUARY 2026

SHEET 2 OF 2