# Ford Coyote Main Harness

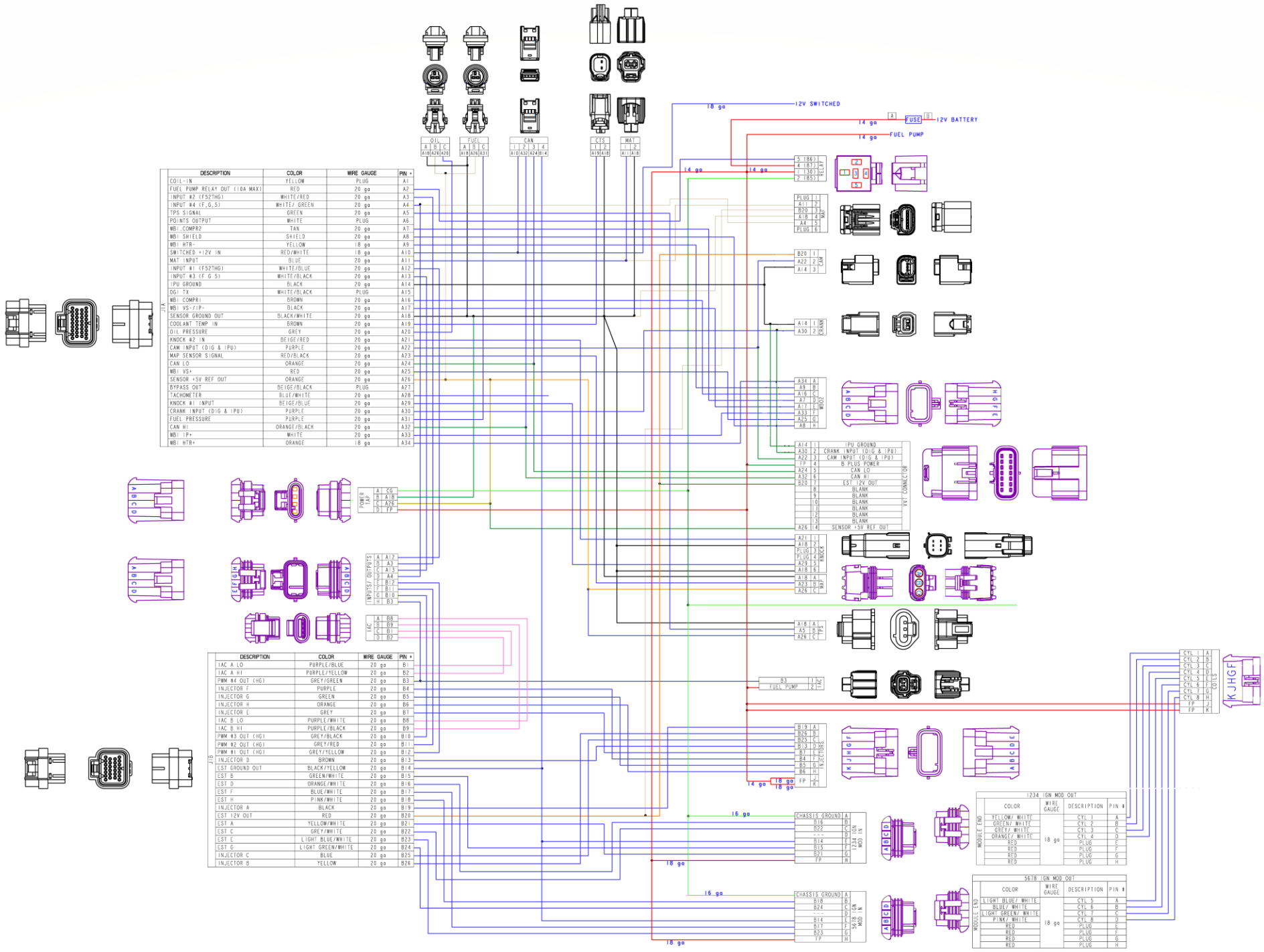
**NOTE:** The IAC wiring for this harness has changed with the latest harness revision (271R1089-3A). The 2-wire IAC is now connected to ECU pin B3 (shared with Output 4). Harness version 271R1089A-1 had the IAC pinned to B12 (shared with Output 1). A 4-wire IAC connector has also been added to this harness. It is compatible with GM 4-pin IAC's such as Holley P/N 543-34.

If you do not use the 2-wire IAC connector you may use Output 4 for another purpose. The full wiring diagram of the latest harness revision can be found on the reverse side of this page.

**Technical Support: 1-866-464-6553**

© Holley EFI, Inc. All rights reserved. Tous Droits Réservés.

**199R12029**
**Date: 3-27-20**

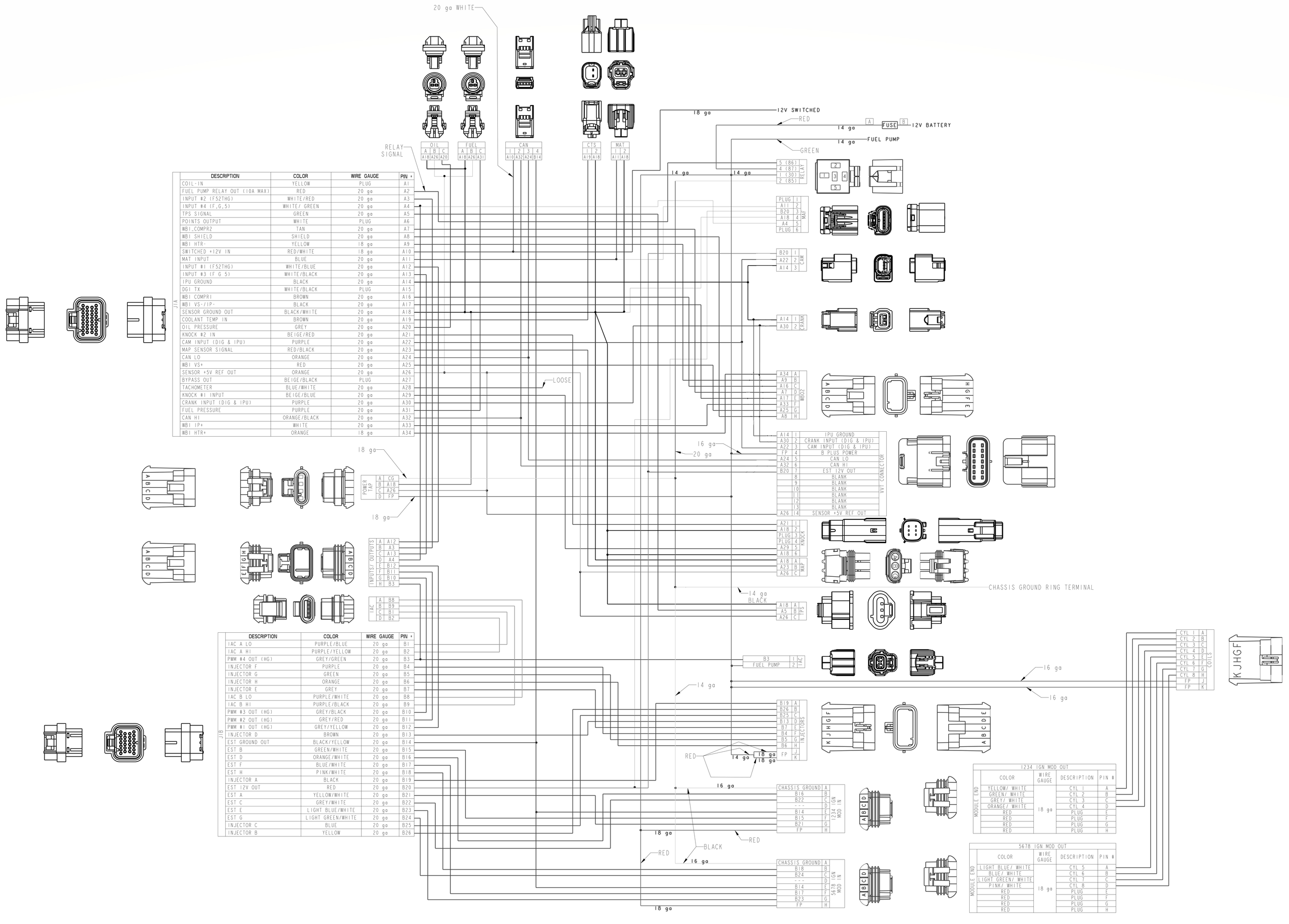



| DESCRIPTION | COLOR | WIRE GAUGE | PIN # |
|---|---|---|---|
| COIL-IN | YELLOW | PLUG | A1 |
| FUEL PUMP RELAY OUT (10A MAX) | RED | 20 ga | A2 |
| INPUT #2 (F52THG) | WHITE/RED | 20 ga | A3 |
| INPUT #4 (F,G,5) | WHITE/ GREEN | 20 ga | A4 |
| TPS SIGNAL | GREEN | 20 ga | A5 |
| POINTS OUTPUT | WHITE | PLUG | A6 |
| WB1_COMPR2 | TAN | 20 ga | A7 |
| WB1 SHIELD | SHIELD | 20 ga | A8 |
| WB1 HTR- | YELLOW | 18 ga | A9 |
| SWITCHED +12V IN | RED/WHITE | 18 ga | A10 |
| MAT INPUT | BLUE | 20 ga | A11 |
| INPUT #1 (F52THG) | WHITE/BLUE | 20 ga | A12 |
| INPUT #3 (F G 5) | WHITE/BLACK | 20 ga | A13 |
| IPU GROUND | BLACK | 20 ga | A14 |
| DGI TX | WHITE/BLACK | PLUG | A15 |
| WB1 COMPR1 | BROWN | 20 ga | A16 |
| WB1 VS-/IP- | BLACK | 20 ga | A17 |
| SENSOR GROUND OUT | BLACK/WHITE | 20 ga | A18 |
| COOLANT TEMP IN | BROWN | 20 ga | A19 |
| OIL PRESSURE | GREY | 20 ga | A20 |
| KNOCK #2 IN | BEIGE/RED | 20 ga | A21 |
| CAM INPUT (DIG & IPU) | PURPLE | 20 ga | A22 |
| MAP SENSOR SIGNAL | RED/BLACK | 20 ga | A23 |
| CAN LO | ORANGE | 20 ga | A24 |
| WB1 VS+ | RED | 20 ga | A25 |
| SENSOR +5V REF OUT | ORANGE | 20 ga | A26 |
| BYPASS OUT | BEIGE/BLACK | PLUG | A27 |
| TACHOMETER | BLUE/WHITE | 20 ga | A28 |
| KNOCK #1 INPUT | BEIGE/BLUE | 20 ga | A29 |
| CRANK INPUT (DIG & IPU) | PURPLE | 20 ga | A30 |
| FUEL PRESSURE | PURPLE | 20 ga | A31 |
| CAN HI | ORANGE/BLACK | 20 ga | A32 |
| WB1 IP+ | WHITE | 20 ga | A33 |
| WB1 HTR+ | ORANGE | 18 ga | A34 |

| DESCRIPTION | COLOR | WIRE GAUGE | PIN # |
|---|---|---|---|
| IAC A LO | PURPLE/BLUE | 20 ga | B1 |
| IAC A HI | PURPLE/YELLOW | 20 ga | B2 |
| PWM #4 OUT (HG) | GREY/GREEN | 20 ga | B3 |
| INJECTOR F | PURPLE | 20 ga | B4 |
| INJECTOR G | GREEN | 20 ga | B5 |
| INJECTOR H | ORANGE | 20 ga | B6 |
| INJECTOR E | GREY | 20 ga | B7 |
| IAC B LO | PURPLE/WHITE | 20 ga | B8 |
| IAC B HI | PURPLE/BLACK | 20 ga | B9 |
| PWM #3 OUT (HG) | GREY/BLACK | 20 ga | B10 |
| PWM #2 OUT (HG) | GREY/RED | 20 ga | B11 |
| PWM #1 OUT (HG) | GREY/YELLOW | 20 ga | B12 |
| INJECTOR D | BROWN | 20 ga | B13 |
| EST GROUND OUT | BLACK/YELLOW | 20 ga | B14 |
| EST B | GREEN/WHITE | 20 ga | B15 |
| EST D | ORANGE/WHITE | 20 ga | B16 |
| EST F | BLUE/WHITE | 20 ga | B17 |
| EST H | PINK/WHITE | 20 ga | B18 |
| INJECTOR A | BLACK | 20 ga | B19 |
| EST 12V OUT | RED | 20 ga | B20 |
| EST A | YELLOW/WHITE | 20 ga | B21 |
| EST C | GREY/WHITE | 20 ga | B22 |
| EST E | LIGHT BLUE/WHITE | 20 ga | B23 |
| EST G | LIGHT GREEN/WHITE | 20 ga | B24 |
| INJECTOR C | BLUE | 20 ga | B25 |
| INJECTOR B | YELLOW | 20 ga | B26 |

| 1234 IGN MOD OUT | | | | |
|---|---|---|---|---|
| | COLOR | WIRE GAUGE | DESCRIPTION | PIN # |
| MODULE END | YELLOW/ WHITE | 18 ga | CYL 1 | A |
| | GREEN/ WHITE | | CYL 2 | B |
| | GREY/ WHITE | | CYL 3 | C |
| | ORANGE/ WHITE | | CYL 4 | D |
| | RED | | PLUG | E |
| | RED | | PLUG | F |
| | RED | | PLUG | G |
| | RED | | PLUG | H |

| 5678 IGN MOD OUT | | | | |
|---|---|---|---|---|
| | COLOR | WIRE GAUGE | DESCRIPTION | PIN # |
| MODULE END | LIGHT BLUE/ WHITE | 18 ga | CYL 5 | A |
| | BLUE/ WHITE | | CYL 6 | B |
| | LIGHT GREEN/ WHITE | | CYL 7 | C |
| | PINK/ WHITE | | CYL 8 | D |
| | RED | | PLUG | E |
| | RED | | PLUG | F |
| | RED | | PLUG | G |
| | RED | | PLUG | H |




| DESCRIPTION | COLOR | WIRE GAUGE | PIN # |
|---|---|---|---|
| COIL-IN | YELLOW | PLUG | A1 |
| FUEL PUMP RELAY OUT (10A MAX) | RED | 20 ga | A2 |
| INPUT #2 (F52THG) | WHITE/RED | 20 ga | A3 |
| INPUT #4 (F,G,5) | WHITE/ GREEN | 20 ga | A4 |
| TPS SIGNAL | GREEN | 20 ga | A5 |
| POINTS OUTPUT | WHITE | PLUG | A6 |
| WB1_COMPR2 | TAN | 20 ga | A7 |
| WB1 SHIELD | SHIELD | 20 ga | A8 |
| WB1 HTR- | YELLOW | 18 ga | A9 |
| SWITCHED +12V IN | RED/WHITE | 18 ga | A10 |
| MAT INPUT | BLUE | 20 ga | A11 |
| INPUT #1 (F52THG) | WHITE/BLUE | 20 ga | A12 |
| INPUT #3 (F G 5) | WHITE/BLACK | 20 ga | A13 |
| IPU GROUND | BLACK | 20 ga | A14 |
| DG1 TX | WHITE/BLACK | PLUG | A15 |
| WB1 COMPR1 | BROWN | 20 ga | A16 |
| WB1 VS-/IP- | BLACK | 20 ga | A17 |
| SENSOR GROUND OUT | BLACK/WHITE | 20 ga | A18 |
| COOLANT TEMP IN | BROWN | 20 ga | A19 |
| OIL PRESSURE | GREY | 20 ga | A20 |
| KNOCK #2 IN | BEIGE/RED | 20 ga | A21 |
| CAM INPUT (DIG & IPU) | PURPLE | 20 ga | A22 |
| MAP SENSOR SIGNAL | RED/BLACK | 20 ga | A23 |
| CAN LO | ORANGE | 20 ga | A24 |
| WB1 VS+ | RED | 20 ga | A25 |
| SENSOR +5V REF OUT | ORANGE | 20 ga | A26 |
| BYPASS OUT | BEIGE/BLACK | PLUG | A27 |
| TACHOMETER | BLUE/WHITE | 20 ga | A28 |
| KNOCK #1 INPUT | BEIGE/BLUE | 20 ga | A29 |
| CRANK INPUT (DIG & IPU) | PURPLE | 20 ga | A30 |
| FUEL PRESSURE | PURPLE | 20 ga | A31 |
| CAN HI | ORANGE/BLACK | 20 ga | A32 |
| WB1 IP+ | WHITE | 20 ga | A33 |
| WB1 HTR+ | ORANGE | 18 ga | A34 |

J1A

| DESCRIPTION | COLOR | WIRE GAUGE | PIN # |
|---|---|---|---|
| IAC A LO | PURPLE/BLUE | 20 ga | B1 |
| IAC A HI | PURPLE/YELLOW | 20 ga | B2 |
| PWM #4 OUT (HG) | GREY/GREEN | 20 ga | B3 |
| INJECTOR F | PURPLE | 20 ga | B4 |
| INJECTOR G | GREEN | 20 ga | B5 |
| INJECTOR H | ORANGE | 20 ga | B6 |
| INJECTOR E | GREY | 20 ga | B7 |
| IAC B LO | PURPLE/WHITE | 20 ga | B8 |
| IAC B HI | PURPLE/BLACK | 20 ga | B9 |
| PWM #3 OUT (HG) | GREY/BLACK | 20 ga | B10 |
| PWM #2 OUT (HG) | GREY/RED | 20 ga | B11 |
| PWM #1 OUT (HG) | GREY/YELLOW | 20 ga | B12 |
| INJECTOR D | BROWN | 20 ga | B13 |
| EST GROUND OUT | BLACK/YELLOW | 20 ga | B14 |
| EST B | GREEN/WHITE | 20 ga | B15 |
| EST D | ORANGE/WHITE | 20 ga | B16 |
| EST F | BLUE/WHITE | 20 ga | B17 |
| EST H | PINK/WHITE | 20 ga | B18 |
| INJECTOR A | BLACK | 20 ga | B19 |
| EST 12V OUT | RED | 20 ga | B20 |
| EST A | YELLOW/WHITE | 20 ga | B21 |
| EST C | GREY/WHITE | 20 ga | B22 |
| EST E | LIGHT BLUE/WHITE | 20 ga | B23 |
| EST G | LIGHT GREEN/WHITE | 20 ga | B24 |
| INJECTOR C | BLUE | 20 ga | B25 |
| INJECTOR B | YELLOW | 20 ga | B26 |

J1B