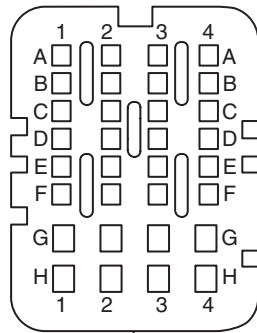


2.4L ECU Wiring Diagram 1

J01
ECU Harness Connector
(Black Face)

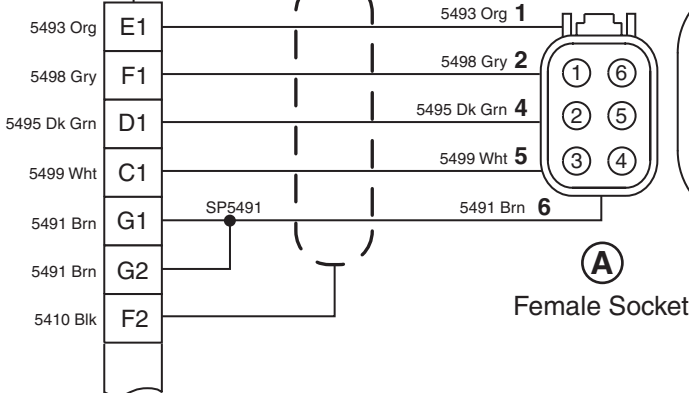


(A) Female Socket

(B) Unit Pump Harness

C01
Unit Pump
Connector

(C) Shield



(A)

Female Socket

(D) Male Pin

A—Female Socket
B—Unit Pump Harness
C—Shield
D—Male Pin

C01— Unit Pump Connector
J01— ECU Harness Connector
(Black Face)
J01-C1—[5499 White] Unit Pump
#2 Inject Pulse
J01-D1—[5495 Dark Green] Unit
Pump #4 Inject Pulse

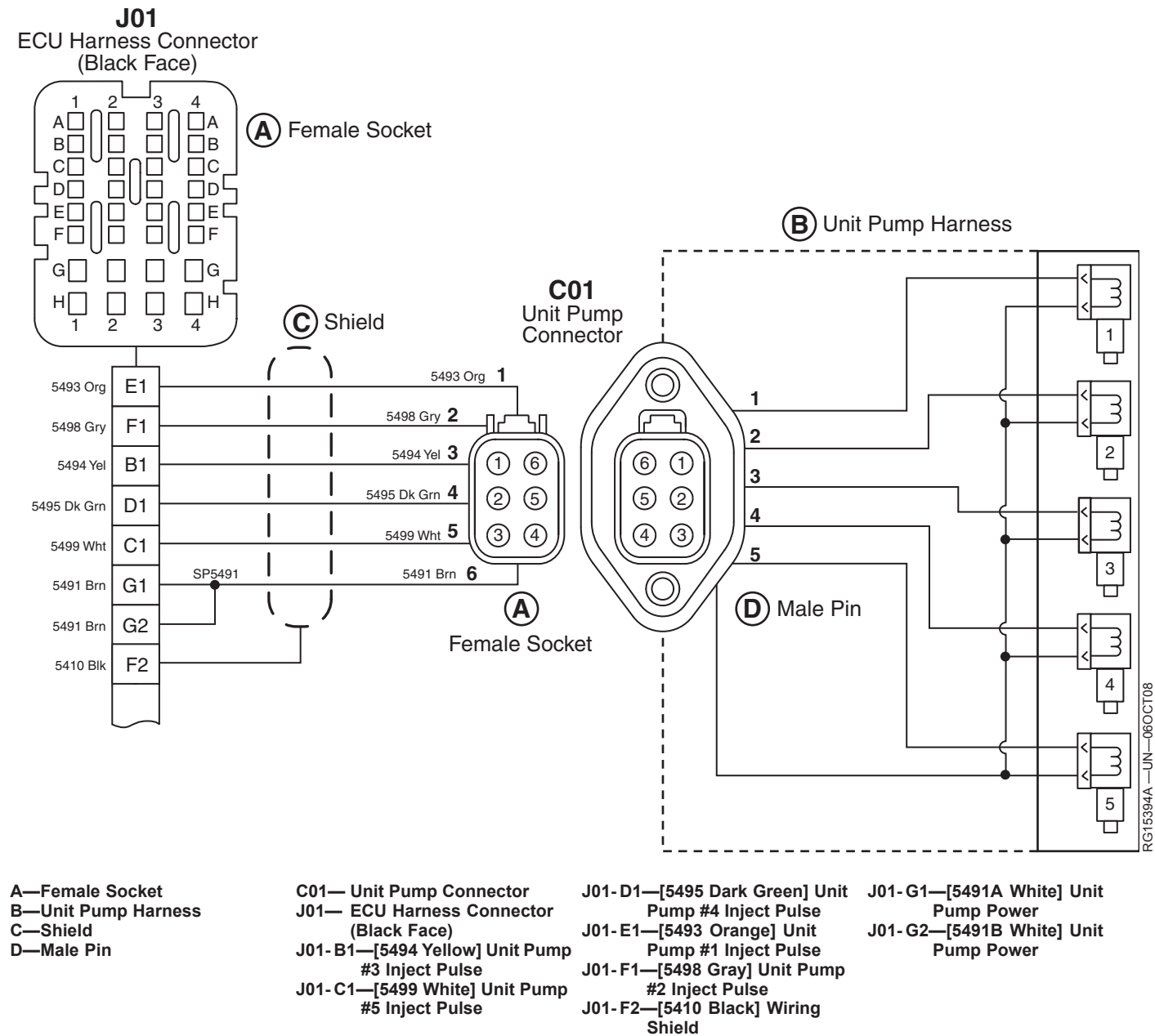
J01-E1—[5493 Orange] Unit
Pump #1 Inject Pulse
J01-F1—[5498 Gray] Unit Pump
#3 Inject Pulse
J01-F2—[5410 Black] Wiring
Shield
J01-G1—[5491A White] Unit
Pump Power

J01-G2—[5491B White] Unit
Pump Power

2.4L 12/24 Volt ECU Wiring Diagram 1

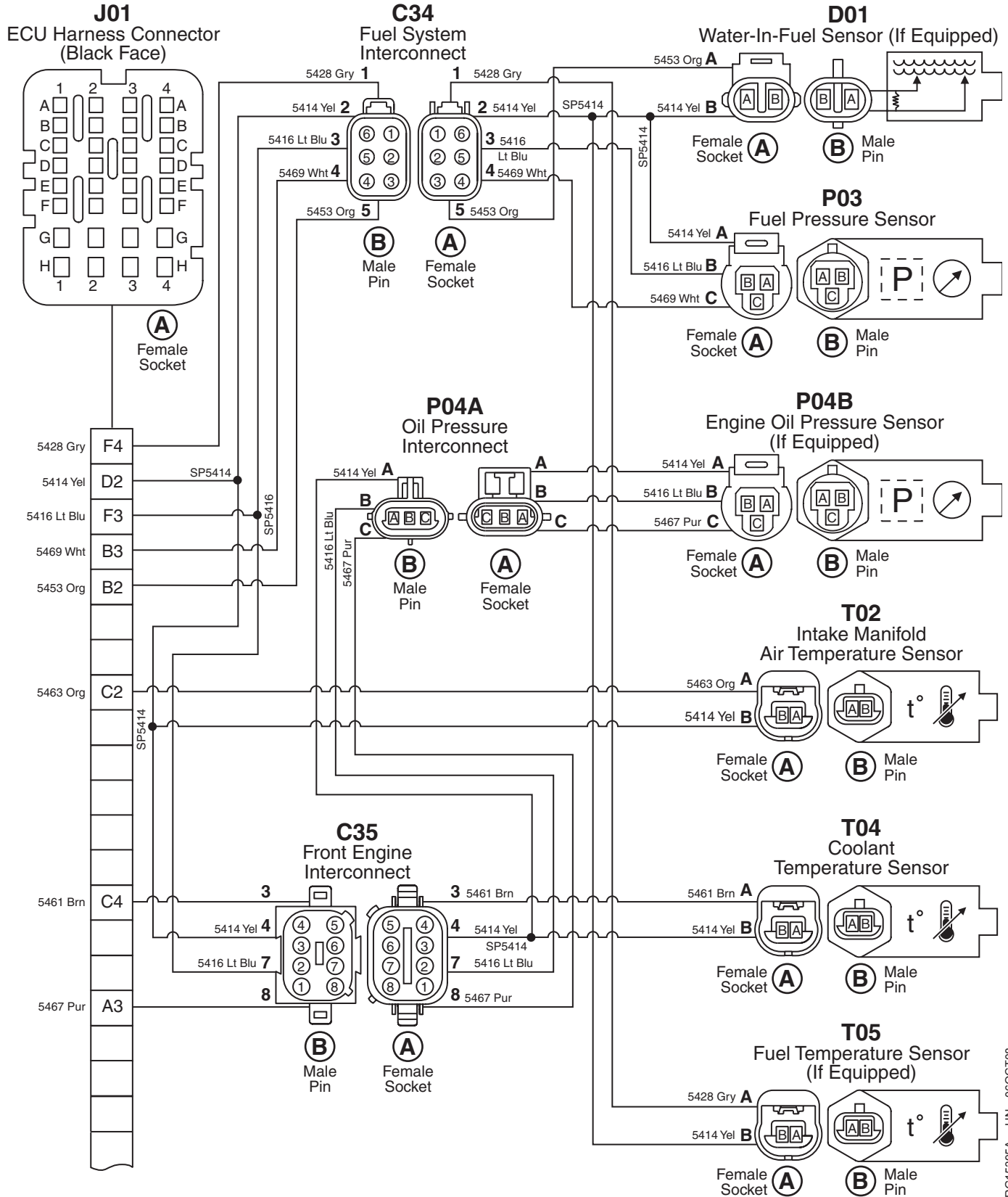
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3.0L ECU Wiring Diagram 2



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2.4L-3.0L ECU Wiring Diagram 3



2.4L-3.0L 12/24 Volt ECU Wiring Diagram 3

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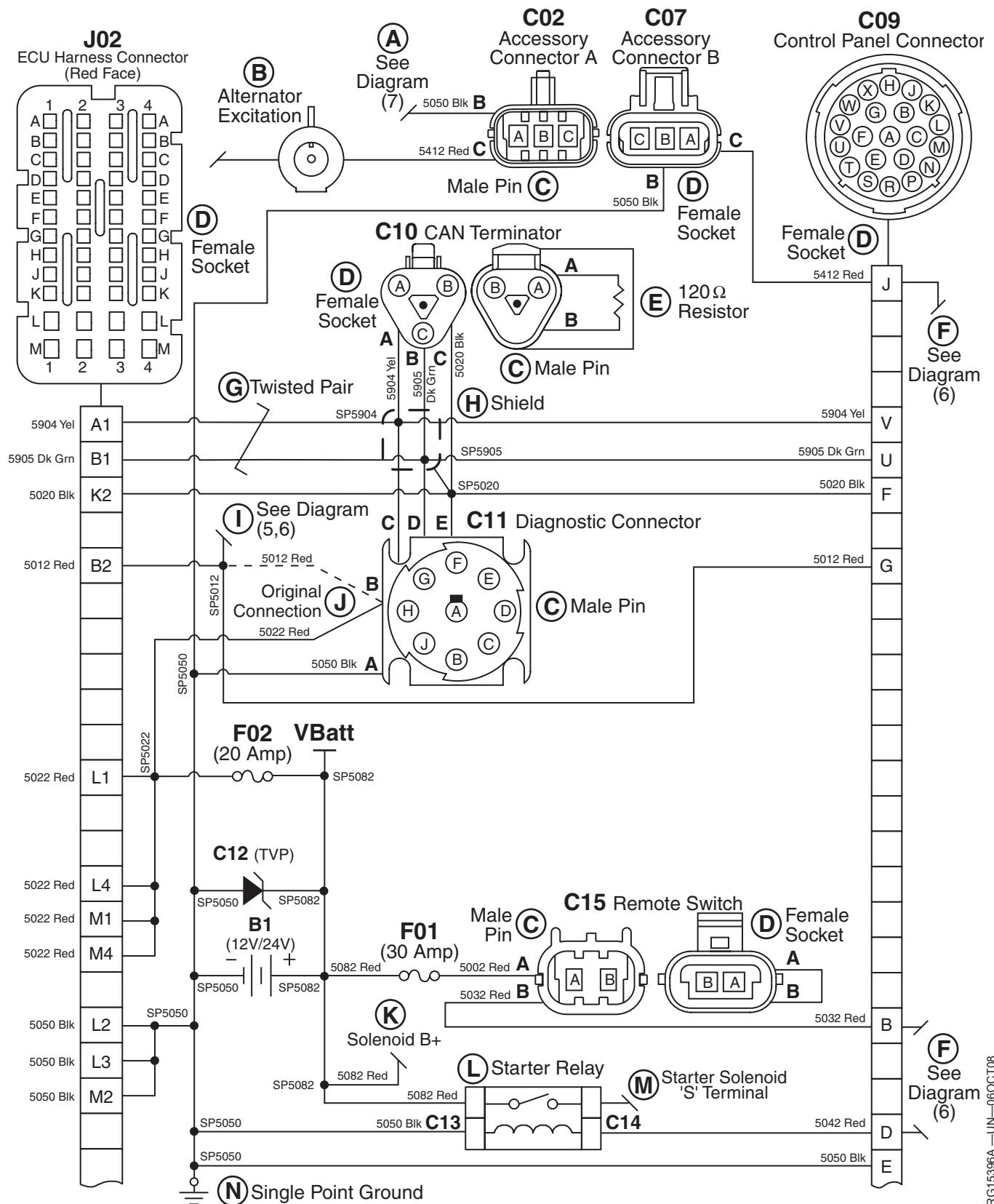
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Wiring Diagrams

A—Female Socket	J01— ECU Harness Connector (Black Face)	J01-C4—[5461 Brown] Coolant Temperature Signal	P04A— Oil Pressure Interconnect
B—Male Pin	J01-A3—[5467 Purple] Engine Oil Pressure Signal	J01-D2—[5414A Yellow] 5 Volt Power Supply #2A Return	P04B— Oil Pressure Sensor (Optional)
C34— Fuel System Interconnect	J01-B2—[5453 Orange] Water In Fuel Signal	J01-F3—[5416A Light Blue] 5 Volt Power Supply #2A Positive	T02— Intake Manifold Air Temperature Sensor
C35— Front Engine Interconnect	J01-B3—[5569 White] Fuel Pressure Signal	J01-F4—[5428 Gray] Fuel Temperature Signal	T04— Coolant Temperature Sensor
D01— Water-In-Fuel Sensor (Optional)	J01-C2—[5463 Orange] Intake Manifold Air Temperature Signal	P03— Fuel Pressure Sensor	T05— Fuel Temperature Sensor (Optional)

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2.4L/3.0L ECU Wiring Diagram 4



2.4L-3.0L 12/24 Volt ECU Wiring Diagram 4

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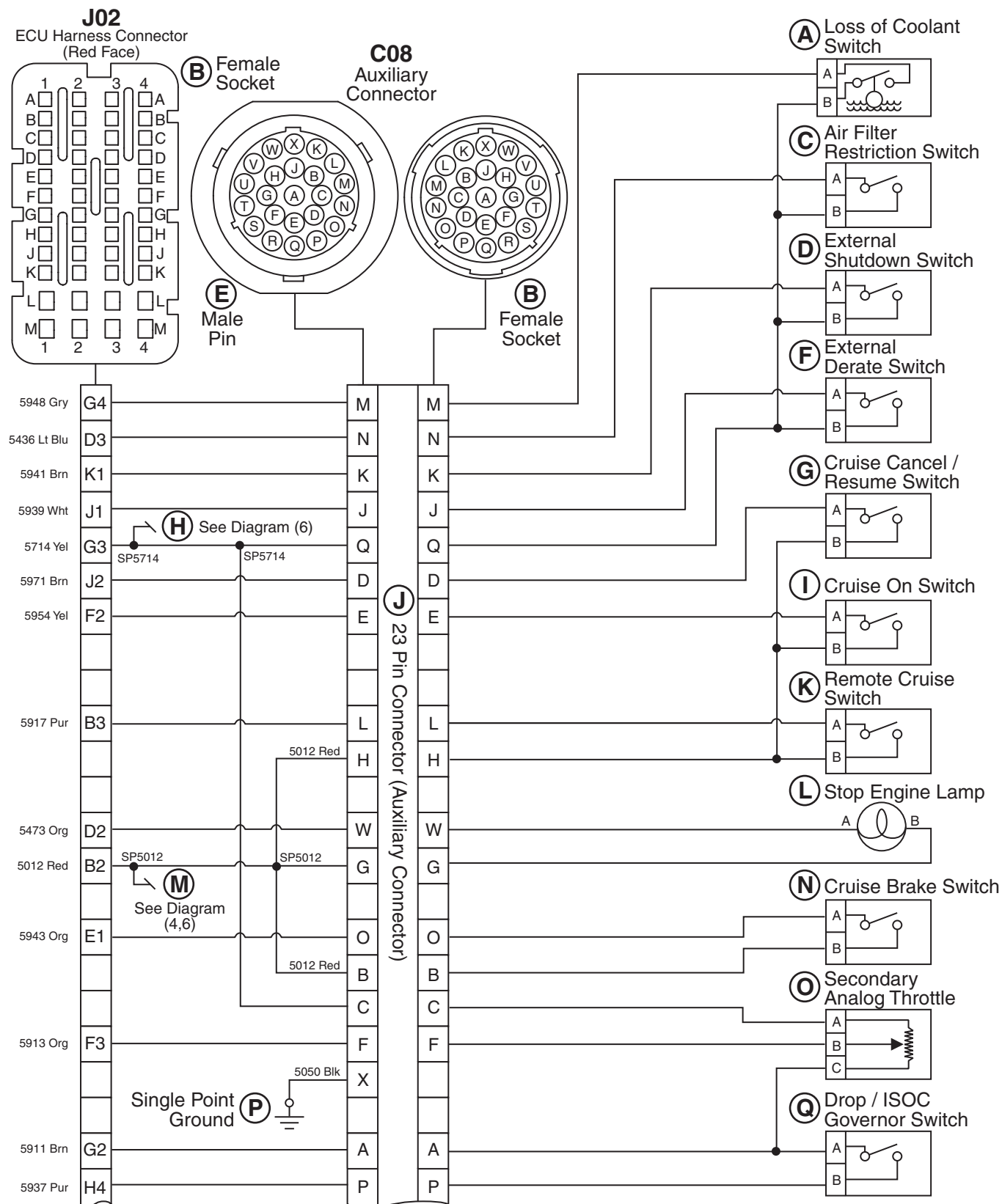
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A—See Diagram (7)	K—Solenoid B+	C11— Diagnostic Connector	J02-B2—[5012A Red] Ignition
B—Alternator Excitation	L—Starter Relay	C12— Transient Voltage	Key Start/Run Switch
C—Male Pin	M—Starter Solenoid 'S' Terminal	Protection (TVP)	J02-K2—[5020A Black] CAN
D—Female Socket	N—Single Point Ground	C13— Starter Relay Coil Return	Shield
E—120 Ω Resister	B1—12V/24V	C14— Starter Relay Coil Control	J02-L1—[5022A Red] Battery
F—See Diagram (6)	C02— Accessory Connector A	C15— Remote Switch	Positive
G—Twisted Pair	C06— Alternator Excitation	F01— 30 Amp	J02-L2—[5050A Black] Battery
H—Shield	Connector	F02— 20 Amp	Negative
I— See Diagram (5,6)	C07— Accessory Connector B	J02— ECU Harness Connector	J02-L3—[5050B Black] Battery
J—Original Connection. See	C09— Control Panel Connector	(Red Face)	Negative
Instruction for Update	C10— CAN Terminator	J02-A1—[5904A Yellow] CAN	J02-L4—[5022B Red] Battery
		High	Positive
		J02-B1—[5905A Dark Green] CAN	J02-M1—[5022C Red] Battery
		Low	Positive
			J02-M2—[5050C Black] Battery
			Negative
			J02-M4—[5022D Red] Battery
			Positive
			VBatt— Battery Positive

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2.4L-3.0L ECU Wiring Diagram 5



2.4L-3.0L 12/24 Volt ECU Wiring Diagram 5

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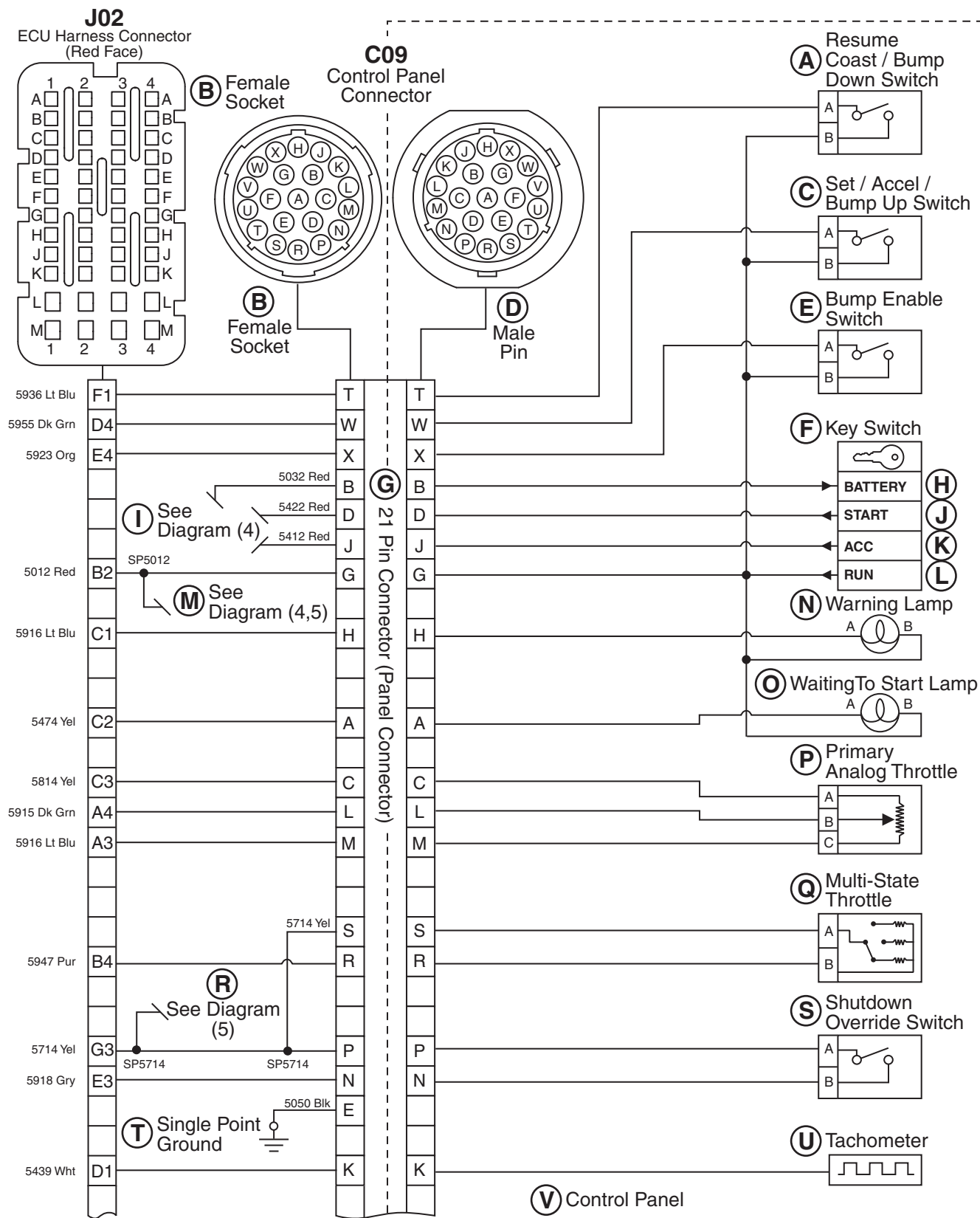
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Wiring Diagrams

A—Loss of Coolant Switch	J— 23 Pin Connector (Auxiliary Connector)	J02— ECU Harness Connector (Red Face)	J02-G3—[5714A Yellow] 5 Volt Power Supply #2B Return
B—Air Filter Restriction Switch	K—Remote Cruise Switch	J02-B2—[5012A Red] Ignition Key Start/Run Switch	J02-G4—[5948 Gray] Low Coolant Level Switch
C—External Shutdown Switch	L—Stop Engine Lamp	J02-B3—[5917 Purple] Remote Cruise On/Off Switch	J02-H4—[5937 Purple] Droop/Isochronous Governor Switch
D—Female Socket	M—See Diagram (4,6)	J02-D2—[5473 Orange] Stop Engine Lamp Return	J02-J1—[5939 White] External Derate Switch
E—Male Pin	N—Cruise Brake Switch	J02-D3—[5436 Light Blue] Air Filter Restriction Switch	J02-J2—[5971 Brown] Cruise Cancel/Resume Switch
F—External Derate Switch	O—Secondary Analog Throttle	J02-E1—[5943 Orange] Cruise Brake Switch	J02-K1—[5941 Brown] External Shutdown Switch
G—Cruise Cancel/Resume Switch	P—Single Point Ground	J02-F2—[5954 Yellow] Cruise On/Off Switch	
H—See Diagram (6)	Q—Droop/Isoc (Isochronous) Governor Switch	J02-F3—[5913 Orange] Secondary Analog Throttle Signal	
I— Cruise On Switch	C08— Auxiliary Connector	J02-G2—[5911 Brown] 5 Volt Power Supply #2B Positive	

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2.4L-3.0L ECU Wiring Diagram 6



2.4L-3.0L 12/24 Volt ECU Wiring Diagram 6

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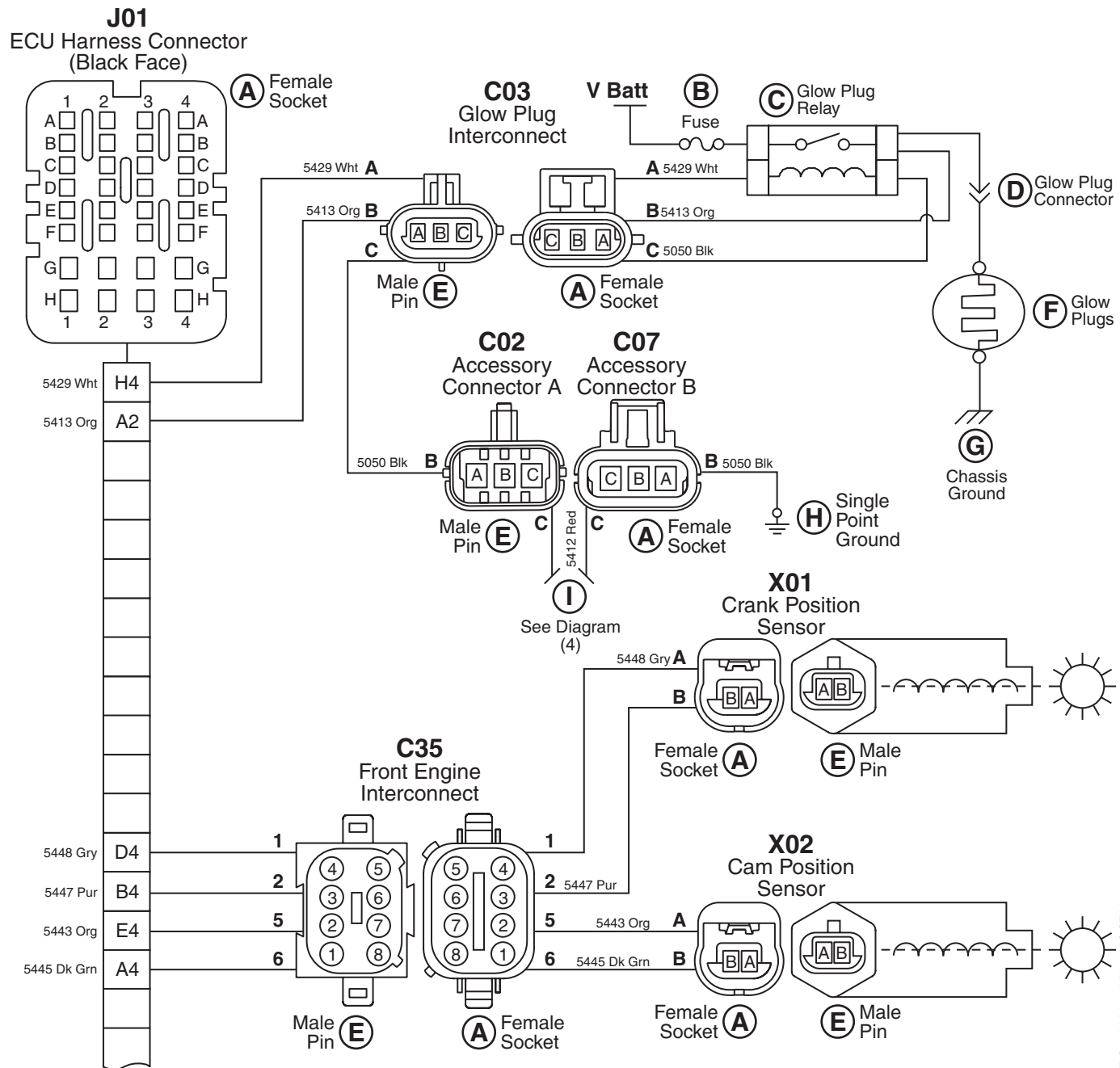
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Wiring Diagrams

A—Resume Coast/Bump Down Switch	K—Accessory	U—Tachometer	J02-C3—[5814 Yellow] 5 Volt Power Supply #1B Return
B—Set Accel/Bump Up Switch	L—Run	V—Control Panel	J02-D1—[5439 White] Tachometer Pulse Output
C—Female Socket	M—See Diagram (4,5)	C09— Control Panel Connector	J02-D4—[5955 Dark green] Set/Accel/Bump Up Switch
D—Male Pin	N—Warning Lamp	J02— ECU Harness Connector (Red Face)	J02-E3—[5913 Orange] Secondary Analog Throttle Signal
E—Bump Enable Switch	O—Wait to Start Lamp	J02-A3—[5616 Light Blue] 5 Volt Power Supply #1B Positive	J02-E4—[5923 Orange] Bump Enable Switch
F—Key Switch	P—Primary Analog Throttle	J02-A4—[5915 Dark Green] Primary Analog Throttle Signal	J02-F1—[5936 Light Blue] Resume Coast/Bump Down Switch
G—21 Pin Connector (Panel Connector)	Q—Multi-State Throttle	J02-B2—[5012A Red] Ignition Key Start/Run Switch	J02-G3—[5714A Yellow] 5 Volt Power Supply #2B Return
H—Battery	R—See Diagram (5)	J02-B4—[5947 Purple] Multit-state Throttle Signal	
I— See Diagram (4)	S—Shutdown Override Switch	J02-C1—[5916 Light Blue] Warning Lamp Drive Return	
J— Start	T—Single Point Ground	J02-C2—[5474 Yellow] Wait To Start Lamp Drive Return	

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2.4L-3.0L ECU Wiring Diagram 7



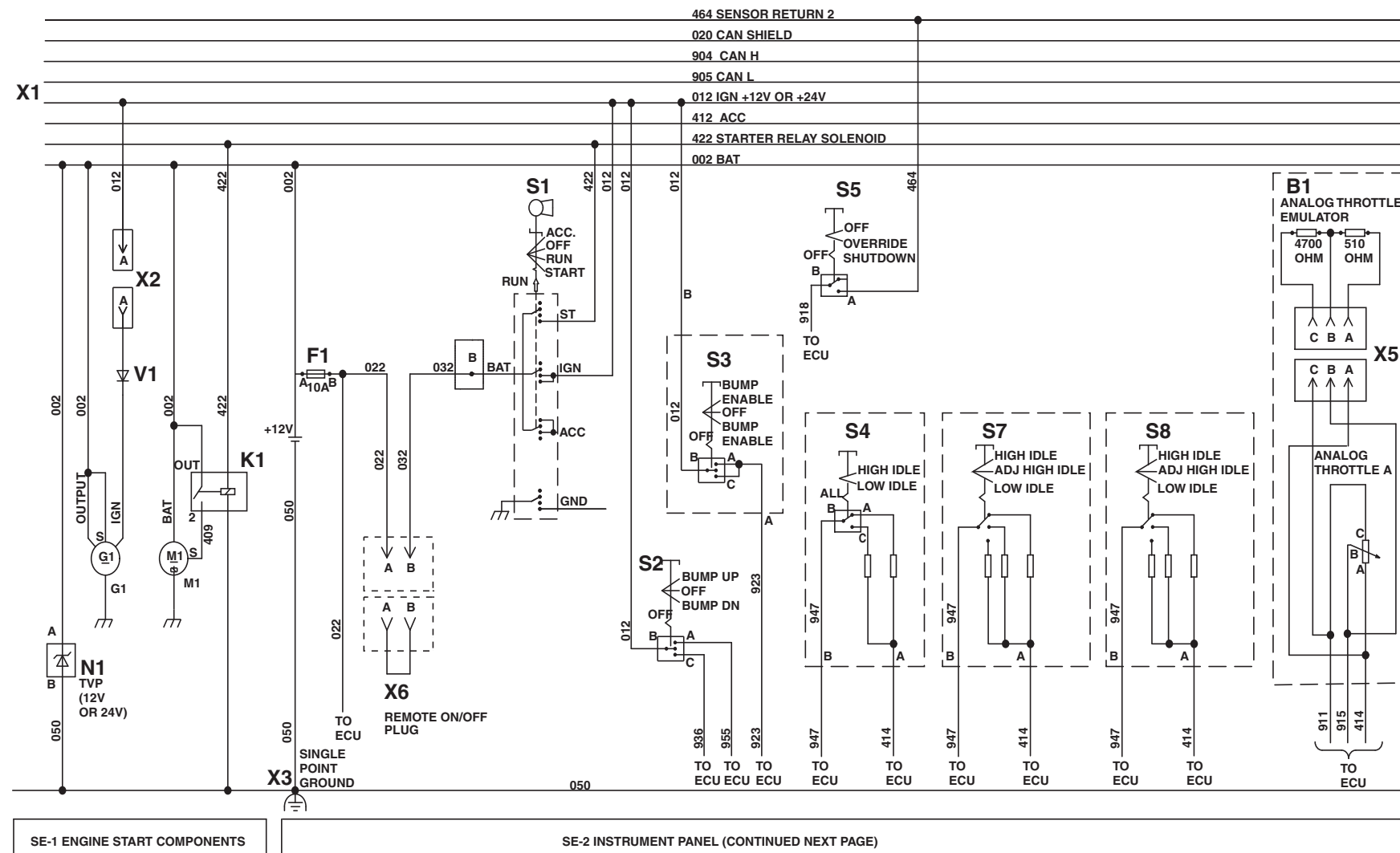
2.4L-3.0L 12/24 Volt ECU Wiring Diagram 7

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OEM Engine-Instrument Panel Components Wiring Diagram

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