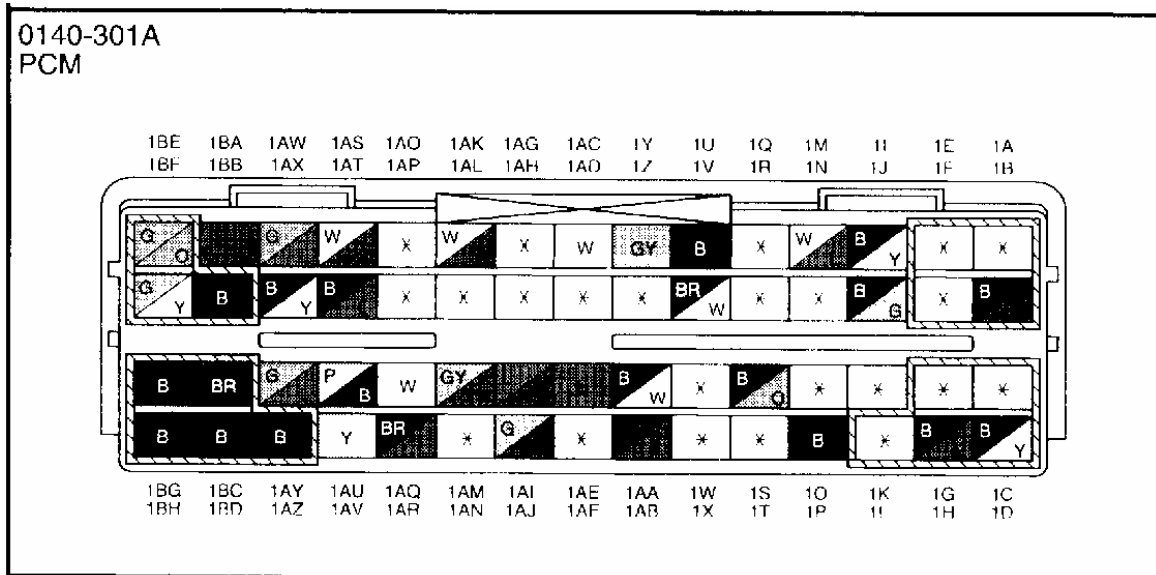


2007 Mazdaspeed3 ECU Connector Pin-out

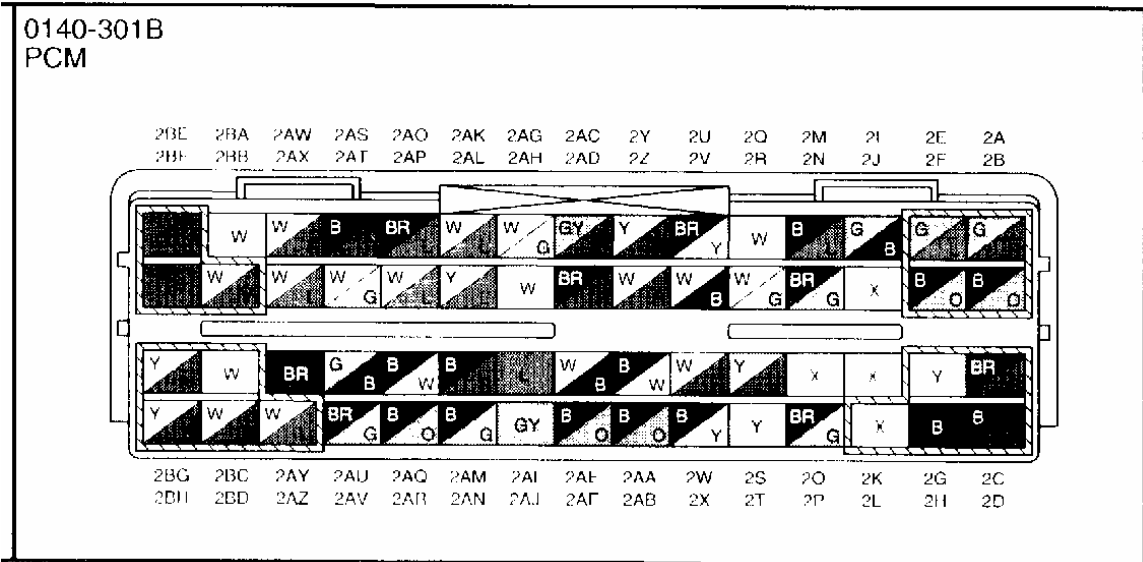
Connector A



Pin#	Color	Function
1A	Unused	Unused
1B	Black/Red	Starter Interlock Switch
1C	Unused	Unused
1D	Black/Yellow	Clutch Pedal Position Switch
1E	Unused	Unused
1F	Unused	Unused
1G	Unused	Unused
1H	Black/Blue	Fuel Pump Relay
1I	Black/Yellow	Air Conditioning relay
1J	Black/Green	Refrigerant Pressure Switch
1K	Unused	Unused
1L	Unused	Unused
1M	White/Blue	MAF sensor/Intake Air Temperature sensor
1N	Unused	Unused
1O	Unused	Unused
1P	Black	MAF sensor/Intake Air Temperature sensor
1Q	Unused	Unused
1R	Unused	Unused
1S	Black/Orange	Neutral Switch
1T	Unused	Unused
1U	Black	Accelerator Pedal Position sensor

1V	Brown/White	Evap System Leak Detection Pump coil
1W	Unused	Unused
1X	Unused	Unused
1Y	Grey	Accelerator Pedal Position sensor
1Z	Unused	Unused
1AA	Black/White	Fuel Pump Speed Control Relay
1AB	Red/Blue	Brake Switch
1AC	White	Accelerator Pedal Position sensor
1AD	Unused	Unused
1AE	Blue	Fan Control Module
1AF	Unused	Unused
1AG	Unused	Unused
1AH	Unused	Unused
1AI	Blue/Red	HS CAN_L Data Link Connector
1AJ	Green/Black	Accelerator Pedal Position sensor
1AK	White/Red	MAF sensor/Intake Air Temperature sensor
1AL	Unused	Unused
1AM	Grey/Red	HS CAN_H Data Link Connector
1AN	Unused	Unused
1AO	Unused	Unused
1AP	Unused	Unused
1AQ	White	Cruise Control Switch
1AR	Brown/Blue	MAF sensor/Intake Air Temperature sensor
1AS	White/Violet	Evap System Leak Detection Pump motor
1AT	Black/Blue	Main relay control
1AU	Pink/Black	Refrigerant Pressure Switch
1AV	Yellow	Accelerator Pedal Position sensor
1AW	Green/Blue	Fuel Injector Relay control
1AX	Black/Yellow	Drive By Wire Relay control
1AY	Green/Blue	+12V from ignition switch, PJB F69, 20A
1AZ	Black	Ground
1BA	Red	+12V from fuse F30, 10A
1BB	Black	Ground
1BC	Brown	Rear Oxygen Sensor ground
1BD	Black	Ground
1BE	Green/Orange	Main relay out fuse F36, 10A
1BF	Green/Yellow	Power from Drive By Wire Relay
1BG	Black	Ground
1BH	Black	Ground

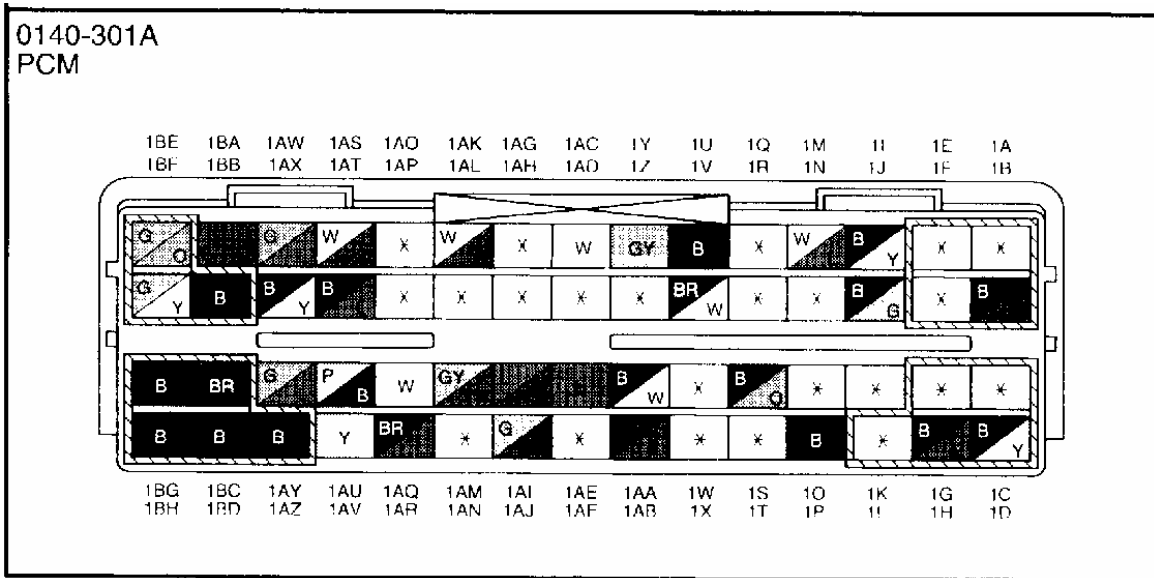
Connector B



Pin#	Color	Function
2A	Green/Red	Throttle Body motor
2B	Black/Orange	Throttle Body motor
2C	Brown/Red	Front O2 sensor
2D	Black/Red	Rear Oxygen Sensor Heater
2E	Green/Blue	Main relay out fuse F36, 10A
2F	Black/Orange	High Pressure Fuel Pump
2G	Yellow	High Pressure Fuel Pump
2H	Black	Ground
2I	Green/Black	Fuel Pressure sensor reference voltage
2J	Unused	Unused
2K	Unused	Unused
2L	Unused	Unused
2M	Black/Blue	Front O2 sensor
2N	Brown/Green	MAP sensor/Boost Air Temp sensor
2O	Unused	Unused
2P	Brown/Green	Crank Position sensor ground
2Q	White	Rear Oxygen sensor signal
2R	White/Green	Fuel Pressure sensor
2S	Yellow/Violet	Camshaft Position sensor
2T	Yellow	Power Steering Pressure Switch
2U	Brown/Yellow	Knock sensor
2V	White/Black	Knock sensor

2W	White/Red	Crank Position sensor
2X	Black/Yellow	Shield for wires to Front O2 sensor, Throttle Body, Crank Position sensor, Knock sensor, and Cam position sensor
2Y	Yellow/Red	Front O2 sensor
2Z	White/Red	Front O2 sensor
2AA	Black/White	Wastegate Control Solenoid Valve
2AB	Black/Orange	Purge Solenoid Valve
2AC	Grey/Red	Front O2 sensor
2AD	Brown/Red	Front O2 sensor
2AE	White/Black	Variable Swirl Shutter Valve Switch
2AF	Black/Orange	Oil Control Valve (Variable Valve Timing)
2AG	White/Green	MAP sensor/Boost Air Temp sensor
2AH	White	Engine Coolant Temperature sensor
2AI	Blue	Generator
2AJ	Grey	Generator
2AK	White/Blue	Throttle Body position sensor
2AL	Yellow/Blue	Throttle Body position sensor
2AM	Black/Red	EGR Valve
2AN	Black/Green	EGR Valve
2AO	Brown/Blue	Throttle Body position sensor
2AP	White/Blue	Throttle Body position sensor
2AQ	Black/White	EGR Valve
2AR	Black/Orange	EGR Valve
2AS	Black/Red	Variable Swirl Solenoid Valve
2AT	White/Green	Ignition Coil #4
2AU	Green/Black	MAP sensor/Boost Air Temp sensor
2AV	Brown/Green	MAP sensor/Boost Air Temp sensor
2AW	White/Red	Ignition Coil #2
2AX	White/Blue	Ignition Coil #3
2AY	Brown	Engine Coolant Temperature sensor ground
2AZ	White/Blue	Fuel Injector #4
2BA	White	Ignition Coil #1
2BB	White/Violet	Fuel Injector #1
2BC	White	Fuel Injector #2
2BD	White/Red	Fuel Injector #3
2BE	Red	Power from Fuel Injector Relay
2BF	Red	Power from Fuel Injector Relay
2BG	Yellow/Violet	Fuel Injector #1 & #4 Common
2BH	Yellow/Red	Fuel Injector #2 & #3 Common

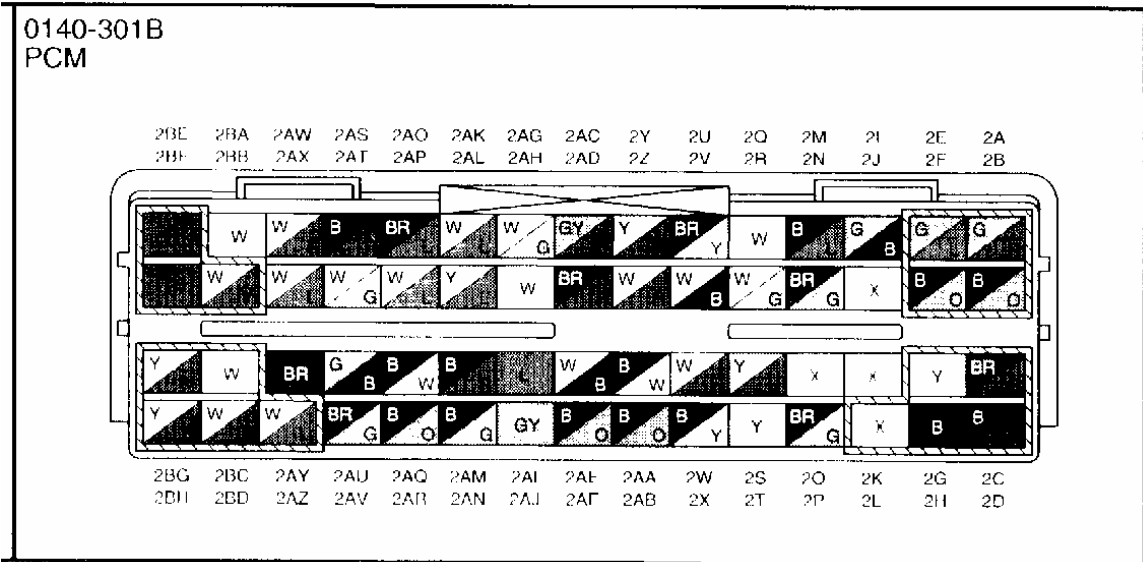
Connector A



Pin#	Color	Function
1A	Unused	Unused
1B	Black/Red	Starter Interlock Switch
1C	Unused	Unused
1D	Black/Yellow	Clutch Pedal Position Switch
1E	Unused	Unused
1F	Unused	Unused
1G	Unused	Unused
1H	Black/Blue	Fuel Pump Relay
1I	Black/Yellow	Air Conditioning relay
1J	Black/Green	Refrigerant Pressure Switch
1K	Unused	Unused
1L	Unused	Unused
1M	White/Blue	MAF sensor/Intake Air Temperature sensor
1N	Unused	Unused
1O	Unused	Unused
1P	Black	MAF sensor/Intake Air Temperature sensor
1Q	Unused	Unused
1R	Unused	Unused
1S	Black/Orange	Neutral Switch
1T	Unused	Unused
1U	Black	Accelerator Pedal Position sensor
1V	Brown/White	Evap System Leak Detection Pump coil

1W	Unused	Unused
1X	Unused	Unused
1Y	Grey	Accelerator Pedal Position sensor
1Z	Unused	Unused
1AA	Black/White	Fuel Pump Speed Control Relay
1AB	Red/Blue	Brake Switch
1AC	White	Accelerator Pedal Position sensor
1AD	Unused	Unused
1AE	Blue	Fan Control Module
1AF	Unused	Unused
1AG	Unused	Unused
1AH	Unused	Unused
1AI	Blue/Red	HS CAN_L Data Link Connector
1AJ	Green/Black	Accelerator Pedal Position sensor
1AK	White/Red	MAF sensor/Intake Air Temperature sensor
1AL	Unused	Unused
1AM	Grey/Red	HS CAN_H Data Link Connector
1AN	Unused	Unused
1AO	Unused	Unused
1AP	Unused	Unused
1AQ	White	Cruise Control Switch
1AR	Brown/Blue	MAF sensor/Intake Air Temperature sensor
1AS	White/Violet	Evap System Leak Detection Pump motor
1AT	Black/Blue	Main relay control
1AU	Pink/Black	Refrigerant Pressure Switch
1AV	Yellow	Accelerator Pedal Position sensor
1AW	Green/Blue	Fuel Injector Relay control
1AX	Black/Yellow	Drive By Wire Relay control
1AY	Green/Blue	+12V from ignition switch, PJB F69, 20A
1AZ	Black	Ground
1BA	Red	+12V from fuse F30, 10A
1BB	Black	Ground
1BC	Brown	Rear Oxygen Sensor ground
1BD	Black	Ground
1BE	Green/Orange	Main relay out fuse F36, 10A
1BF	Green/Yellow	Power from Drive By Wire Relay
1BG	Black	Ground
1BH	Black	Ground

Connector B



Pin#	Color	Function
2A	Green/Red	Throttle Body motor
2B	Black/Orange	Throttle Body motor
2C	Brown/Red	Front O2 sensor
2D	Black/Red	Rear Oxygen Sensor Heater
2E	Green/Blue	Main relay out fuse F36, 10A
2F	Black/Orange	High Pressure Fuel Pump
2G	Yellow	High Pressure Fuel Pump
2H	Black	Ground
2I	Green/Black	Fuel Pressure sensor reference voltage
2J	Unused	Unused
2K	Unused	Unused
2L	Unused	Unused
2M	Black/Blue	Front O2 sensor
2N	Brown/Green	MAP sensor/Boost Air Temp sensor
2O	Unused	Unused
2P	Brown/Green	Crank Position sensor ground
2Q	White	Rear Oxygen sensor signal
2R	White/Green	Fuel Pressure sensor
2S	Yellow/Violet	Camshaft Position sensor
2T	Yellow	Power Steering Pressure Switch
2U	Brown/Yellow	Knock sensor
2V	White/Black	Knock sensor

2W	White/Red	Crank Position sensor
2X	Black/Yellow	Shield for wires to Front O2 sensor, Throttle Body, Crank Position sensor, Knock sensor, and Cam position sensor
2Y	Yellow/Red	Front O2 sensor
2Z	White/Red	Front O2 sensor
2AA	Black/White	Wastegate Control Solenoid Valve
2AB	Black/Orange	Purge Solenoid Valve
2AC	Grey/Red	Front O2 sensor
2AD	Brown/Red	Front O2 sensor
2AE	White/Black	Variable Swirl Shutter Valve Switch
2AF	Black/Orange	Oil Control Valve (Variable Valve Timing)
2AG	White/Green	MAP sensor/Boost Air Temp sensor
2AH	White	Engine Coolant Temperature sensor
2AI	Blue	Generator
2AJ	Grey	Generator
2AK	White/Blue	Throttle Body position sensor
2AL	Yellow/Blue	Throttle Body position sensor
2AM	Black/Red	EGR Valve
2AN	Black/Green	EGR Valve
2AO	Brown/Blue	Throttle Body position sensor
2AP	White/Blue	Throttle Body position sensor
2AQ	Black/White	EGR Valve
2AR	Black/Orange	EGR Valve
2AS	Black/Red	Variable Swirl Solenoid Valve
2AT	White/Green	Ignition Coil #4
2AU	Green/Black	MAP sensor/Boost Air Temp sensor
2AV	Brown/Green	MAP sensor/Boost Air Temp sensor
2AW	White/Red	Ignition Coil #2
2AX	White/Blue	Ignition Coil #3
2AY	Brown	Engine Coolant Temperature sensor ground
2AZ	White/Blue	Fuel Injector #4
2BA	White	Ignition Coil #1
2BB	White/Violet	Fuel Injector #1
2BC	White	Fuel Injector #2
2BD	White/Red	Fuel Injector #3
2BE	Red	Power from Fuel Injector Relay
2BF	Red	Power from Fuel Injector Relay
2BG	Yellow/Violet	Fuel Injector #1 & #4 Common
2BH	Yellow/Red	Fuel Injector #2 & #3 Common