

**M01 Blower Motor**

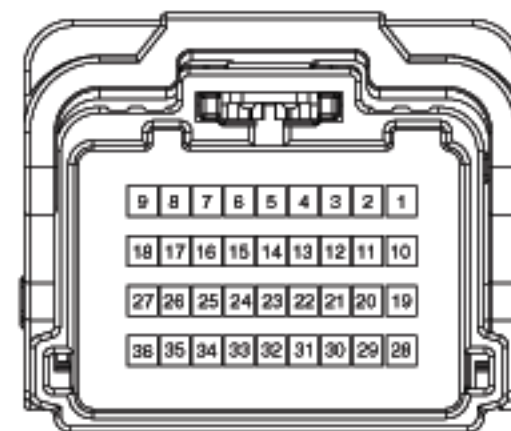
- 2 Female / White (KET\_250\_02F\_W)

1. R E/R Fuse & Relay Box -  
Blower Relay2. Auto A/C  
P FET (Field Effect Transistor)  
Manual A/C  
L Blower Switch, Blower Resistor

	Abbr.	Name	
	R	Red	
	O	Orange	
	Y	Yellow	
	G	Green	
	L	Blue	
	Br	Brown	
	B	Black	
	Gr	Gray	
	W	White	

**M02 SRS Control Module**

- 36 Female / Green (JST\_WIC\_36F\_G)



1. L	VP Junction Box - A/BAG 10A	19. B	Ground (GM04)
2. -	-	20. -	-
3. Gr	Instrument Cluster (Air Bag IND.)	21. G	BCM (Crash Unlock)
4. L/O	Driver Air Bag - High (1st Stage)	22. G/B	Driver Air Bag - High (2nd Stage)
5. R	Driver Air Bag - Low (1st Stage)	23. L	Driver Air Bag - Low (2nd Stage)
6. -	-	24. -	-
7. -	-	25. -	-
8. Br	Driver FIS High	26. L	Passenger FIS High
9. G	C-CAN High	27. -	-
10. -	-	28. -	-
11. -	-	29. -	-
12. L	Telltale Lamp	30. -	-
13. L	Passenger Air Bag - High (1st Stage)	31. G	Passenger Air Bag - High (2nd Stage)
14. Br	Passenger Air Bag - Low (1st Stage)	32. W	Passenger Air Bag - Low (2nd Stage)
15. -	-	33. -	-
16. -	-	34. -	-
17. W	Driver FIS Low	35. O	Passenger FIS Low
18. O	C-CAN Low	36. -	-

**M03 Evaporator Sensor**

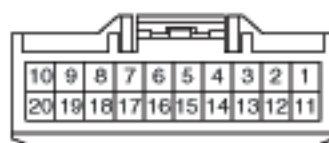
- 2 Female / White (AMP\_070\_02F\_W)



- |  |   |
|--|---|
| 1. Auto A/C<br>W A/C Control Module (Sensor +)<br>Manual A/C<br>Br A/C Control Module (Sensor +) | 2. Gr A/C Control Module<br>(Sensor Ground) |
|--|---|

**M04-A ICM Relay Box**

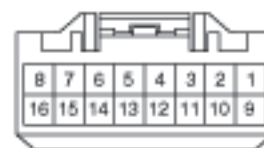
- 20 Female / White (AMP\_090III\_20F\_W)



- |  |   |
|--|---|
| 1. Br Rear Wiper Relay (Rear Wiper Motor)                                  | 11. L Rear Wiper Relay<br>(IP Junction Box - WIPER RR 15A)      |
| 2. W/B Rear Wiper Relay<br>(IPS Control Module)                            | 12. W Rear Wiper Relay<br>(Rear Wiper Motor)                    |
| 3. G DBC Relay (ESC Module,<br>High-Mounted Stop Lamp,<br>Stop Lamp LH/RH) | 13. - -   |
| 4. - -   | 14. - -   |
| 5. W/B DBC Relay (ESC Module)  | 15. B Two Turn Unlock Relay<br>(Ground (GM02))                  |
| 6. Gr DBC Relay<br>(IP Junction Box - MODULE 1 10A)                        | 16. Y/B Two Turn Unlock Relay<br>(IPS Control Module)           |
| 7. G DBC Relay (Stop Lamp Switch)  | 17. Br Two Turn Unlock Relay<br>(IP Junction Box - DR LOCK 15A) |
| 8. L DBC Relay<br>(E/R Fuse & Relay Box -<br>STOP LP 10A)                  | 18. G Two Turn Unlock Relay<br>(Door Lock Actuator)             |
| 9. - -   | 19. - -   |
| 10. - -  | 20. - -   |

**M04-B ICM Relay Box**

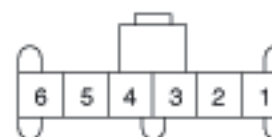
- 16 Female / White (AMP\_090III\_16F\_W)



- |   |         |
|---|---------|
| 1. - -  | 9. - -  |
| 2. - -  | 10. - - |
| 3. - -  | 11. - - |
| 4. Br Flasher Sound Relay<br>(IP Junction Box - HAZARD 15A) | 12. - - |
| 5. Y Flasher Sound Relay (BCM)                              | 13. - - |
| 6. - -  | 14. - - |
| 7. - -  | 15. - - |
| 8. - -  | 16. - - |

**M05 Incar Sensor (Auto A/C)**

- 6 Female / White (KET\_91A\_06F\_W)



- |  |                                    |
|--|------------------------------------|
| 1. - -                                   | 4. R A/C Control Module (Sensor +) |
| 2. Gr A/C Control Module (Sensor Ground) | 5. - -                             |
| 3. - -                                   | 6. - -                             |

**M07 Intake Actuator**

- 7 Female / White (KUM\_CDR\_07F\_W)



- |   |                                       |
|---|---------------------------------------|
| 1. - -  | 5. Br A/C Control Module (Vref)       |
| 2. - -  | 6. Gr A/C Control Module (F/B)        |
| 3. Auto A/C - Br / Manual A/C - B<br>A/C Control Module (FRE) | 7. Gr A/C Control Module (Sensor GND) |
| 4. P A/C Control Module (REC)                                 |                                       |

**M09 Ignition Key ILL. & Door Warning Switch (W/O Smart Key)**

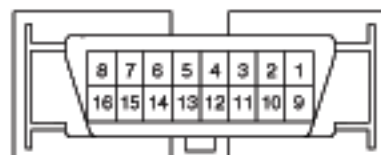
- 6 Male / White (KET\_090II\_06M\_W)



1. W	Antenna (-)	4. P	BCM - Switch Input
2. Br	Antenna (+)	5. G	BCM - Key Hole ILL.
3. B	Ground (GM01)	6. G	I/P Junction Box - ROOM LP 10A

**M10 Data Link Connector**

- 16 Female / Black (MLX\_OBDII\_16F\_B\_SIN)



1. -	-	9. G	I/P Junction Box - ROOM LP 10A
2. -	-	10. -	-
3. G	C-CAN High	11. O	C-CAN Low
4. B	Ground (GM01)	12. -	-
5. B	Ground (GM01)	13. W	Body K-Line
6. Br	Vehicle Speed Signal	14. -	-
7. -	-	15. -	-
8. -	-	16. -	-

**M11 Mode Actuator**

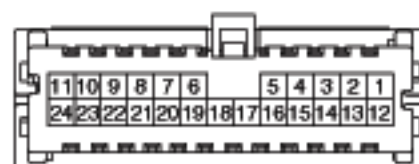
- 7 Female / White (KUM\_CDR\_07F\_W)



1. -	-	5. Gr	A/C Control Module (Sensor GND)
2. -	-	6. G	A/C Control Module (F/B)
3. L	A/C Control Module (DEF)	7. Br	A/C Control Module (Vref)
4. R	A/C Control Module (VENT)		

**M13-A BCM**

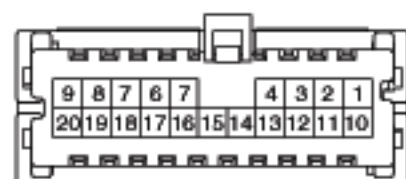
- 24 Female / White (KET\_040III\_24F\_W)



1. R	I/P Junction Box - ROOM LP 10A	13. L/O	I/P Junction Box - AUDIO 2 10A
2. Br	I/P Junction Box - MODULE 5 7.5A	14. L	Rear Washer Switch
3. G	I/P Junction Box - MODULE 2 10A	15. G/B	Rear Wiper Switch
4. W	Turn Signal Switch LH	16. O	Rear Wiper - INT.
5. P	Turn Signal Switch RH	17. Br	Front Washer Switch
6. Br/B	Back-Up Signal	18. W/B	Front Wiper - INT.
7. G	SRS (Crash Unlock)	19. P	Front Wiper - Mist
8. R	Auto Light Sensor Power	20. Y/B	Front Wiper - INT. (Time)
9. -	-	21. P	Door Warning Switch - Input
10. -	-	22. Y	Tail Lamp Switch
11. Y	Hazard Switch	23. G/B	Key Inter Lock Switch
12. G	Alternator	24. B	Ground (GM01)

**M13-B BCM**

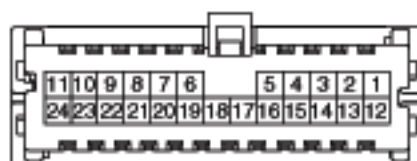
- 20 Female / White (KET\_040III\_20F\_W)



1. -	-	11. Y	Auto Light Switch
2. L	Head Lamp Switch	12. O	Front Fog Lamp Switch
3. P	Head Lamp High Switch	13. -	-
4. -	-	14. W	Front Wiper Deicer Switch Input
5. W	Body K-Line	15. W	Rear Defogger Switch Input
6. -	-	16. -	-
7. -	-	17. -	-
8. L	B-CAN High	18. -	-
9. R	B-CAN Low	19. R	Auto Light Sensor Signal
10. W	Auto Light Ground	20. B	Head Lamp Signal

**M13-C BCM**

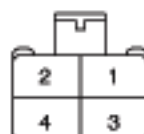
- 24 Female / Gray (KET\_040III\_24F\_GR\_B)



1. G	Safety Power Window	13. -	-
2. R/O	Security IND.	14. -	-
3. G	Door Unlock Signal	15. -	-
4. G/B	Key Solenoid	16. -	-
5. Br	Room Lamp Control	17. G	Key Hole ILL. Control
6. Gr	Turn/Hazard Lamp Output - FL	18. -	-
7. Y/B	Turn/Hazard Lamp Output - FR	19. O	A/V Tail Signal
8. W	Turn/Hazard Lamp Output - RL	20. Y	Flasher Sound Relay
9. P	Turn/Hazard Lamp Output - RR	21. O/B	Front Wiper Relay
10. Br	I/P Junction Box - HAZARD 15A	22. -	-
11. Br	I/P Junction Box - HAZARD 15A	23. -	-
12. B	Ground (GM01)	24. -	-

**M14 FET (Field Effect Transistor) (Auto A/C)**

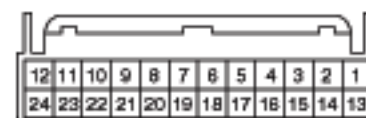
- 4 Female / Black (KET\_250\_04F\_B)



1. P	Blower Motor	3. B	Ground (GM02)
2. R	Drain	4. WB	Gate

**M15-A Instrument Cluster**

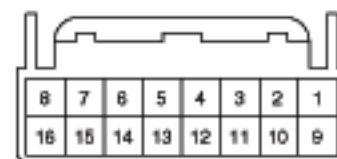
- 24 Female / White (KET\_025\_PCB\_24F\_W)



1. G	I/P Junction Box - ROOM LP 10A	13. L	Mode Switch
2. Gr/O	I/P Junction Box - CLUSTER 10A	14. L	Rheostat Up Switch
3. R/O	ILL. (+)	15. G	Rheostat Down Switch
4. -	-	16. O	Fuel Sender (+)
5. G	C-CAN High	17. Br	4 Pulse Output (A/T)
6. O	C-CAN Low	18. -	-
7. -	-	19. -	-
8. L	B-CAN High	20. -	-
9. R	B-CAN Low	21. L/O	ILL. (-)
10. -	-	22. B	Fuel Sender (-)
11. Br	Vehicle Speed Input (M/T)	23. B	Ground (GM01)
12. -	-	24. B	Ground (GM01)

**M15-B Instrument Cluster**

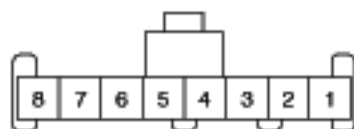
- 16 Female / White (AMP\_025\_16F\_W)



1. -	-	9. G	Charge IND.
2. -	-	10. Gr	SRS (Air Bag IND.)
3. L/O	I/P Junction Box - A/BAG IND 10A	11. -	-
4. -	-	12. -	-
5. -	-	13. -	-
6. Br/O	W/O Smart Key - IMMO. IND. With Smart Key - Smart Key Control Module	14. Y/B	Check Engine IND.
7. -	-	15. -	-
8. Y/B	Oil Pressure Switch	16. -	-

**M16 Auto Light & Photo Sensor**

- 8 Female / White (KET\_91A\_08F\_W)



1. R	Auto Light Sensor - Signal	5. R/O	BCM - Security IND.
2. W	Auto Light Sensor - Ground	6. L	Auto A/C - Sun (-) (Driver)
3. B	Auto A/C - Sun (-) (Passenger)	7. Br	Auto A/C Control Module - Vref
4. L/B	VP Junction Box - ROOM LP 10A	8. R	Auto Light Sensor - Supply

**M17-A EPS Control Module**

- 2 Female / Black (AMP\_375\_02F\_B)



1. B	Ground (GM05)	2. R	E/R Fuse & Relay Box - MDPS 80A
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**M17-B EPS Control Module**

- 8 Female / Black (PKD\_M1064\_08F\_2)



1. R	VP Junction Box - MODULE 1 10A	5. -	-
2. -	-	6. -	-
3. -	-	7. G	C-CAN High
4. -	-	8. O	C-CAN Low

**M18 Ignition Switch (W/O Smart Key)**

- 6 Female / White (KUM\_DSD\_06F\_W)



1. R	E/R Fuse & Relay Box - IGN 2 40A	4. P	ON or START Output
2. L	ON Output	5. P	E/R Fuse & Relay Box - IGN 1 30A
3. G	START Output	6. W	ACC or ON Output

**M19 Key Solenoid (W/O Smart Key & A/T)**

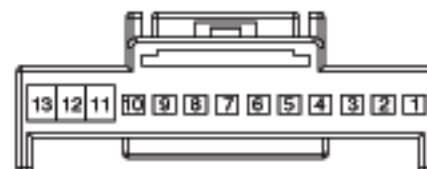
- 2 Female / White (KET\_090III\_02F\_W\_L)



1. W/B	VP Junction Box - SMART KEY 10A	2. G/B	BCM
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**M20-L Multifunction Switch (Light)**

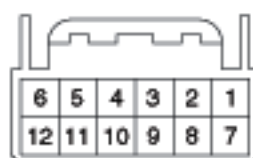
- 13 Female / White (KET\_0409\_13F\_W)



1. Y	BCM - Tail Lamp Switch	8. -	-
2. B	Ground (GM01)	9. P	BCM - Head Lamp High Switch
3. Y	BCM - Auto Light Switch	10. B	BCM - Head Lamp Low Signal
4. L	BCM - Head Lamp Switch	11. W	BCM - Turn Signal Lamp Switch LH
5. B	Ground (GM01)	12. Br/O	VP Junction Box - MODULE 1 10A
6. O	BCM - Front Fog Lamp Switch	13. P	BCM - Turn Signal Lamp Switch RH
7. -	-		

**M20-R Multifunction Switch (Remote Control)**

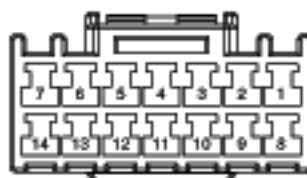
- 12 Female / White (AMP\_025\_12F\_W)



1. -	-	7. -	-
2. L/O	ILL. (-)	8. -	-
3. R/O	ILL. (+)	9. -	-
4. L	Audio Remote Control	10. G	Cruise Control Switch Supply
5. Gr	Audio Remote Control Ground	11. L	Cruise Control Switch Signal
6. Gr	Horn Switch	12. B	Cruise Control Switch Ground

**M20-W Multifunction Switch (Wiper)**

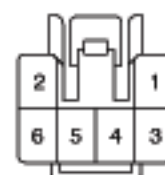
- 14 Female / White (KET\_N090III\_14F\_W)



1. P	BCM - Front Wiper Switch (Mist)	8. WB	BCM - Front Wiper Switch (INT.)
2. Gr	E/R Fuse & Relay Box - WIPER FRT, LO Relay	9. P	Front Wiper Motor HI
3. G	Front Wiper Motor LO	10. Y	I/P Junction Box - WIPER FRT 25A
4. B	Ground (GM01)	11. Br	BCM - Front Washer Signal, Front Washer Motor
5. Y/B	BCM - Front Wiper Switch (INT. Time)	12. L	I/P Junction Box - WIPER RR 15A
6. G/B	BCM - Rear Wiper Switch (ON)	13. L	BCM - Rear Washer Switch
7. O	BCM - Rear Wiper Switch (INT.)	14. -	-

**M21 Cluster Ionizer (Auto A/C)**

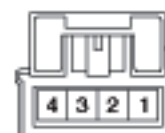
- 6 Female / White (KET\_090\_06F\_W)



1. B	Ground (GM02)	4. P	Clean Signal
2. O	I/P Junction Box - MODULE 4 10A	5. G	Ion Diagnosis
3. O	Ion Signal	6. -	-

**M22 Driver Air Bag**

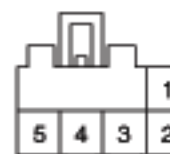
- 4 Female / Yellow (YAZ\_040\_04F\_Y)



1. R	SRS - 1st Stage Low	3. L	SRS - 2nd Stage Low
2. L/O	SRS - 1st Stage High	4. G/B	SRS - 2nd Stage High

**M23 Immobilizer Module (W/O Smart Key)**

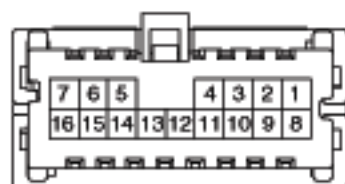
- 5 Female / White (KUM\_GDR\_05F\_W)



1. Br	Antenna (+)	4. L	EMS Box - SENSOR 1 10A
2. W	Antenna (-)	5. L	PCM Data Line
3. B	Ground (GHG05)		

**M24 AUX & USB Jack (W/O A/V & Navigation)**

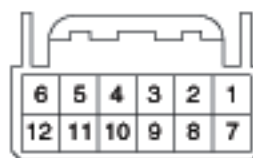
- 16 Female / White (KET\_040III\_16F\_W)



1. W	USB/IPOD - VOD	9. -	-
2. B	USB - D (-)	10. -	-
3. Y	USB - D (+)	11. B	Ground (GM03)
4. B	USB/IPOD - GND	12. -	-
5. -	-	13. -	-
6. B	AUX - REF	14. L	AUX - DET
7. Y	AUX - L IN	15. -	-
8. R/O	ILL. (+)	16. Br	AUX - R IN

**M25 AUX & USB Jack (With A/V & Navigation)**

- 12 Female / White (AMP\_025\_12F\_W)



1. Y	L IN	7. B	REF
2. Br	R IN	8. -	-
3. O	DET	9. -	-
4. -	-	10. -	-
5. -	-	11. -	-
6. R/O	ILL. (+)	12. B	Ground (GM03)

**M26 ESC Off Switch**

- 6 Female / Black (KET\_090II\_06F\_B)



1. R/O	ILL. (+)	4. Gr	VP Junction Box - MODULE 1 10A
2. -	-	5. O/B	ESC Module
3. L/O	ILL. (-)	6. -	(ESC Off Switch 'ON')

**M27 DBC Switch**

- 6 Female / Gray (KET\_090II\_06F\_Gr)



1. R/O	ILL. (+)	4. Gr	VP Junction Box - MODULE 1 10A
2. -	-	5. O	ESC Module
3. L/O	ILL. (-)	6. -	(DBC Switch 'ON')

**M28 4WD Lock Switch**

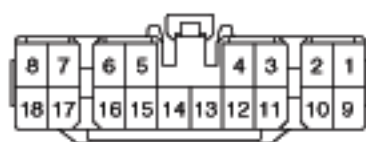
- 6 Female / Brown (KET\_090III\_06F\_BR)



1. R/O	ILL. (+)	4. Y	4WD ECM
2. -	-	5. B	Ground (GM01)
3. L/O	ILL. (-)	6. -	-

**M30 Console Switch**

- 18 Female / White (KET\_090II\_18F\_W)



1. -	-	11. R	I/P Junction Box - S/HEATER FRT 15A
2. L/O	ILL. (-)	12. W	Passenger Seat Warmer Relay (High)
3. R/O	ILL. (+)	13. L	Passenger Seat Warmer Relay (Low)
4. Br	Driver Seat Warmer Switch (IND. GND)	14. B	Ground (GM01)
5. Br	Passenger Seat Warmer Switch (IND. GND)	15. -	-
6. -	-	16. -	-
7. -	-	17. -	-
8. P	I/P Junction Box - CLUSTER 10A	18. -	-
9. W	Driver Seat Warmer Relay (High)		
10. L	Driver Seat Warmer Relay (Low)		

**M31 Front Wiper Deicer Switch (W/O Smart Key)**

- 6 Female / White (KET\_090III\_06F\_W)



1. R/O	ILL. (+)	4. P	Ground (GM01)
2. B	Ground (GM01)	5. W	BCM (Deicer Switch Input)
3. L/O	ILL. (-)	6. G	E/R Fuse & Relay Box - DEICER Relay

**M32 Hazard Switch**

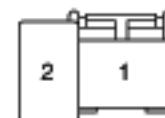
- 6 Female / White (KET\_090II\_06F\_W\_SW)



1. R/O	ILL. (+)	4. -	-
2. L/O	ILL. (-)	5. Y	BCM - Hazard Switch Signal
3. -	-	6. B	Ground (GM02)

**M33 Glove Box Lamp**

- 2 Female / Black (AMP\_PLM2\_02F\_B)



1. R/O	ILL. (+)	2. G	Glove Box Switch
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**M34 Glove Box Lamp Switch**

- 2 Female / White (KET\_187\_02F\_W)



1. G	Glove Box Lamp	2. B	Ground (GM01)
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**M39 ODO Trip Switch**

- 2 Female / Black (AMP\_040M1\_02F\_B)



1. L	Instrument Cluster - Mode Switch	2. B	Ground (GM01)
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**M40 Cigarette Lighter & Front Power Outlet**

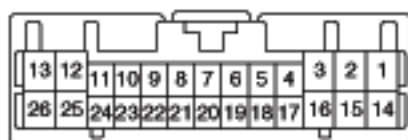
- 6 Female / White (KET\_090III\_06F\_W)



1. L	VP Junction Box - POWER OUTLET 2 25A	3. B	Ground (GM02)
2. G	VP Junction Box - POWER OUTLET 1 15A	4. -	-
		5. R/O	ILL. (+)
		6. B	Ground (GM02)

**M41-A A/C Control Module (Auto)**

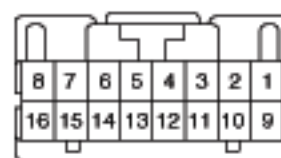
- 26 Female / White (KET\_0407\_26F\_W)



1. G	VP Junction Box - ROOM LP 10A	14. Br	Vref (+5V)
2. R/O	ILL. (+)	15. O	Cluster Ionizer Signal
3. O	VP Junction Box - MODULE 4 10A	16. Br	Intake Actuator (FRE)
4. Y	Driver Temp. Actuator (Cool)	17. P	Intake Actuator (REC)
5. O	Driver Temp. Actuator (Warm)	18. P	Cluster Ionizer Clean Signal
6. -	-	19. P	VP Junction Box - A/CON 7.5A
7. R	Mode Actuator (VENT)	20. Y	Passenger Temp. Actuator (Cool)
8. L	Mode Actuator (DEF)	21. P	Passenger Temp. Actuator (Warm)
9. -	-	22. W/B	FET (Gate)
10. -	-	23. R	FET (Drain)
11. -	-	24. -	-
12. L/O	ILL. (-)	25. -	-
13. B	Ground (GM01)	26. Gr	Sensor Ground

**M41-B A/C Control Module (Auto)**

- 16 Female / White (KET\_0407\_16F\_W)



1. O	C-CAN Low	9. B	Ground (GM01)
2. G	C-CAN High	10. W	Body K-Line
3. Gr	Intake Actuator (F/B)	11. W	Evaporator Sensor (+)
4. G	Mode Actuator (F/B)	12. L/B	Ambient Sensor (+)
5. W	Passenger Temp. Actuator (F/B)	13. R	Incar Sensor (+)
6. W	Driver Temp. Actuator (F/B)	14. L	SUN (-) - Driver
7. G	Cluster Ionizer Diagnosis	15. B	SUN (-) - Passenger
8. Gr	ECV In	16. L	ECV Out

**M43-A A/C Control Module (Manual)**

- 6 Female / White (KET\_250DL\_06F\_W)



1. G	Blower Switch (M/High)	4. L	Blower Switch (High)
2. -	-	5. P	Blower Switch (M/Low)
3. B	Ground (GM02)	6. R	Blower Switch (Low)

**M43-B A/C Control Module (Manual)**

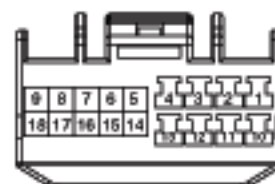
- 32 Female / White (KET\_02509\_32F\_W)



1. R/O	ILL. (+)	17. O	V/P Junction Box - MODULE 4 10A
2. G	V/P Junction Box - ROOM LP 10A	18. -	-
3. R	Mode Actuator (VENT)	19. G	C-CAN High
4. L	Mode Actuator (DEF)	20. O	C-CAN Low
5. Y	Temp. Actuator (Cool)	21. -	-
6. O	Temp. Actuator (Warm)	22. Gr	ECV In
7. B	Intake Actuator (FRE)	23. L	ECV Out
8. P	Intake Actuator (REC)	24. -	-
9. -	-	25. Br	Vref (+5V)
10. -	-	26. Br	Evaporator Sensor (+)
11. G	Mode Actuator (F/B)	27. L/B	Ambient Sensor (+)
12. W	Temp. Actuator (F/B)	28. -	-
13. Gr	Intake Actuator (F/B)	29. -	-
14. P	Blower Motor "ON" Signal	30. -	-
15. L	Blower F/B	31. Gr	Sensor Ground
16. L/O	ILL. (-)	32. B	Ground (GM01)

**M45-A AUDIO**

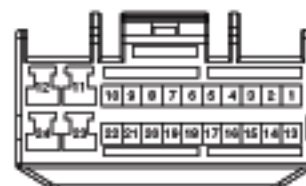
- 18 Female / White (KET\_09025\_18F\_W)



1. Y	Rear Door Speaker LH (+)	10. B	Rear Door Speaker LH (-)
2. Br	Front Door Speaker LH (+)	11. W	Front Door Speaker LH (-)
3. R	Front Door Speaker RH (+)	12. L	Front Door Speaker RH (-)
4. G	Rear Door Speaker RH (+)	13. O	Rear Door Speaker RH (-)
5. B	SPDIF - Shield Ground	14. -	-
6. G	SPDIF - OUT (-)	15. W	SPDIF - OUT (+)
7. Gr	V/P Junction Box - CLUSTER 10A	16. -	-
8. R/O	ILL. (+)	17. L/O	ILL. (-)
9. -	-	18. G	Roof Antenna

**M45-B AUDIO**

- 24 Female / White (KET\_09025\_24F\_W)



1. L	CAN High	13. R	CAN Low
2. -	-	14. -	-
3. -	-	15. -	-
4. L	Audio Remote Control	16. Br	Vehicle Speed Signal
5. -	-	17. Gr	Audio Remote Control Ground
6. Y	USB D (+)	18. B	USB D (-)
7. W	USB/iPOD - VDO	19. B	USB/iPOD - GND
8. Br	AUX R_IN	20. L	AUX DET
9. B	AUX GND	21. Y	AUX L_IN
10. R	MIC (+)	22. L	MIC (-)
11. L/O	V/P Junction Box - AUDIO 2 10A	23. -	-
12. R	V/P Junction Box - AUDIO 1 10A	24. B	Ground (GM03)

**M46 Passenger Air Bag #1**

- 2 Female / Yellow (FCL\_AKIL\_02F\_Y\_II)



- |      |  |       |                                       |
|------|--|-------|---------------------------------------|
| 1. L | SRS Control Module<br>(1st Stage High) | 2. Br | SRS Control Module<br>(1st Stage Low) |
|------|--|-------|---------------------------------------|

**M47 Passenger Air Bag #2**

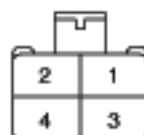
- 2 Female / Yellow (FCL\_AKIL\_02F\_Y\_III)



- |      |  |      |                                       |
|------|--|------|---------------------------------------|
| 1. G | SRS Control Module<br>(2nd Stage High) | 2. W | SRS Control Module<br>(2nd Stage Low) |
|------|--|------|---------------------------------------|

**M49 Blower Resistor (Manual A/C)**

- 4 Female / Black (KET\_250\_04F\_B)



- |      |                        |      |                     |
|------|------------------------|------|---------------------|
| 1. P | Blower Switch (M/Low)  | 3. R | Blower Switch (Low) |
| 2. G | Blower Switch (M/High) | 4. L | Blower Motor        |

**M50-A A/V Navigation Head Module**

- 8 Female / Gray (AMP\_AUDIO\_08F\_Gr\_D2)



- |        |                               |         |                               |
|--------|-------------------------------|---------|-------------------------------|
| 1. Br  | Speed Signal                  | 5. Br/B | Back-Up Signal                |
| 2. R/O | ILL. (+)                      | 6. L/O  | VP Junction Box - AUDIO 2 10A |
| 3. G   | Roof Antenna                  | 7. L/O  | ILL. (-)                      |
| 4. R   | VP Junction Box - AUDIO 1 10A | 8. B    | Ground (GM03)                 |

**M50-C A/V Navigation Head Module**

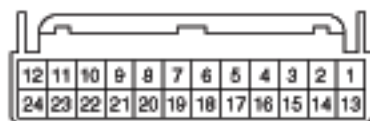
- 20 Female / Black (AMP\_MTIH\_20F\_B)



- |       |                       |        |                             |
|-------|-----------------------|--------|-----------------------------|
| 1. R  | MIC (+)               | 11. O  | AUX DET                     |
| 2. B  | MIC (-)               | 12. -  | -                           |
| 3. Br | AUX R_IN              | 13. -  | -                           |
| 4. Y  | AUX L_IN              | 14. -  | -                           |
| 5. -  | -                     | 15. G  | Door Unlock Signal          |
| 6. -  | -                     | 16. L  | Audio Remote Control        |
| 7. -  | -                     | 17. Gr | Audio Remote Control Ground |
| 8. G  | Engine Running Signal | 18. -  | -                           |
| 9. O  | Auto Light Signal     | 19. -  | -                           |
| 10. Y | AUX REF               | 20. -  | -                           |

**M50-D A/V Navigation Head Module**

- 24 Female / White (KET\_025\_PCB\_24F\_W)



1. W	SPDIF - OUT (+)	13. Y	Rear View Camera (B+)
2. G	SPDIF - OUT (-)	14. Y/B	Rear View Camera (GND)
3. B	SPDIF - Shield Ground	15. R	Rear View Camera (CVBS)
4. -	-	16. R/B	Rear View Camera (VGND)
5. -	-	17. -	-
6. Br	NEVI Voice (+)	18. Y	NEVI Voice (-)
7. -	-	19. -	-
8. -	-	20. B	NEVI Voice (GND)
9. -	-	21. -	-
10. -	-	22. -	-
11. -	-	23. -	-
12. L	CAN High	24. R	CAN Low

**M51-A PDM Relay Box (With Smart Key)**

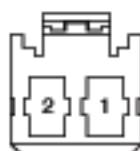
- 10 Female / White (AMP\_0925\_10F\_W)



1. P	PDM - ACC Relay Control	6. W	ACC Output
2. -	-	7. P	E/R Fuse & Relay Box - IGN 1 30A
3. B	Ground (GM01)	8. P	IGN1 Output
4. R	PDM - IGN2 Relay Control	9. -	-
5. -	-	10. W	PDM - IGN 1 Relay Control

**M51-B PDM Relay Box (With Smart Key)**

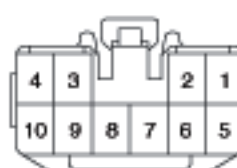
- 2 Female / Black (AMP\_250JPT\_02F\_B)



1. L	IGN 2 Output	2. R	E/R Fuse & Relay Box - IGN 2 40A
------	--------------	------	----------------------------------

**M52-A PDM (With Smart Key)**

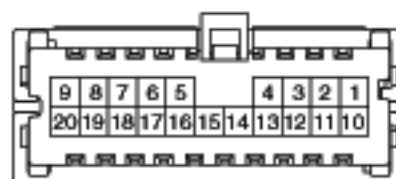
- 10 Female / White (KET\_090IIL\_10F\_W)



1. B	Ground (GM02)	6. R	Start Relay Control
2. B	Ground (GM02)	7. W	IGN1 Relay Control
3. -	-	8. R	IGN2 Relay Control
4. -	-	9. P	ACC Relay Control
5. -	-	10. R	VP Junction Box - PDM 15A

**M52-B PDM (With Smart Key)**

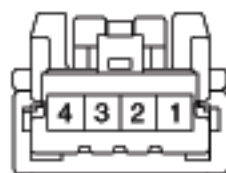
- 20 Female / White (KET\_040IIL\_20F\_W)



1. W	VP Junction Box - MODULE 2 10A	11. L	B-CAN High
2. Y/B	FOB Holder - IMMO. Clock	12. O/B	FOB In
3. W/B	FOB Holder - IMMO. Data	13. -	-
4. L/O	VP Junction Box - AUDIO 2 10A	14. P	ESC (Wheel Speed Sensor Input)
5. -	-	15. R/B	Reverse (Start_EMS)
6. W	SSB SW1	16. W/B	F_RPM
7. B/O	SSB ILL. Ground	17. Y	SSB IND. Amber
8. G	SSB IND. Green	18. R/B	SSB ILL. Power
9. G	VP Junction Box - MODULE 5 7.5A	19. P/B	FOB Holder ILL.
10. R	B-CAN Low	20. R/O	VP Junction Box - SMART KEY 10A

**M54 RF Receiver (With Smart Key)**

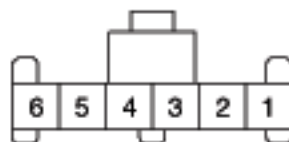
- 4 Female / White (KET\_040III\_04F\_W)



1. O	RF_COM	3. G	VP Junction Box - ROOM LP 10A
2. -	-	4. B	Ground (GM01)

**M55 Rheostat**

- 6 Female / White (KET\_91A\_06F\_W)



1. L/O	ILL. (-)	4. L	Up Switch
2. B	Ground (GM01)	5. G	Down Switch
3. R/O	ILL. (+)	6. -	-

**M57 Rear Defogger Switch**

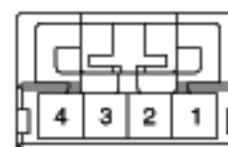
- 6 Female / White (KET\_090III\_06F\_W)



1. R/O	ILL. (+)	4. P	Ground (GM02)
2. B	Ground (GM02)	5. W	BCM (Rear Defogger Switch Input), With Smart Key - Front Wiper Deicer SW Input
3. L/O	ILL. (-)	6. G	VP Junction Box - HTD MIRR 7.5A

**M60 Smart Key Antenna #1**

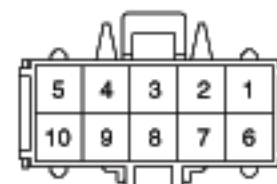
- 4 Female / Black (AMP\_MQS\_04F\_B\_040)



1. -	-	3. -	-
2. R	Smart Key Control Module (Interior Antenna #1 Signal)	4. L	Smart Key Control Module (Interior Antenna #1 Ground)

**M61 Start Stop Button Switch (With Smart Key)**

- 10 Female / Black (MLX\_FIT\_10F\_B)



1. W	SSB SW1	6. L	VP Junction Box - SMART KEY 10A
2. L	VP Junction Box - SMART KEY 10A	7. L	SSB SW2
3. Y	SSB IND. Amber	8. G	SSB IND. Green
4. B/O	SSB ILL. Ground	9. L/O	ILL. (-)
5. R/B	SSB ILL. Power	10. -	-

**M63 Passenger Temperature Actuator**

- 7 Female / Black (KUM\_CDR\_07F\_B)



1. -	-	5. Br	A/C Control Module (Vref)
2. -	-	6. W	A/C Control Module (F/B)
3. Y	A/C Control Module (Cool)	7. Gr	A/C Control Module (Sensor GND)
4. P	A/C Control Module (Warm)		

**M65 Driver Temperature Actuator**

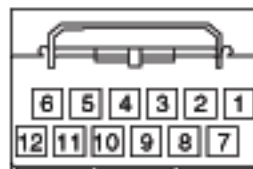
- 7 Female / Black (KUM\_CDR\_07F\_B)



1. -	-	5. Gr	A/C Control Module (Sensor GND)
2. -	-	6. W	A/C Control Module (F/B)
3. O	A/C Control Module (Warm)	7. Br	A/C Control Module (Vref)
4. Y	A/C Control Module (Cool)		

**M67 Tire Pressure Monitoring Module**

- 12 Female / Gray (JAE\_TPMS\_12F\_Gr)



1. R	I/P Junction Box - TPMS 7.5A	7. Gr/O	I/P Junction Box - MODULE 1 10A
2. G	C-CAN High	8. O	C-CAN Low
3. B	Ground (GM02)	9. -	-
4. -	-	10. -	-
5. -	-	11. -	-
6. -	-	12. -	-

**M69 Telltale Lamp**

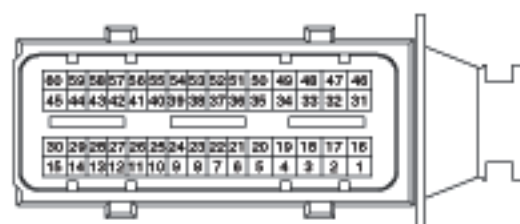
- 3 Female / Black (AMP\_MQS\_03F\_B\_1)



1. L	I/P Junction Box - A/BAG 10A	3. L	SRS Control Module
2. B	Ground (GM04)		

## CHG-A PCM

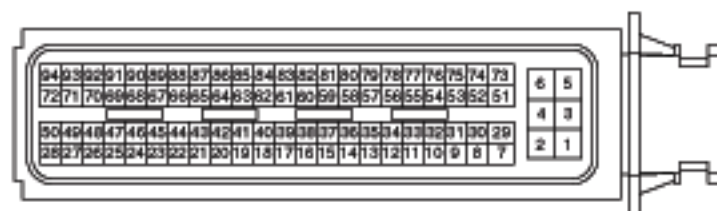
- 60 Female / Black (AMP\_ECU\_60F\_B\_R)



1. G	With Smart Key - IGN. Coil #4 Control W/O Smart Key - IGN. Coil #1 Control	21. -	-	41. -	-
2. B	Ignition Coil Shield Ground	22. -	-	42. -	-
3. L	A/T - LP_VFS	23. -	-	43. W	Clutch Switch
4. G/B	A/T - EC_VFS	24. W	With Smart Key - E/R Fuse & Relay Box (ATM P/N Relay)	44. L/B	Brake Test Switch
5. W	A/T - 35R_VFS		W/O Smart Key - E/R Fuse & Relay Box (Start Relay)	45. L	VCM (DC Motor +1)
6. B/O	A/T - Input Speed Supply	25. R	A/T - Position Switch Code (S2)	46. R	With Smart Key - IGN. Coil #3 Control W/O Smart Key - IGN. Coil #2 Control
7. G/O	A/T - Output Speed Supply	26. G	A/T - Position Switch Code (S3)	47. Gr	A/T - Solenoid Power 1
8. W	A/T - Input Speed Signal	27. Br	A/T - Position Switch Code (S4)	48. O	A/T - Solenoid Power 2
9. L	A/T - Output Speed Signal	28. A/T - P		49. G	A/T - EMS Box - TCU 1 15A
10. -	-		MT - R/B	50. Y	A/T - EMS Box - TCU 1 15A
11. -	-		Start Overrun (PDM)	51. -	-
12. -	-	29. G	Brake Light Switch	52. -	-
13. L	Wiper 'P' Input	30. L	Cruise Control Switch Signal	53. Br	A/T - Oil Temp. Sensor (-)
14. W	Electrical Load Signal From Alternator	31. B	With Smart Key - IGN. Coil #1 Control W/O Smart Key - IGN. Coil #4 Control	54. R	A/T - Oil Temp. Sensor (+)
15. B	Cruise Control Switch Ground	32. G	A/T - SS-B	55. G	A/T - CCP-CAN High
16. W	With Smart Key - IGN. Coil #2 Control W/O Smart Key - IGN. Coil #3 Control	33. P	A/T - SS-A	56. O	A/T - CCP-CAN Low
17. Br	A/T - UD_VFS	34. B	A/T - Ground (GHG05)	57. -	-
18. P	A/T - 26_VFS	35. B	A/T - Ground (GHG05)	58. -	-
19. G	A/T - Shift Lock Solenoid	36. P	A/T - Down Shift	59. -	-
20. Y	A/T - OD_VFS	37. Gr	A/T - Up Shift	60. G	VCM (DC Motor +2)
		38. W	A/T - Select Switch		
		39. -	-		
		40. P	A/T - Position Switch Code (S1)		

## CHG-K PCM

- 94 Female / Black (AMP\_ECU\_94F\_B\_R)



1. B	Ground (GHG06)	26. L	Injector #3 Control	51. G	EMS Box - SENSOR 4 15A	76. W	Battery Sensor (LIN)
2. P	E/R Fuse & Relay Box - ECU 2 7.5A	27. G	Injector #4 Control	52. G	FTPS (Signal)	77. G	C-CAN High
3. B	Ground (GHG06)	28. Gr	Injector #2 Control	53. G	IAT Sensor	78. O	C-CAN Low
4. W	EMS Box - Engine Control Relay	29. -	-	54. Gr	APT Signal	79. -	-
5. B	Ground (GHG06)	30. L	MAP Sensor Supply	55. -	-	80. P	TPS. 1 Signal
6. G	EMS Box - TCU 1 15A	31. L/O	MAF/MAF Sensor Signal	56. -	-	81. -	-
7. -	-	32. L	TPS. 2 Signal	57. G	APT Ground	82. O	APS. 1 Signal
8. -	-	33. W/B	ECTS Signal	58. -	-	83. R	CMPS #1 Ground
9. O	Fuel Tank Level Sender	34. Br	Knock Sensor Ground	59. W/B	TPS Ground	84.	-
10. -	-	35. L/O	APS. 2 Signal	60. Gr	APS. 1 Supply	W/O SULEV	-
11. -	-	36. L	APS. 2 Supply	61. Y	APS. 1 Ground	W	O2 Sensor (Down) Signal
12. Y	Knock Sensor Signal	37. W/B	CMPS #2 Ground	62. W	CMPS #1 Signal	With SULEV	-
13. Br	APS. 2 Ground	38. -	-	63. Y	TPS Supply	W/B	O2 Sensor (Down) Signal
14. L	ECTS Ground	39. Gr	CKPS Ground	64. L	EMS Box - Engine Control Relay	85. P	O2 Sensor (Down) Ground
15. Y	CMPS #2 Signal	40. P	Vehicle Speed Sensor	65. O	E/R Fuse & Relay Box - C/Fan LO Relay	86. W/B	Engine Speed Signal
16. -	-	41. -	-	66. G	CVVT Actuator Control Signal 1	87. Br	EMS Box - A/CON Relay
17. P	CKPS Signal	42. P	O2 Sensor (Up) (V_RC)	67. G	PCSV Control	88. Gr	E/R Fuse & Relay Box - C/Fan HI Relay
18. W	O2 Sensor (Up) (V_IP)	43. W/B	Sensor Supply	68. Y/B	CVVT Actuator Control Signal 2	89. -	-
19. G	O2 Sensor (Up) (V_N)	44. Y	VCM (F/B Sensor GND)	69. Br/O	IMMO. IND.	90. -	-
20. O	O2 Sensor (Up) (V_G)	45. -	-	70. P	EMS Box - F/Pump Relay	91. Gr	CCV Control
21. -	-	46. L	Alternator (COM)	71. W	ETC DC Motor 1	92. Y/B	Engine Check IND.
22. P	VCM (F/B Sensor Potentio-Meter)	47. -	-	72. R	ETC DC Motor 2	93. G	O2 Sensor (Up) Heater
23. -	-	48. -	-	73. Br	FTPS (GND)	94. Y	O2 Sensor (Down) Heater
24. B	E/R Fuse & Relay Box - Start Relay	49. -	-	74. B	TMAP/TMAF Sensor Ground		
25. Br	Injector #1 Control	50. W	Variable Intake System	75. L	IMMO. Data Line		



**CHG01 Transaxle Range Switch**

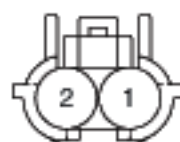
- 10 Female / Black (KET\_0509WP\_10F\_B)



1. -	-	6. -	-
2. R	Position Switch Code (S2)	7. -	-
3. -	-	8. G	Position Switch Code (S3)
4. Gr	E/R Fuse & Relay Box - TCU 2 7.5A	9. Br	Position Switch Code (S4)
5. -	-	10. P	Position Switch Code (S1)

**CHG02 Ambient Sensor**

- 2 Female / Black (KET\_SWP\_02F\_B)



1. L/B	A/C Control Module (Sensor (+))	2. Gr	A/C Control Module (Sensor Ground)
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**CHG03 Battery Sensor**

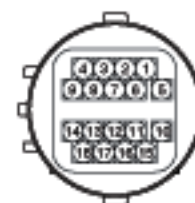
- 2 Female / Black (AMP\_MCPWP\_02F\_B\_A)



1. W	PCM (LIN)	2. R	E/R Fuse & Relay Box - B+ SENSOR 10A
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**CHG04 ATM Solenoid Valve**

- 18 Female / Black (FCL\_MULWP\_18F\_B\_1)



1. -	-	10. Gr	PCM (Solenoid Power 1)
2. G/B	PCM (EC_VFS)	11. P	PCM (26_VFS)
3. G/O	PCM (Output Speed Supply)	12. G	PCM (SS-B)
4. L	PCM (Output Speed Signal)	13. R	PCM (Oil Temp. Sensor (+))
5. O	PCM (Solenoid Power 2)	14. B/O	PCM (Input Speed Supply)
6. W	PCM (36R_VFS)	15. -	-
7. Y	PCM (OD_VFS)	16. Br	PCM (UD_VFS)
8. W	PCM (Input Speed Signal)	17. L	PCM (LP_VFS)
9. Br	PCM (Oil Temp. Sensor (-))	18. P	PCM (SS-A)

**CHG05-1 Oil Control Valve #1**

- 2 Female / Black (KET\_090WP\_02F\_B\_L)



1. G	PCM	2. W	EMS Box - Sensor 1 10A
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**CHG05-2 Oil Control Valve #2**

- 2 Female / Black (KET\_090WP\_02F\_B\_L)



1. Y/B	PCM	2. W	EMS Box - Sensor 1 10A
--------	-----	------	------------------------

**CHG06 Alternator**

- 3 Female / Gray (KET\_0901IWP\_03F\_Gr\_3)



- |      |                    |      |          |
|------|--------------------|------|----------|
| 1. L | PCM (COM)          | 3. W | PCM (FR) |
| 2. G | Charge IND., Diode |      |          |

**CHG07 Front Wiper Motor**

- 6 Female / Black (KUM\_NMWP\_06F\_B)



- |      |                                 |      |  |
|------|---------------------------------|------|--|
| 1. G | Front Wiper Switch (LO)         | 4. B | Ground (GHG01)                             |
| 2. P | Front Wiper Switch (HI)         | 5. L | E/R Fuse & Relay Box - WIPER FRT, LO Relay |
| 3. Y | VP Junction Box - WIPER FRT 25A | 6. - | -  |

**CHG08 Ignition Lock Switch (M/T, W/O Smart Key)**

- 2 Female / White (KET\_0901IIL\_02F\_W\_L)



- |      |                |      |                                    |
|------|----------------|------|------------------------------------|
| 1. B | Ground (GHG01) | 2. W | E/R Fuse & Relay Box - Start Relay |
|------|----------------|------|------------------------------------|

**CHG11 Engine Coolant Temperature Sensor**

- 4 Female / Black (AMP\_EJWP\_04F\_B)



- |      |                |       |                     |
|------|----------------|-------|---------------------|
| 1. B | Ground (GHG01) | 3. L  | PCM (Sensor Ground) |
| 2. - | -              | 4. WB | PCM (Sensor Signal) |

**CHG13-1 Camshaft Position Sensor #1**

- 3 Female / Gray (SUM\_0901IWP\_03F\_Gr\_R)



- |      |                        |      |                     |
|------|------------------------|------|---------------------|
| 1. G | EMS Box - SENSOR 1 10A | 3. W | PCM (Sensor Signal) |
| 2. R | PCM (Sensor Ground)    |      |                     |

**CHG13-2 Camshaft Position Sensor #2**

- 3 Female / Gray (SUM\_0901IWP\_03F\_Gr\_R)



- |       |                        |      |                     |
|-------|------------------------|------|---------------------|
| 1. G  | EMS Box - SENSOR 1 10A | 3. Y | PCM (Sensor Signal) |
| 2. WB | PCM (Sensor Ground)    |      |                     |

**CHG14 Crankshaft Position Sensor**

- 3 Female / Black (AMP\_JPT\_03F\_B\_S2)



- |         |                        |      |                     |
|---------|------------------------|------|---------------------|
| 1. Gr/B | EMS Box - SENSOR 1 10A | 3. P | PCM (Sensor Signal) |
| 2. Gr   | PCM (Sensor Ground)    |      |                     |

**CHG15 Oil Pressure Switch**

- 1 Female / Black (KUM\_NMWP\_01F\_B)



- |        |                   |
|--------|-------------------|
| 1. Y/B | Oil Pressure IND. |
|--------|-------------------|

**CHG16 Oxygen Sensor (Up)**

- 6 Female / Black (AMP\_MTIWIP\_06F\_B)



- |      |                      |      |                        |
|------|----------------------|------|------------------------|
| 1. O | Lambda Sensor (V_G)  | 4. P | EMS Box - SENSOR 4 15A |
| 2. G | Lambda Sensor (V_N)  | 5. G | PCM (Heater Up Stream) |
| 3. W | Lambda Sensor (V_IP) | 6. P | Lambda Sensor (V_RC)   |

**CHG17 Oxygen Sensor (Down) (W/O SULEV)**

- 4 Male / Black (KET\_SWP\_04M\_B)



- |      |                     |      |                        |
|------|---------------------|------|------------------------|
| 1. P | PCM (Sensor Ground) | 3. Y | PCM (Sensor Heater)    |
| 2. W | PCM (Sensor Signal) | 4. O | EMS Box - SENSOR 4 15A |

**CHG18-1 Ignition Coil #1**

- 2 Female / Black (KET\_090WP\_02F\_B\_L3)

**With IMMO. / Smart Key**

- |      |                     |
|------|---------------------|
| 1. B | PCM                 |
| 2. P | EMS Box - ECU 1 20A |

**W/O IMMO. / Smart Key**

- |      |                     |
|------|---------------------|
| 1. G | PCM                 |
| 2. P | EMS Box - ECU 1 20A |

**CHG18-2 Ignition Coil #2**

- 2 Female / Black (KET\_090WP\_02F\_B\_L3)

**With IMMO. / Smart Key**

- |      |                     |
|------|---------------------|
| 1. W | PCM                 |
| 2. L | EMS Box - ECU 1 20A |

**W/O IMMO. / Smart Key**

- |      |                     |
|------|---------------------|
| 1. R | PCM                 |
| 2. L | EMS Box - ECU 1 20A |

**CHG18-3 Ignition Coil #3**

- 2 Female / Black (KET\_090WP\_02F\_B\_L3)

**With IMMO. / Smart Key**

- 1. R PCM
- 2. G EMS Box - ECU 1 20A

**W/O IMMO. / Smart Key**

- 1. W PCM
- 2. G EMS Box - ECU 1 20A

**CHG18-4 Ignition Coil #4**

- 2 Female / Black (KET\_090WP\_02F\_B\_L3)

**With IMMO. / Smart Key**

- 1. G PCM
- 2. W EMS Box - ECU 1 20A

**W/O IMMO. / Smart Key**

- 1. B PCM
- 2. W EMS Box - ECU 1 20A

**CHG19 Condenser**

- 2 Female / Black (MLX\_090CIGAR\_02F\_B)



- 1. B Ground (GHG01)

- 2. O EMS Box - ECU 1 20A

**CHG21 Canister Purge Control Solenoid Valve**

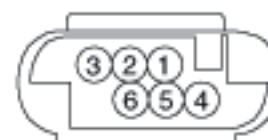
- 2 Female / Black (PKD\_150WP\_02F\_B\_1)



- 1. W EMS Box - SENSOR 1 10A
- 2. G PCM

**CHG22 ETC Motor & Throttle Position Sensor**

- 6 Female / Black (AMP\_MQSWP\_06F\_B\_1)



- 1. W/B PCM (TPS Ground)
- 2. Y PCM (TPS Supply)
- 3. W PCM (ETC DC Motor 1)
- 4. P PCM (TPS 1 Signal)
- 5. L PCM (TPS 2 Signal)
- 6. R PCM (ETC DC Motor 2)

**CHG23 Knock Sensor**

- 2 Female / Black (PKD\_150WP\_02F\_B\_1)



- 1. Br PCM (Sensor Ground)
- 2. Y PCM (Sensor Signal)

**CHG24-1 Injector #1**

- 2 Female / Black (KUM\_NDWP\_02F\_B)



1. L	EMS Box - SENSOR 3 10A	2. Br	PCM
------	------------------------	-------	-----

**CHG24-2 Injector #2**

- 2 Female / Black (KUM\_NDWP\_02F\_B)



1. L/O	EMS Box - SENSOR 3 10A	2. Gr	PCM
--------	------------------------	-------	-----

**CHG24-3 Injector #3**

- 2 Female / Black (KUM\_NDWP\_02F\_B)



1. P	EMS Box - SENSOR 3 10A	2. L	PCM
------	------------------------	------	-----

**CHG24-4 Injector #4**

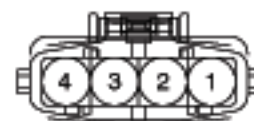
- 2 Female / Black (KUM\_NDWP\_02F\_B)



1. O	EMS Box - SENSOR 3 10A	2. G	PCM
------	------------------------	------	-----

**CHG25 MAP Sensor**

- 4 Female / Black (AMP\_JPT\_04F\_B\_BOSH)



1. L/O	PCM (MAF/MAP Sensor Signal)	3. G	PCM (IAT Sensor)
2. L	PCM (MAP Sensor Supply)	4. B	PCM (TMAP/TMAF Sensor Ground)

**CHG26 Head Lamp LH**

- 6 Female / Black (KET\_HEADLAMP\_06F\_B)



1. Y	BCM (Turn Lamp)	4. G	VP Junction Box - IPS 7 (Tail Lamp)
2. O	VP Junction Box - IPS 5 (Head Lamp High)	5. B	Ground (GHG02)
3. Gr	VP Junction Box - IPS 4 (Head Lamp Low)	6. B	Ground (GHG02)

**CHG27 Head Lamp RH**

- 6 Female / Black (KET\_HEADLAMP\_06F\_B)



1. W	BCM (Turn Lamp)	4. Y	VP Junction Box - IPS 2 (Tail Lamp)
2. O/B	VP Junction Box - IPS 1 (Head Lamp High)	5. B	Ground (GHG04)
3. Gr	VP Junction Box - IPS 0 (Head Lamp Low)	6. B	Ground (GHG04)

**CHG28 A/C Compressor**

- 3 Female / Gray (KUM\_NDWP\_03F\_Gr)



- |      |                              |       |                             |
|------|------------------------------|-------|-----------------------------|
| 1. Y | EMS Box - A/CON Relay        | 3. Gr | A/C Control Module (ECV IN) |
| 2. L | A/C Control Module (ECV OUT) |       |                             |

**CHG35 Front Wiper Deicer**

- 2 Female / Black (KUM\_NMWP\_02F\_B)



- |      |                                     |      |                |
|------|-------------------------------------|------|----------------|
| 1. G | E/R Fuse & Relay Box - Deicer Relay | 2. B | Ground (GHG02) |
|------|-------------------------------------|------|----------------|

**CHG29 A/C Pressure Transducer**

- 3 Female / Black (KET\_040WP\_03F\_B)



- |       |              |       |              |
|-------|--------------|-------|--------------|
| 1. G  | PCM (Ground) | 3. WB | PCM (Supply) |
| 2. Gr | PCM (Signal) |       |              |

**CHG36 Clutch Switch (M/T)**

- 2 Female / White (KET\_250DL\_02F\_W)



- |      |                |      |                       |
|------|----------------|------|-----------------------|
| 1. B | Ground (GHG01) | 2. W | PCM                   |
|      |                | WB   | With ESC - ESC Module |

**CHG34 Front Wheel Sensor RH**

- 2 Male / Black (KET\_090IWP\_02M\_B)



- |       |                  |      |                  |
|-------|------------------|------|------------------|
| 1. Br | ESC Module (SIG) | 2. W | ESC Module (VCC) |
|-------|------------------|------|------------------|

**CHG37 Back-Up Lamp Switch (M/T)**

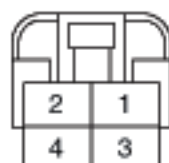
- 2 Female / Black (AMP\_EJWP\_02F\_B)



- |      |                |      |                    |
|------|----------------|------|--------------------|
| 1. B | Ground (GHG02) | 2. W | IPS Control Module |
|------|----------------|------|--------------------|

**CHG39 Stop Lamp Switch**

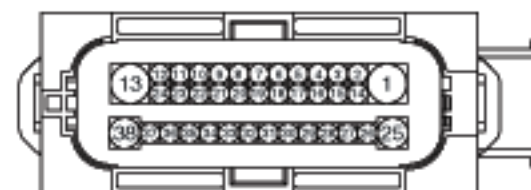
- 4 Female / White (KET\_250DL\_04F\_W)



1. G	PCM, ESC Module, DBC Relay, Stop Lamp LH/RH, High-Mounted Stop Lamp, Smart Key Control Module	3. WB	I/P Junction Box - MODULE 1 10A
		4. L/B	PCM, ESC Module
2. L	E/R Fuse & Relay Box - STOP LP 10A		

**CHG40 ESC Module**

- 38 Female / Black (AMP\_ABS\_38F\_B\_A)



1. W	Multi Fuse - ABS 1 40A	20. Y	Rear Wheel Sensor RH (SIG)
2. -	-	21. Br	Front Wheel Sensor RH (SIG)
3. -	-	22. Br/B	IPS Control Module - Parking Brake Switch
4. O	Yaw Rate Sensor (Power)	23. G	Stop Lamp Switch
5. -	-	24. B	Yaw Rate Sensor (CAN Low)
6. -	-	25. L	Multi Fuse - ABS 2 40A
7. -	-	26. G	C-CAN High
8. WB	DBC Relay Control	27. -	-
9. L	Brake Switch	28. P	PCM (Wheel Speed Sensor Output FR)
10. O/B	ESC Off Switch 'ON'	29. Gr	E/R Fuse & Relay Box - ABS 7.5A
11. L/B	Yaw Rate Sensor (Ground)	30. -	-
12. Y	Yaw Rate Sensor (CAN High)	31. G	Front Wheel Sensor LH (SIG)
13. B	Ground (GHG06)	32. L	Rear Wheel Sensor LH (SIG)
14. O	C-CAN Low	33. B	Rear Wheel Sensor RH (VCC)
15. -	-	34. W	Front Wheel Sensor RH (VCC)
16. -	-	35. W/B	M/T - Clutch Switch
17. P	PDM (Wheel Speed Sensor Output RR)	36. G	DBC Relay 'ON' Signal
18. O	Front Wheel Sensor LH (VCC)	37. O	DBC Switch 'ON'
19. R	Rear Wheel Sensor LH (VCC)	38. B	Ground (GHG06)

**CHG42 Cooling Fan Motor**

- 3 Female / Black (AMP\_SPTWP\_03F\_B)



- |      |  |      |                |
|------|--|------|----------------|
| 1. R | E/R Fuse & Relay Box -<br>C/FAN HI Relay | 3. B | Ground (GHG02) |
| 2. W | E/R Fuse & Relay Box -<br>C/FAN LO Relay |      |                |

**CHG43 Front Fog Lamp LH**

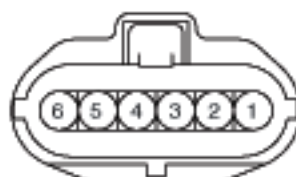
- 2 Female / Black (KET\_110WP\_02F\_B)



- |      |                          |      |                |
|------|--------------------------|------|----------------|
| 1. L | I/P Junction Box - IPS 6 | 2. B | Ground (GHG02) |
|------|--------------------------|------|----------------|

**CHG44 Accel Pedal Position Sensor**

- 6 Female / Black (AMP\_070WP\_06F\_B)



- |        |                    |       |                    |
|--------|--------------------|-------|--------------------|
| 1. L   | PCM (APS 2 Supply) | 4. Gr | PCM (APS 1 Supply) |
| 2. O   | PCM (APS 1 Signal) | 5. Y  | PCM (APS 1 Ground) |
| 3. L/O | PCM (APS 2 Signal) | 6. Br | PCM (APS 2 Ground) |

**CHG45 Brake Fluid Level Sensor**

- 2 Female / Black (AMP\_JPT\_02F\_B\_CLIP)



- |      |                |         |   |
|------|----------------|---------|---|
| 1. B | Ground (GHG03) | 2. Br/O | IPS Control Module - Brake<br>Fluid Level |
|------|----------------|---------|---|

**CHG46 Burglar Alarm Horn**

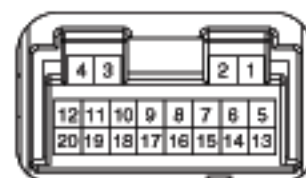
- 2 Female / Black (MLX\_HORN\_02F\_B\_FILT)



- |      |  |      |                |
|------|--|------|----------------|
| 1. P | E/R Fuse & Relay Box -<br>B/A Horn Relay | 2. B | Ground (GHG04) |
|------|--|------|----------------|

**CHG47 Multipurpose Check Connector**

- 20 Female / Black (LM\_DIAGNOSIS\_20F\_B)



- |       |                        |        |                                 |
|-------|------------------------|--------|---------------------------------|
| 1. B  | Ground (GHG02)         | 11. -  | -                               |
| 2. -  | -                      | 12. L  | Multi Fuse - ABS 2 40A          |
| 3. -  | -                      | 13. -  | -                               |
| 4. L  | Multi Fuse - ABS 1 40A | 14. O  | CCP-CAN Low                     |
| 5. B  | Ground (GHG01)         | 15. Gr | E/R Fuse & Relay Box - ABS 7.5A |
| 6. G  | CCP-CAN High           | 16. -  | -                               |
| 7. -  | -                      | 17. O  | C-CAN Low                       |
| 8. -  | -                      | 18. -  | -                               |
| 9. G  | C-CAN High             | 19. W  | Body K-Line                     |
| 10. - | -                      | 20. -  | -                               |



**CHG49 Hood Switch**

- 2 Female / Black (KET\_090IWP\_02F\_B\_ASM)



1. B	Ground (GHG04)	2. R	IPS Control Module
------	----------------	------	--------------------

**CHG50 Horn**

- 2 Female / Gray (KUM\_NDWP\_02F\_Gr)



1. G	E/R Fuse & Relay Box - Horn Relay	2. B	Ground (GHG02)
------	-----------------------------------	------	----------------

**CHG51 External Buzzer**

- 2 Female / Black (KET\_090IWP\_02F\_B\_ASM)



1. B	Ground (GHG02)	2. P	Smart Key Control Module
------	----------------	------	--------------------------

**CHG53 Front Fog Lamp RH**

- 2 Female / Black (KET\_110WP\_02F\_B)



1. L	I/P Junction Box - IPS 6	2. B	Ground (GHG04)
------	--------------------------	------	----------------

**CHG54 Front Wheel Sensor LH**

- 2 Male / Black (KET\_090IWP\_02M\_B)



1. G	ESC Module (SIG)	2. O	ESC Module (VCC)
------	------------------	------	------------------

**CHG56 Rear Washer Motor**

- 2 Female / Black (KET\_090WP\_02F\_B\_SIDE)



1. B	Ground (GHG04)	2. L	Rear Washer Switch
------	----------------	------	--------------------

**CHG57 Oxygen Sensor (Down)(With SULEV)**

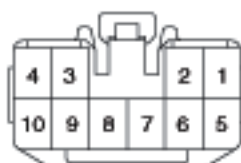
- 4 Female / Black (KET\_090IWP\_04F\_B)



1. W/B	PCM (Sensor Signal)	3. O	EMS Box - SENSOR 4 15A
2. P	PCM (Sensor Ground)	4. Y	PCM (Sensor Heater)

**CHG63 ATM Shift Lever**

- 10 Female / White (KET\_090III\_10F\_W)



1. -	-	6. W	Select Switch
2. B	Ground (GHG03)	7. P	Down Shift
3. G/B	P Position Switch	8. -	-
4. W/B	I/P Junction Box - TPMS 7.5A	9. B	Ground (GHG03)
5. Gr	Up Shift	10. G	PCM (Shift Lock Solenoid)

**CHG67 Front Washer Motor**

- 3 Female / Gray (KET\_090IWP\_03F\_Gr)



1. B	Ground (GHG04)	3. -	-
2. B	Front Washer Switch		

**CHG70 Variable Intake Manifold Valve**

- 2 Female / Black (AMP\_EJWP\_02F\_B)



1. Gr/B	EMS Box - SENSOR 1 10A	2. W	PCM
---------	------------------------	------	-----

**CHG72 Vehicle Speed Sensor (M/T)**

- 3 Female / Black (KUM\_NMWP\_03F\_B)



1. Gr	E/R Fuse & Relay Box - TCU 2 7.5A	3. Br	Vehicle Speed Output
2. B	Ground (GHG02)		

**CHG80 Variable Charge Motion Actuator**

- 5 Female / Black (AMP\_JPT\_05F\_B\_SFT)



1. Y	PCM (F/B Sensor GND)	4. G	PCM (DC Motor Output +2)
2. P	PCM (F/B Sensor Potenti-Meter)	5. L	PCM (DC Motor Output +1)
3. W/B	PCM (Sensor Supply)		

**CHG90 WIPER FRT, LO Relay**

- 5 Female / N/A (CR05F011)



1. Gr	Front Wiper Switch	4. L	Front Wiper Motor
2. Y	I/P Junction Box - WIPER FRT 25A	5. Y	I/P Junction Box - WIPER FRT 25A
3. O/B	BCM		

**CHG92 C/FAN HI Relay**

- 4 Female / N/A (CR04F086)



1. L	E/R Fuse & Relay Box - C/FAN 40A	3. Gr	PCM (Relay HI Control)
2. R	Cooling Fan Motor	4. Gr	E/R Fuse & Relay Box - C/FAN LO Relay

**CHG93 Deicer Relay**

- 4 Female / N/A (CR04F086)



1. R	E/R Fuse & Relay Box - Deicer 15A	3. L	IPS Control Module
2. G	Front Wiper Deicer, Front Wiper Deicer Switch	4. L	E/R Fuse & Relay Box - Deicer 15A

**CHG94 ATM P/N Relay (With Smart Key)**

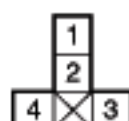
- 5 Female / N/A (CR05F011)



1. P	VP Junction Box - START 10A, PCM (Start Overrun)	3. W/O	E/R Fuse & Relay Box - ECU 2 7.5A
2. P	E/R Fuse & Relay Box - Start Relay	4. -	-
		5. W	PCM (Relay Control)

**CHG95 Blower Relay**

- 4 Female / N/A (CR04F086)



1. R	Multi Fuse - BLOWER 40A	3. B	Ground (GHG02)
2. R	Blower Motor, Auto A/C - I/P Junction Box - A/CON 7.5	4. Y/O	VP Junction Box - MODULE 4 10A

**CHG96 Horn Relay**

- 4 Female / N/A (CR04F086)



1. G	E/R Fuse & Relay Box - HORN 15A	3. Gr	Horn Switch
2. G	Horn	4. G	E/R Fuse & Relay Box - HORN 15A

**CHG97 C/FAN LO Relay**

- 4 Female / N/A (CR04F086)



1. L	E/R Fuse & Relay Box - C/FAN 40A	3. O	PCM (Relay LO Control)
2. W	Cooling Fan Motor	4. Gr	EMS Box - SENSOR 4 15A

**CHG98 Start Relay**

- 4 Female / N/A (CR04F086)

**W/O Smart Key**

- 1. R E/R Fuse & Relay Box - IGN 2 40A
- 2. R Start Solenoid
- 3. M/T, With Ignition Lock Switch  
W Ignition Lock Switch  
M/T, W/O Ignition Lock Switch
- B Ground (GHG02)
- A/T
- W PCM (Relay Control)
- 4. W/O B/Alarm  
P I/P Junction Box - START 10A
- With B/Alarm  
P I/P Junction Box - Burglar Alarm Relay

**With Smart Key**

- 1. R E/R Fuse & Relay Box - IGN 2 40A
- 2. R Start Solenoid
- 3. B Ground (GHG02),  
PCM (Start Overrun (GND))
- 4. M/T
- P I/P Junction Box - START 10A  
A/T
- P E/R Fuse & Relay Box -  
ATM P/N Relay
- R/B PDM (Start F/B Signal),  
PCM (M/T - Start Overrun)

**CHG99 B/A Horn Relay**

- 4 Female / N/A (CR04F086)



- 1. P Burglar Alarm Horn
- 2. P E/R Fuse & Relay Box - HORN 15A
- 3. W I/P Junction Box - IPS Control Module
- 4. P E/R Fuse & Relay Box - HORN 15A

**CHG100 RR HTD Relay**

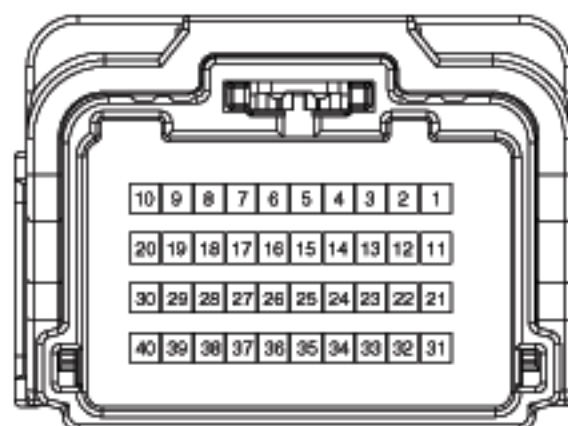
- 4 Female / N/A (CR04F086)



- 1. R E/R Fuse & Relay Box -  
RR HTD 40A
- 2. G I/P Junction Box  
(Rear Defogger Output)
- 3. G/O IPS Control Module
- 4. L E/R Fuse & Relay Box  
- DEICER 15A

**F01 SRS Control Module**

- 40 Female / Green (JST\_WIC\_40F\_G)



1. B	Driver SIS (High)	21. R	Passenger SIS (High)
2. L	Rear SIS LH (High)	22. G	Rear SIS RH (High)
3. P/B	Driver S/Belt PT (High)	23. G/R	Driver CAB (High)
4. Gr	Driver S/Belt PT (Low)	24. W/B	Driver CAB (Low)
5. G/B	Driver SAB (High)	25. -	-
6. W/B	Driver SAB (Low)	26. -	-
7. -	-	27. -	-
8. -	-	28. -	-
9. -	-	29. L/O	Passenger S/Belt Buckle SW (High)
10. -	-	30. P/B	Passenger S/Belt Buckle SW (Low)
11. W	Driver SIS (Low)	31. L	Passenger SIS (Low)
12. O	Rear SIS LH (Low)	32. O	Rear SIS RH (Low)
13. L/O	Passenger S/Belt PT (High)	33. B	Passenger CAB (Low)
14. Y/B	Passenger S/Belt PT (Low)	34. R	Passenger CAB (High)
15. Br/B	Passenger SAB (High)	35. -	-
16. O/B	Passenger SAB (Low)	36. -	-
17. -	-	37. -	-
18. -	-	38. -	-
19. -	-	39. L	Driver S/Belt Buckle Switch (High)
20. -	-	40. P	Driver S/Belt Buckle Switch (Low)

**F02 FOB Holder (With Smart Key)**

- 7 Female / White (KUM\_CDR\_07F\_W)



1. Y/B	IMMO. Clock	5. W/B	IMMO. Data
2. P/B	Holder ILL. (-)	6. R/B	VP Junction Box - SMART KEY 10A
3. B	Ground (GF08)	7. O/B	Key In SW
4. R/B	VP Junction Box - SMART KEY 10A		

**F03-A AMP**

- 26 Female / White (AMP\_0407\_26F\_W\_HD)



1. O	VP Junction Box - AMP 25A	14. B	Ground (GF08)
2. P	VP Junction Box - AMP 25A	15. B	Ground (GF08)
3. R	VP Junction Box - AMP 25A	16. B	Ground (GF08)
4. -	-	17. -	-
5. L	CAN - High	18. W	SPDIF OUT (+)
6. R	CAN - Low	19. G	SPDIF OUT (-)
7. G	VP Junction Box - AUDIO 2 10A	20. -	-
8. -	-	21. -	-
9. -	-	22. -	-
10. -	-	23. -	-
11. Br	Audio (NEVI Voice (+))	24. Y	Audio (NEVI Voice (-))
12. L	Sub Woofer Speaker (+)	25. R	Sub Woofer Speaker (-)
13. G	Sub Woofer Speaker (+)	26. O	Sub Woofer Speaker (-)

**F03-C AMP**

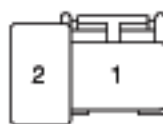
- 12 Female / White (AMP\_0407\_12F\_W\_070)



1. G	RR Speaker (+)	7. O	RR Speaker (-)
2. Y	RL Speaker (+)	8. B	RL Speaker (-)
3. R	FR Tweeter Speaker (+)	9. L	FR Tweeter Speaker (-)
4. Br	FL Tweeter Speaker (+)	10. W	FL Tweeter Speaker (-)
5. R	FR Speaker (+)	11. L	FR Speaker (-)
6. Br	FL Speaker (+)	12. W	FL Speaker (-)

**F04 Luggage Lamp**

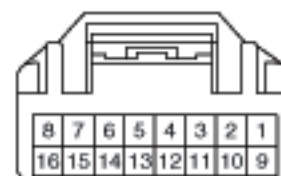
- 2 Female / Black (AMP\_PLM2\_02F\_B)



1. W	Tail Gate Open Switch	2. G	I/P Junction Box - ROOM LP 10A
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**F05 4WD ECM**

- 16 Female / White (YAZ\_025\_16F\_W)



1. R	EMC (+)	9. B/O	EMC (-)
2. -	-	10. B	Ground (GF01)
3. R/O	I/P Junction Box - TPMS 7.5A	11. -	-
4. R/B	I/P Junction Box - MODULE 1 10A	12. -	-
5. G	C-CAN High	13. O	C-CAN Low
6. -	-	14. -	-
7. -	-	15. -	-
8. -	-	16. Y	4WD Lock Switch

**F06-A Smart Key Control Module**

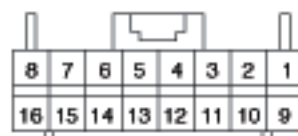
- 26 Female / White (AMP\_0407\_26F\_W\_HD)



1. R	I/P Junction Box - SMART KEY 10A	14. Br/B	I/P Junction Box - MODULE 5 7.5A
2. Br/O	IMMO. IND.	15. M/T	
3. B	Ground (GF06)	W/B	Ignition Lock Switch
4. -	-	A/T	
5. W	Tail Gate Handle Switch	G/B	'P' Position Switch
6. Gr/B	L_FL_DR_Lock/Unlock	16. B	Ground (GF06)
7. P	External Buzzer	17. -	-
8. G/O	ALT_L	18. -	-
9. W/O	I/P Junction Box - AUDIO 2 10A	19. -	-
10. L	B-CAN High	20. W/B	L_FR_DR_Lock/Unlock
11. R	B-CAN Low	21. -	-
12. -	-	22. W/O	Diag-K Line
13. O	RF Receiver(RF_COM)	23. L	Start Stop Button Switch (SSB SW 2)
		24. G/B	Stop Lamp Switch
		25. W/O	EMS_COM
		26. -	-

**F06-B Smart Key Control Module**

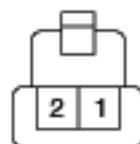
- 16 Female / White (AMP\_0407\_16F\_W\_040)



1. O	Interior Antenna #2 (Ground)	9. G	Interior Antenna #2
2. L	Interior Antenna #1 (Ground)	10. R	Interior Antenna #1
3. -	-	11. -	-
4. -	-	12. -	-
5. O	Tail Gate Antenna	13. L	Tail Gate Antenna (Ground)
6. B	Bumper Antenna	14. W	Bumper Antenna (Ground)
7. W	O_FR_DR_ANT	15. B	O_FR_DR_ANT_GND
8. Br	O_FL_DR_ANT	16. W	O_FL_DR_ANT_GND

**F07 Driver Door Switch**

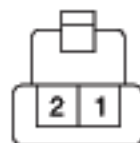
- 2 Female / White (AMP\_040M1\_02F\_W)



1. -	-	2. G/O	IPS Control Module
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**F08 Passenger Door Switch**

- 2 Female / White (AMP\_040M1\_02F\_W)



1. -	-	2. P/B	IPS Control Module
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**F09 Rear Door Switch LH**

- 2 Female / White (AMP\_040M1\_02F\_W)



1. -	-	2. Y/B	IPS Control Module
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**F10 Rear Door Switch RH**

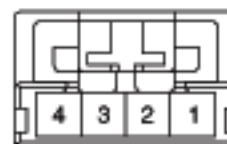
- 2 Female / White (AMP\_040M1\_02F\_W)



1. -	-	2. Gr/B	IPS Control Module
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**F11 Smart Key Antenna #2**

- 4 Female / Black (AMP\_MQS\_04F\_B\_040)



1. -	-	3. -	-
2. G	Smart Key Control Module (Interior Antenna #2 Signal)	4. O	Smart Key Control Module (Interior Antenna #2 GND)

**F12 Fuel Sender & Fuel Pump Motor**

- 5 Female / Gray (KET\_090IWP\_05F\_Gr\_2)



1. -	-	4. P	EMS Box - F/PUMP Relay
2. O	Instrument Cluster - Fuel Sender (+)	5. B	Ground (GF02)
3. B	Instrument Cluster - Fuel Sender (-)		

**F13 Driver Seat Warmer**

- 4 Female / White (KET\_090IIL\_04F\_W)



1. W	Switch (High)	3. B	Ground (GF01)
2. L	Switch (Low)	4. Br	IND. Ground

**F14 Passenger Seat Warmer**

- 4 Female / White (KET\_090IIL\_04F\_W)



1. W	Switch (High)	3. B	Ground (GF06)
2. L	Switch (Low)	4. Br	IND. Ground

**F15 Canister Close Valve**

- 2 Female / Black (KET\_090IWP\_02F\_B)



1. O/B	EMS Box - SENSOR 1 10A	2. Gr	PCM (CCV Control)
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**F16 Fuel Tank Pressure Sensor**

- 3 Female / Black (AMP\_090\_03F\_B\_WP)



1. L	PCM (Sensor Supply)	3. G	PCM (FTPS Signal)
2. Br	PCM (FTPS Ground)		

**F17 Rear Power Outlet**

- 2 Female / Black (KET\_2505\_02F\_B\_CIGAR)

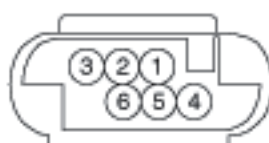


1. L	I/P Junction Box - POWER OUTLET 2 25A	2. B	Ground (GF03)
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**F18 Yaw Rate Sensor**

- 6 Female / Black (AMP\_MQSWP\_06F\_B\_1)



1. B	ESC Module (CAN Low)	4. L/B	ESC Module (Ground)
2. Y	ESC Module (CAN High)	5. -	-
3. O	ESC Module (Power)	6. -	-

**F26 Rear Combination Lamp (Out) LH**

- 6 Female / Black (KET\_SWP\_06F\_B)



1. W	BCM (Turn & Hazard Lamp)	4. G	I/P Junction Box - IPS 7
2. -	-	5. -	-
3. G/B	ICM Relay Box (DBC Relay)	6. B	Ground (GF03)

**F27 Rear Combination Lamp (Out) RH**

- 6 Female / Black (KET\_SWP\_06F\_B)



1. P	BCM (Turn & Hazard Lamp)	4. B/O	I/P Junction Box - IPS 2
2. -	-	5. -	-
3. G/B	ICM Relay Box (DBC Relay)	6. B	Ground (GF08)

**F30 Rear Wheel Sensor LH**

- 2 Male / White (KET\_090III\_02M\_W\_L\_1)



1. L	ESC Module (SIG)	2. R	ESC Module (VCC)
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**F31 Rear Wheel Sensor RH**

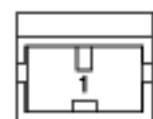
- 2 Male / White (KET\_090III\_02M\_W\_L\_1)



1. Y	ESC Module (SIG)	2. B	ESC Module (VCC)
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**F32 Hand Parking Brake Switch (M/T)**

- 1 Female / Black (AMP\_PLM1\_01F\_B)



1. Gr/O	IPS Control Module - Parking Brake Switch
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**F33 Foot Parking Brake Switch (A/T)**

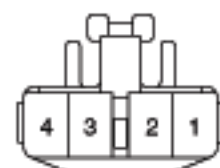
- 1 Male / Black (KET\_250\_01M\_B)



1. Gr/O	IPS Control Module - Parking Brake Switch
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**F35 Sub Woofer Speaker**

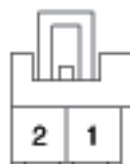
- 4 Female / White (KET\_090III\_04F\_W)



1. R	AMP (-)	3. O	AMP (-)
2. L	AMP (+)	4. G	AMP (+)

**F38 ATM Shift Lever ILL.**

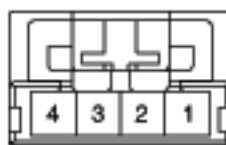
- 2 Female / White (KUM\_CDR\_02F\_W)



1. R/O	ILL. (+)	2. L/O	ILL. (-)
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**F39 Smart Key Antenna #3**

- 4 Female / Black (AMP\_MQS\_04F\_B\_040)



1. -	-	3. -	-
2. O	Smart Key Control Module (Tail Gate Antenna Signal)	4. L	Smart Key Control Module (Tail Gate Antenna Ground)

**F40 Roof Antenna**

- 1 Female / Black (AMP\_PLM1\_01F\_B)



1. Y	Audio Antenna
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**F43 Driver Side Air Bag**

- 2 Female / Yellow (YAZ\_040WP\_02F\_Y\_GH)



1. G/B	SRS Control Module (High)	2. WB	SRS Control Module (Low)
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**F44 Passenger Side Air Bag**

- 2 Female / Yellow (YAZ\_040WP\_02F\_Y\_GH)



1. Br/B	SRS Control Module (High)	2. O/B	SRS Control Module (Low)
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**F45 Rear Side Impact Sensor LH**

- 2 Female / Dark Gray (FCI\_PAERP\_02F\_DGr\_B)



1. L	SRS Control Module (High)	2. O	SRS Control Module (Low)
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**F46 Rear Side Impact Sensor RH**

- 2 Female / Dark Gray (FCL\_PAEWP\_02F\_DGr\_B)



1. G	SRS Control Module (High)	2. O	SRS Control Module (Low)
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**F52 Electronic Magnetic Valve Clutch**

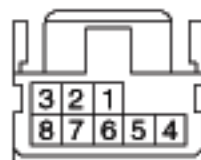
- 2 Female / Gray (KUM\_NMWP\_02F\_Gr)



1. R	4WD ECM (+)	2. B/O	4WD ECM (-)
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**F55 Passenger Seat Belt Buckle Switch**

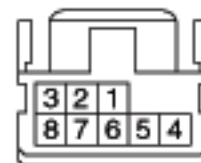
- 8 Female / Yellow (JST\_HIC\_08F\_Y)



1. P/B	SRS Control Module (Low)	5. -	-
2. -	-	6. L/O	SRS Control Module (High)
3. -	-	7. -	-
4. -	-	8. -	-

**F56 Driver Seat Belt Buckle Switch**

- 8 Female / Yellow (JST\_HIC\_08F\_Y)



1. P	SRS Control Module (Low)	5. O	IPS Control Module (Warning)
2. -	-	6. L	SRS Control Module (High)
3. -	-	7. -	-
4. B	Ground(GF09)	8. -	-

**F57 Driver Seat Belt Pretensioner**

- 2 Female / Black (JST\_SQS\_02F\_B)



1. P/B	SRS Control Module (High)	2. Gr	SRS Control Module (Low)
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**F58 Passenger Seat Belt Pretensioner**

- 2 Female / Black (JST\_SQS\_02F\_B)



1. L/O	SRS Control Module (High)	2. Y/B	SRS Control Module (Low)
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**F59 Passenger Curtain Air Bag**

- 2 Female / Black (FCI\_AKII\_02F\_B\_I)



1. B	SRS Control Module (Low)	2. R	SRS Control Module (High)
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**F60 Driver Curtain Air Bag**

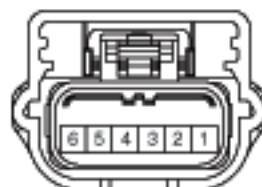
- 2 Female / Black (FCI\_AKII\_02F\_B\_I)



1. G/R	SRS Control Module (High)	2. W/B	SRS Control Module (Low)
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**F61 Passenger Occupant Detection Sensor**

- 6 Female / Black (MLX\_ABAG\_06F\_B)



1. Y	VP Junction Box - A/BAG 10A	4. B	Ground (GF09)
2. G	C-CAN High	5. L/B	BTS (Power)
3. O	C-CAN Low	6. Br/B	BTS (Signal)

**F62 Belt Tension Sensor**

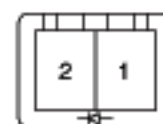
- 3 Female / N/A (EPC\_E5706\_03F)



1. L/B	PODS (Power)	3. Br/B	PODS (Signal)
2. B	Ground (GF09)		

**Z01 Diode**

- 2 Female / Black (KET\_090\_02F\_B\_DIODE)



1. W	Luggage Lamp	2. W/B	Tail Gate Open Switch
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**D01 Driver Door Lock Actuator**

- 7 Female / Black (FCL\_ACTRWP\_07F\_B)



1. G	ICM Relay Box (Two Turn Unlock Relay)	5. B	Ground (GF01)
2. O	VP Junction Box (Door Lock Relay)	6. Gr	IPS Control Module (Door Lock/Unlock)
3. R	IPS Control Module (Key Lock)	7. -	-
4. P	IPS Control Module (Key Unlock)		

**D05 Driver Smart Key Outside Handle**

- 4 Male / Black (KET\_SWP\_04M\_B)



1. Br	Smart Key Control Module (O_FL_DR_ANT)	3. W	Smart Key Control Module (O_FL_DR_ANT_GND)
2. Gr/B	Smart Key Control Module (L_FL_DR_Lock/Unlock)	4. B	Ground (GF01)

**D06 Driver Pressure Side Impact Sensor**

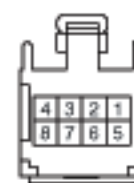
- 2 Female / Brown (FCL\_PAEWP\_02F\_Br\_C)



1. B	SRS Control Module (High)	2. W	SRS Control Module (Low)
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**D07 Driver Power Outside Mirror**

- 8 Female / Black (MLX\_040\_08F\_B\_A)



1. G/B	Outside Mirror Switch - Left (VL)	5. -	-
2. P	Outside Mirror Switch - Up/Down	6. -	-
3. Gr/B	Outside Mirror Switch - Left (HL)	7. B	Ground (GF01)
4. W	BCM - Turn Lamp Output RL	8. L/B	VP Junction Box - HTD MIRR 7.5A

**D08 Power Outside Mirror Switch**

- 12 Female / White (AMP\_0407\_12F\_W\_070)



1. -	-	7. -	-
2. -	-	8. G/B	Outside Mirror Switch (VL)
3. -	-	9. Gr/B	Outside Mirror Switch (HL)
4. -	-	10. P	Up/Down Switch
5. B	Ground (GF01)	11. Gr	Outside Mirror Switch (HR)
6. G	VP Junction Box - AUDIO 2 10A	12. G	Outside Mirror Switch (VR)

**D09 Driver Power Window Motor (W/O Safety)**

- 2 Female / Gray (FCL\_SENSOR\_02F\_GR)



1. P	Driver Window Switch	2. W	Driver Window Switch
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**D10 Power Window Main Switch**

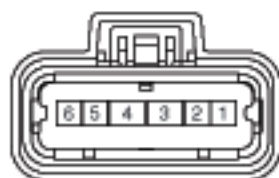
- 16 Female / White (KET\_090III\_16F\_W)



1. Gr	Passenger Window Switch	8. With Safety	
2. G	Passenger Window Switch	G	Safety Power Window Module (Down)
3. R	ILL. (+)		
4. -	-	W/O Safety	
5. Gr/B	IPS Control Module (Door Unlock)	P	Driver Power Window Motor
6. W	Safety Power Window Module (Auto)	9. R	I/P Junction Box - P/WDW RH 25A
7. With Safety		10. L	Window Switch RR
L	Safety Power Window Module (Up)	11. O	Window Switch RR
W/O Safety		12. B	Ground (GF01)
W	Driver Power Window Motor	13. L/B	IPS Control Module (Door Lock)
		14. P	Window Switch RL
		15. Br	Window Switch RL
		16. O	I/P Junction Box - P/WDW LH 25A

**D12 Driver Safety Power Window Module (With Safety)**

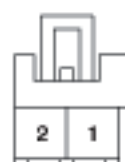
- 6 Female / Black (FCI\_MINIWP\_06F\_B)



1. G	Driver Window Switch (Down)	4. Y	I/P Junction Box - SAFETY POWER WINDOW 20A
2. L	Driver Window Switch (Up)	5. W	Driver Window Switch (Auto)
3. B	Ground (GF01)	6. G	BCM

**D13 Driver Door Speaker**

- 2 Female / Black (KUM\_CDR\_02F\_B)



1. Br	Speaker (+)	2. W	Speaker (-)
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**D14 Driver Tweeter Speaker**

- 2 Female / White (KUM\_CDR\_02F\_W)



1. W	Speaker (-)	2. Br	Speaker (+)
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**D21 Passenger Door Lock Actuator**

- 7 Female / Black (FCI\_ACTRWP\_07F\_B)



1. -	-	5. Br	IPS Control Module (Key Lock)
2. W	IPS Control Module (Door Lock/Unlock)	6. O	I/P Junction Box (Door Lock Relay)
3. B	Ground (GF06)	7. L	I/P Junction Box (Door Unlock Relay)
4. G	IPS Control Module (Key Unlock)		

**D25 Passenger Smart Key Outside Handle**

- 4 Male / Black (KET\_SWP\_04M\_B)



1. W	Smart Key Control Module (O_FR_DR_ANT)	3. B	Smart Key Control Module (O_FR_DR_ANT_GND)
2. W/B	Smart Key Control Module (L_FR_DR_Lock/Unlock)	4. B	Ground (GF06)

**D26 Passenger Pressure Side Impact Sensor**

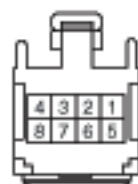
- 2 Female / Brown (FCL\_PAEWP\_02F\_Br\_C)



1. R	SRS Control Module (High)	2. L	SRS Control Module (Low)
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**D27 Passenger Power Outside Mirror**

- 8 Female / Black (MLX\_040\_08F\_B\_A)



1. G	Outside Mirror Switch - Right (VR)	5. -	-
2. P	Outside Mirror Switch - Up/Down	6. -	-
3. Gr	Outside Mirror Switch - Right (HR)	7. B	Ground (GF06)
4. P	BCM - Turn Lamp Output RR	8. L/B	I/P Junction Box - HTD MIRR 7.5A

**D29 Passenger Power Window Motor**

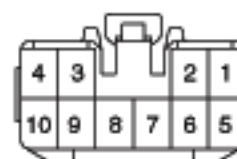
- 2 Female / Gray (FCL\_SENSOR\_02F\_GR)



1. Br	Window Switch	2. P	Window Switch
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**D31 Passenger Power Window Switch**

- 10 Female / White (KET\_090III\_20F\_W)



1. R/O	ILL. (+)	6. Gr	Window Main Switch
2. -	-	7. B	Ground (GF06)
3. Gr/B	IPS Control Module (Door Unlock)	8. G	Window Main Switch
4. L/B	IPS Control Module (Door Lock)	9. L	I/P Junction Box - P/WDW RH 25A
5. P	Motor	10. Br	Motor

**D33 Passenger Door Speaker**

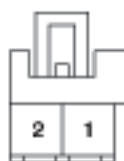
- 2 Female / Black (KUM\_CDR\_02F\_B)



1. R	Speaker (+)	2. L	Speaker (-)
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**D34 Passenger Tweeter Speaker**

- 2 Female / White (KUM\_CDR\_02F\_W)



- |      |             |      |             |
|------|-------------|------|-------------|
| 1. L | Speaker (-) | 2. R | Speaker (+) |
|------|-------------|------|-------------|

**D41 Rear Door Lock Actuator LH**

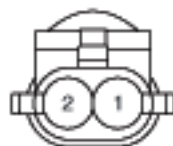
- 7 Female / Black (FCI\_ACTRWP\_07F\_B)



- |      |                                     |      |                                       |
|------|-------------------------------------|------|---------------------------------------|
| 1. L | VP Junction Box (Door Unlock Relay) | 5. B | Ground (GF02)                         |
| 2. O | VP Junction Box (Door Lock Relay)   | 6. Y | IPS Control Module (Door Lock/Unlock) |
| 3. - | -                                   | 7. - | -                                     |
| 4. - | -                                   |      |                                       |

**D49 Rear Power Window Motor LH**

- 2 Female / Gray (FCI\_SENSOR\_02F\_GR)



- |      |               |      |               |
|------|---------------|------|---------------|
| 1. L | Window Switch | 2. G | Window Switch |
|------|---------------|------|---------------|

**D50 Rear Power Window Switch LH**

- 8 Female / White (KET\_090III\_08F\_W)



- |      |                    |        |                                |
|------|--------------------|--------|--------------------------------|
| 1. G | Motor              | 6. O   | VP Junction Box - P/WDW LH 25A |
| 2. P | Window Main Switch | 7. Br  | Window Main Switch             |
| 3. B | Ground (GF02)      | 8. R/O | ILL. (+)                       |
| 4. L | Motor              |        |                                |
| 5. - | -                  |        |                                |

**D53 Rear Door Speaker LH**

- 2 Female / Black (KUM\_CDR\_02F\_B)



- |      |             |      |             |
|------|-------------|------|-------------|
| 1. Y | Speaker (+) | 2. B | Speaker (-) |
|------|-------------|------|-------------|

**D61 Rear Door Lock Actuator RH**

- 7 Female / Black (FCI\_ACTRWP\_07F\_B)



- |      |                                       |      |                                     |
|------|---------------------------------------|------|-------------------------------------|
| 1. - | -                                     | 5. - | -                                   |
| 2. Y | IPS Control Module (Door Lock/Unlock) | 6. O | VP Junction Box (Door Lock Relay)   |
| 3. B | Ground (GF06)                         | 7. L | VP Junction Box (Door Unlock Relay) |
| 4. - | -                                     |      |                                     |



**D69 Rear Power Window Motor RH**

- 2 Female / Gray (FCL\_SENSOR\_02F\_GR)

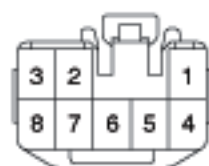


1. P Window Switch

2. Br Window Switch

**D70 Rear Power Window Switch RH**

- 8 Female / White (KET\_090III\_08F\_W)

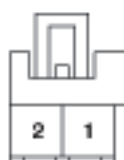


1. Br Motor  
 2. L Window Main Switch  
 3. B Ground (GF08)  
 4. P Motor  
 5. -

6. R I/P Junction Box - P/WDW RH 25A  
 7. O Window Main Switch  
 8. R/O ILL. (+)

**D73 Rear Door Speaker RH**

- 2 Female / Black (KUM\_CDR\_02F\_B)

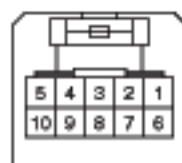


1. G Speaker (+)

2. O Speaker (-)

**R01 Electro Chromic Mirror**

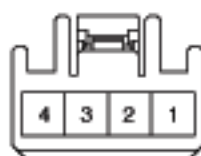
- 10 Female / Black (SUM\_025\_10F\_B)



1. Y/B	Rear View Camera (Video GND. (-))	6. G	I/P Junction Box - ROOM LP 10A (Home Link)
2. -	-	7. -	-
3. Y	Rear View Camera (Video Power (+))	8. B	Ground (GM02)
4. R/B	Rear View Camera (Video VGND.)	9. L	I/P Junction Box - Back-Up Lamp Relay
5. R	Rear View Camera (Video In)	10. Gr/O	I/P Junction Box - MODULE 2 10A

**R02 Map Lamp**

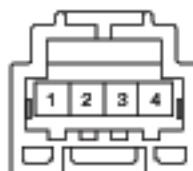
- 4 Female / White (AMP\_090III\_04F\_W)



1. B	Ground (GM02)	3. Br/B	Room Lamp
2. G	I/P Junction Box - ROOM LP 10A	4. Br	BCM (Room Lamp Control)

**R03 MIC**

- 10 Male / Black (AMP\_MQS\_04M\_B)



1. R	Audio (+)	3. -	-
2. B	Audio (-)	4. -	-

**R05 Room Lamp**

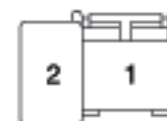
- 3 Female / White (AMP\_070\_03F\_W\_HOR)



1. R	I/P Junction Box - ROOM LP 10A	3. B	Ground (GM02)
2. Br/B	Map Lamp		

**R06 Driver Vanity Lamp**

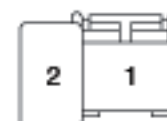
- 2 Female / Black (AMP\_PLM2\_02F\_B\_DL)



1. G	I/P Junction Box - ROOM LP 10A	2. B	Ground (GM02)
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**R07 Passenger Vanity Lamp**

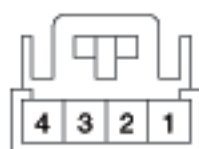
- 2 Female / Black (AMP\_PLM2\_02F\_B\_DL)



1. G	I/P Junction Box - ROOM LP 10A	2. B	Ground (GM02)
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**R08 Sunroof Switch**

- 4 Female / White (AMP\_070\_04F\_W)



1. Br/B	Close/Tilt Down Switch	3. B	Ground (GM02)
2. L	Tilt Up Switch	4. W	Open Switch

**R09 Sunroof Motor**

- 8 Female / White (AMP\_090III\_08F\_W)



1. B	Ground (GM02)	5. W	Open
2. R	VP Junction Box - SUNROOF 15A	6. L	Tilt Up
3. O	VP Junction Box - MODULE 4 10A	7. -	-
4. Br/B	Close/Tilt Down	8. Br	Vehicle Speed Signal

**R11 High-Mounted Stop Lamp**

- 2 Male / White (KUM\_CDR\_02M\_W)



1. G/B	DBC Relay	2. B	Ground (GR01)
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**R12 License Lamp (Rear View Camera & Tail Gate Handle Switch)**

- 9 Male / White (KUM\_CDR\_09M\_W)



1. R	Rear View Camera (CVBS)	6. B	Ground (GR01)
2. R/B	Rear View Camera (VGND)	7. B	Ground (GR01)
3. G/B	VP Junction Box (IPS 7)	8. Y/B	Tail Gate Handle Switch
4. Y	Rear View Camera (B+)	9. G	VP Junction Box - IPS 7
5. Y/B	Rear View Camera (GND)		

**R13 Rear Combination Lamp (IN) LH**

- 4 Female / White (KET\_62C\_04F\_W)



1. B	Ground (GR01)	3. G	VP Junction Box - IPS 7
2. -	-	4. R	VP Junction Box - Back-Up Lamp Relay

**R14 Rear Combination Lamp (IN) RH**

- 4 Female / White (KET\_62C\_04F\_W)



1. B	Ground (GR01)	3. Y	VP Junction Box - IPS 2
2. -	-	4. R	VP Junction Box - Back-Up Lamp Relay

**R15 Rear Defogger (-)**

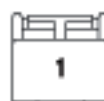
- 1 Female / Black (AMP\_PLM2\_01F\_B)



1. B Ground (GF03 / GR01)

**R16 Rear Defogger (+)**

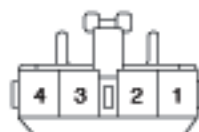
- 1 Female / Black (AMP\_PLM2\_01F\_B)



1. G E/R Fuse &amp; Relay Box - RR HTD Relay

**R17 Rear Wiper Motor**

- 4 Female / White (KET\_090III\_04F\_W)



1. B	Ground (GR01)	3. Br	ICM Relay Box - Rear Wiper Relay
2. W	ICM Relay Box - Rear Wiper Relay	4. L	I/P Junction Box - WIPER RR 15A

**R18 Tail Gate Latch**

- 4 Female / Black (KUM\_NDWP\_04F\_B)



1. B	Ground (GR01)	3. L	I/P Junction Box - Tail Gate Relay
2. W	IPS Control Module, Luggage Lamp	4. B	Ground (GR01)

**R22 Smart Key Bumper Antenna**

- 2 Female / Black (AMP\_EJWP\_02F\_B)



1. B Smart Key Control Module  
(Bumper Antenna Signal)

2. W Smart Key Control Module  
(Bumper Antenna Ground)

**E01 Driver Front Impact Sensor**

- 2 Female / Dark Gray (FCL\_PAEWP\_02F\_DGr\_B)



1. Br SRS Control Module (High)      2. W SRS Control Module (Low)

**E02 Passenger Front Impact Sensor**

- 2 Female / Dark Gray (FCL\_PAEWP\_02F\_DGr\_B)



1. L SRS Control Module (High)      2. O SRS Control Module (Low)

**E11 Start Motor**

- 1 Female / N/A (CHT\_919312B310\_01F)



1. B Battery Power

**E12 Start Solenoid**

- 1 Female / Gray (KET\_58X\_01F\_Gr)



1. R E/R Fuse &amp; Relay Box - Start Relay

**E13 Alternator**

- 1 Female / N/A (TAE\_919803K100\_01F)



1. B Battery &amp; Battery Fuse Box - ALT 150A

**S01 Driver Seat Manual Switch**

- 20 Female / N/A (AMP\_070\_20F)



1. Br	Driver Lumbar Support Switch (RR)	11. Y/R	Driver Reclining Switch (FR)
2. B	Ground (GF01)	12. Gr	Driver Reclining Limit Switch (FR)
3. L/R	Driver Slide Switch (FR)	13. G	Driver Reclining Switch (RR)
4. R/B	Driver Slide Switch (RR)	14. -	-
5. B	Ground (GF01)	15. R	VP Junction Box - P/SEAT (DRV) 20A
6. G/R	Driver Height Switch (Down)	16. L/W	Driver Lumbar Support Switch (FR)
7. L/Y	Driver Height Switch (Up)	17. B	Ground (GF01)
8. B	Ground (GF01)	18. -	-
9. -	-	19. -	-
10. Y	Driver Reclining Limit Switch (RR)	20. -	-

**S02 Driver Reclining Limit Switch**

- 3 Female / N/A (KET\_0902\_03F)



1. Y	Seat Manual Switch (RR)	3. B	Ground (GF01)
2. Gr	Seat Manual Switch (FR)		

**S03 Driver Reclining Motor**

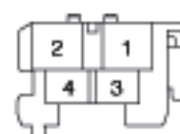
- 2 Male / N/A (KET\_09011\_02M)



1. G	Seat Manual Switch (RR)	2. Y/R	Seat Manual Switch (FR)
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**S04 Driver Height Motor**

- 4 Female / N/A (AMP\_JPMT\_4F)



1. L/Y	Seat Manual Switch (Up)	3. -	-
2. G/R	Seat Manual Switch (Down)	4. -	-

**S05 Driver Slide Motor**

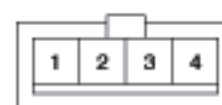
- 4 Female / N/A (KET\_090-2\_4F)



1. L/R	Seat Manual Switch (FR)	3. -	-
2. -	-	4. R/B	Seat Manual Switch (RR)

**S06 Driver Seat Warmer (With Power Seat)**

- 4 Male / N/A (KET\_090-2\_04M)



1. B/W	IND. (GND)	3. Y	Seat Switch (Low)
2. B	Ground (GF01)	4. R	Seat Switch (High)



**S07 Driver Lumbar Support Motor**

- 2 Male / N/A (KET\_09011\_02M)



1. Br    Seat Manual Switch (RR)                      2. L/W    Seat Manual Switch (FR)

## CB21 Control To Battery Harness Connection

- 1 Male / Black (KUM\_NMWP\_01M\_B)



1. R E/R Fuse & Relay Box (Start Relay)

- 1 Female / Black (KUM\_NMWP\_01F\_B)



1. R Start Solenoid

## CF11 Floor To Control Harness Connection

- 22 Male / White (KET\_090III\_22M\_W)



1. -	-	12. L/B	ESC Module (Yaw Rate Sensor - Ground)
2. G	ICM Relay Box (DBC Relay)	13. O	ESC Module (Yaw Rate Sensor - Power)
3. W/B	Ignition Lock Switch (M/T)	14. B	ESC Module (Yaw Rate Sensor - CAN (Low))
4. Y	ESC Module (Yaw Rate Sensor - CAN (High))	15. G/B	ATM Shift Lever ('P' Position Switch)
5. B	ESC Module (RR VCC)	16. W/B	ATM Shift Lever (Shift Lock Solenoid)
6. Y	ESC Module (RR SIG)	17. Gr	PCM (CCV Control)
7. R	ESC Module (RL VCC)	18. O/B	EMS Box - SENSOR 1 10A
8. L	ESC Module (RL SIG)	19. P	External Buzzer
9. G/B	Stop Lamp Switch	20. G	PCM (FTPS Signal)
10. -	-	21. Br	PCM (FTPS Ground)
11. -	-	22. L	PCM (Sensor Supply)

- 22 Female / White (KET\_090III\_22F\_B)



1. -	-	12. L/B	Yaw Rate Sensor (Ground)
2. G/B	High-Mounted Stop Lamp, Stop Lamp L/RH	13. O	Yaw Rate Sensor (Power)
3. W/B	M/T - Smart Key Control Module (Ignition Lock Switch)	14. B	Yaw Rate Sensor (CAN - Low)
4. Y	Yaw Rate Sensor (CAN - High)	15. G/B	A/T - BCM, Smart Key Control Module
5. B	Rear Wheel Sensor RH (VCC)	16. W/B	VP Junction Box - TPMS 7.5A
6. Y	Rear Wheel Sensor RH (SIG)	17. Gr	Canister Close Valve (Control)
7. R	Rear Wheel Sensor LH (VCC)	18. O/B	Canister Close Valve (Power)
8. L	Rear Wheel Sensor LH (SIG)	19. P	Smart Key Control Module (External Buzzer)
9. G/B	Smart Key Control Module (Stop)	20. G	FTPS (Signal)
10. -	-	21. Br	FTPS (Ground)
11. -	-	22. L	FTPS (Supply)

## EC11 Control To Front End Module Harness Connection

- 2 Female / Black (KUM\_NMWP\_02F\_B)



- 2 Male / Black (KUM\_NMWP\_02M\_B)



1. Br Driver Front Impact Sensor (High)    2. W Driver Front Impact Sensor (Low)

1. Br SRS - Driver FIS (High)    2. W SRS - Driver FIS (Low)

## EC21 Front End Module Harness To Control Connection

- 2 Male / Black (KUM\_NMWP\_02M\_B)



- 2 Female / Black (KUM\_NMWP\_02F\_B)



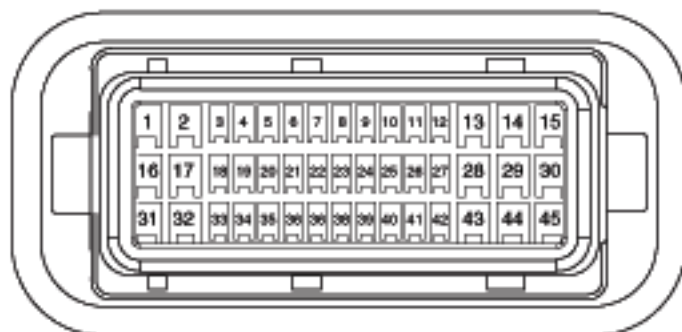
1. L Passenger Front Impact Sensor (High)    2. O Passenger Front Impact Sensor (Low)

1. L SRS - Passenger FIS (High)    2. O SRS - Passenger FIS (Low)

# Harness Connection (3)

## FD11 Floor To Driver Door Harness Connection

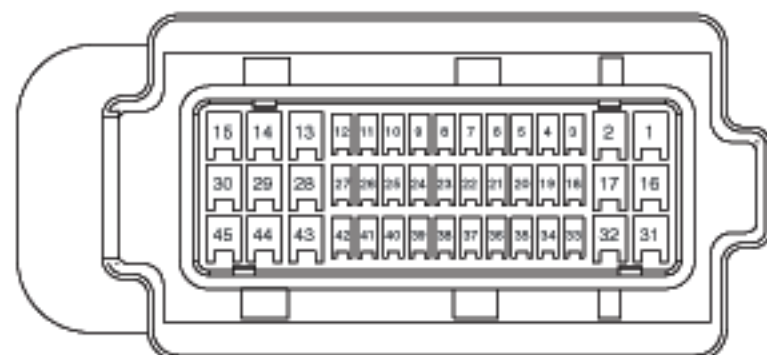
- 45 Male / Black (KET\_HYBRID\_45M\_B)



1. G	Passenger Power Window Switch	16. L	Rear Power Window Switch RH	31. W	BCM	41. -	-
2. O	I/P Junction Box - P/WDW LH 25A	17. Y	I/P Junction Box - SAFETY POWER WINDOW 20A	32. B	(Turn & Hazard Lamp Output RL)	42. -	-
3. -	-	18. G	Passenger Power Outside Mirror	33. P	Ground (GF01)	43. P	Rear Power Window Switch LH
4. P	Passenger Power Outside Mirror	19. Gr/B	IPS Control Module (Door Unlock Switch)	34. R	IPS Control Module (Driver Door Key Lock Signal)	44. O	Rear Power Window Switch RH
5. G	I/P Junction Box - AUDIO 2 10A	20. L/B	IPS Control Module (Door Lock Switch)	35. O	IPS Control Module (Driver Door Key Lock Signal)	45. W/O AMP	
6. B	SRS - Driver SIS (High)	21. G	ICM Relay Box (Two Turn Unlock Relay)	36. Gr	I/P Junction Box (Door Lock Relay)	W	Audio - FL (-)
7. W	SRS - Driver SIS (Low)	22. Gr	IPS Control Module (Driver Door Lock/Unlock Signal)	37. -	Passenger Power Outside Mirror	With AMP	
8. -	-	23. Gr/B	Smart Key Control Module (L_FR_DR_Lock/Unlock)	38. W	-	W	AMP - FL (-)
9. -	-	24. R	I/P Junction Box - IPS 3 (ILL.)	39. Br	Smart Key Control Module (O_FL_DR_ANT_GND)		
10. -	-	25. -	-	40. G	Smart Key Control Module (O_FL_DR_ANT)		
11. Br	With AMP - AMP (FL (+))	26. -	-		BCM (Safety Power Window)		
12. W	With AMP - AMP (FL (-))	27. -	-				
13. B	Ground (GF01)	28. W/O AMP					
14. L/B	I/P Junction Box - HTD MIRR 7.5A	Br	Audio - FL (+)				
15. R	I/P Junction Box - P/WDW RH 25A	With AMP					
		Br	AMP - FL (+)				
		29. Gr	Passenger Power Window Switch				
		30. Br	Rear P/WDW Switch LH				

## FD11 Floor To Driver Door Harness Connection (cont'd)

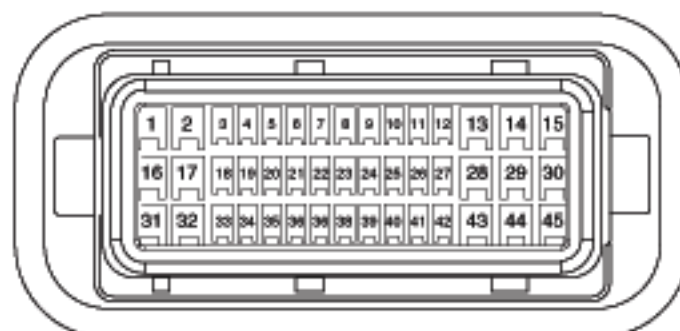
- 45 Female / Black (KET\_HYBRID\_45F\_B)



1. G	Power Window Main Switch (Passenger Window Switch)	16. L	Power Window Main Switch (RR)	31. W	Driver Power Outside Mirror (Turn Lamp)	41. -	-
2. O	With Safety - Window Switch (RL B+) W/O Safety - Window Switch (Driver, RL B+)	17. Y	Safety Power Window Module (B+)	32. B	Ground -	42. -	-
3. -	-	18. G	Power Outside Mirror Switch (VR)	33. P	Power Window Main Switch, Power Outside Mirror Switch, Power Outside Mirror Switch	43. P	Power Window Main Switch (RL)
4. P	Power Outside Mirror Switch (Up/Down)	19. Gr/B	Power Window Main Switch (Door Switch (Unlock))	34. R	Driver Door Lock Actuator (Key Unlock)	44. O	Power Window Main Switch (RR)
5. G	Power Outside Mirror Switch (ACC)	20. L/B	Power Window Main Switch (Door Switch (Lock))	35. O	Driver Door Lock Actuator (Key Lock)	45. W	Driver Door Speaker (-), W/O AMP -
6. B	Driver Side Impact Sensor (High)	21. G	Driver Door Lock Actuator (Actuator)	36. Gr	Driver Door Lock Actuator (Actuator)		Driver Tweeter Door Speaker (-)
7. W	Driver Side Impact Sensor (Low)	22. Gr	Driver Door Lock Actuator (Door Lock/Unlock)	37. -	Driver Door Lock Actuator (Actuator)		
8. -	-	23. Gr/B	Driver Smart Key Outside Handle (Lock Switch)	38. W	Power Outside Mirror Switch (HR)		
9. -	-	24. R	Power Window Main Switch (ILL. +)	39. Br	-		
10. -	-	25. -	-	40. G	Driver Smart Key Outside Handle (Antenna -)		
11. Br	With AMP - Driver Door Tweeter Speaker (+)	26. -	-		Driver Smart Key Outside Handle (Antenna +)		
12. W	With AMP - Driver Door Tweeter Speaker (-)	27. -	-		Safety Power Window Module (COM)		
13. B	Ground - Driver Door Lock Actuator, Driver Smart Key Outside Handle, Driver Power Outside Mirror	28. Br	Driver Door Speaker (+), Driver Door Tweeter Speaker (+)				
14. L/B	Driver Power Outside Mirror (Defogger)	29. Gr	Power Window Main Switch (Passenger Window Switch)				
15. R	Power Window Main Switch - Window Switch (Passenger B+, RR B+)	30. Br	Power Window Main Switch (RL)				

## FD21 Floor To Passenger Door Harness Connection

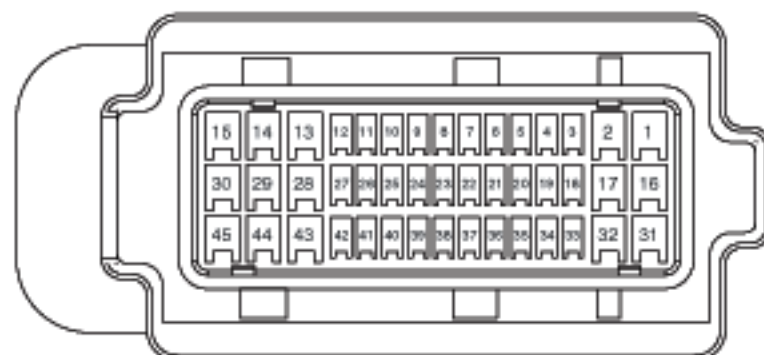
- 45 Male / Black (KET\_HYBRID\_45M\_B)



1. -	-	18. -	-	28. Gr	Power Outside Mirror Switch (HR)	39. R	With AMP - AMP (FR (+))
2. -	-	19. -	-	29. P	Power Outside Mirror Switch (Up/Down)	40. L	With AMP - AMP (FR (-))
3. O	VP Junction Box (Door Lock Relay)	20. Br	IPS Control Module (Passenger Door Key Lock Signal)	30. -	-	41. R	SRS - Passenger SIS (High)
4. -	-	21. G	IPS Control Module (Passenger Door Key Unlock Signal)	31. B	Ground (GF06)	42. L	SRS - Passenger SIS (Low)
5. -	-	22. -	-	32. P	BCM (Turn & Hazard Lamp Output RR)	43. W/O AMP	R Audio - FR (+)
6. -	-	23. B	Smart Key Control Module (O_FR_DR_ANT_GND)	33. L	VP Junction Box (Door Unlock Relay)	With AMP	R AMP - FR (+)
7. -	-	24. W/B	Smart Key Control Module (L_FR_DR_Lock/Unlock)	34. -	-	44. W/O AMP	L Audio - FR (-)
8. -	-	25. W	IPS Control Module (Passenger Door Lock/Unlock Signal)	35. Gr/B	IPS Control Module (Door Unlock Switch)	With AMP	L AMP - FR (-)
9. -	-	26. -	-	36. L/B	IPS Control Module (Door Lock Switch)	45. -	-
10. -	-	27. W	Smart Key Control Module (O_FR_DR_ANT)	37. -	-		
11. -	-			38. R/O	VP Junction Box - IPS 3 (ILL)		
12. -	-						
13. R	VP Junction Box - P/WDW RH 25A						
14. Gr	Power Window Main Switch (Passenger Window Switch)						
15. G	Power Window Main Switch (Passenger Window Switch)						
16. L/B	VP Junction Box - HTD MIRR 7.5A						
17. G	Power Outside Mirror Switch (VR)						

## FD21 Floor To Passenger Door Harness Connection (cont'd)

- 45 Female / Black (KET\_HYBRID\_45F\_B)



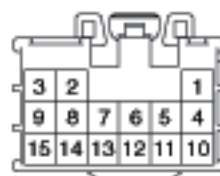
1. -	-	16. L/B	Passenger Power Outside Mirror (Defogger)	31. B	Ground - Passenger Power Window Switch, Passenger Door Lock Actuator, Passenger Power Outside Mirror, Passenger Smart Key Outside Handle	41. R	Passenger Side Impact Sensor (High)
2. -	-	17. G	Passenger Power Outside Mirror	32. P	Passenger Power Outside Mirror (Turn Lamp)	42. L	Passenger Side Impact Sensor (Low)
3. O	Passenger Door Lock Actuator (Actuator)	18. -	-	33. L	Passenger Door Lock Actuator (Actuator)	43. R	Passenger Door Speaker (+), W/O AMP -
4. -	-	19. -	-	34. -	-	44. L	Passenger Door Speaker (-), W/O AMP -
5. -	-	20. Br	Passenger Door Lock Actuator (Key Lock)	35. Gr/B	Passenger Power Window Switch (Door Switch (Unlock))	45. -	-
6. -	-	21. G	Passenger Door Lock Actuator (Key Unlock)	36. L/B	Passenger Power Window Switch (Door Switch (Lock))		
7. -	-	22. -	-	37. -	-		
8. -	-	23. B	Passenger Smart Key Outside Handle (Antenna -)	38. R/O	Passenger Power Window Switch (ILL. +)		
9. -	-	24. W/B	Passenger Smart Key Outside Handle (Lock Switch)	39. R	With AMP - Passenger Door Tweeter Speaker (+)		
10. -	-	25. W	Passenger Door Lock Actuator (Door Lock/Unlock)	40. L	With AMP - Passenger Door Tweeter Speaker (-)		
11. -	-	26. -	-				
12. -	-	27. W	Passenger Smart Key Outside Handle (Antenna +)				
13. L	Passenger Power Window Switch (B+)	28. Gr	Passenger Power Outside Mirror				
14. Y	Passenger Power Window Switch	29. P	Passenger Power Outside Mirror				
15. G	Passenger Power Window Switch	30. -	-				

## FD31 Floor To Rear Door LH Harness Connection

- 15 Male / White (KET\_090III\_15M\_W)



- 15 Female / White (KET\_090III\_15F\_W)



1. L	VP Junction Box (Door Unlock Relay)	9. Br	Power Window Main Switch (Rear Window Switch LH)
2. O	VP Junction Box (Door Lock Relay)	10. B	Ground (GF02)
3. -	-	11. P	Power Window Main Switch (Rear Window Switch LH)
4. Y	IPS Control Module (Rear Door LH Lock/Unlock Signal)	12. R/O	VP Junction Box - IPS 3 (ILL.)
5. B	Ground (GF02)	13. -	-
6. -	-	14. Y	Audio / AMP - RL (+)
7. -	-	15. B	Audio / AMP - RL (-)
8. O	VP Junction Box - P/WDW LH 25A		

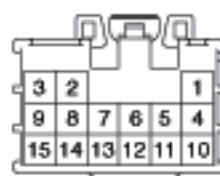
1. L	Rear Door Lock Actuator LH	9. Br	Rear Power Window Switch LH
2. O	Rear Door Lock Actuator LH	10. B	Rear Power Window Switch LH (ILL. -)
3. -	-	11. P	Rear Power Window Switch LH
4. Y	Rear Door Lock Actuator LH (Lock/Unlock Switch)	12. R/O	Rear Power Window Switch LH (ILL. +)
5. B	Rear Door Lock Actuator LH (Lock/Unlock Switch Ground)	13. -	-
6. -	-	14. Y	Rear Door Speaker LH (+)
7. -	-	15. B	Rear Door Speaker LH (-)
8. O	Rear Power Window Switch LH (B+)		

## FD41 Floor To Rear Door RH Harness Connection

- 15 Male / White (KET\_090III\_15M\_W)



- 15 Female / White (KET\_090III\_15F\_W)



1. L	VP Junction Box (Door Unlock Relay)	9. O	Power Window Main Switch (Rear Window Switch RH)
2. O	VP Junction Box (Door Lock Relay)	10. G	Audio / AMP - RR (+)
3. R/O	VP Junction Box - IPS 3 (ILL.)	11. O	Audio / AMP - RR (-)
4. Y	IPS Control Module (Rear Door RH Lock/Unlock Signal)	12. -	-
5. B	Ground (GF06)	13. -	-
6. L	Power Window Main Switch (Rear Window Switch RH)	14. -	-
7. -	-	15. B	Ground (GF08)
8. R	VP Junction Box - P/WDW RH 25A		

1. L	Rear Door Lock Actuator RH	9. O	Rear Power Window Switch RH
2. O	Rear Door Lock Actuator RH	10. G	Rear Door Speaker RH (+)
3. R/O	Rear Power Window Switch RH (ILL. +)	11. O	Rear Door Speaker RH (-)
4. Y	Rear Door Lock Actuator RH	12. -	-
5. B	Rear Door Lock Actuator RH	13. -	-
6. L	Rear Power Window Switch RH	14. -	-
7. -	-	15. B	Rear Power Window Switch RH (ILL. -)
8. R	Rear Power Window Switch RH (B+)		



## FR11 Floor To Tail Gate Harness Connection

- 17 Male / White (KET\_HYB1809\_17M\_W)



- 17 Female / White (KET\_HYB1809\_17F\_W)



- |                         |                                  |                                    |
|-------------------------|----------------------------------|------------------------------------|
| 1. L                    | I/P Junction Box - WIPER RR 15A  | 11. W/O A/V & Navigation           |
| 2. Br                   | ICM Relay Box (Rear Wiper Relay) | Y Electro Chromic Mirror           |
| 3. W                    | ICM Relay Box (Rear Wiper Relay) | (Video PWR. +)                     |
| 4. W/O A/V & Navigation |                                  | With A/V & Navigation              |
| Y/B                     | Electro Chromic Mirror           | Y A/V & Navigation Head Module     |
|                         | (Video GND. -)                   | (Video PWR. +)                     |
| With                    | A/V & Navigation                 | 12. G                              |
| Y/B                     | A/V & Navigation Head Module     | E/R Fuse & Relay Box               |
|                         | (Video GND. -)                   | (RR HTD Relay)                     |
| 5. -                    | -                                | 13. Y/B                            |
| 6. W/O A/V & Navigation |                                  | Smart Key Control Module           |
| R                       | Electro Chromic Mirror           | (Tail Gate)                        |
|                         | (Video In)                       | 14. L                              |
| With A/V & Navigation   |                                  | I/P Junction Box (Tail Gate Relay) |
| R                       | A/V & Navigation Head Module     | 15. W                              |
|                         | (Video In)                       | IPS Control Module                 |
| 7. W/O A/V & Navigation |                                  | (Tail Gate Open Switch),           |
| R/B                     | Electro Chromic Mirror           | Luggage Lamp                       |
|                         | (Video VGND.)                    | 16. R                              |
| With A/V & Navigation   |                                  | I/P Junction Box                   |
| R/B                     | A/V & Navigation Head Module     | (Back-Up Lamp Relay)               |
|                         | (Video VGND.)                    | 17. B                              |
| 8. G                    | IPS Control Module - IPS 7       | Ground (GF03)                      |
| 9. Y                    | IPS Control Module - IPS 2       |                                    |
| 10. G/B                 | ICM Relay Box (DBC Relay)        |                                    |

- |         |                            |         |                           |
|---------|----------------------------|---------|---------------------------|
| 1. L    | Rear Wiper Motor           | 11. Y   | License Lamp              |
| 2. Br   | Rear Wiper Motor           |         | (Rear View Camera - B+)   |
| 3. W    | Rear Wiper Motor           | 12. G   | Rear Defogger (+)         |
| 4. Y/B  | License Lamp               | 13. Y/B | License Lamp              |
|         | (Rear View Camera - GND.)  |         | (Tail Gate Handle Switch) |
| 5. -    | -                          | 14. L   | Tail Gate Latch           |
| 6. R    | License Lamp               | 15. W   | Tail Gate Latch           |
|         | (Rear View Camera - CVBS)  |         | (Tail Gate Open Switch)   |
| 7. R/B  | License Lamp               | 16. R   | Back-Up Lamp LH/RH        |
|         | (Rear View Camera - VGND.) | 17. B   | Rear Defogger (-)         |
| 8. G    | Tail Lamp LH, License Lamp |         |                           |
| 9. Y    | Tail Lamp RH               |         |                           |
| 10. G/B | High-Mounted Stop Lamp     |         |                           |

## FR22 Floor To Bumper Harness Connection

- 2 Male / Black (KUM\_NMWP\_02M\_B)



- |      |  |      |  |
|------|--|------|--|
| 1. B | Smart Key Control Module<br>(Bumper ANT) | 2. W | Smart Key Control Module<br>(Bumper ANT GND) |
|------|--|------|--|

- 2 Female / Black (KUM\_NMWP\_02F\_B)



- |      |  |      |  |
|------|--|------|--|
| 1. B | Smart Key Bump Antenna<br>(Bumper ANT) | 2. W | Smart Key Bump Antenna<br>(Bumper ANT GND) |
|------|--|------|--|

## FS11 Floor To Driver Seat Harness Connection

- 22 Female / White (KET\_080III\_22F\_W)



- |       |   |        |   |
|-------|---|--------|---|
| 1. -  | -   | 12. -  | -   |
| 2. -  | -   | 13. -  | -   |
| 3. -  | -   | 14. -  | -   |
| 4. -  | -   | 15. -  | -   |
| 5. W  | Console Switch<br>(Driver Seat Warmer Relay - High) | 16. Br | Console Switch<br>(Driver Seat Warmer Switch) |
| 6. L  | Console Switch<br>(Driver Seat Warmer Relay - Low)  | 17. -  | -   |
| 7. -  | -   | 18. -  | -   |
| 8. B  | Ground (GF01)                                       | 19. -  | -   |
| 9. -  | -   | 20. -  | -   |
| 10. B | Ground (GF01)                                       | 21. -  | -   |
| 11. R | VP Junction Box -<br>P/SEAT (DRV) 20A               | 22. -  | -   |

- 22 Male / White (KET\_090-2\_22M\_W)



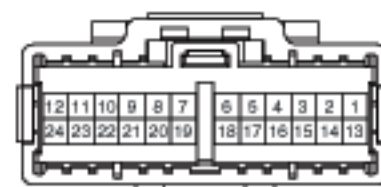
- |       |   |         |                                    |
|-------|---|---------|------------------------------------|
| 1. -  | -   | 12. -   | -                                  |
| 2. -  | -   | 13. -   | -                                  |
| 3. -  | -   | 14. -   | -                                  |
| 4. -  | -   | 15. -   | -                                  |
| 5. R  | Driver Seat Warmer<br>(Switch - High)                                   | 16. B/W | Driver Seat Warmer<br>(IND. - GND) |
| 6. Y  | Driver Seat Warmer<br>(Switch - Low)                                    | 17. -   | -                                  |
| 7. -  | -   | 18. -   | -                                  |
| 8. B  | Driver Seat Warmer (GND)  | 19. -   | -                                  |
| 9. -  | -   | 20. -   | -                                  |
| 10. B | Driver Seat Manual Switch (GND),<br>Driver Reclining Limit Switch (GND) | 21. -   | -                                  |
| 11. R | Driver Seat Manual Switch (B+)  | 22. -   | -                                  |

## MC11 Main To Control Harness Connection

- 24 Male / White (KUM\_HSC\_24M\_W)



- 24 Female / White (KUM\_HSC\_24F\_W)



1. -	-	13. G	Cruise Remote Control Switch (Supply)
2. -	-	14. -	-
3. -	-	15. -	-
4. W/B	PDM	16. -	-
5. -	-	17. O/B	ESC Off Switch
6. M/T	Vehicle Speed Signal	18. P	PDM
Br		19. O	SRS - Passenger FIS (Low)
7. L	SRS - Passenger FIS (High)	20. O	DBC Switch
8. -	-	21. -	-
9. -	-	22. -	-
10. -	-	23. -	-
11. B	Cruise Remote Control Switch (Ground)	24. -	-
12. L	Cruise Remote Control Switch (Signal)		

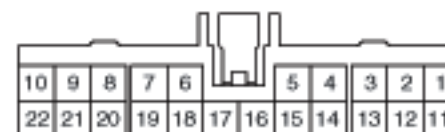
1. -	-	13. G	E/R Fuse & Relay Box - ECU 2 7.5A
2. -	-	14. -	-
3. -	-	15. -	-
4. W/B	PCM (Engine Speed Signal)	16. -	-
5. -	-	17. O	ESC Module (ESC Off Switch 'ON')
6. M/T	Vehicle Speed Sensor	18. P	ESC Module (Wheel Speed Sensor Output (RR))
Br		19. O	Passenger Front Impact Sensor (Low)
7. L	Passenger Front Impact Sensor (High)	20. O	ESC Module (DBC Switch 'ON')
8. -	-	21. -	-
9. -	-	22. -	-
10. -	-	23. -	-
11. B	PCM (Cruise Control Switch Ground)	24. -	-
12. L	PCM (Cruise Control Switch Signal)		

## MC21 Main To Control Harness Connection

- 22 Male / Blue (KET\_090III\_22M\_L)



- 22 Female / Blue (KET\_090III\_22F\_L)



- |       |                                       |          |                                  |
|-------|---------------------------------------|----------|----------------------------------|
| 1. O  | C-CAN (Low)<br>(Data Link Connector)  | 12. -    | -                                |
| 2. -  | -                                     | 13. -    | -                                |
| 3. -  | -                                     | 14. B    | Front Washer Switch              |
| 4. -  | -                                     | 15. L    | Rear Washer Switch, BCM          |
| 5. -  | -                                     | 16. O    | Instrument Cluster (Fuel Sender) |
| 6. G  | ICM Relay Box (DBC Relay)             | 17. -    | -                                |
| 7. -  | -                                     | 18. -    | -                                |
| 8. -  | -                                     | 19. W/B  | ICM Relay Box (DBC Relay)        |
| 9. -  | -                                     | 20. -    | -                                |
| 10. - | -                                     | 21. Br/O | Instrument Cluster (IMMO. IND.)  |
| 11. G | C-CAN (High)<br>(Data Link Connector) | 22. -    | -                                |

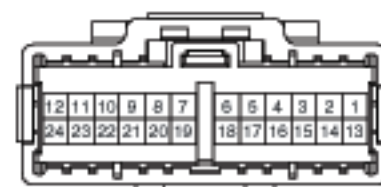
- |       |  |          |                              |
|-------|--|----------|------------------------------|
| 1. O  | C-CAN (Low)<br>(ESC Module, PCM,<br>Multipurpose Check Connector)  | 12. -    | -                            |
| 2. -  | -  | 13. -    | -                            |
| 3. -  | -  | 14. B    | Front Washer Motor           |
| 4. -  | -  | 15. L    | Rear Washer Motor            |
| 5. -  | -  | 16. O    | PCM (Fuel Tank Level Sender) |
| 6. G  | ESC Module,<br>High-Mounted Stop Lamp,<br>Stop Lamp L/R/RH         | 17. -    | -                            |
| 7. -  | -  | 18. -    | -                            |
| 8. -  | -  | 19. W/B  | ESC Module                   |
| 9. -  | -  | 20. -    | -                            |
| 10. - | -  | 21. Br/O | PCM (IMMO. IND.)             |
| 11. G | C-CAN (High)<br>(ESC Module, PCM,<br>Multipurpose Check Connector) | 22. -    | -                            |

## MC31 Main To Control Harness Connection

- 24 Male / White (KUM\_HSC\_24M\_W)



- 24 Female / White (KUM\_HSC\_24F\_W)



1. -	-	13. -	-
2. R/B	PDM (Start Feedback Signal)	14. -	-
3. Gr	A/C Control Module (ECV IN)	15. L	A/C Control Module (ECV OUT)
4. Y/B	Instrument Cluster (Check Engine IND.)	16. -	-
5. -	-	17. O/B	BCM (Wiper Relay (Low) Control)
6. G	ICM Relay Box (DBC Relay)	18. -	-
7. Y/B	Instrument Cluster (Oil Pressure IND.)	19. -	-
8. R/B	4WD ECM (ON/START Input)	20. Gr	Multifunction Switch (Horn Switch)
9. W	Data Link Connector (Body K-Line)	21. -	-
10. -	-	22. -	-
11. Br	SRS - Driver FIS (High)	23. -	-
12. W	SRS - Driver FIS (Low)	24. -	-

1. -	-	12. W	Driver Front Impact Sensor (Low)
2. R/B	E/R Fuse & Relay Box (Start Relay), M/T - PCM (Start Overrun (PDM))	13. -	-
3. Gr	A/C Compressor (Electrical Control Valve (+))	14. -	-
4. Y/B	PCM (Check Engine IND.)	15. L	A/C Compressor (Electrical Control Valve (-))
5. -	-	16. -	-
6. G	Stop Lamp Switch, ESC Module	17. O/B	E/R Fuse & Relay Box (Wiper FRT, LO Relay)
7. Y/B	Oil Pressure Switch	18. -	-
8. R/B	I/P Junction Box - MODULE 1 10A	19. -	-
9. W	Multipurpose Check Connector (Body K-Line)	20. Gr	E/R Fuse & Relay Box (Horn Relay)
10. -	-	21. -	-
11. Br	Driver Front Impact Sensor (High)	22. -	-
		23. -	-
		24. -	-

## MC41 Main To Control Harness Connection

- 15 Male / Blue (AMP\_0725\_15M\_L)



- 15 Female / Blue (AMP\_0725\_15F\_L)



- |  |                                       |   |   |                          |                      |                                |                         |        |                                 |   |  |         |                                |                          |
|--|---------------------------------------|---|---|--------------------------|----------------------|--------------------------------|-------------------------|--------|---------------------------------|---|--|---------|--------------------------------|--------------------------|
| 1. With Smart Key<br>W/O Smart Key Control Module<br>W/O Smart Key<br>L Immobilizer Module | 2. G Front Wiper Deicer Switch (IND.) | 3. L/B A/C Control Module<br>(Ambient Sensor (+)) | 4. Gr A/C Control Module<br>(Sensor Ground) | 5. Gr Front Wiper Switch | 6. P Fuel Pump Motor | 7. P Front Wiper Switch (High) | 8. L Immobilizer Module | 9. - - | 10. L ICM Relay Box (DBC Relay) | 11. R With Smart Key -<br>PDM Relay Box (IGN2 Relay)<br>W/O Smart Key - Ignition Switch | 12. With Smart Key<br>P PDM Relay Box (IGN1 Relay) | 13. - - | 14. G Front Wiper Switch (Low) | 15. B Immobilizer Module |
|--|---------------------------------------|---|---|--------------------------|----------------------|--------------------------------|-------------------------|--------|---------------------------------|---|--|---------|--------------------------------|--------------------------|

- |                            |   |                       |                      |   |                                |                               |                           |        |   |  |  |         |                               |                      |
|----------------------------|---|-----------------------|----------------------|---|--------------------------------|-------------------------------|---------------------------|--------|---|--|--|---------|-------------------------------|----------------------|
| 1. L PCM (IMMO. Data Line) | 2. G E/R Fuse & Relay Box<br>(Deicer Relay) | 3. L/B Ambient Sensor | 4. Gr Ambient Sensor | 5. Gr E/R Fuse & Relay Box<br>(Wiper FRT, LO Relay) | 6. P EMS Box<br>(F/Pump Relay) | 7. P Front Wiper Motor (High) | 8. L EMS Box - SENSOR 10A | 9. - - | 10. L E/R Fuse & Relay Box -<br>STOP LP 10A | 11. R E/R Fuse & Relay Box - IGN 2 40A | 12. P E/R Fuse & Relay Box - IGN 1 30A | 13. - - | 14. G Front Wiper Motor (Low) | 15. B Ground (GHG05) |
|----------------------------|---|-----------------------|----------------------|---|--------------------------------|-------------------------------|---------------------------|--------|---|--|--|---------|-------------------------------|----------------------|

## MC51 Main To Control Harness Connection

- 1 Male / White (KET\_58L\_01M\_W)- 1 Female / White (KET\_58L\_01F\_W)



1. R E/R Fuse & Relay Box - MDPS 80A

- 1 Female / White (KET\_58L\_01F\_W)



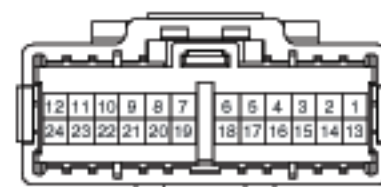
1. R EPS Control (Battery Power)

## MF11 Main To Floor Harness Connection

- 24 Male / Yellow (KUM\_HSC\_24M\_Y)



- 24 Female / Yellow (KUM\_HSC\_24F\_Y)

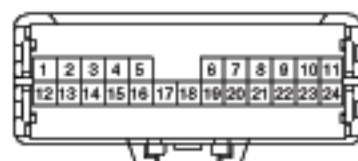


1. R/B	VP Junction Box - SMART KEY 10A	13. -	-
2. -	-	14. -	-
3. W/B	PDM (IMMO. Data)	15. -	-
4. Y/B	PDM (IMMO. Clock)	16. -	-
5. P/B	PDM (Holder ILL.)	17. -	-
6. O/B	PDM (Fob In)	18. R/O	ATM Shift Lever (ILL. +)
7. -	-	19. L/O	ATM Shift Lever (ILL. -)
8. -	-	20. W/B	ICM Relay Box (Rear Wiper Relay)
9. O	C-CAN (Low) (Data Link Connector)	21. O	Instrument Cluster (Fuel Sender +)
10. G	C-CAN (Hi) (Data Link Connector)	22. B	Instrument Cluster (Fuel Sender -)
11. -	-	23. -	-
12. -	-	24. -	-

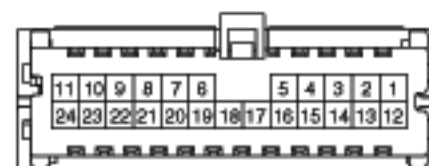
1. R/B	Fob Holder	13. -	-
2. -	-	14. -	-
3. W/B	Fob Holder (IMMO. Data)	15. -	-
4. Y/B	Fob Holder (IMMO. Clock)	16. -	-
5. P/B	Fob Holder (ILL. -)	17. -	-
6. O/B	Fob Holder (Fob In)	18. R/O	ATM Shift Lever ILL. (ILL. +)
7. -	-	19. L/O	ATM Shift Lever ILL. (ILL. -)
8. -	-	20. W/B	IPS Control Module (Rear Wiper Relay Control)
9. O	PODS (C-CAN Low)	21. O	Fuel Sender (+)
10. G	PODS (C-CAN Hi)	22. B	Fuel Sender (-)
11. -	-	23. -	-
12. -	-	24. -	-

## MF21 Main To Floor Harness Connection

- 24 Male / Gray (KET\_040III\_24M\_GR)



- 24 Female / Gray (KET\_040III\_24F\_GR)



1. -	-	13. -	-
2. -	-	14. -	-
3. -	-	15. W/O A/V & Navigation	
4. W/O A/V & Navigation		R Electro Chromic Mirror	
Y/B Electro Chromic Mirror		(Video In)	
(Video GND. -)		With A/V & Navigation	
With A/V & Navigation		R A/V & Navigation Head Module	
Y/B A/V & Navigation Head Module		(Video In)	
(Video GND. -)		16. W/O A/V & Navigation	
5. W/O A/V & Navigation		R/B Electro Chromic Mirror	
Y Electro Chromic Mirror		(Video VGND.)	
(Video PWR. +)		With A/V & Navigation	
With A/V & Navigation		R/B A/V & Navigation Head Module	
Y A/V & Navigation Head Module		(Video VGND.)	
(Video PWR. +)		17. -	-
6. G BCM (Safety Power Window Module)		18. -	-
7. O C-CAN (Low)		19. Y 4WD Lock Switch	
(Data Link Connector)		20. G C-CAN (High)	
8. -	-	(Data Link Connector)	
9. -	-	21. -	-
10. G ICM Relay Box		22. -	-
(Two Turn Unlock Relay)		23. R/O I/P Junction Box - TPMS 7.5A	
11. -	-	24. -	-
12. -	-		

1. -	-	13. -	-
2. -	-	14. -	-
3. -	-	15. R License Lamp	
4. Y/B License Lamp		(Rear View Camera - CVBS)	
(Rear View Camera - GND.)		16. R/B License Lamp	
5. Y License Lamp		(Rear View Camera - VGND.)	
(Rear View Camera - B+)		17. -	-
6. G Safety Power Window Module (COM)		18. -	-
7. O 4WD ECM (C-CAN (Low))		19. Y 4WD ECM (4WD Lock Switch)	
8. -	-	20. G 4WD ECM (C-CAN (High))	
9. -	-	21. -	-
10. G Door Lock Actuator's		22. -	-
11. -	-	23. R/O 4WD ECM (B+)	
12. -	-	24. -	-

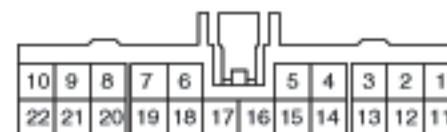


## MF31 Main To Floor Harness Connection

- 22 Male / Blue (KET\_090III\_22M\_L)



- 22 Female / Blue (KET\_090III\_22F\_L)

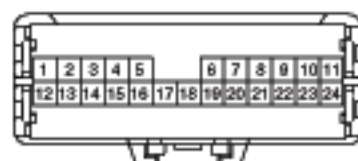


1. Br	Console Switch (Driver Seat Warmer Switch)	12. W	Console Switch (Pass. Seat Warmer Relay - High)
2. W	Console Switch (Driver Seat Warmer Relay - High)	13. L	Console Switch (Pass. Seat Warmer Relay - Low)
3. L	Console Switch (Driver Seat Warmer Relay - Low)	14. Br	ICM Relay Box (Rear Wiper Relay)
4. B	Audio (Rear LH Speaker -)	15. W	ICM Relay Box (Rear Wiper Relay)
5. Y	Audio (Rear LH Speaker +)	16. W/O A/V & Navigation	
6. -	-	L	Audio (CAN - High)
7. -	-		With A/V & Navigation
8. W	Audio (Front LH Speaker -)	L	A/V & Navigation Head Module (CAN - High)
9. Br	Audio (Front LH Speaker +)	17. W/O A/V & Navigation	
10. -	-	R	Audio (CAN - Low)
11. -	-		With A/V & Navigation
		R	A/V & Navigation Head Module (CAN - High)
		18. -	-
		19. W/O A/V & Navigation	
		G	Audio (Antenna)
			With A/V & Navigation
		G	A/V & Navigation Head Module (Antenna)
		20. R/B	I/P Junction Box - MODULE 1 10A
		21. P	EMS Box (F/Pump Relay)
		22. -	-

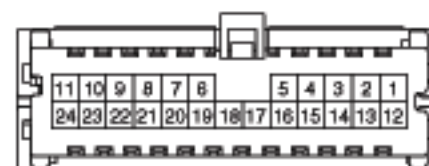
1. Br	Driver Seat Warmer (IND. - GND)	12. W	Passenger Seat Warmer (Switch - High)
2. W	Driver Seat Warmer (Switch - High)	13. L	Passenger Seat Warmer (Switch - Low)
3. L	Driver Seat Warmer (Switch - Low)	14. Br	Rear Wiper Motor
4. B	Rear Door Speaker LH (-)	15. W	Rear Wiper Motor
5. Y	Rear Door Speaker LH (+)	16. L	AMP (CAN - High)
6. -	-	17. R	AMP (CAN - Low)
7. -	-	18. -	-
8. W	Driver Door Speaker (-), Driver Door Tweeter Speaker (-)	19. G	Roof Antenna
9. Br	Driver Door Speaker (+), Driver Door Tweeter Speaker (+)	20. R/B	4WD ECM (ON/START Input)
10. -	-	21. P	Fuel Pump Motor
11. -	-	22. -	-

## MF41 Main To Floor Harness Connection

- 24 Male / Gray (KET\_040III\_24M\_GR)



- 24 Female / Gray (KET\_040III\_24F\_GR)



1. Br	Console Switch (Passenger Seat Warmer Switch)	13. W/O A/V & Navigation G Audio (SPDIF - OUT (-))
2. -	-	With A/V & Navigation
3. R	Instrument Cluster (B-CAN (Low))	G A/V & Navigation Head Module (SPDIF - OUT (-))
4. Br/O	Instrument Cluster (IMMO. IND.)	14. -
5. O	Audio (Rear RH Speaker -)	15. -
6. L	Audio (Front RH Speaker -)	16. -
7. With A/V & Navigation Br	A/V & Navigation Head Module (NEVI Voice (+))	17. G/B BCM (Key Inter Lock Switch)
8. With A/V & Navigation B	A/V & Navigation Head Module (NEVI Voice - Shield GND)	18. -
9. -	-	19. L Instrument Cluster (B-CAN (High))
10. -	-	20. W/O A/V & Navigation W Audio (SPDIF - OUT (+))
11. W/O	Data Link Connector (Body K-Line)	With A/V & Navigation
12. B	Audio (SPDIF - Shield GND)	W A/V & Navigation Head Module (SPDIF - OUT (+))
		21. G Audio (Rear RH Speaker +)
		22. R Audio (Front RH Speaker +)
		23. With A/V & Navigation Y A/V & Navigation Head Module (NEVI Voice (-))
		24. W/O PCM (IMMO. Data Line)

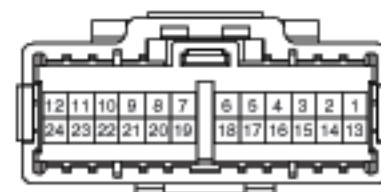
1. Br	Passenger Seat Warmer (IND. - GND)	13. G AMP (SPDIF - OUT (-))
2. -	-	14. -
3. R	Smart Key Control Module (B-CAN (Low))	15. -
4. Br/O	Smart Key Control Module	16. -
5. O	Rear Door Speaker RH (-)	17. G/B ATM Shift Lever (‘P’ Position Switch)
6. L	Passenger Door Speaker (-), Passenger Door Tweeter Speaker (-)	18. -
7. Br	AMP (NEVI Voice (+))	19. L Smart Key Control Module (B-CAN (High))
8. B	AMP (NEVI Voice - Shield GND)	20. W AMP (SPDIF - OUT (+))
9. -	-	21. G Rear Door Speaker RH (+)
10. -	-	22. R Passenger Door Speaker (+), Passenger Door Tweeter Speaker (+)
11. W/O	Smart Key Control Module (Body K-Line)	23. Y AMP (NEVI Voice (-))
12. B	AMP (SPDIF - Shield GND)	24. W/O Smart Key Control Module

## MF51 Main To Floor Harness Connection

- 24 Male / Yellow (KUM\_HSC\_24M\_Y)



- 24 Female / Yellow (KUM\_HSC\_24F\_Y)

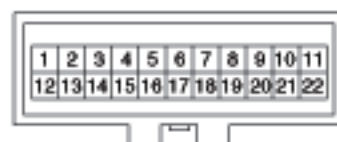


1. -	-	13. -	-
2. -	-	14. -	-
3. L	Start Stop Button Switch (SW2)	15. -	-
4. -	-	16. Br/B	I/P Junction Box - MODULE 5 7.5A
5. -	-	17. -	-
6. -	-	18. -	-
7. -	-	19. O	RF Receiver (Data)
8. R	Smart Key Antenna #1	20. -	-
9. -	-	21. L	Smart Key Antenna #1 (GND)
10. -	-	22. -	-
11. -	-	23. -	-
12. -	-	24. -	-

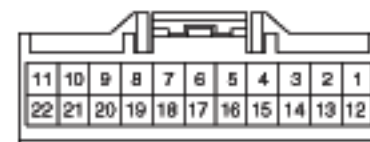
1. -	-	13. -	-
2. -	-	14. -	-
3. L	Smart Key Control Module (SSB SW2)	15. -	-
4. -	-	16. Br/B	Smart Key Control Module (ON/START Input)
5. -	-	17. -	-
6. -	-	18. -	-
7. -	-	19. O	Smart Key Control Module (RF_COM)
8. R	Smart Key Control Module (Interior_ANT1)	20. -	-
9. -	-	21. L	Smart Key Control Module (Interior_ANT1_GND)
10. -	-	22. -	-
11. -	-	23. -	-
12. -	-	24. -	-

## MR01 Main To Roof Harness Connection

- 22 Male / White (AMP\_090III\_22M\_W)



- 22 Female / White (AMP\_090III\_22F\_W)



1. Br	BCM (Room Lamp Control)	12. -	-
2. R/O	ILL. (+)	13. W/O	A/V & Navigation
3. G	I/P Junction Box - ROOM LP 10A	L	AUDIO (MIC -)
4. Y/B	License Lamp (Rear View Camera - GND.)		With A/V & Navigation
5. Y	License Lamp (Rear View Camera - B+)	B	A/V & Navigation Head Module (MIC -)
6. L	I/P Junction Box - Back-Up Lamp Relay	14. R	I/P Junction Box - SUNROOF 15A
7. W/O	A/V & Navigation	15. R	License Lamp (Rear View Camera - CVBS)
R	AUDIO (MIC +)	16. R/B	License Lamp (Rear View Camera - VGND.)
	With A/V & Navigation	17. Br	Vehicle Speed Signal
R	A/V & Navigation Head Module (MIC +)	18. B	Ground (GM02)
8. -	-	19. -	-
9. -	-	20. Gr/O	I/P Junction Box - MODULE 2 10A
10. -	-	21. -	-
11. -	-	22. O	I/P Junction Box - MODULE 4 10A

1. Br	Map Lamp	12. -	-
2. -	Not Used	13. W/O	A/V & Navigation
3. G	B+	L	AUDIO (MIC -)
	Electro Chromic Mirror, Map Lamp, Driver/Passenger Vanity Lamp, Room Lamp		With A/V & Navigation
4. W/O	A/V & Navigation	B	A/V & Navigation Head Module (MIC -)
Y/B	Electro Chromic Mirror (Video GND. -)	14. R	Sunroof Motor (B+)
5. W/O	A/V & Navigation	15. W/O	A/V & Navigation
Y	Electro Chromic Mirror (Video PWR. +)	R	Electro Chromic Mirror (Video In)
6. L	Electro Chromic Mirror (Back-up Signal)	16. W/O	A/V & Navigation
7. R	MIC (+)	R/B	Electro Chromic Mirror (Video VGND.)
8. -	-	17. Br	Sunroof Motor (Vehicle Speed)
9. -	-	18. B	Ground - Electro Chromic Mirror, Sunroof Switch, Sunroof Motor, Map Lamp, Room Lamp, Driver/Passenger Vanity Lamp
10. -	-	19. -	-
11. -	-	20. Gr/O	Electro Chromic Mirror (ON Input)
		21. -	-
		22. O	Sunroof Motor (IG2)

**I/P-A I/P Junction Box**

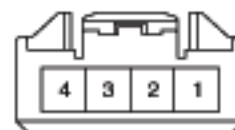
- 18 Female / White (AMP\_0925\_18F\_W)



1. -	-	8. -	-
2. Y	WIPER FRT 25A - Front Wiper Motor, E/R Fuse & Relay Box (WIPER FRT, LO Relay)	9. Gr	IPS 0 - Head Lamp RH (LO)
3. -	-	10. O	IPS 5 - Head Lamp LH (HI)
4. -	-	11. O/B	IPS 1 - Head Lamp RH (HI)
5. -	-	12. -	-
6. R	IGN 1 20A (ON/START Output)- E/R Fuse & Relay Box (ECU 2 7.5A / ABS 7.5 / TCU 2 7.5)	13. -	-
7. R	Not Used	14. G	E/R Fuse & Relay Box (RR HTD Relay)
		15. R	E/R Fuse & Relay Box (Blower Relay)
		16. -	-
		17. L	IPS 6 - Front Fog Lamp L/R/RH
		18. Gr	IPS 4 - Head Lamp LH (LO)

**I/P-B I/P Junction Box**

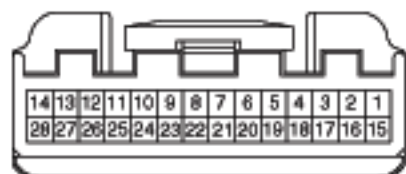
- 4 Female / White (AMP\_250\_04F\_W\_SPT)



1. R	Multi Fuse - B+2 60A	3. R	Multi Fuse - B+3 60A
2. -	-	4. W	Multi Fuse - B+1 60A

## I/P-C I/P Junction Box

- 28 Female / White (AMP\_025\_28F\_W)



1. -	-	15. W/O Smart Key	
2. -	-	P W/O IMMO. - E/R Fuse & Relay Box (Start Relay)	
3. -	-	16. -	
4. W/O Smart Key	17. -	-	
P With IMMO. - E/R Fuse & Relay Box (Start Relay)	18. Y	BCM (Turn & Hazard Lamp Output) - Head Lamp LH	
With Smart Key	19. W	BCM (Turn & Hazard Lamp Output) - Head Lamp RH	
P M/T - E/R Fuse & Relay Box (Start Relay)	20. B	Ground (GHG01)	
A/T - E/R Fuse & Relay Box (ATM P/N Relay)	21. R	IPS Control Module - Hood Switch	
5. -	-	22. W	IPS Control Module - Back-Up Lamp Switch
6. -	-	23. Br/O	IPS Control Module - Brake Fluid Level Sensor
7. G	Charge IND., Diode - Alternator (L)	24. -	-
8. Y/O	Fuse MODULE 4 10A - E/R Fuse & Relay Box (Blower Relay)	25. Y	IPS 2 - Head Lamp RH
9. W/B	MODULE 1 10A - Stop Lamp Switch	26. G	IPS 7 - Head Lamp LH
10. R/B	MODULE 1 10A - 4WD ECM	27. Br/B	IPS Control Module - ESC Module (Parking Brake)
11. -	-	28. L	IPS Control Module (Deicer Relay Control) - E/R Fuse & Relay Box (Deicer Relay)
12. -	-		
13. W	IPS Control Module (Burglar Alarm Horn Relay Control) - E/R Fuse & Relay Box (B/A HORN Relay)		
14. G/O	IPS Control Module (Rear Defogger Relay Control) - E/R Fuse & Relay Box (RR HTD Relay)		

## I/P-D I/P Junction Box

- 40 Female / White (AMP\_025\_40F\_W)



1. Y	IPS 2 (Tail) - Rear Combination Lamp (Out) RH, Rear Combination Lamp (IN) RH	21. R	IPS 3 (ILL.) - P/WDW Main Switch, Passenger Power Window Switch, Rear Power Window Switch LHR/RH
2. G	IPS 7 (Tail) - License Lamp, Rear Combination Lamp (Out) LH, Rear Combination Lamp (IN) LH	22. -	-
3. G/O	CLUSTER 10A - Smart Key Control Module (ALT - L)	23. W/B	IPS Control Module - ICM Relay Box (Rear Wiper Relay Control)
4. -	-	24. G/O	IPS Control Module - Driver Door Switch
5. W	BCM (Turn & Hazard Lamp Output) - Rear Combination Lamp (Out) LH, Driver Power Outside Mirror	25. P/B	IPS Control Module - Passenger Door Switch
6. -	-	26. Gr/B	IPS Control Module - Rear Door Switch RH
7. R	SMART KEY 10A - Smart Key Control Module	27. Y	IPS Control Module - Rear Door RH Lock/Unlock Signal
8. Y	ABAG 10A - Passenger Occupant Detection Sensor	28. P	IPS Control Module - Driver Door Key Unlock Signal
9. G	AUDIO 2 10A - AMP, Smart Key Control Module, Power Outside Mirror Switch	29. Br	IPS Control Module - Passenger Door Key Lock Signal
10. P	BCM (Turn & Hazard Lamp Output) - Rear Combination Lamp (Out) RH, Passenger Power Outside Mirror	30. G	IPS Control Module - Passenger Door Key Unlock Signal
11. W/B	TPMS 7.5A - ATM Shift Lever	31. Gr	IPS Control Module - Driver Door Lock/Unlock Signal
12. G	ROOM LP 10A - Luggage Lamp	32. W	IPS Control Module - Passenger Door Lock/Unlock Signal
13. -	-	33. Y	IPS Control Module - Rear Door LH Lock/Unlock Signal
14. -	-	34. R	IPS Control Module - Driver Door Key Lock Signal
15. -	-	35. Y/B	IPS Control Module - Smart Key Control Module, Tail Gate Handle Switch
16. -	-	36. Gr/B	IPS Control Module - Door Unlock Switch
17. O	IPS Control Module - Driver Seat Belt Buckle Switch	37. L/B	IPS Control Module - Door Lock Switch
18. -	-	38. -	-
19. Y/B	IPS Control Module - Rear Door Switch LH	39. W	IPS Control Module - Tail Gate Open Switch
20. Gr/O	IPS Control Module - Parking Brake Switch	40. -	-

## I/P-E I/P Junction Box

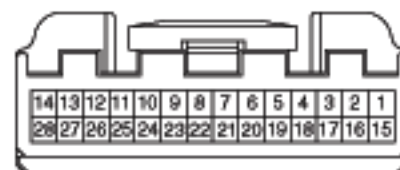
- 20 Female / White (AMP\_0925\_20F\_W)



1. R	Back-Up Lamp Relay - Rear Combination Lamp (IN) LH/RH	11. L/B	HTD MIRR 7.5A - Driver/Passenger Power Outside Mirror (Delogger)
2. -	-	12. L	WIPER RR 15A - Rear Wiper Motor
3. -	-	13. O	AMP 25A - AMP
4. -	-	14. G	E/R Fuse & Relay Box (RR HTD Relay) - Rear Defogger (+)
5. B	Ground (GF01)	15. R	P/SEAT (DRV) 20A - Driver Seat Manual Switch
6. O	P/WDW LH 25A - Power Window Main Switch	16. Y	SAFETY POWER WINDOW 20A - Safety Power Window Module
7. R	P/WDW RH 25A - Rear Power Window Switch RH	17. -	-
8. L	Door Unlock Relay - Passenger/Rear LH/Rear RH Door Lock Actuator	18. O	P/WDW LH 25A - Rear Power Window Switch LH
9. O	Door Lock Relay - Driver/Passenger Rear LH/Rear RH Door Lock Actuator	19. R	P/WDW RH 25A - Power Window Main Switch, Passenger Power Window Switch
10. L	Tail Gate Relay - Tail Gate Latch	20. L	POWER OUTLET 2 25A - Rear Power Outlet

## I/P-F I/P Junction Box

- 28 Female / White (AMP\_025\_28F\_W)



1. R/O	TPMS 7.5A - 4WD ECM	13. -	-
2. R	TPMS 7.5A - Tire Pressure Monitoring Module	14. Gr/O	MODULE 2 10A - Electro Chromic Mirror
3. -	-	15. -	-
4. W	BCM - Turn/Hazard Lamp Output (RL)	16. P	BCM - Turn/Hazard Lamp Output (RR)
5. -	-	17. -	-
6. Gr	BCM - Turn/Hazard Lamp Output (FL)	18. -	-
7. Y/B	BCM - Turn/Hazard Lamp Output (FR)	19. -	-
8. Y/B	IPS Control Module - Two Turn Unlock Relay	20. -	-
9. W	IPS Control Module - Head Lamp Low Switch	21. -	-
10. -	-	22. -	-
11. -	-	23. -	-
12. O	MODULE 4 10A - A/C Control Module, Cluster Ionizer, Sunroof Motor	24. G	HTD MIRR 7.5A - Rear Defogger Switch
		25. R/O	IPS 3 - Illuminations
		26. -	-
		27. W	MODULE 2 10A - PDM
		28. G	MODULE 2 10A - BCM

## I/P-G I/P Junction Box

- 32 Female / White (AMP\_025\_32F\_W)



1. -	-	17. -	-
2. Gr/O	CLUSTER 10A - Instrument Cluster (IND.), Console Switch	18. -	-
3. -	-	19. Gr	CLUSTER 10A - Audio
4. -	-	20. -	-
5. R/B	SMART KEY 10A - Fob Holder	21. W/B	SMART KEY 10A - Key Solenoid
6. -	-	22. R/O	SMART KEY 10A - PDM
7. L	SMART KEY 10A - Start Stop Button Switch	23. G	CLUSTER 10A - A/V & Navigation Head Module
8. G	Charge IND., ALT (L)	24. G	BCM, ALT (L)
9. Gr/O	MODULE 1 10A - Tire Pressure Monitoring Module	25. Gr	MODULE 1 10A - ESC Off Switch, DBC Switch, ICM Relay Box (DBC Relay)
10. R	MODULE 1 10A - EPS Control Module	26. Br/O	MODULE 1 10A - Multifunction Switch (Turn Signal Lamp Switch)
11. -	-	27. L/O	A/BAG IND 10A - Instrument Cluster (Air Bag IND.)
12. -	-	28. P	A/CON 7.5A - A/C Control Module
13. Br/B	Back-Up Lamp Relay - BCM, A/V & Navigation Head Module	29. L	Back-Up Lamp Relay - Electro Chromic Mirror
14. -	-	30. -	-
15. L/O	AUDIO 2 10A - A/V & Navigation Head Module	31. L/O	AUDIO 2 10A - Audio
16. L/O	AUDIO 2 10A - BCM, PDM	32. -	-

## I/P-H I/P Junction Box

- 18 Female / White (AMP\_0925\_18F\_W)



1. R	IPS Control Module - B-CAN (Low)	9. B	Ground (GM02)
2. Br	HAZARD 15A - ICM Relay Box (Flasher Sound Relay), BCM	10. -	-
3. Br	Module 7.5 - BCM, PDM, Smart Key Control Module	11. -	-
4. R	PDM 15A - PDM	12. -	-
5. -	-	13. R	E/R Fuse & Relay Box (Blower Relay) - Blower Motor
6. Br	DR LOCK 15A - ICM Relay Box (Two Turn Unlock Relay)	14. P	ON/START Input
7. -	-	15. -	-
8. L	IPS Control Module - B-CAN (High)	16. L	A/BAG 10A - SRS Control Module, Telltale Lamp
		17. -	-
		18. -	-



## I/P-J I/P Junction Box

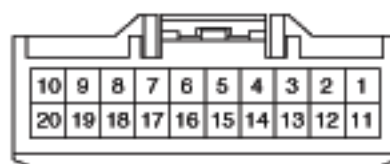
- 16 Female / White (AMP\_0925\_16F\_W)



- |   |  |
|---|--|
| <p>1. G ROOM LP 10A -<br/>Auto Light &amp; Photo Sensor,<br/>Data Link Connector, Map Lamp,<br/>Room Lamp, Driver/Passenger<br/>Vanity Lamp, Electro Chromic Mirror</p> <p>2. L POWER OUTLET 2 25A -<br/>Cigarette Lighter &amp; Front<br/>Power Outlet</p> <p>3. R S/HEATER FRT 15A<br/>- Console Switch</p> <p>4. -</p> <p>5. Y WIPER FRT 25A -<br/>Multifunction Switch (Front Wiper)</p> <p>6. -</p> <p>7. G ROOM LP 10A -<br/>Ignition Key ILL. &amp; Door Warning<br/>Switch, A/C Control Module,<br/>RF Receiver, Instrument Cluster</p> | <p>8. R SUNROOF 15A - Sunroof Motor</p> <p>9. G POWER OUTLET 1 15A<br/>- Cigarette Lighter &amp;<br/>Front Power Outlet</p> <p>10. -</p> <p>11. W ACC/ON Input<br/>R START Input<br/>W/O Smart Key<br/>G START Input</p> <p>13. L ON Input</p> <p>14. R<br/>With A/V Navigation<br/>A/V Navigation Head Module<br/>W/O A/V Navigation<br/>Audio</p> <p>15. L WIPER RR 15A -<br/>Multifunction Switch (Rear Wiper),<br/>ICM Relay Box (Rear Wiper Relay)</p> <p>16. B Ground (GM01)</p> |
|---|--|

**E/R-CHGA EMS Box**

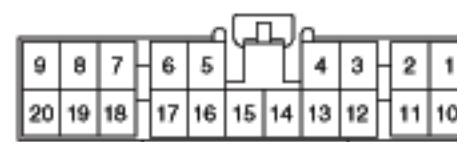
- 20 Female / White (AMP\_090III\_20F\_W)



1. Y	A/C Compressor	11. -	-
2. Br	PCM (A/C Relay)	12. L	Injector #1
3. O	Injector #4	13. P	Injector #3
4. -	-	14. -	-
5. W	Ignition Coil #4	15. L/O	Injector #2
6. -	-	16. -	-
7. L	Ignition Coil #2	17. -	-
8. P	Ignition Coil #1	18. O	Condenser
9. G	Ignition Coil #3	19. -	-
10. -	-	20. W	PCM (Engine Control Relay 'ON' Input)

**E/R-CHGK EMS Box**

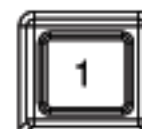
- 20 Female / White (KET\_090III\_20F\_W)



1. L	Immobilizer Module	11. -	-
O/B	Canister Close Valve	12. W	Oil Control Valve #1/2
2. G	Camshaft Position Sensor #1/2, Canister Purge Control Solenoid Valve	13. -	-
3. Gr/B	Variable Intake Manifold Valve, Crankshaft Position Sensor	14. Gr	E/R Fuse & Relay Box - Engine Control Relay (C/Fan LO Relay)
4. G	PCM (B+)	15. P	Oxygen Sensor (Up)
5. W/O SULEV		16. W/O SULEV	
O	Oxygen Sensor (Down)	O	Oxygen Sensor (Down)
6. -	-	17. G	PCM (Engine Control Relay 'ON' Input)
7. -	-	18. -	-
8. -	-	19. -	-
9. P	Fuel Pump Motor	20. P	PCM (F/Pump Relay)
10. L	PCM (Engine Control Relay Control)		

**E/R-EMS EMS Box**

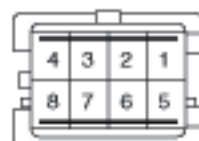
- 1 Female / N/A (CR01F070)



1. R	Multi Fuse - EMS 40A
------	----------------------

**JC01 Joint Connector**

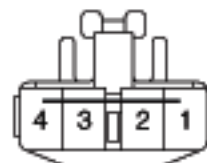
- 8 Female / Black (KET\_070\_08F\_B\_JCH)
- C-CAN Communication Line



- |      |                                    |      |                                     |
|------|------------------------------------|------|-------------------------------------|
| 1. O | Low - Data Link Connector          | 5. G | High - Data Link Connector          |
| 2. O | Low - PCM                          | 6. G | High - PCM                          |
| 3. O | Low - Multipurpose Check Connector | 7. G | High - Multipurpose Check Connector |
| 4. - | -                                  | 8. - | -                                   |

**JC02 Joint Connector**

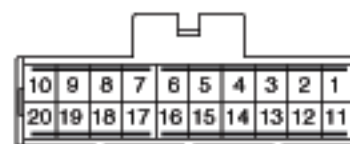
- 4 Female / White (KET\_090II\_04F\_W)
- Stop Lamp



- |      |                           |        |                          |
|------|---------------------------|--------|--------------------------|
| 1. G | ICM Relay Box - DBC Relay | 3. G/B | Smart Key Control Module |
| 2. G | PCM                       | G      | ESC Module               |
|      |                           | 4. G   | Stop Lamp Switch         |

**JM01 Joint Connector**

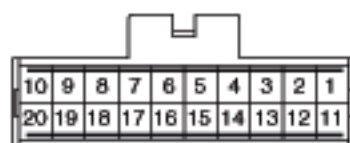
- 20 Female / Black (KET\_090II\_20F\_B\_JCH)
- B-CAN & C-CAN Communication Line



- |       |   |       |  |
|-------|---|-------|--|
| 1. O  | C-CAN (Low) - A/C Control Module, Tire Pressure Monitoring Module | 11. G | C-CAN (High) - A/C Control Module, Tire Pressure Monitoring Module |
| 2. O  | C-CAN (Low) - 4WD ECM, Data Link Connector                        | 12. G | C-CAN (High) - 4WD ECM, Data Link Connector                        |
| 3. O  | C-CAN (Low) - Instrument Cluster, EPS Control Module              | 13. G | C-CAN (High) - Instrument Cluster, EPS Control Module              |
| 4. -  | -   | 14. - | -  |
| 5. O  | C-CAN (Low) - SRS Control Module                                  | 15. G | C-CAN (High) - SRS Control Module                                  |
| 6. O  | C-CAN (Low) - PCM, ESC Module, PODS, Multipurpose Check Connector | 16. G | C-CAN (High) - PCM, ESC Module, PODS, Multipurpose Check Connector |
| 7. -  | -   | 17. - | -  |
| 8. R  | B-CAN (Low) - Instrument Cluster                                  | 18. L | B-CAN (High) - Instrument Cluster                                  |
| 9. R  | B-CAN (Low) - PDM, Smart Key Control Module                       | 19. L | B-CAN (High) - PDM, Smart Key Control Module                       |
| 10. R | B-CAN (Low) - IPS Control Module, BCM                             | 20. L | B-CAN (High) - IPS Control Module, BCM                             |

**JM02 Joint Connector**

- 20 Female / Black (KET\_090II\_20F\_B\_JCH)
- Pin No. 1 ~ 10 : Rheostat ILL. (-) or Ground (GM01)
- Pin No. 11 ~ 20 : I/P Junction Box (IPS 3 Control)



- |        |   |         |   |
|--------|---|---------|---|
| 1. L/O | ATM Shift Lever ILL.<br>With Rheostat<br>L/O ILL. (-)<br>W/O Rheostat<br>B Ground (GM01)                | 11. R/O | I/P Junction Box (IPS 3),<br>A/C Control Module   |
| 2. L/O | Instrument Cluster,<br>With A/V Navigation<br>A/V Navigation Head Module<br>W/O A/V Navigation<br>Audio | 12. R/O | ATM Shift Lever ILL.,<br>With A/V Navigation<br>A/V Navigation Head Module<br>W/O A/V Navigation<br>Audio |
| 3. L/O | A/C Control Module  | 13. R/O | AUX & USB Jack, Glove Box Lamp  |
| 4. L/O | ESC Off Switch, Hazard Switch   | 14. R/O | DBC Switch, ESC Off Switch  |
| 5. L/O | Console Switch  | 15. R/O | 4WD Lock Switch   |
| 6. L/O | Multifunction Switch (Remote Control)   | 16. R/O | Instrument Cluster  |
| 7. L/O | DBC Switch  | 17. R/O | Multifunction Switch (Remote<br>Control), Cigarette Lighter & Front<br>Power Outlet                       |
| 8. L/O | 4WD Lock Switch, Start Stop Button<br>Switch  | 18. R/O | Hazard Switch, Rheostat   |
| 9. L/O | Front Wiper Deicer Switch,<br>Rear Defogger Switch  | 19. R/O | Console Switch  |
| 10. -  | -   | 20. R/O | Front Wiper Deicer Switch,<br>Rear Defogger Switch  |