MoTech – LS JK Wiring Instructions

MAIN LS WIRING HARNESS – At Bussman Fuseblock

- Red 12GA wire with eyelet to Alternator Hot (+)
- Pink wire to C100 Pink wire
- Brown Ground wire for Fuel Pump to Jeep PCM connector #3, Pin 37, tap into Brown wire
- Green AC Low wire to Jeep PCM Connector #3, Pin 11, tap into Blue/Orange wire
- Blue wire to C100 Blue wire
- White wire to C100 White wire

ACCESSORY\MOTECH MODULE HARNESS – Black Round 28-Pin Connector

- Blue Brake Wire to Brake Switch, tap into White/Tan wire.
- Male 6 Pin Molex Connector to BCM Harness Female 6 Pin Molex Connector.
- Black Ground Eyelet to ground stud on driver foot well
- Black/Purple 6 Pin Delphi Connector to Accelerator Pedal provided in kit.
- Red 10 Pin Serial Connector to MoTech Module.
- Black 16 Pin ALDL OBDII Connector – Mount above or in place of original OBDII connector. Relocate original OBDII connector below or behind new connector.

BCM HARNESS – Square Green, White, Blue Connector

- Red 9 Pin Serial Connector to MoTech Module
- Female 2 Pin Molex Connector with Red and Purple twisted wire – Plug into Tap Shift Switch mounted in Steering Column or plug into bump shifter from modified 2012 shifters
- Blue Brake Wire to Brake Switch, tap into Blue/Green wire
- Female 6 Pin Molex Connector to Male 6 Pin Molex Connector from Main Interior Harness

MOTECH MODULE HARNESS – Red 14 Pin Serial Connector

- Male 2 Pin Molex Connector to Female 2 Pin Molex Connector from HVAC controller or Blue and Green twisted wire pigtail
- Male 3 Pin Molex Connector to Female 3 Pin Molex Connector from modified shifter
- Male 4 Pin Molex Connector to Female 4 Pin Molex Connector from C100 Harness for PRNDL
- Male 6 Pin Molex Connector to Female 6 Pin Molex Connector from Instrument (Gauge) Cluster

INSTRUMENT (GAUGE) CLUSTER – Orange Cruise Control wire from Female 6 Pin Molex Connector

- 2007-2010: to Clockspring in Steering Column connector #2, Pin 6, tap into Purple/Orange wire
- 2011-2014: to Clockspring in Steering Column connector #2, Pin 3, tap into Orange/Purple wire

HVAC CONTROLLER PIGTAIL (Vehicle Year 2007-2010) –
Female 2 Pin Molex Connector pigtail with Blue and Green twisted wire

- Blue wire Behind Instrument Cluster, Connector #3, Pin 8, tap into Light Blue wire
- Green wire Behind Instrument Cluster, Connector #3, Pin 7, tap into Blue/Green wire

CRANK SENSOR EMULATOR

Purple/White/Orange
- Purple: Crank from Jeep PCM, Pin 35, Connector 2
- Orange: Jeep CAM Sensor, Pin 34, Connector 2
- White: Comes from emulator to connector only; Not needed C100 harness or a separate pigtail

Red/Brown/Black
- Red: 12-volt ignition
- Brown: White crank wire Pin 68, Connector 2 on GM wiring harness
- Black: Ground