



2501 Ludelle Street
Fort Worth, Texas 76105
817-244-6212 Phone • 817-244-4024 Fax
888-350-6588 Sales • 800-423-9696 Tech
E-mail: painless@painlessperformance.com
Web: www.painlessperformance.com

ADD ON EARLY T.P.I. EMISSIONS KIT Part #60102, 60202, 60312 & 60313

THE EMISSIONS WIRES IN THIS KIT INCLUDE: THE WIRING FOR THE CHARCOAL CANISTER, THE AIR PORT SOLENOID AND THE AIR PUMP DIVERTER VALVE.

STEP 1 - INSTALLATION OF CONNECTORS IN THE ENGINE COMPARTMENT

INSTALL THE FOLLOWING CONNECTORS INTO THESE LOCATIONS:

THE RED CONNECTOR WITH THE DARK GREEN/YELLOW AND BLACK/PINK WIRES PLUGS INTO THE CHARCOAL CANISTER MOUNTED IN THE ENGINE COMPARTMENT.

THE BLACK CONNECTOR WITH THE BLACK/RED AND BLACK/PINK WIRES PLUGS INTO THE AIR PORT SOLENOID LOCATED ON THE BACK OF THE AIR PUMP.

THE GRAY CONNECTOR WITH THE BROWN AND BLACK/PINK WIRES PLUGS INTO THE AIR PUMP DIVERTER VALVE LOCATED BEHIND THE AIR PUMP.

STEP 2 - ROUTING THE WIRES

ROUTE ALL OF THE WIRES FROM THE FRONT THREE CONNECTORS UP TO THE COOLANT TEMPERATURE SENDING UNIT LOCATED AT THE FRONT OF THE ENGINE NEXT TO THE THERMOSTAT HOUSING. USING TIE WRAPS SECURE THE WIRING TO THE COOLANT TEMP SENSOR (BLACK AND YELLOW) WIRES ALL THE WAY BACK TO THE COMPUTER LOCATED INSIDE THE VEHICLE. BE SURE TO LEAVE ENOUGH SLACK FOR ANY POSSIBLE ENGINE MOVEMENT.

CAUTION: BE CAREFUL ROUTING THE WIRES THROUGH THE FIREWALL TO AVOID DAMAGING THE TERMINALS ON THE ENDS OF THE WIRES.

STEP 3 - ATTACHING THE B+ POWER WIRES

YOU WILL FIND THAT THE THREE BLACK/PINK WIRES END NEAR THE BACK OF THE ENGINE BLOCK. THESE WIRES SHOULD BE SPLICED INTO THE PINK/BLACK WIRE COMING FROM THE EGR SOLENOID CONNECTOR. THESE WIRES CAN ALSO BE EXTENDED AND CONNECTED TO A 12 VOLT IGNITION ONLY (SWITCHED) POWER SOURCE IF YOU WISH TO DO SO.

STEP 4 - UNPLUGGING THE COMPUTER

CAUTION: REMOVING THE COMPUTER CONNECTORS FROM THE COMPUTER WHILE THE IGNITION IS ON WILL DAMAGE THE COMPUTER!

FIRST MAKING SURE THAT THE IGNITION IS OFF, UNPLUG THE TWO COMPUTER CONNECTORS BY PUSHING DOWN ON THE BLUE RETAINING TAB AND THEN PULLING STRAIGHT OUT AND AWAY FROM THE COMPUTER. BE CAREFUL NOT TO DAMAGE THE COMPUTER PINS! REMOVE THE BLUE SECONDARY LOCKS FROM THE BLACK COMPUTER CONNECTORS BY RELEASING THE RETAINING CLIPS AND PULLING THEM OUT FROM THE BACK (WIRE) SIDE OF THE CONNECTORS.

STEP 5 - CONNECTING THE CHARCOAL CANISTER WIRE AT THE COMPUTER

LOCATE THE 24 PIN (THE SMALLER OF THE TWO) COMPUTER CONNECTOR. USING THE ATTACHED WIRING DIAGRAM FOR REFERENCE, LOOK ON THE WIRE SIDE OF THE CONNECTOR HOUSING FOR THE CORNER MARKED "A-1". ONCE YOU HAVE LOCATED THIS, COUNT DOWN THE OPENINGS ON THE SAME SIDE UNTIL YOU REACH "A-3". YOU WILL INSERT THE TERMINAL ON THE DARK GREEN/YELLOW WIRE (CHARCOAL CANISTER) INTO THIS OPENING, PUSHING IN UNTIL THE LOCKING TANG ENGAGES.

NOTE: THE TERMINAL WILL ONLY FIT ONE WAY INTO THE CONNECTOR, DO NOT TRY TO FORCE THE TERMINAL.

STEP 6 - CONNECTING THE AIR PORT SOLENOID WIRE AT THE COMPUTER

ON THE SAME CONNECTOR, LOCATE "A-2". THIS IS THE OPENING THAT YOU PLUG THE TERMINAL ON THE BROWN WIRE (PORT SOLENOID) INTO, USING THE SAME PROCEDURE AS IN STEP 5.

NOTE: THIS WIRE HAS A SECOND BROWN WIRE SPLICED INTO IT THAT SHOULD BE SET ASIDE UNTIL STEP 10.

STEP 7 - CONNECTING THE AIR DIVERTER WIRE AT THE COMPUTER

LOCATE THE 36 PIN (THE LARGER OF THE TWO) COMPUTER CONNECTOR. IN THE SAME MANNER AS YOU DID IN STEP 5 AND 6 LOCATE THE "C-1" SIDE. WHEN YOU HAVE DONE THIS THEN COUNT DOWN THE SAME SIDE ONE OPENING TO "C-2". THIS IS THE OPENING YOU WILL INSERT THE TERMINAL ON THE BLACK/RED WIRE INTO. (AIR PUMP DIVERTER VALVE)

STEP 8 - REPLACING THE COMPUTER CONNECTORS AT THE COMPUTER

REPLACE THE SECONDARY LOCKS ON BOTH CONNECTORS. BE CAREFUL TO LINE UP THE "FINGERS" ON THE LOCKS WITH THE CONNECTOR OPENINGS. ONCE YOU HAVE THE SECONDARY LOCKS IN PLACE THEN YOU CAN REINSTALL THE COMPUTER CONNECTORS INTO THE COMPUTER.

CAUTION: USE CARE WHEN RE-INSTALLING THE THE CONNECTORS, TO AVOID DAMAGING THE COMPUTER PINS.

STEP 9 - ATTACHING THE AIR PUMP DIAGNOSTIC WIRE AT THE ALDL

THE BROWN WIRE SET ASIDE IN STEP 6 GOES TO THE ALDL CONNECTOR (DIAGNOSTIC PLUG). ROUTE THIS BROWN WIRE ALONG THE EXISTING ALDL WIRING UNTIL YOU COME TO THE CONNECTOR ITSELF. THE WIRE IS INSERTED INTO THE OPENING LABELED "C" ON THE CONNECTOR.

NOTES:

DOUBLE CHECK ALL ROUTING MAKING SURE THAT THERE IS ENOUGH SLACK TO ALLOW FOR ANY ENGINE OR OTHER MOVEMENT. REINSTALL ANY GROMMETS OR OTHER PARTS TAKEN OFF.

START AND DRIVE THE VEHICLE FOR AT LEAST THIRTY MINUTES, THEN CHECK FOR ANY TROUBLE CODES STORED IN THE COMPUTER.

PAINLESS WIRING OFFERS A TECHNICAL ASSISTANCE LINE TO ANSWER ANY QUESTIONS YOU MAY HAVE. THE NUMBER IS (817)560-8324. PHONES ARE ANSWERED MONDAY THROUGH FRIDAY FROM 8 AM TO 5 PM CENTRAL TIME, NOT INCLUDING HOLIDAYS.

PLEASE LEAVE A MESSAGE IF YOU ARE UNABLE TO REACH US AND WE WILL RETURN YOUR CALL AS SOON AS POSSIBLE.

Painless Performance Limited Warranty and Return Policy

Chassis harnesses and fuel injection harnesses are covered under a lifetime warranty.

All other products manufactured and/or sold by Painless Performance are warranted to the original purchaser to be free from defects in material and workmanship under normal use. Painless Performance will repair or replace defective products without charge during the first 12 months from the purchase date. No products will be considered for warranty without a copy of the purchase receipt showing the sellers name, address and date of purchase. You must return the product to the dealer you purchased it from to initiate warranty procedures.

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