



ECOBOOST SWAP CHASSIS HARNESS (2018+) INSTALL GUIDE EBS-WHP-19+

EBS-WHP-19+ OVERVIEW

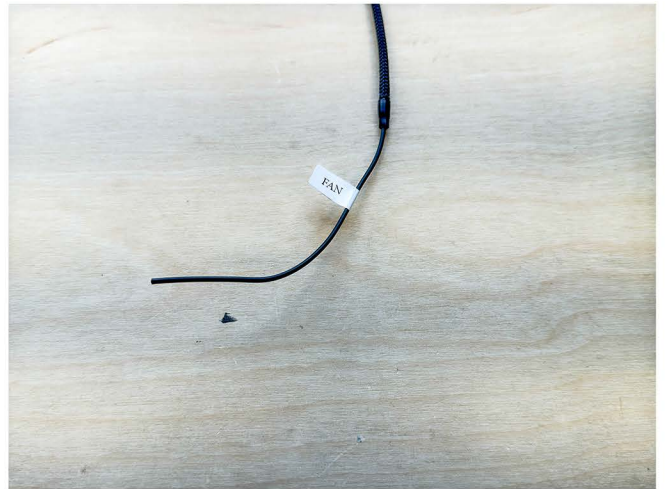


INSTALLATION INSTRUCTIONS

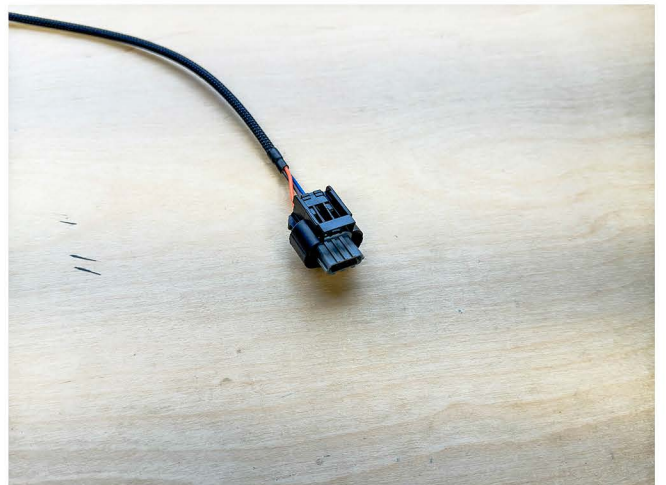
1. ALTERNATOR IS LOCATED ON THE INTAKE SIDE OF THE ENGINE. 1 WIRE PLUG SHOWN CONNECTS TO ALTERNATOR



2. BLACK FLYING LEAD LABELED FAN CONNECTS YOUR SUPPLIED FAN RELAY GROUND.



3. 3 WIRE TIP SENSOR (PN **AG9Z9F476B** FITMENT UP TO 23 ECOBOOST MUSTANG) IS LOCATED ON THE COLD SIDE OF THE INTERCOOLER. 3 WIRE PLUGS IN AS SHOWN.

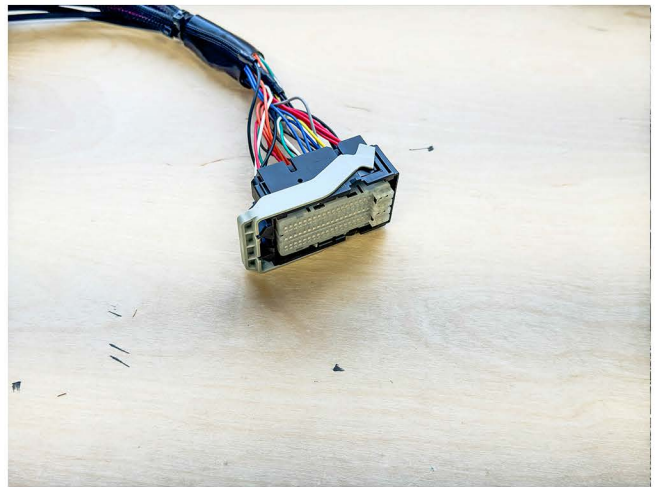


INSTALLATION INSTRUCTIONS

4. INTAKE AIR TEMPERATURE SENSOR (PN **DS7Z12A697A** FITMENT UP TO 23 ECOBOOST MUSTANG) WILL BE LOCATED BETWEEN AIR FILTER AND TURBOCHARGER AIR INLET.



5. ECU PLUG CONNECTS TO THE FORD ECU. THIS- ARE KEYED AND WILL ONLY FIT ONE WAY ON ECOBOOST MUSTANG ECUS. SOME 2.0T USERS MAY FIND THEY NEED TO SHAVE THESE KEYS FOR LOCKED CONNECTION.



6. HARNESS UNION CONNECTOR WILL CONNECT TO THE REST OF THE ENGINE SIDE DONOR HARNESS.



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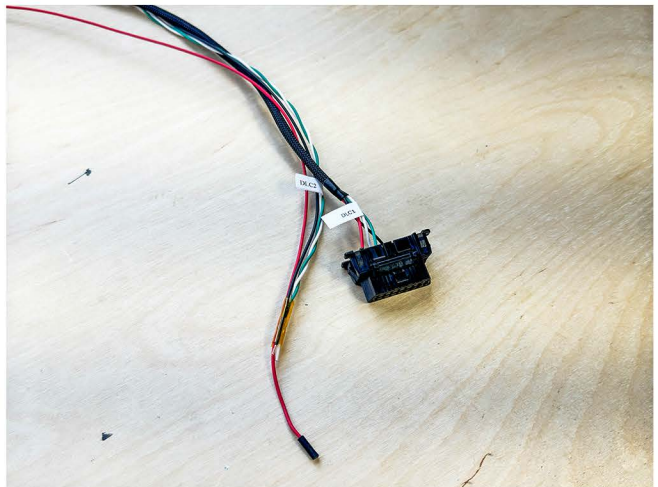
7. THROTTLE PEDAL CONNECTOR PLUGS IN AT THE TOP OF THE DONOR THROTTLE PEDAL WITHIN THE CABIN OF THE VEHICLE.



8. PROVIDED OBD2 CONNECTOR OPERATES AS INTENDED FROM FACTORY AND SHOULD BE MOUNTED FOR EASE OF ACCESS. FLYING LEAD PROVISIONS ARE ALSO PROVIDED AND ARE LABELED DLC2. DLC2 WIRING IS AS FOLLOWS:

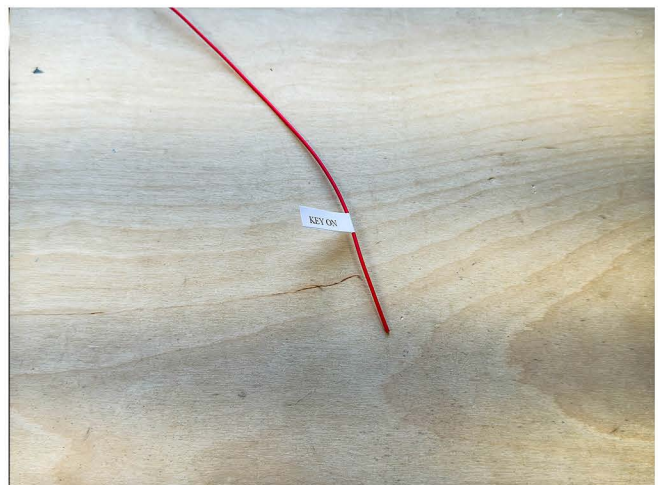
RED 12V IGNITION ON
BLACK GROUND
GREEN CAN L
WHITE CAN H

DLC2 IS MEANT FOR DIGITAL DASH OR SIMILAR AND AS SUCH IS ONLY POWERED WHEN VEHICLE IS KEYED ON



9. RED FLYING LEAD LABELED KEY ON NEEDS TO BE RAN TO AN IGNITION SOURCE, SWITCH, BUTTON, KEY, ETC

THIS NEEDS TO BE CONNECTED TO 12V HOT KEY ON AND START



INSTALLATION INSTRUCTIONS

10. BLACK FLYING LEAD LABELED MIL IS CHECK ENGINE LIGHT. THIS IS NOT 100% NECESSARY FOR OPERATION. NOTE: THIS FUNCTIONALITY IS ONLY PROVEN WITH JEM SPORT UNLOCKED ECU, THIS MAY NOT WORK WITH YOUR DONOR ECU



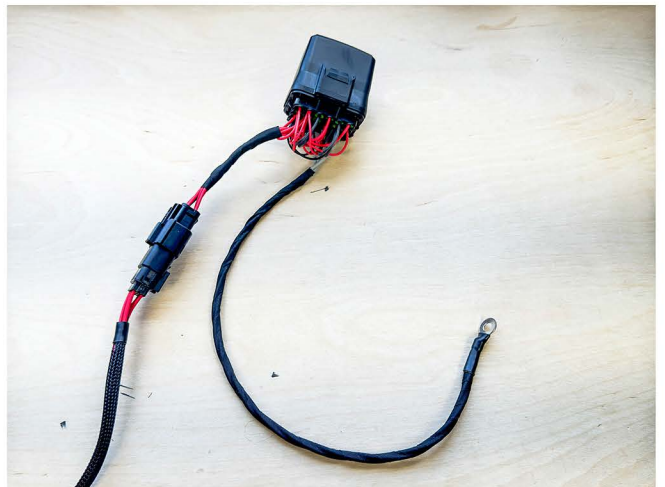
11. BLACK AND RED TWISTED PAIR LABELED FUEL IS FUEL PUMP RELAY. RUN AND CONNECT ACCORDINGLY. ECU SUPPLIES 12V+ AND GROUND TO FUEL PUMP RELAY COIL

RED TO BE WIRED TO PIN 86
BLACK TO BE WIRED TO PIN 85



12. BLACK LEAD EXITING THE FUSE BOX WITH RING TERMINAL IS FUSE BOX 12V+ POWER. MUST BE CONNECTED DIRECTLY TO BATTERY 12V+.

FUSE BOX CONNECTION FROM MAIN HARNESS MUST BE PLUGGED IN FOR CORRECT OPERATION.



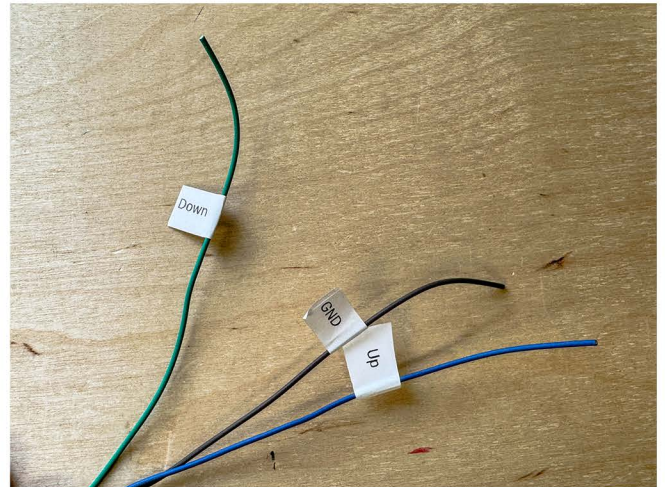
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13. MAIN CHASSIS GROUND LEAD WITH RING TERMINAL MUST BE RAN TO A CONVENIENT PLACE ON THE ENGINE BLOCK.



14. THREE WIRES LABELED UP, DOWN AND GND ARE PADDLE SHIFT PROVISIONS. THIS IS NOT NECESSARY FOR PROPER OPERATION WITH EITHER AUTO OR MANUAL TRANSMISSIONS.

UP IS WIRED TO UPSHIFT PADDLE, DOWN TO DOWNSHIFT PADDLE. GROUND MUST BE SPLIT AND RAN TO EACH SIDE ACCORDINGLY.



15. FUEL LINE PRESSURE SENSOR IS LOCATED IN BETWEEN REGULATOR AND HIGH PRESSURE FUEL PUMP. PLUG CONNECTOR SHOWN INTO THIS SENSOR.

