

CRAWLTEK R E V O L U T I O N

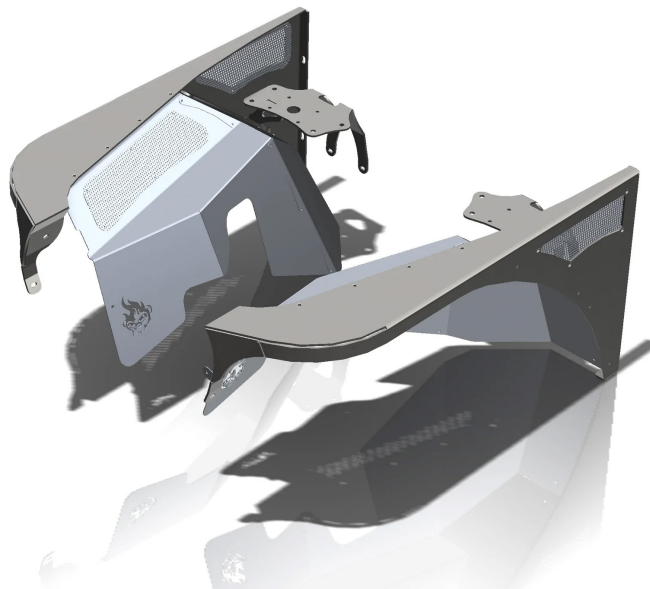
491 W. GARFIELD AVE., COLDWATER, MI 49036 • 517.278.1039
CRAWLTEKREVOLUTION.COM • E-MAIL: SALES-CRAWLTEK@RIDEFOX.COM

INSTALLATION INSTRUCTIONS

INFERNO HIGHLINE FENDER-STEEL

CWLTJ30411

**FOR USE WITH
JEEP WRANGLER TJ FROM 1997-2006**



CrawTek YouTube



PLEASE READ THROUGH INSTRUCTIONS BEFORE INSTALLING

2023-05-05

WHAT'S IN THE BOX?

PLEASE VERIFY KIT CONTENTS BEFORE BEGINNING INSTALLATION

PART #	Qty	DESCRIPTION
CWLTJ30411A		1997-2006 JEEP WRANGLER TJ INFERNO HIGHLINE FENDERS
06158	1	TJ INFERNO FENDER- DRIVER
06195	1	BATTERY TRAY - DRIVER
06159	1	TJ INFERNO FENDER- PASSENGER
06196	1	BATTERY TRAY - PASSENGER
06101	2	FENDER VENT
06316	1	ACCESSORY BRACKET: TJ HIGHLINE FENDERS - FUSE BOX
06317	1	ACCESSORY BRACKET: TJ HIGHLINE FENDERS - AIR BOX FRONT
06318	1	ACCESSORY BRACKET: TJ HIGHLINE FENDERS - AIR BOX REAR
06319	1	ACCESSORY BRACKET: TJ HIGHLINE FENDERS - HORN
06320	1	ACCESSORY BRACKET: TJ HIGHLINE FENDERS - WASHER RESERVOIR FRONT
06321	1	ACCESSORY BRACKET: TJ HIGHLINE FENDERS - WASHER RESERVOIR REAR
NP-49068-1	1	RUBBER TRIM
MC-3LED-HL-Y	2	3/4" ROUND MARKER/TURN SIGNAL - AMBER
CWLTJ30411B		1997-2006 JEEP WRANGLER TJ INFERNO HIGHLINE FENDERS (INNER)
06093	1	INNER FENDER TOP - DRIVER
06094	1	INNER FENDER BACK - DRIVER
06095	1	INNER FENDER SIDE - DRIVER
06096	1	INNER FENDER TOP - PASSENGER
06097	1	INNER FENDER BACK - PASSENGER
06098	1	INNER FENDER SIDE - PASSENGER
06099	2	INNER FENDER L BRACKET
06100	2	INNER FENDER VENT
C0034		TJ INFERNO HIGHLINE FENDERS BOLT PACK - INNER FENDERS
	16	#10-24 X 1/2" SS FLAT SOCKET CAP SCREW
	18	#10-24 X 5/8" SS BUTTON SOCKET CAP SCREW
	24	#10-24 X 3/8" SS BUTTON SOCKET CAP SCREW
	58	#10-24 SERRATED FLANGE NUT
	4	M8-1.25 X 25 SS BUTTON SOCKET CAP SCREW
	2	M8-1.25 SERRATED FLANGE NUT
	2	M8-1.25 EXTRUDED U-NUT
	2	3/8-16 X 1" HEX BOLT
	4	3/8" WASHER
	2	3/8-16 LOCKNUT
	3	1/4-20 X 5/8" BUTTON SOCKET CAP SCREW
	12	1/4" FLAT WASHER
	9	1/4-20 NYLOCK NUT
	3	1/4-20 X 3/4" BUTTON SOCKET CAP SCREW
	2	1/4-20 X 1" BUTTON SOCKET CAP SCREW
	1	1/4-20 X 3/4" HEX BOLT
	7	22-18 AWG INSULATED FEMALE TERMINAL
	7	22-18 AWG INSULATED MALE TERMINAL

IMPORTANT KIT NOTES

1. TO FIT THE FACTORY HOOD, TRIMMING IS REQUIRED. THE USE OF AFTERMARKET HIGHLINE HOOD IS AN ADDITIONAL OPTION. REFER TO AFTERMARKET HOOD MANUFACTURER FOR PRODUCT SPECIFIC INSTALLATION.
2. AN ADHESIVE SEALANT IS REQUIRED FOR INSTALLING THE EDGE GUARD TO THE TRIMMED EDGE OF THE FACTORY HOOD. A CLEAR RTV SILICONE IS RECOMMENDED.
3. INSTALLATION OF INCLUDED MARKER/TURN LIGHTS IS REQUIRED FOR STREET LEGAL VEHICLES.
4. ENGINE AND ELECTRONIC ACCESSORY BRACKETS REQUIRE DRILLING FOR MOUNTING, DUE TO VARIANCE IN MODEL YEARS. REFER TO ACCESSORY BRACKET INSTALLATION SECTION FOR LOCATING, MARKING, AND DRILLING INTO THE INFERNO HIGHLINE FENDERS.

RECOMMENDED TOOLS

- SAFETY GLASSES
- 4" CUT-OFF WHEEL/TOOL
- METRIC AND STANDARD SOCKET SET WITH SIZES UP TO 3/4" OR 19MM.
- PHILLIPS SCREWDRIVERS #1-#3
- DA OR DISC SANDER
- TORX UP TO T40
- ALLEN WRENCH OR ALLEN SOCKET UP TO 1/2"
- DRILL BIT SET UP TO 3/8" DIAMETER
- WIRE CUTTERS/STRIPPERS
- WIRE CRIMPER
- HEAT GUN

PRE-INSTALLATION NOTES

1. IF YOUR FACTORY INNER FENDERS ARE ALREADY REMOVED SKIP THE FACTORY FLARE REMOVAL STEPS.
2. BE AWARE THAT THE FACTORY HOOD WILL NEED TO BE TRIMMED TO FIT THE NEW FENDERS. DO NOT ATTEMPT TO CLOSE HOOD AFTER HIGH LINE FENDERS ARE INSTALLED.
3. ACCESSORY BRACKETS WERE DEVELOPED ON A 2004 MODEL YEAR TJ. PRE-2003 MODELS MAY REQUIRE ACCESSORY BRACKET MODIFICATIONS TO MOUNT OE COMPONENTS.

FACTORY PASSENGER SIDE FENDER REMOVAL

STEP 1:

DISCONNECT BATTERY AND LEADS TO FUSE BOX (**FIG. 1**) AND LIFT OUT FUSE BOX. POSITION FUSE BOX OUT OF THE WORKING SPACE.





FIGURE 1

STEP 2:

DISCONNECT AND REMOVE BATTERY, BATTERY TRAY - UNPLUG BATTERY SENSOR AND REMOVE FOUR NUTS AT THE TOP AND THREE BOLTS AT THE BOTTOM TO REMOVE BATTERY BRACKET (**FIG. 2A, 2B**). RETAIN OE UPPER BATTERY TRAY PLATE FOR RE-INSTALLATION. ALSO RETAIN TRAY-TO-FIREWALL FLANGE NUTS FOR INSTALLATION OF NEW BATTERY BRACKET.



FIGURE 2A



FIGURE 2B

STEP 3:

LOCATE THE HVAC VACUUM RESERVOIR ATTACHED TO THE INNER FENDER PANEL (**FIG. 2C, 2D**). REMOVE THE SCREWS ATTACHING THE RESERVOIR TO THE INNER FENDER AND SECURE RESERVOIR OUT OF THE WAY.



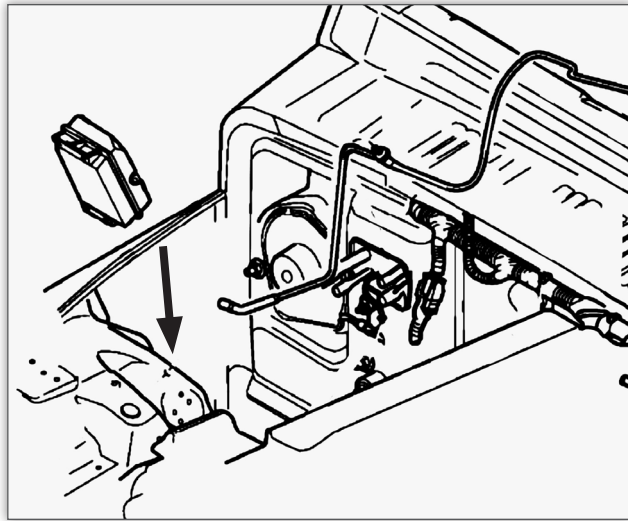


FIGURE 2C



FIGURE 2D

STEP 4:

REMOVE AC AND WIRING HARNESS CLIPS FROM INNER FENDER USING TRIM TOOL.

STEP 5: (OPTIONAL)

REMOVE FRONT WHEEL FOR BETTER ACCESS TO INNER FENDER. PARK VEHICLE ON CLEAN, FLAT SURFACE, BLOCK REAR WHEELS FOR SAFETY. USE APPROPRIATE HYDRAULIC JACK AND/OR STANDS TO SUPPORT VEHICLE.

STEP 6:

DISCONNECT TURN SIGNAL AND SIDE MARKER AND FEED HARNESS BACK THROUGH HOLE IN FENDER.

STEP 7:

REMOVE HOOD LATCH FROM FENDER, SAVE LATCH AND HARDWARE FOR RE-INSTALLATION. TAKE CARE TO SUPPORT THE LATCH FROM TWISTING DURING REMOVAL. FAILURE TO DO SO MAY RESULT IN SHEARING OFF THE PLASTIC ALIGNMENT PINS.

STEP 8:

REMOVE INNER FENDER RUBBER SHIELD AND CLIPS USING TRIM TOOL.

STEP 9:

REMOVE THE THREE OUTER BOLTS AND THE THREE INNER BOLTS LOCATED NEAR THE FRONT OF THE INNER FENDER (**FIG. 4A, 4B**).

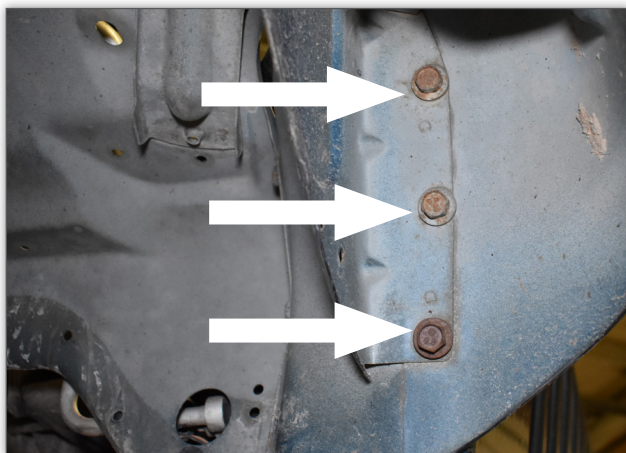


FIGURE 4A

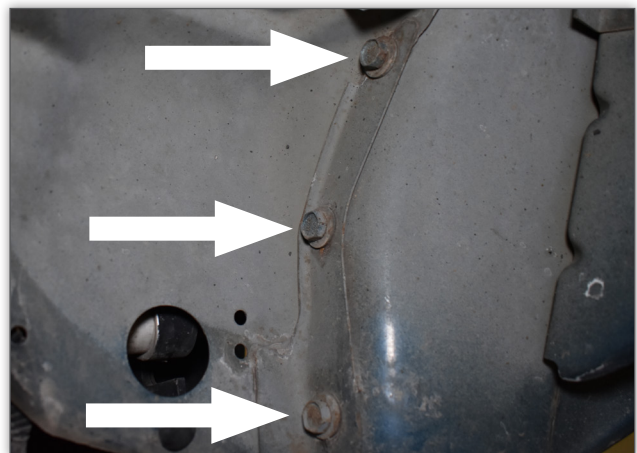


FIGURE 4B



STEP 10:

REMOVE FOUR INNER FENDER BOLTS LOCATED IN THE REAR OF THE INNER FENDER (**FIG. 5**).

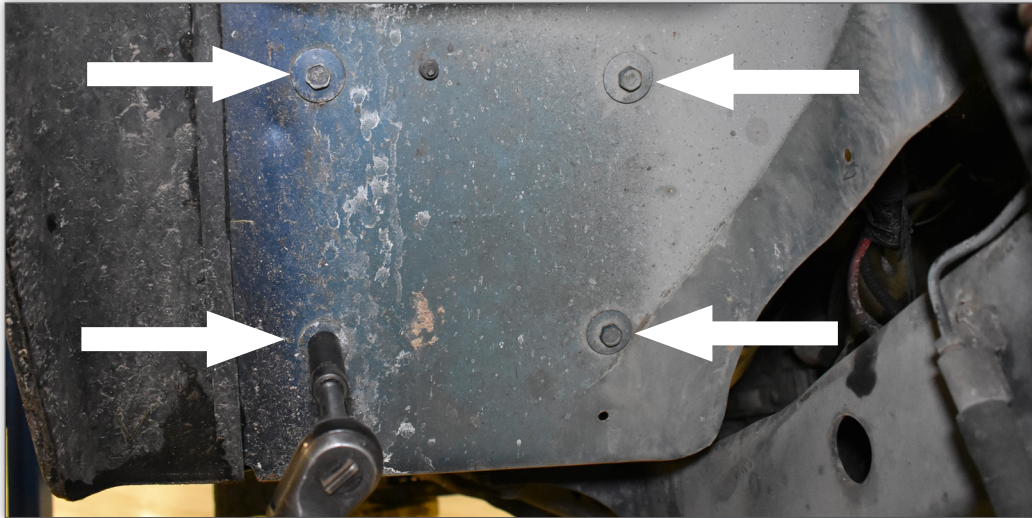


FIGURE 5

STEP 11:

REMOVE THE FOUR BOLTS FOUND INSIDE THE FENDER THAT ATTACHES THE FENDER TO THE TUB/BODY. THE BOTTOM TWO BOLTS CAN BE ACCESSED FROM THE BOTTOM, THE TOP TWO CAN BE ACCESSED FROM THE ENGINE COMPARTMENT (**FIG. 6A**). IF EQUIPPED REMOVE THE FENDER FLARE BOLT ALSO (**FIG. 6B**).

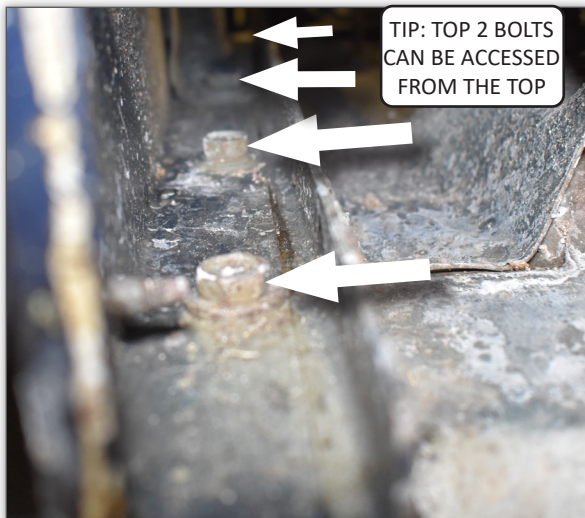


FIGURE 6A



FIGURE 6B

STEP 12:

REMOVE THE FENDER.



PASSENGER SIDE FENDER INSTALLATION

STEP 1:

INSTALL PASSENGER BATTERY TRAY BRACKET (06196) USING TWO FACTORY NUTS. LEAVE HARDWARE LOOSE UNTIL FENDER IS INSTALLED (**FIG. 7**).

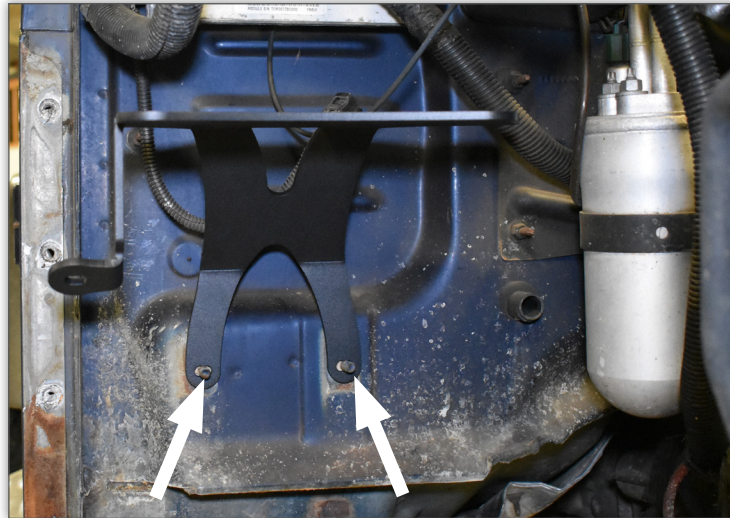


FIGURE 7

STEP 2:

INSTALL PASSENGER SIDE FENDER (06159) USING FOUR FACTORY BOLTS AT THE CAB IN ALL CORRESPONDING THREADED HOLES (**FIG. 8A**). USING ONE PROVIDED M8-1.25 X 25MM BUTTON HEAD BOLT AND FLANGE NUT, ATTACH FENDER TO BATTERY BRACKET. NOTE THAT THE FENDER MOUNTS TO THE OUTSIDE OF THE BATTERY BRACKET TAB (**FIG. 8B**). DO NOT TIGHTEN HARDWARE AT THIS TIME.



FIGURE 8A



FIGURE 8B



STEP 3:

INSTALL EXTRUDED U-NUT AT GRILL ASSEMBLY AS SHOWN AND USE ONE PROVIDED M8-1.25 X 25MM BUTTON HEAD BOLT TO ATTACH FENDER AT THIS POINT. THREAD M8 BOLT A COUPLE TURNS BY HAND, DO NOT TIGHTEN HARDWARE AT THIS TIME (**FIG. 9**).



FIGURE 9

STEP 4:

INSTALL FRONT FENDER BOLTS, RE-INSTALLING OE HARDWARE INTO BOTTOM HOLE FIRST. INSTALL OTHER HARDWARE LOOSELY TAKING CARE NOT TO CROSS THREAD. TIGHTEN HARDWARE STARTING AT THE FRONT BOTTOM BOLT (**FIG. 10**) WORKING UP THEN TO BACK OF THE FENDER. TIGHTEN BATTERY TRAY AND BRACKET BOLTS AND NUTS LAST.

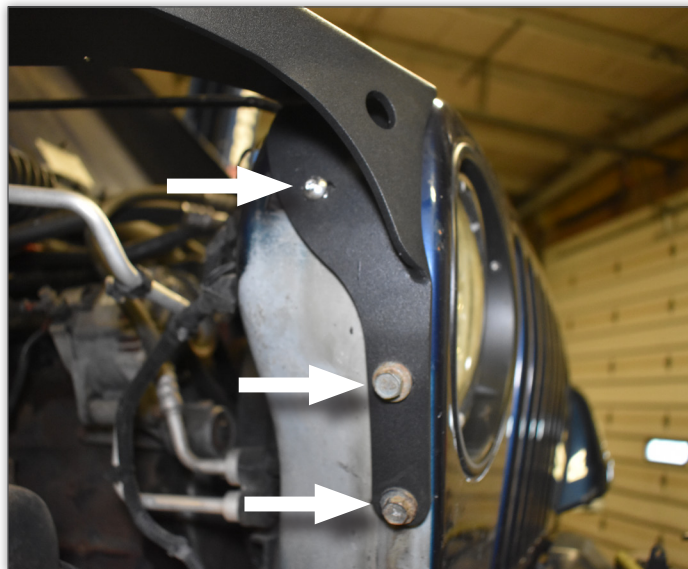


FIGURE 10



STEP 5:

LOCATE INNER FENDER BACK (06097) TO DRILL HOLES FOR MOUNTING OF VACUUM CANISTER. MARK THE FIRST HOLE AS INDICATED IN **FIG. 11A**. USE THE VACUUM CANISTER TO FIND AND MARK THE REMAINING HOLES BY ALIGNING THE FIRST HOLE AND HOLDING THE VAC CANISTER PARALLEL TO THE EDGE IDENTIFIED IN **FIG. 11B** BY THE DOTTED LINE. MARK AND DRILL FOUR HOLES USING A 7/32 DRILL BIT. MOUNT THE VAC CANISTER TO THE INNER FENDER USING FOUR PROVIDED 10/24 X 5/8" BUTTON HEAD BOLTS AND FLANGE NUTS. **DO NOT OVERTIGHTEN TO AVOID DAMAGING VAC CANISTER MOUNTING TABS.**



FIGURE 11A

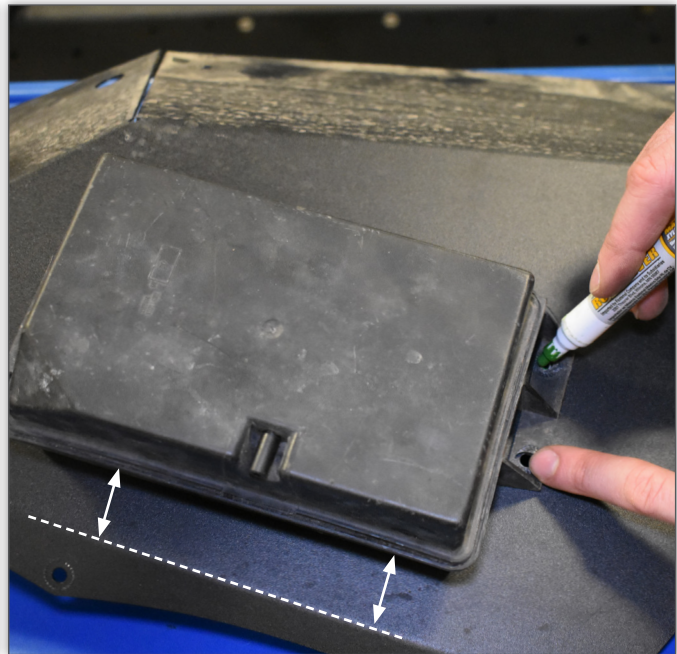


FIGURE 11B

STEP 6:

INSTALL REAR MOST INNER FENDER USING THREE PROVIDED 10-24 X 5/8" BUTTON HEAD BOLTS AND NUTS (**FIG. 12**).

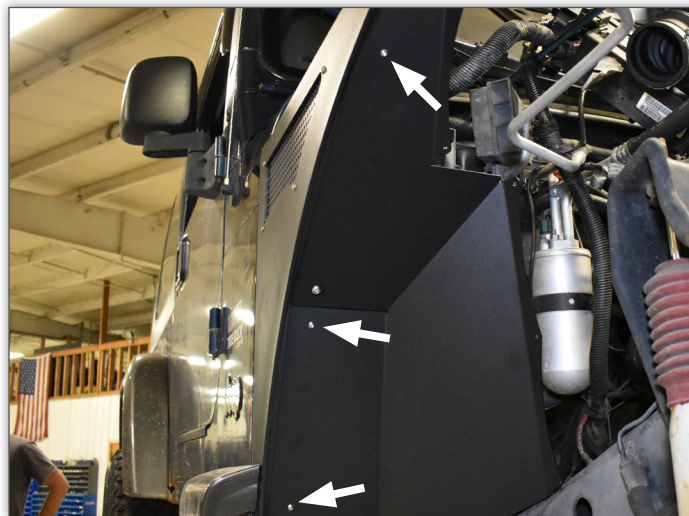


FIGURE 12

STEP 7:

INSTALL INNER FENDER L-BRACKET (06099) TO THE GRILL WITH THE FACTORY HARDWARE, DO NOT TIGHTEN AT THIS TIME (**FIG. 13A**). INSTALL INNER FENDER SIDE (06098) USING FOUR PROVIDED 10/24 X 3/8" BUTTON HEAD BOLTS AND FLANGE NUTS (**FIG. 13B**).



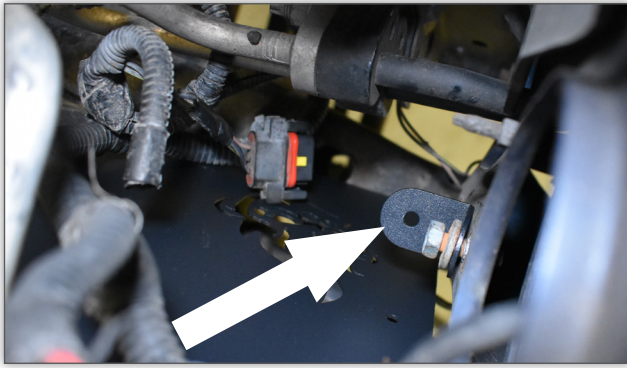


FIGURE 13A

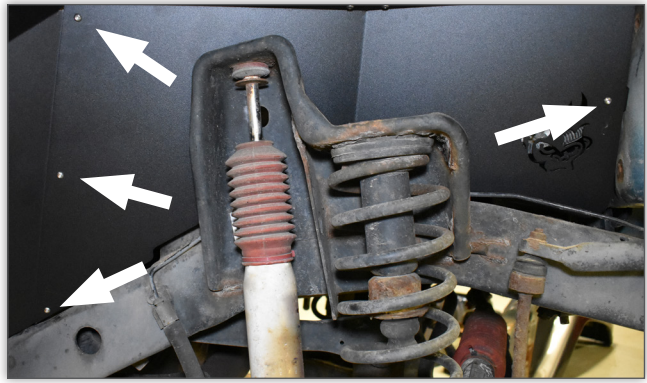


FIGURE 13B

STEP 8:

INSTALL THE PASSENGER TOP INNER FENDER (06096) USING FOUR 10-24 X 3/8" BUTTON HEAD BOLTS AND FLANGE NUTS (**FIG. 14A**). INSTALL FOUR PROVIDED 10-24 X 1/2" FLAT SOCKET CAP SCREWS AND FLANGE NUTS INTO THE COUNTERSUNK HOLES ON TOP OF THE FENDER (**FIG 14B**). INSTALL TWO PROVIDED 10-24 X 5/8" BUTTON BOLTS AND FLANGE NUTS TO THE SIDE AND TOP INNER FENDER (**FIG. 14C**).

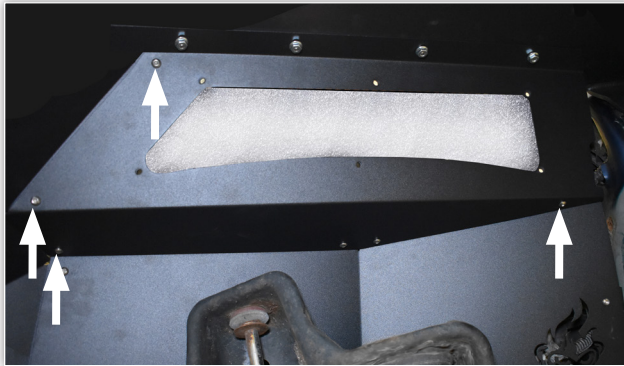


FIGURE 14A

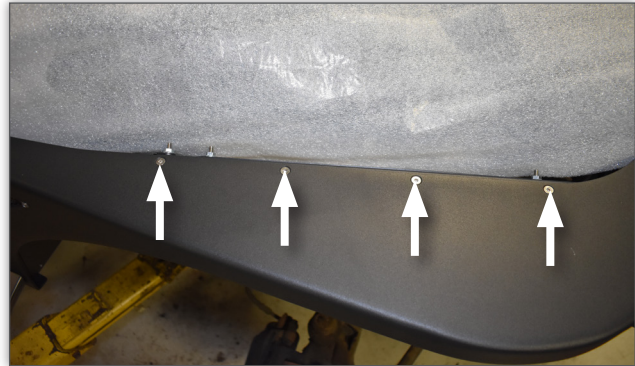


FIGURE 14B

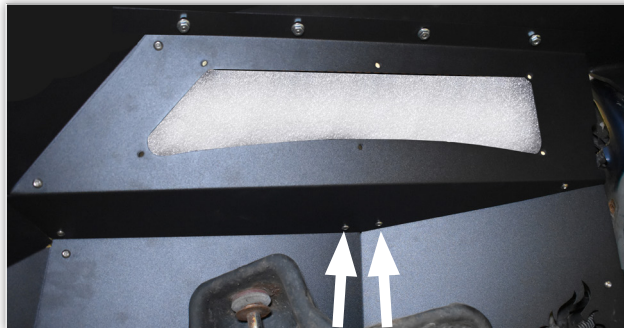


FIGURE 14C

STEP 9:

TIGHTEN ALL INNER FENDER HARDWARE. ATTACH L-BRACKET TO PASSENGER INNER FENDER SIDE (06098) WITH 10-24 X 5/8" BUTTON HEAD BOLT AND FLANGE NUT.

STEP 10:

INSTALL INNER FENDER VENT (06100) ON THE INSIDE OF THE FENDER USING FIVE PROVIDED 10-24 X 3/8" BUTTON HEAD BOLTS AND FLANGE NUTS. FOR THE SIXTH BOLT CIRCLED IN **FIG. 15A**, USE ONE 10-24 X 5/8" BUTTON HEAD BOLT AND FLANGE NUT. INSTALL THE FENDER VENT (06101) USING FOUR 10-24 X 3/4" FLAT SOCKET CAP SCREWS AND FLANGE NUTS (**FIG. 15B**).



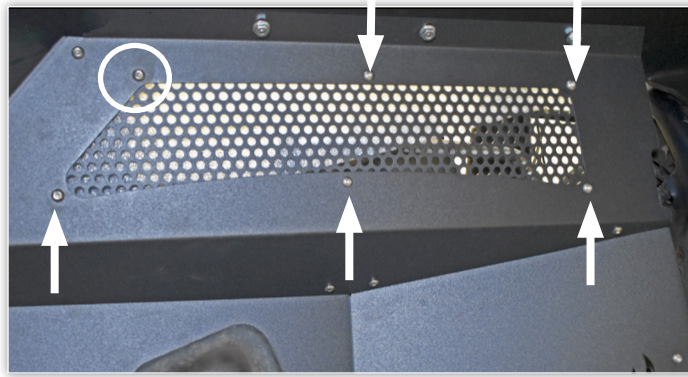


FIGURE 15A



FIGURE 15B

FACTORY DRIVER SIDE FENDER REMOVAL

STEP 1:

LOCATE AND REMOVE ALL WIRE HARNESS CHRISTMAS TREE CLIPS LOCATED ON DRIVER ENGINE COMPARTMENT SIDE OF THE FENDER LINER USING A TRIM TOOL (**FIG. 16**).



FIGURE 16



STEP 2:

UNPLUG THE HARNESS FROM THE WASHER MOTOR. LOCATE AND REMOVE THE TWO BOLTS ATTACHING THE WASHER FLUID RESERVOIR TO THE INNER FENDER. SET RESERVOIR TO THE SIDE IN THE ENGINE COMPARTMENT (**FIG. 17**).

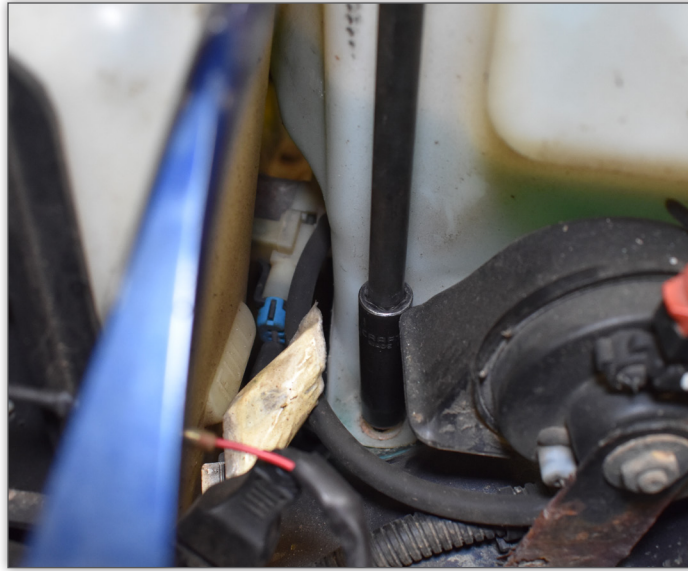


FIGURE 17

STEP 3:

UNPLUG THE WIRE HARNESS FROM THE HORN. LOCATE AND REMOVE THE BOLT ATTACHING THE HORN TO THE INNER FENDER (**FIG. 18**).



FIGURE 18

STEP 4:

LOCATE AND REMOVE THE TWO BOLTS ATTACHING THE VAPOR SOLENOID AND LINES TO THE INNER FENDER (**FIG. 19**). SAVE BRACKET FOR RE-INSTALLATION OF THE VAPOR SOLENOID TO HIGHLINE FENDERS.





FIGURE 19

STEP 5:

REMOVE THE FOUR BOLTS FOUND AT THE REAR OF THE INNER FENDER (**FIG. 20**).

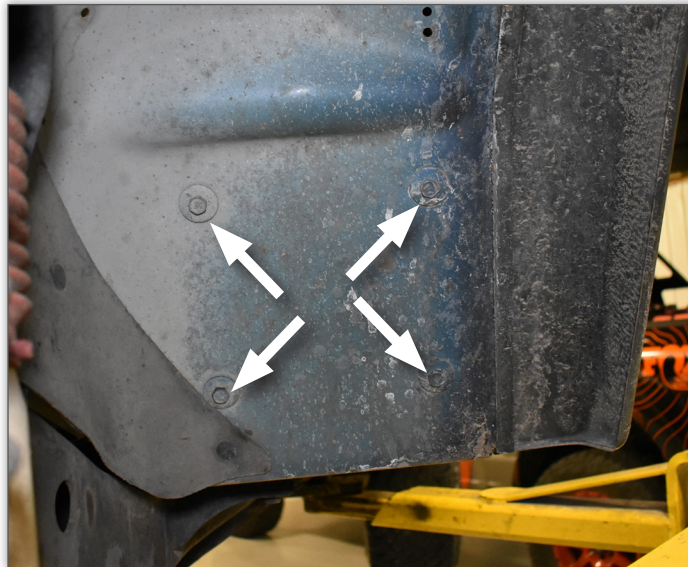


FIGURE 20

STEP 6:

REMOVE THE SIX BOLTS FOUND AT THE FRONT OF THE INNER FENDER (**FIG. 21A, 21B**).





FIGURE 21A

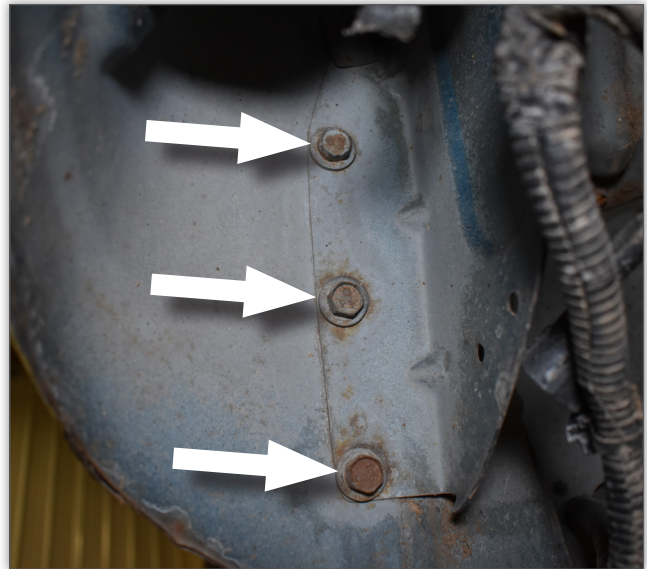


FIGURE 21B

STEP 7:

REMOVE THE FOUR BOLTS FOUND INSIDE THE BODY ATTACHING THE FENDER NEAR THE CAB. THE BOTTOM TWO BOLTS CAN BE ACCESSED FROM THE BOTTOM, THE TOP TWO CAN BE ACCESSED FROM THE ENGINE COMPARTMENT (FIG. 22A). IF EQUIPPED REMOVE THE FENDER FLARE BOLT (FIG. 22B).

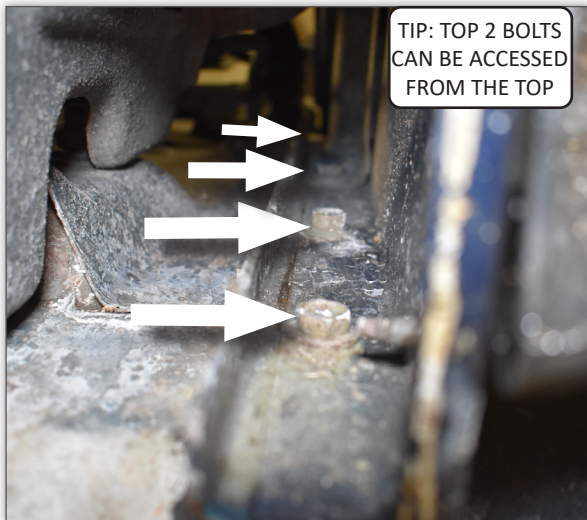


FIGURE 22A



FIGURE 22B

STEP 8:

REMOVE THE FENDER.



DRIVERS SIDE FENDER INSTALLATION

STEP 9:

FOLLOW STEPS FOUND IN THE PREVIOUS PASSENGER FENDER INSTALLATION STEPS 1 THROUGH 10, SKIPPING STEP 5. ACCESSORY ITEMS AND BRACKET INSTALLATIONS ARE COVERED LATER.

OPTIONAL: BATTERY TRAY - DRIVER (06195) MAY BE INSTALLED IF RUNNING A DUAL BATTERY OR OTHER AFTERMARKET CONFIGURATION. DRIVER SIDE BATTERY TRAY INSTALLATION MATCHES THE PREVIOUSLY INSTALLED PASSENGER SIDE.

FACTORY HOOD TRIMMING PROCEDURE

STEP 1:

DISCONNECT HOOD LIGHT, WIRING CLIPS, WINDSHIELD WASHER TUBING AND GROUND WIRE FROM THE HOOD (**FIG. 23A, 23B**). USING A PLUG AND/OR CLAMP, PINCH WINDSHIELD WASHER TUBE TO PREVENT SPILLING DURING REMOVAL/TRIMMING OF THE HOOD. DISCONNECT HOOD HINGES FROM THE HOOD (**FIG. 23C**).

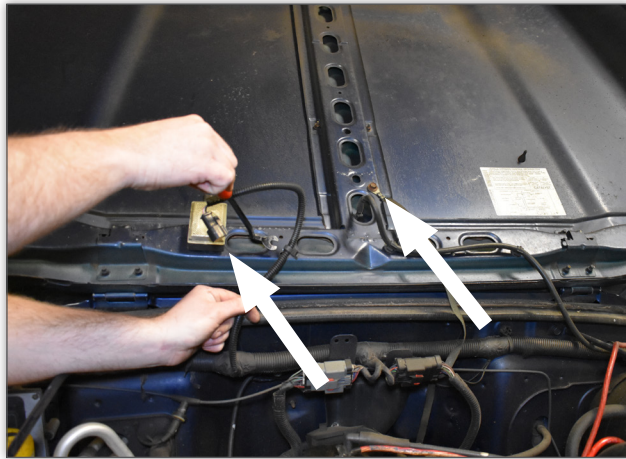


FIGURE 23A



FIGURE 23B



FIGURE 23C

STEP 2:

PLACE FOAM SHEET OR OTHER MATERIAL ONTO NEW HIGHLINE FENDERS TO PROTECT FROM DAMAGE. THIS MATERIAL CAN AID IN SETTING YOUR DESIRED HOOD TO FENDER BODY GAP. SHOWN IS 1/8" THICK MATERIAL. REMOVE HOOD CATCH FROM BOTH SIDES OF THE HOOD AND SAVE HARDWARE. THESE WILL BE USED DURING RE-INSTALLATION. PLACE HOOD IN INSTALLED POSITION. USE PAINTER'S TAPE AS SHOWN TO PROTECT HOOD AND AS A MARKING SURFACE FOR SETTING YOUR TRIM LINE (FIG. 24).

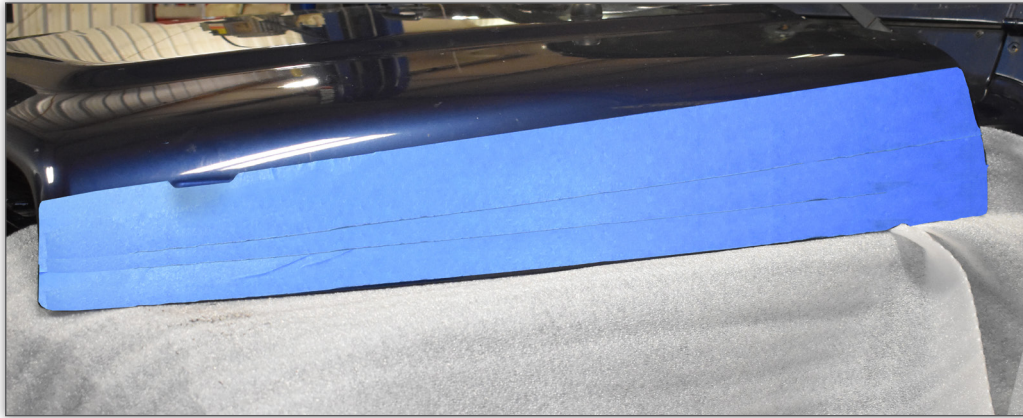


FIGURE 24

STEP 3:

TAKE MEASUREMENTS BEFORE THE CUT:

- MEASURE AND RECORD THE DISTANCE BETWEEN THE GRILL ASSEMBLY AND HOOD IN TWO POSITIONS: DRIVER, PASSENGER (FIG. 25A).

DRV: _____ PASS: _____

- MEASURE AND RECORD THE DISTANCE BETWEEN THE COWL AND HOOD IN TWO POSITIONS: DRIVER, PASSENGER. ENSURE DRIVER AND PASSENGER MEASUREMENTS ARE TAKEN ON THE LOWER TRANSITION OF THE HOOD FROM THE CENTER HOOD BULGE (FIG. 25A).

DRV: _____ PASS: _____



FIGURE 25A



STEP 4:

FOR THE FIRST CUT, **SUBTRACT 1" FROM YOUR MEASURED VALUES IN STEP 3** AND MARK A CUT LINE ON THE PAINTER'S TAPE (**FIG 25B**) ON EACH SIDE OF THE HOOD. USE A CUTOFF WHEEL OR RECIPROCATING TOOL AND CUT ALONG YOUR FIRST MARKED LINES.

NOTE: THIS TWO CUT PROCEDURE ALLOWS ADJUSTMENTS IN PITCH/PROFILE OF HOOD EDGE BEFORE THE SECOND/FINAL CUT.

STEP 5:

BEFORE THE SECOND CUT, ENSURE HOOD IS IN INSTALLED POSITION AND RE-MEASURE DISTANCES SHOWN IN STEP 3. MEASURE AND MARK SECOND/FINAL CUT LINE ON THE PAINTER'S TAPE (**FIG 25B**) TO ACHIEVE DESIRED BODY LINE GAPS BETWEEN HOOD/FENDER AND HOOD/GRILL ASSEMBLY.

NOTE: THE DOTTED LINES SHOWN IN FIGURE 25B ARE FOR REFERENCE. MEASURE AND CUT ACCORDINGLY FOR YOUR APPLICATION.

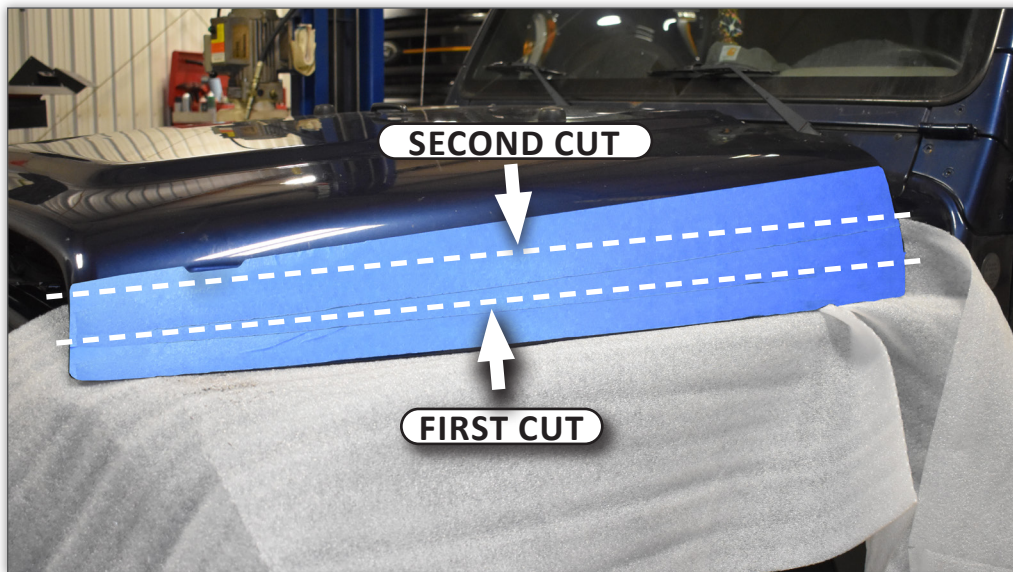


FIGURE 25B

STEP 6:

REMOUNT THE HOOD TO THE HINGES AFTER SECOND CUT AND CHECK FINAL CLEARANCES. TRIM TO FINAL DESIRED SEAM GAP AS NECESSARY. WHEN REMOUNTING HOOD AND CHECKING CLEARANCE, SLOWLY CLOSE THE HOOD AND FIRST WATCH CLEARANCES OF THE HOOD-TO-FENDERS NEAR THE FIREWALL.

STEP 7:

CLEAN UP THE FINAL CUT EDGE WITH A DA OR DISC SANDER.

HOOD LATCH INSTALLATION

STEP 1:

COVER THE SURFACES OF THE HOOD AND FENDER WHERE THE LATCH IS TO BE MOUNTED WITH PAINTERS TAPE. (**FIG. 26**)





FIGURE 26

STEP 2:

ENSURE HOOD IS IN THE FULLY CLOSED POSITION. NEXT, NEST HOOD LATCH WITHIN THE STAMPED CONTOUR THAT REMAINS FROM THE HOOD CATCH (**FIG 27A**). TRACE THE LATCH BASE, TWO LOCATING PINS, AND MOUNTING STUD (**FIG. 27B**) POSITIONS ONTO THE TAPED HIGHLINE FENDER. MEASURE THESE TRACED POSITIONS AND COMPARE TO ACTUAL MEASUREMENT BETWEEN THE PINS AND STUD. USE A CENTER PUNCH TO MARK HOLE CENTERS, DRILL USING RECOMMENDED SIZING (**FIG. 27C**), AND TOUCH-UP DRILLED HOLES WITH PAINT:

- FOR LOCATING PINS, DRILL A PILOT HOLE AND STEP UP TO 1/4" FINAL DRILL BIT DIAMETER.
- FOR LATCH MOUNTING STUD, DRILL A PILOT HOLE AND STEP UP TO 5/16" FINAL DRILL BIT DIAMETER.



FIGURE 27A



FIGURE 27B



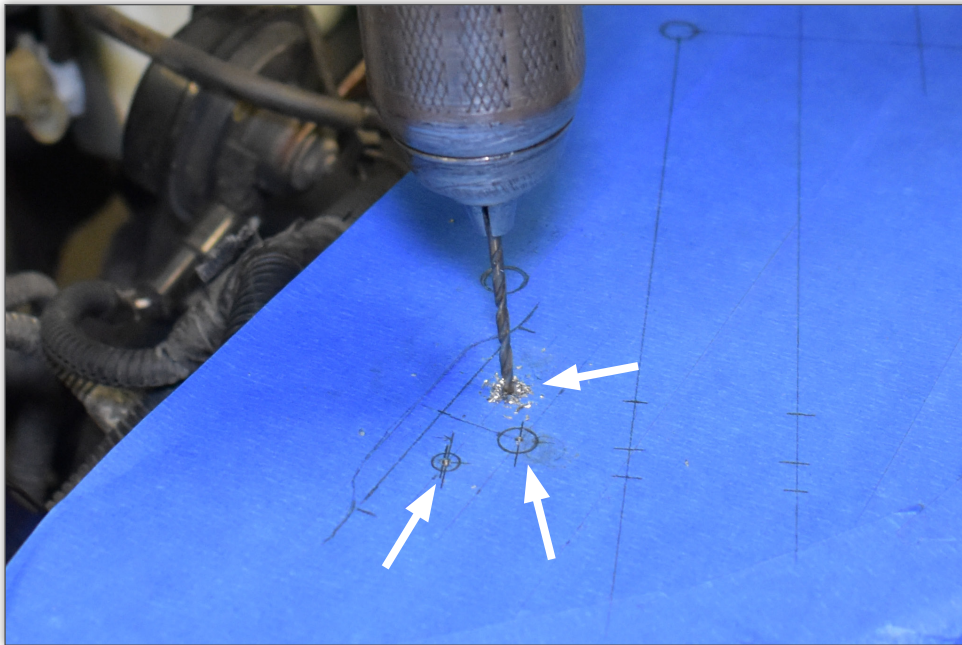


FIGURE 27C

STEP 3:

ENSURE HOOD IS IN A FULLY CLOSED POSITION. POSITION UPPER CATCH IN THE CLOSED POSITION ABOVE THE LOWER LATCH MOUNTED ON FENDER (**FIG. 28A**). MARK THE TWO HOLES, SIDES AND TOP AS ILLUSTRATED BY THE SOLID LINE IN (**FIG. 28B**). IN ORDER TO GIVE THE LATCH TENSION TO HOLD HOOD CLOSED, THE UPPER CATCH MUST BE MOVED UP 1/4" AS ILLUSTRATED BY THE DOTTED LINE (**FIG. 28B**). TRANSLATE THE ORIGINAL TRACE UPWARDS 1/4" AT THIS TIME.



FIGURE 28A

MARK CENTERS OF THE TRANSLATED HOLES USING A CENTER PUNCH, DRILL USING RECOMMENDED SIZING FOR CATCH MOUNTING STUDS, AND TOUCH-UP DRILLED HOLES WITH PAINT:
- DRILL A PILOT HOLE AND STEP UP TO 5/16" FINAL DRILL BIT DIAMETER.



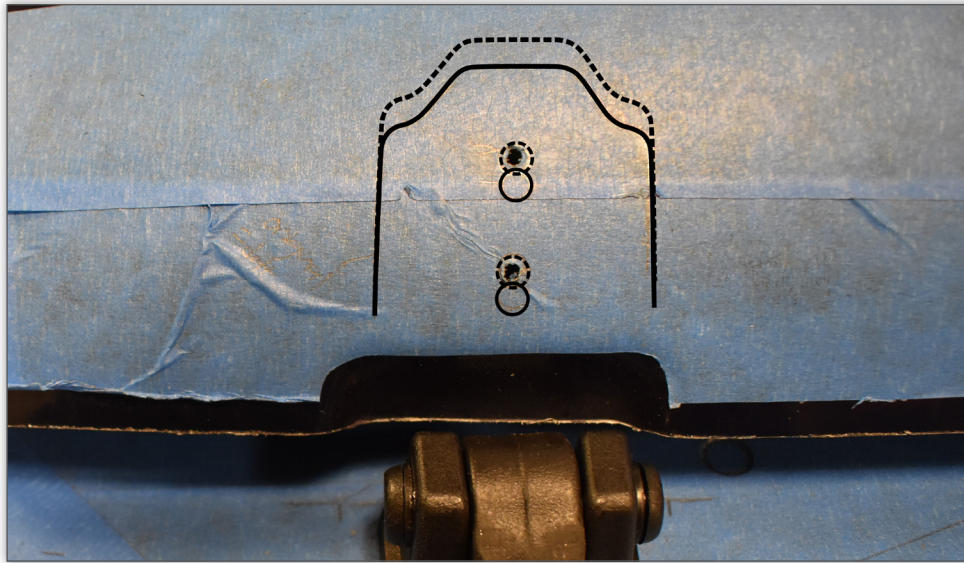


FIGURE 28B

STEP 4:

REINSTALL HOOD CATCH AND HOOD LATCH USING ORIGINAL HARDWARE. TAKE CARE TO AVOID TWISTING AND SHEARING OF PLASTIC LATCH ALIGNMENT PINS.

STEP 5:

INSTALL PROVIDED RUBBER EDGING TO HELP PROTECT THE FENDERS (**FIG. 29**). THE USE OF RTV SILICONE IS RECOMMENDED TO BOND EDGING TO HOOD EDGE.

OPTIONAL: TOUCH-UP PREP AND PAINTING WITH OE COLOR-MATCH IS AN ADDITIONAL OPTION TO SEAL THE TRIMMED EDGE OF THE OE HOOD.

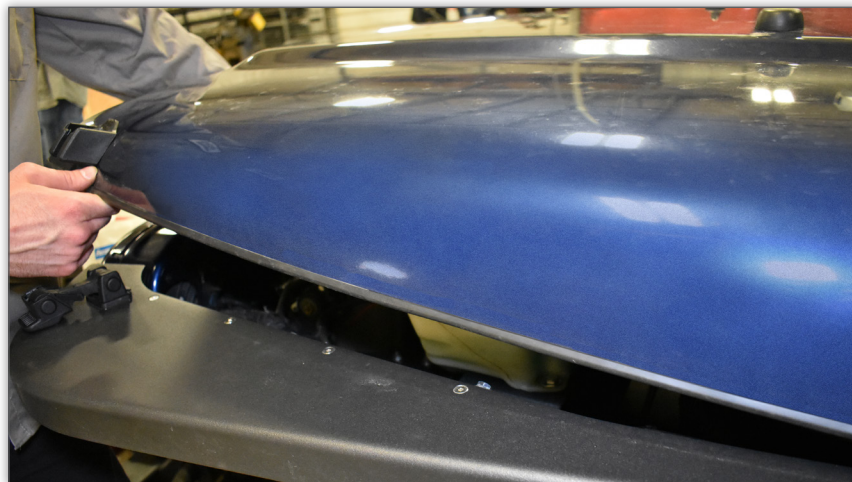


FIGURE 29



TURN MARKER INSTALLATION

STEP 1:

INSTALL MALE HEAT SHRINK WIRE CONNECTORS TO THE LIGHT ASSEMBLY. (RED = POSITIVE, BLACK = GROUND, YELLOW = TURN SIGNAL) **(FIG. 30)**. USE A HEAT GUN TO SHRINK AND SEAL CONNECTOR TO WIRE.

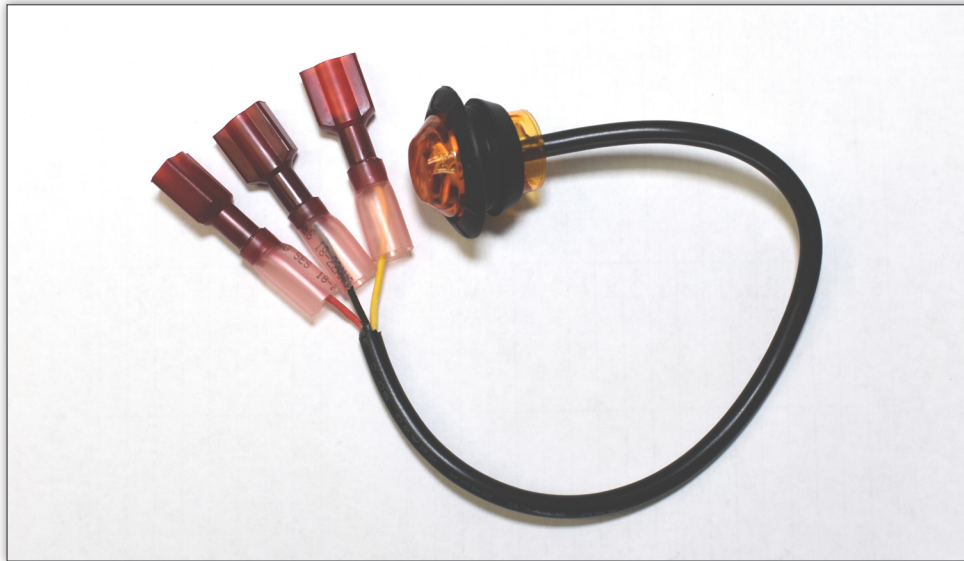


FIGURE 30

STEP 2:

INSTALL FEMALE HEAT SHRINK WIRE CONNECTORS TO THE OE WIRE HARNESS AS SHOWN IN **(FIG. 31)**.

NOTE: REFER TO THE MANUFACTURERS WIRING DIAGRAM TO CORRECTLY MATCH 3/4" ROUND LIGHT WIRING TO CORRESPONDING OE WIRING (WIRING MAY VARY BY MODEL YEAR). USE A HEAT GUN TO SHRINK AND SEAL.

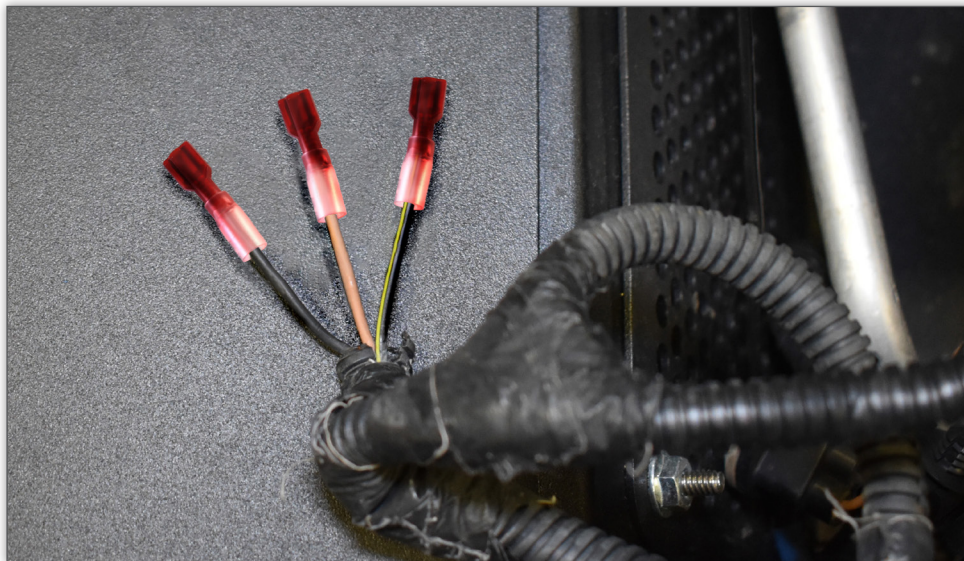


FIGURE 31



STEP 3:

REMOVE AND INSTALL LIGHT GROMMET ON TO FENDER, FEED WIRES, AND PLUG IN WIRING. NOTE: YOU WILL NEED TO REFERENCE FACTORY WIRING DIAGRAM TO DETERMINE CORRECT WIRING (**FIG. 32A, 32B**).

OPTIONAL: TO KEEP THE LIGHT IN POSITION, A SMALL DAB OF RTV SILICONE SEALANT CAN BE USED ON THE CYLINDRICAL SURFACE OF THE LIGHT AND INSIDE BARREL OF THE RUBBER GROMMET.



FIGURE 32A



FIGURE 32B

ACCESSORY BRACKET INSTALLATIONS

STEP 1:

IN THE DRIVER SIDE WHEEL WELL, DETERMINE HOLE LOCATIONS FOR THE SOLENOID BRACKET USING THE REFERENCE IN **FIG. 33A**. MARK FIRST HOLE AS INDICATED. USE THE BRACKET TO DETERMINE THE LOCATION OF THE SECOND HOLE IN **FIG. 33B**. DRILL A PILOT HOLE AND STEP UP TO 9/32" FINAL DRILL BIT DIAMETER (**FIG. 33C**).

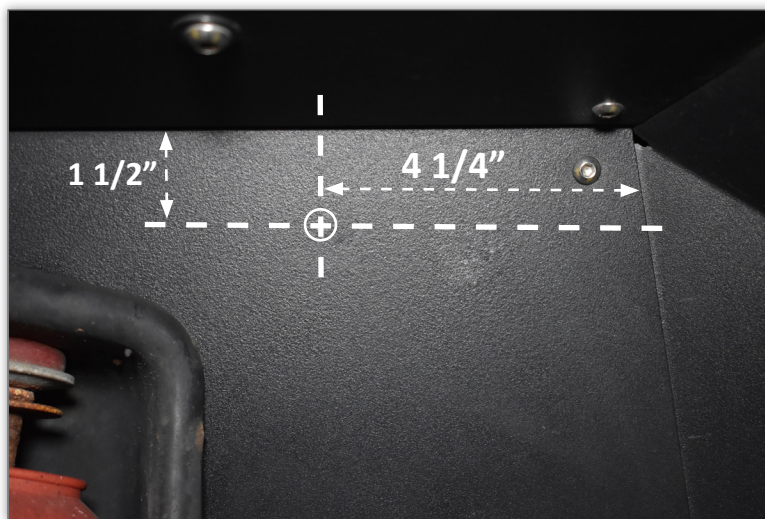


FIGURE 33A



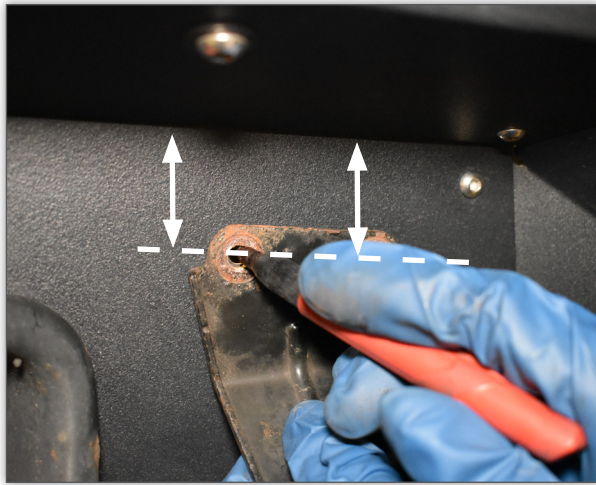


FIGURE 33B

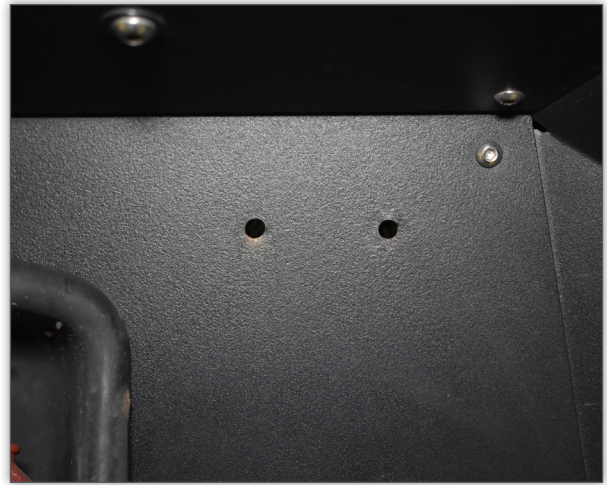


FIGURE 33C

STEP 2:

MOUNT THE FACTORY BRACKET INSIDE THE ENGINE COMPARTMENT TO THE CORRESPONDING HOLES USING THE PROVIDED 1/4-20 X 1" BOLTS AND NYLOCK NUTS. ENSURE THAT THE SOLENOID CLEARS THE BRAKE BOOSTER ASSEMBLY (**FIG. 34**).



FIGURE 34

STEP 3:

NOTE: FOR THE FRONT MOST WASHER FLUID RESERVOIR BRACKET YOU WILL NEED TO LOCATE THE TWO EXISTING INNER FENDER BOLTS. REMOVE TWO 10-24 FLANGE NUTS (5/8" LENGTH BOLT) AND INSTALL WASHER RESERVOIR FRONT BRACKET (06320). REINSTALL FLANGE NUTS AND TIGHTEN (**FIG. 35**).



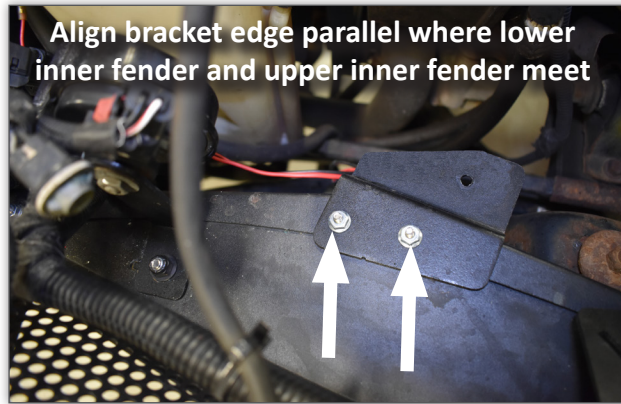


FIGURE 35

STEP 4:

LOOSELY MOUNT THE REAR BRACKET (06321) TO THE WASHER FLUID RESERVOIR. LOOSELY MOUNT THE WASHER FLUID RESERVOIR TO THE FRONT BRACKET AND POSITION FOR PROPER CLEARANCE IN THE ENGINE COMPARTMENT (**FIG. 36A**). ALIGN REAR BRACKET PARALLEL WITH BEND EDGE OF INNER FENDER AND MARK MOUNTING HOLES (**FIG. 36B, 36C**).

NOTE: VERIFY INNER HOOD CLEARANCE TO TOP OF RESERVOIR IN THE FULLY CLOSED POSITION BEFORE DRILLING (**FIG 36A**).



FIGURE 36A



FIGURE 36B



FIGURE 36C



STEP 5:

REMOVE WASHER FLUID RESERVOIR AND BRACKET AND DRILL MARKED HOLES USING A 9/32" DRILL BIT. USE TWO PROVIDED 1/4-20 X 3/4" BUTTON HEAD BOLTS AND NUTS TO INSTALL REAR BRACKET TO INNER FENDER. INSTALL FLUID RESERVOIR TO THE FRONT BRACKET AND REAR BRACKET USING TWO 1/4-20 X 3/4" HEX HEAD BOLTS AND NYLOCK NUTS. TIGHTEN ALL MOUNTING HARDWARE (**FIG. 37**).

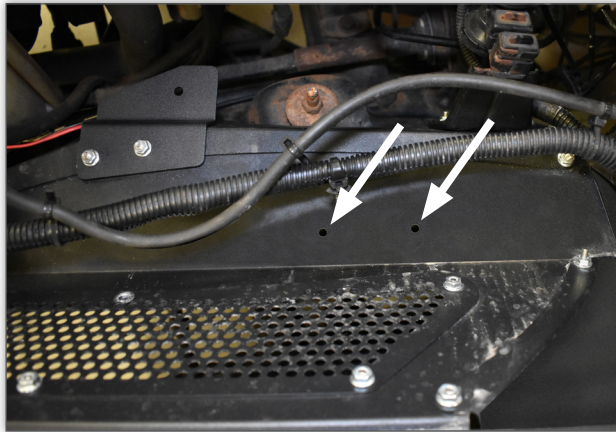


FIGURE 37

STEP 6:

INSTALL PROVIDED HORN BRACKET (06319) TO HORN AS SHOWN IN **FIG. 38** USING FACTORY HARDWARE.

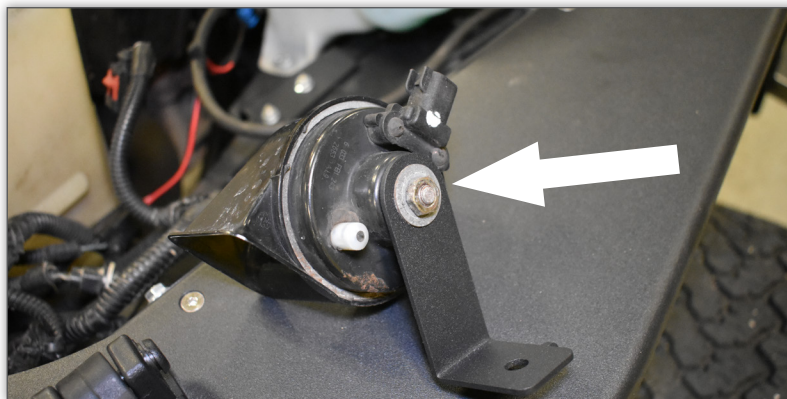


FIGURE 38

STEP 7:

POSITION HORN AND BRACKET AT THE FRONT OF FENDER. POSITION HORN FOR CLEARANCE, ALIGN BEND IN BRACKET AS SHOWN IN **FIG. 39A**. MARK BRACKET HOLE USING A PAINT PEN, DAB PAINT ON ALIGNMENT TAB, ALIGN HOLE AND TOUCH TAB TO INNER FENDER TO MARK HOLE. USE 9/32" DRILL BIT TO DRILL BOLT HOLE. USE A 3/16" DRILL BIT FOR TAB HOLE. MOUNT BRACKET USING ONE 1/4-20 X 5/8 BUTTON HEAD BOLT, 1/4" WASHER, AND NYLOCK NUT (**FIG. 39B**). RECONNECT WIRE HARNESS TO HORN.



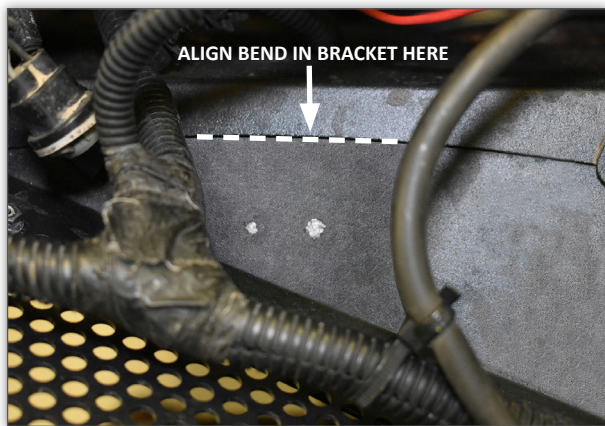


FIGURE 39A

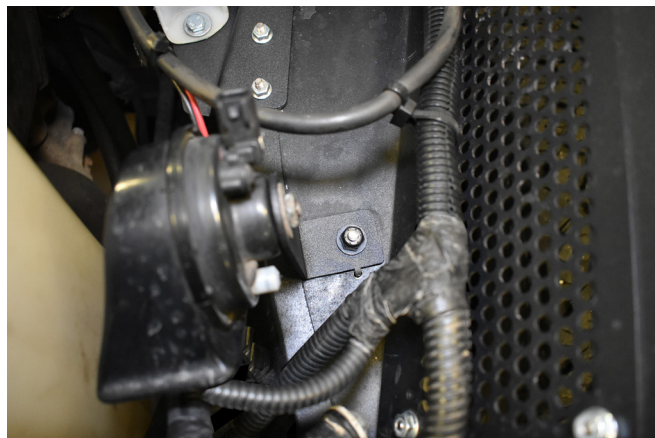


FIGURE 39B

STEP 8:

TO MOUNT FACTORY AIR BOX, LOCATE THE PASSENGER SIDE EXISTING INNER FENDER HOLES SHOWN IN **(FIG. 40A)**. REMOVE TWO PREVIOUSLY INSTALLED 10-24 X 5/8" BUTTON BOLTS AND FLANGE NUTS AND INSTALL AIR BOX FRONT BRACKET (06317). REINSTALL HARDWARE, DO NOT TIGHTEN AT THIS TIME **(FIG. 40B)**.

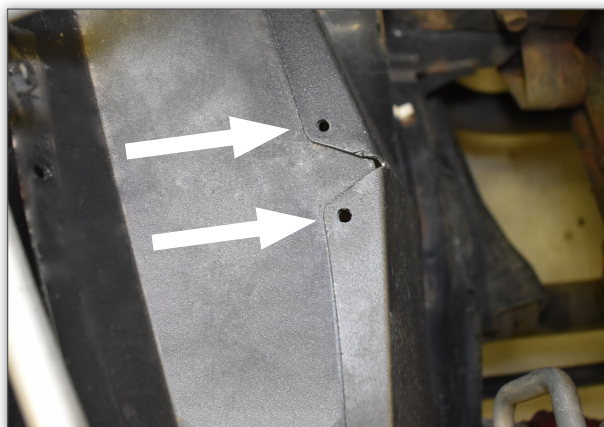


FIGURE 40A



FIGURE 40B

STEP 9:

MOUNT REAR BRACKET (06318) TO AIR BOX, SNUG - DO NOT TIGHTEN **(FIG. 41A)**. SET AIR BOX IN PLACE AND MOUNT TO FRONT BRACKET TO HOLD IN PLACE, SNUG BUT DO NOT TIGHTEN. POSITION BREATHER BOX AND FRONT BRACKET FOR THE MOST CLEARANCE TO GRILL SUPPORT. MARK REAR BRACKET HOLES FOR DRILLING WITH PAINT PEN. REMOVE BREATHER BOX AND DRILL HOLES. MOUNT BOX USING PROVIDED 1/4-20 X 5/8" BUTTON HEAD BOLTS AND NYLOCK NUTS **(FIG. 41B)**.





FIGURE 41A

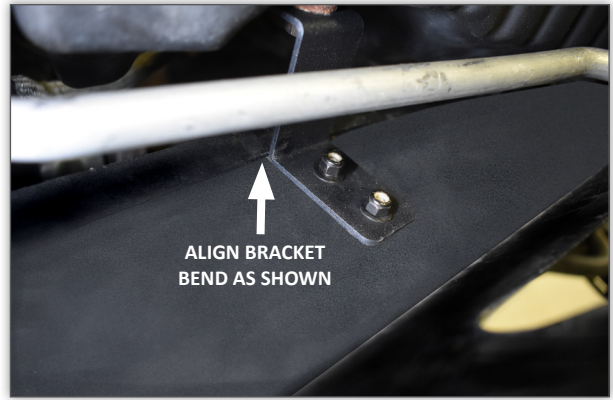


FIGURE 41B

STEP 10:

LOCATE TWO EXISTING INNER FENDER BOLT HOLES (**FIG. 42A**). MOUNT THE PROVIDED FUSE BOX BRACKET (06316) USING THE TWO PREVIOUSLY INSTALLED 10-24 X 5/8" BUTTON HEAD BOLTS AND FLANGE NUTS (**FIG 42B**). CLICK FUSE BOX INTO PLACE (**FIG. 42C**) AND TIGHTEN HARDWARE.



FIGURE 42A



FIGURE 42B



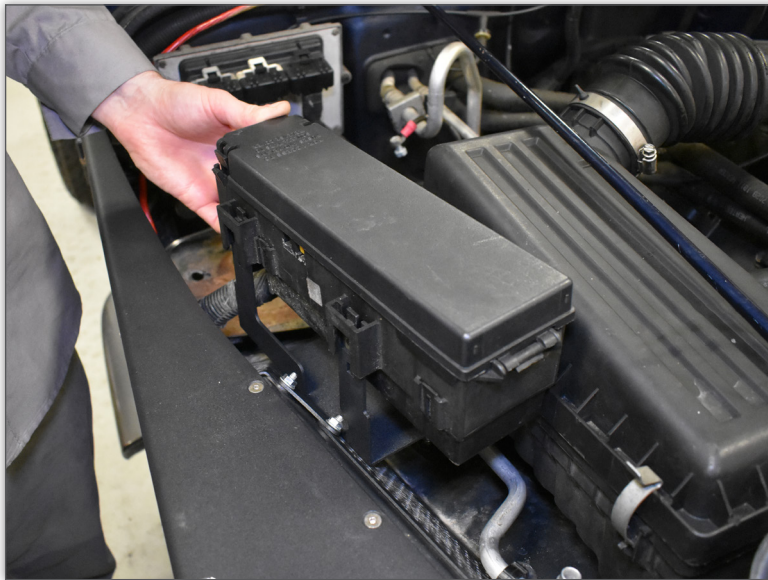


FIGURE 42C

STEP 11:

RECONNECT FUSE BOX LEADS TO BATTERY THEN RECONNECT BATTERY LEADS TO BATTERY. TEST 3/4" MARKER/TURN LIGHTS FOR CORRECT FUNCTIONALITY.

STEP 12:

TIGHTEN ALL HARDWARE. AFTER 500 MILES, RECHECK ALL COMPONENT HARDWARE AND TIGHTEN IF NECESSARY.





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