



GX470 TIRE CARRIER INSTALLATION

TOOLS NEEDED

RATCHET, 10MM SOCKET, 13MM WRENCH, 13MM SOCKET, 14MM WRENCH, 14MM SOCKET, DREMEL, RAZOR BLADE, PANEL PULLER
3/32" DRILL BIT, 1/8" DRILL BIT, 1/4" DRILL BIT, 5/16" DRILL BIT, 3/8" DRILL BIT, 25/64 DRILL BIT, DRILL, RIVET NUT TOOL
WIRE STRIPPER, CRIMPING TOOL, WIRE CUTTERS, HEAT GUN

INCLUDED HARDWARE



1) NECK SUPPORT BRACES

2) NECK HARDWARE

3) TONGUE HARDWARE

4) UPPER CARRIER & INNER SUPPORT BRACE HARDWARE

5) LOWER CARRIER & BACKING PLATE HARDWARE

UPPER



6) INNER SUPPORT BRACES

LOWER

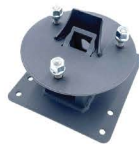


7) TIRE CARRIER



8a) STANDARD NECK
FOR CPM (BUNDLE 2)

or



8b) SLOTTED CAMERA NECK
(BUNDLE 1)



9) *OPTIONAL CENTER PLATE MOUNT (BUNDLE 2)



10) DOWN FORCE PLATE



11) TONGUE



12) QUICK RELEASE CONNECTORS
(FOR BUNDLE 2)



13) DIY RELOCATION FOR
LICENSE PLATE (BUNDLE 1)

*INSTALL SKILL LEVEL



3 OUT OF 5

BEFORE CONTINUING, BE SURE TO KNOW

WE RECOMMEND 2 PEOPLE FOR THIS INSTALL. WE DON'T RECOMMEND ANY ACCESSORIES ADDED TO OUR CARRIER
JW OFFROAD IS NOT RESPONSIBLE FOR ANY DAMAGES, MISUSE OF OUR MOUNTS, OR USER ERROR

STEP 1 CARRIER ASSEMBLY

NEED: NECK SUPPORT BRACES, HARDWARE, TIRE CARRIER AND NECK

- ALIGN NECK FIGURE 1)
- MOUNT NECK SUPPORT BRACES ON 4 INSIDE HOLES ON FACE OF THE NECK 2)



STEP 2 REMOVAL OF PLASTICS

- 1) REMOVE PANEL COVER
- REMOVE 10MM BOLT
- 2) REMOVE PHILLIPS SCREW
- 3) REMOVE HANDLE
- 4) USE BODY PANEL TOOL & POP TABS TO REMOVE REAR HATCH PLASTICS.
- 5) REMOVE DUST SHIELD
- 6) REMOVE CHROME TRIM TO REMOVE CAMERA



STEP 3 MOUNTING THE CARRIER

- 1) CENTER THE CARRIER TO HATCH
- 2) GOOD REF. FOR CENTER
- 3) ONCE CENTERED, MARK THE HOLES.
- 4) MAKE SURE CENTER OF EACH SIDE IS 1 3/8" FROM BOTTOM OF WINDOW
- 5) CENTER PUNCH TOP MOUNTING POINTS



STEP 4 DRILLING THE HATCH

- 1) START WITH A 3/32" DRILL BIT TO START YOUR PILOT HOLE
- 2) WORK YOUR WAY UP 1/8", 1/4"
- 3) FINISH WITH THE 5/16" DRILL BIT



* DO NOT MOUNT THE CARRIER YET.

STEP 5 MOUNT CARRIER

- 1) DRAW A LINE DOWN THE CENTER OF THE REAR HANDLE BRACKET. MEASURE 1/2" UP FROM BOTTOM OF REAR HANDLE BRACKET.

- 2) CENTER PUNCH AND DRILL A PILOT HOLE AND WORK YOUR WAY UP TO 3/8". MAKE SURE YOU GO THROUGH THE BRACKET AND INNER DOOR SKIN.

- 3) SLIDE IN UPPER DOOR SUPPORT BRACKET.

- 4) INSERT UPPER CARRIER BOLTS AND HAND TIGHTEN.

- 5) INSERT UPPER INNER DOOR SKIN BRACKET BOLTS & HAND TIGHTEN.

- 6) LOCATE THE TWO HOLES ON THE BOTTOM OF DOOR & USE THE HOLES AS A GUIDE FOR TEMPLATE.

- 7) CENTER PUNCH AND DRILL OUT TO 3/8".

- 8) DRILL OUT LOWER CARRIER BOLT HOLES WITH 5/16" BIT. AFTER 1ST HOLE, INSERT BOLT TO HOLD IN PLACE BEFORE YOU START THE 2ND HOLE.

- 9) PLACE DOWN FORCE PLATE AND BOLTS THROUGH THE LOWER CARRIER BUT NOT THE NUTS YET.

- 10) PLACE BACKING PLATE INSIDE DOOR SKIN ON LOWER CARRIER SIDE.

- 11) PLACE LOWER DOOR SKIN SUPPORT.

- 12) SLIDE IN THE DOOR SKIN SPACER ON OPPOSITE SIDE OF OF THE BACKING PLATE.

- 13) ADD LAST LOWER DOOR SKIN SUPPORT SPACER ON OUTSIDE OF DOOR SKIN AND HAND TIGHTEN BOLTS.

- 14) FIGURE SHOWS HOW LOWER DOOR SKIN SUPPORT SHOULD BE SITTING INSIDE THE DOOR.

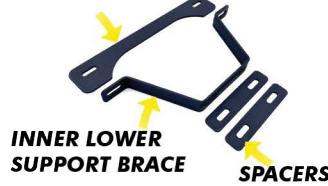
- 15) TIGHTEN CARRIER FROM TOP BOLTS FIRST.

- 16) PUSH UP ON THE DOWN FORCE PLATE WHEN TIGHTENING THE BOTTOM BOLTS.

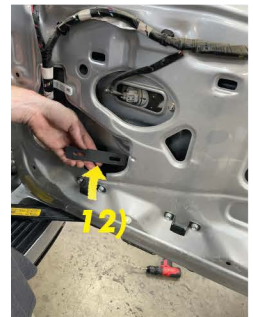
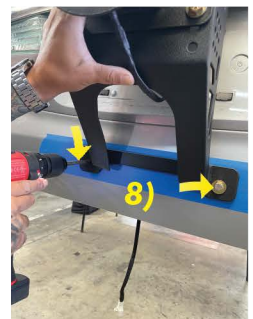
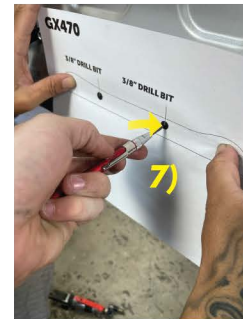
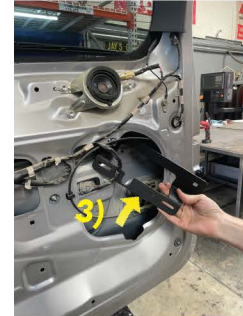
- 17) TIGHTEN ALL INNER DOOR SKIN SUPPORT BOLTS

- 18) STEP 5 COMPLETE

BACKING PLATE



UPPER SUPPORT BRACE



TONGUE INSTALLATION

STEP 6

- 1) REMOVE PLASTIC ACCESS COVER, TAKE OFF BOLT FOR REAR HATCH SHOCK. PULL OFF TOP BUMPER COVER. PUT BACK SHOCK AND HAND TIGHTEN BOLT.

- 2) TAKE OUT BOLT FOR BUMPER TAB 10MM

- 3) USE 3/8" DRILL BIT AND DRILL OUT SPOT WELDS FOR BUMPER TAB. DONT DRILL THROUGH THE CHASSIS. DRILL ENOUGH JUST TO GET THROUGH THE SPOT WELDS.

- 4) PULL BACK TAB AND BREAK OFF. SPRAY WITH PRIMER OR PAINT TO MAKE SURE NO BARE METAL.

- 5) FIGURE 5 SHOWS WHERE TO MARK THAT NEEDS TO BE CUT OUT TO FIT THE TONGUE. EASIEST WAY IS AN AIR SAW AND CUT FIRST STRAIGHT LINE DOWN LEFT SIDE. 2ND CUT WILL BE OPPOSITE SIDE IN ONE MOTION CUT DOWN AND WHEN GETTING TO THE BOTTOM, CURVE THE CUT AND USE THE BUMPER AND A GUIDELINE AND CUT STRAIGHT ACROSS BACK TO THE OTHER SIDE.

- 6) CUT OUT THE CURVE CREATED TO GET THE SINGLE CUT.

- 7) GET THE TONGUE AND CENTER PUNCH TO MAKE SURE YOUR DRILL BIT DOESNT WALK.

- 8) START WITH A PILOT HOLE AND WORK YOUR WAY UP TO 25/64".

- 9) NUTCERT BOTH HOLES FOR THE TONGUE.

- 10) GET THE 2 SHORTER BOLTS FOR THE TONGUE, HAND TIGHTEN THE TONGUE SO YOU CAN CENTER PUNCH THE LOWER TENSION BOLT HOLE. ONCE YOU HAVE THE LOWER POINT MARKED, REMOVE THE TONGUE AND DRILL THE PILOT HOLE MAKING YOUR WAY TO A 25/64". NUTCERT THE LOWER HOLE.

- 11) MOUNT THE TONGUE AND HAND TIGHTEN THE BOLTS, GET THE LOWER TENSION BOLT INSERTED. START WITH THE FRONT BOLTS FIRST AND PRESS DOWN ON THE TONGUE WHEN TIGHTENING THE FRONT BOLTS.

- 12) NEXT TIGHTEN THE LOWER TENSION BOLT JUST ENOUGH FOR THE TONGUE TO SLIGHTLY PRESS DOWN INTO THE BUMPER.

- 13) PLACE THE COVER BACK ON THE BUMPER TO MARK THE CUT OUT FOR THE TONGUE.

- 14) REMOVE THE COVER AND CUT THE 2 SIDE CUTS. NEXT GET A BLADE AND MAKE A FEW CUTS TO MAKE A STRAIGHT LINE. ONCE YOU HAVE A LINE ACROSS, BENT THE TAB AND YOU WILL HAVE A LINE LIKE FIGURE 14. TAKE YOUR BLADE AND CUT THE TAB OUT.

- 15) GRIND OUT ENOUGH OF THE PLASTICS TO CLEAR THE TONGUE BUT DONT GRIND THROUGH THE PLASTIC.

- 16) REMOUNT THE PLASTICS

