

RangerWare



WPS-501-2

INSTALLATION INSTRUCTIONS

WITH SURREY

HARDWARE FOUND IN THIS INSTALLATION KIT:

Hardware Bag #1

Bolt 1/4-20x3/4" Z	7
Flat Washer 1/4" Z	7
Nut 1/4-20 Flange Serrated Z	7

Hardware Bag #2

Bolt 1/4-20x7/8" Button Head SS ..	10
Nut Nylock 1/4-20 Z	10
Washer Bonded Sealing 1/4" SS ..	10
Flat Washer 1/4" Z	10
Steel Attach Tabs	2

Hardware Bag #3

Clamps Vinyl Large	2
Bolt 3/8-16x1.125"	2
Nut 3/8-16 Flange Top Lock	2
Edge Trim Lock	1

54-101-04 Top Install Bracket	1
Installation Instructions	1

TOOLS NEEDED FOR INSTALLATION:

- 7/16" Wrench & Socket
- 9/16" Wrench & Socket
- 7/32" Allen Wrench or "T" Handle
- 5/32" Allen Wrench or "T" Handle
- Diagonal Side Cutters
- 5/16" Drill Bit
- Power Drill

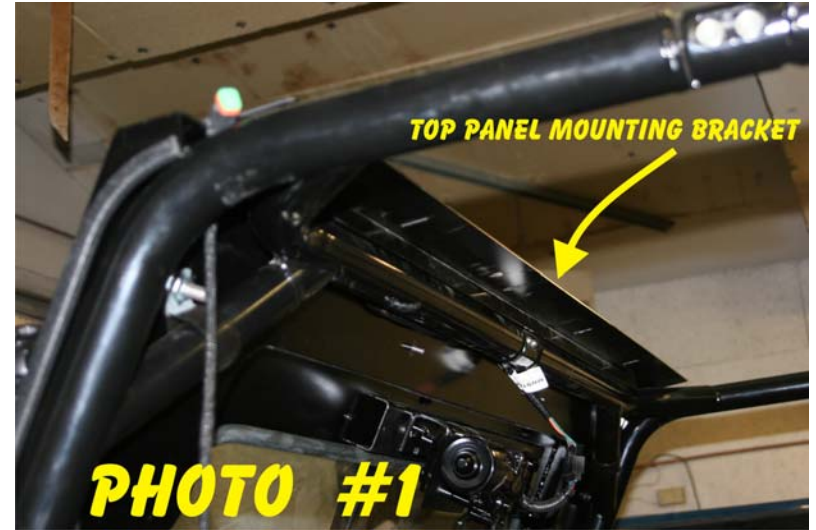
WEATHER PROTECTION SYSTEM INSTALLATION NEW WPS 501-2

- If our WPS 104 Series Heater is to be installed with this package, it is recommended that it be installed prior to the installation of the windshield and Weather Protection System.
- Lubricate the vinyl coverings of all the clamps with either a silicon spray or WD-40, this will make adjustment of the clamps easier during the final alignment and tightening.

A. *Windshield or Front Attach Bracket*

1. Install and attach the windshield as per instructions, either a Ranger *Ware* unit or a steel framed unit sold by the manufacturer. Leave the top two mounting bolts out.
2. Position the top panel attaching top mounting bracket over the top of the windshield frame, with the two outer slots evenly spaced over the top mounting holes in the windshield. Position the two clamps and install the bolts, tighten the nuts finger tight. PHOTO #1

NOTE: The other leg or angle of the attaching top mounting bracket will be pointing to the rear.



3. In the center two slots of the attaching stiffener, drill 5/16" hole through the windshield. Position the holes as close to the center of the slots as possible. Install the 1/4-20x7/8" button head bolts, bonded sealing washers, flat washers and Nylock nuts and finger tighten.
- B. *Top & Back Panel ((See highlighted note on next page for Surrey Top))*
- Before installing the top and back panels, assure that the bolts securing the back roll cage tubes to the machine are installed with the threaded end pointing towards the seat. The back panel will not fit properly otherwise.
1. Install the two vinyl covered clamps on the roll cage tubes on each side of the seat.
PHOTO #2

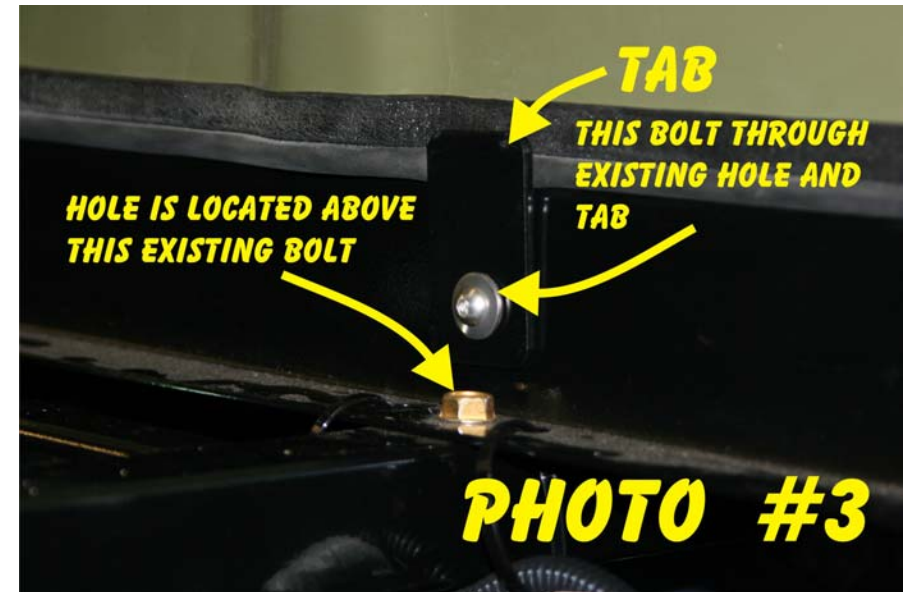


2. Tip the dump box back. Locate the two holes in the lower roll cage support bracket that runs across the back of the cab. These are usually located between the two lock nuts on the “U” bolts mounted on the frame rail. Install the two steel attach tabs so they extend approximately 1/2” above the support bracket, using the 1/4-20x7/8” button head bolts, bonded sealing washers, flat washers and Nylock nuts *PHOTO #3*

Note for Surrey Top Installation:

1. Follow the instructions provided for either a WPS-500-2 or WPS-501-2 however disregard all instructions pertaining to the back panel.
2. With the top loosely fastened to the front attachment bracket, lift the rear corners and slide the rear brackets over the roll cage tubes and align the slot in the bracket with the hole in the top.
- Loosely fasten the bracket to the top. ((A piece of 2 x 4 or any other 1 1/2” thick material may be used between the roll cage tube and the headliner in the rear corners of the top to hold the top in position.))

- Adjust the top to provide uniform fit between the trim edge and roll cage and tighten all fasteners,
3. Using the 2 3/4” bolts, washers and nuts, clamp the rear brackets to the roll cage tubes. Use only enough pressure to keep the bracket from sliding on the tubes.



NOTE: If your support bracket does not have the holes already drilled, you will need two 5/16” holes centered on the frame, down 1 3/8” from the top of the support bracket

3. Install the back panel so it rests on the shelf of the support bracket behind the seat and in front of the two tabs. Center the back panel on the roll cage tubes; the tabs should hold the bottom edge of the back panel in place. Position the two clamps to align with the holes in the back panel, install the bolts and tighten finger tight.
4. Position the top panel on the roll cage, align the (7) bolt holes in the top and back panel covers. Secure with 1/4-20x3/4” bolts, washers and flange nuts provided in the kit; *place the washers under the head of the bolt*, tighten snugly. Install the strip of 3/8” Trim-Lok edge protector.

NOTE: If you have adequate support, the top and back panels can be assembled off the machine. Using two people, lift the assembly into position, do not allow the unit to twist or bend as this may cause cracking.

5. Lift the front of the top panel up slightly and slide the panel forward until the front edge of the headliner material, about 1/2", rests on the top of the attaching stiffener. Measuring from the front face of the top panel and back panel seam, there should be approximately 1 1/8" between this edge and the roll cage tubes. This measurement is approximate and may vary slightly between installations, but it is a starting point to achieve a uniform looking fit between the roll cage tube and the panels trim edge when viewed from the side. A small piece of duct tape may be used to hold the panels to the roll cage tubes while aligning.
 6. With the panels in position on the roll cage tubes, check the alignment of the slots in the attachment stiffener with the holes in the top panel. If necessary, loosen the top windshield bolts to line up the holes and slots. Tighten all four bolts securing the attachment stiffener to the windshield. Next fasten the top panel to the attachment stiffener using the 1/4-20x7/8" button head bolts, bonded sealing washers, Nylock nuts and flat washers provided in the kit. The bonded washers go under the head of the bolt rubber side on the fiberglass.
- NOTE: Tighten the nut until the bolt head puts a slight dimple in the fiberglass top and the top panel is tight to the attachment stiffener. Do not over tighten.**
7. Holding the bottom corners of the back panel firmly against the roll cage, making sure the bottom edge of the back panel is resting on the shelf behind the seat, then

tighten the bolts going through the clamps attaching the back to the roll cage.

NOTE: What you are looking for is a smooth tight fit of the cab to the roll cage tubes, with the same amount of tube showing along the top and back panels. PHOTO #4



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