WPS112 Installation Instructions

If a WPS104 Heater is to be installed, consult the heater installation instructions for installing the air duct vents in the side kick panels.

If the four bolts that terminate in the front wheel well that secure the front roll cage to the machine have not been changed to longer bolts, complete the following. If they have been changed, go to step 2.

1. Remove both driver’s and passenger’s side, kick panels, black panels just aft of the wheel wells. There are 2, 3/8 x 3/4" bolts securing the roll cage to the frame on each side. Remove these and replace with the stainless steel 3/8 X 1-1/2" cap bolts. Replace the nuts and tighten the cage back to the frame.

**NOTE:** Some door hardware (hinges, latches and inner latch support box) are unique to their own door, driver’s side and passenger’s side. To avoid confusion, separate these items and assemble only one door at a time.

Refer to photos 1 and 2

2. Remove the lower bolt that secures the windshield frame to the roll cage. There are 2 hinge brackets, one for the driver’s side and one for the passenger’s side. Using the bolts from the windshield, attach the appropriate hinge bracket to the windshield frame, using the slotted hole in the bracket closest to the hinge line. On the WPS101 Tip-Out Windshield, there will be a hole in the frame for a second bolt. On a Polaris windshield, as an option, you can drill a second hole in the frame and install a bolt. The long slender
portion of the hinge extends down into the wheel well and will align with the 2 bolts that were just replaced; do not remove the nuts that are in place, place the bracket over the 2 bolts and loosely install the two nuts. Repeat the process for the opposite side.

**NOTE:** Shimming with washers may need to be done to make the hinge bracket parallel to the roll cage and square with the threshold.

**NOTE:** To avoid damage to the door and window material during assembly and storage, the door must be supported by the aluminum frame and trim. Doors should be laid out flat, with the outer surface down, on a clean non-abrasive surface large enough to support the frame or stood upright with the frame or trim in contact with the supporting surface. Do not allow tools, hardware or other objects to come in contact with the door material.
Refer to photos 3 and 4

3. On the lower door half, there are 2 outer hinge plates, 2 inner plates, 6 bolts, 6 locking nuts and 12 washers per side. Place the hinge plates, pin down, on the outside of the door over the corresponding holes in the door frame; the plates go on the inside of the door frame. Attach using the hardware provided and tighten loosely. Repeat the process on the opposite side.
Refer to photos 5 through 9

4. Assemble the door latch mechanism outer portion.

a. Align the outer latch cup and gasket, on the outside of the door, with the hole cut in the fabric. The two flat sides of the handle opening must be in the vertical position. Secure the cup and gasket using the 10-24 screws, washers and locknuts.

b. Remove the nut and lock washer from the “T” handle. With the keys provided, make sure the handle is **LOCKED**, holding the two flat sides on the threaded shaft, the “T” handle should not turn. Insert the “T” handle through the latch cup with the cut side of the key pointing **UP**. Unlock and check for rotation.

**On the driver’s side, rotate clockwise one quarter turn; the “T” handle should be vertical.**

Secure the “T” handle with the lock washer and nut.

c. Lock the “T” handle; it should be horizontal in the latch cup. Keep it locked for now as this will help align the inner box assembly. Secure the “T” handle with the lock washer and nut.

5. Position the latch box in reference to the securing bolt holes. Place the locking handle in the latch box so that the long portion of the handle is pointing towards the hinge brackets. Assure that the “T” handle on the outside of the latch is in the horizontal position. Place the locking box into its position on the frame while sliding the 5/16" square rod through the spring and the hole drilled in the handle. **Caution: The inner handle set screws must not protrude into the shaft hole. Loosen if necessary.** When the box is in position, the 5/16" square rod should extend through the rubber grommet located in the end of the box. With everything in place, secure the box to the door frame.
provided. With the handle in a horizontal position, secure the two set screws onto the square shaft. Repeat this process for the opposite door.

**NOTE:** Due to manufacturing tolerances, it may be helpful to gently tap the bolts thru the alignment holes. In extreme cases it may be necessary to re-drill some holes using a 5/16” drill bit. If such measures are used, care must be taken not to damage the door material.

6. To secure the upper door half frame to the lower door half frame, lay both frames on a flat surface, with the two parting surfaces together and the front edges flush with one another. There are 4, 2-1/2” bolts, 4 lock nuts and 8 washers with each door. Place the bolts through the 3 pre-drilled holes on the flat surface of the upper frame through the corresponding holes in the lower frame. Keeping the front edge of the door frames flush; tighten the 3 nuts.

**Caution:** Over tightening the bolts can damage the aluminum frame. Be sure to use flat washers under the bolt head and lock nut. Stop tightening when the frame begins to dimple.

**NOTE:** The upper and lower door halves must be pulled together tightly before the pre-drilled holes on the angled portion of the frame come together

Place the last bolt through the hole on the angled portion of the frame, keeping the frames flush, tighten this nut. You may need to readjust the alignment if necessary. Repeat this process for the opposite door.

7. Place the appropriate door hinge pins into the hinges on the hinge bracket, with the brass washer/spacer between the two hinge pieces. This is easiest with the door in the 90 deg. open position. With one person on the outside to hold and position the door and one person inside the Ranger,
close the door, lifting the handle to the vertical position to clear the “D” loop by the seat.

a. Center the door in the opening; the holes in the frame at the hinge plates are oversize to allow some adjustment. The slots in the hinge bracket also allow for lateral movement of the door. In the hinge area, push the door in so that the door seal is slightly flattened against the roll cage and chassis frame. Make sure the hinge bracket is plumb. Then tighten all of the fasteners on the hinge bracket.

**NOTE:** To allow for any sag of the door, lift the door slightly so the upper rear corner of the door fits snugly against the top cab panel’s trim lock.

b. Position the door frame so that the front edge of the upper door frame weather stripping is up against the edge of the windshield frame. There will be a slight space between the back edge of the door frame and the trim lock of the rear cab panel. Once the door is in position and the door seal is making contact with the roll bar and frame of the Ranger, tighten the 6 bolts on the hinge plates.

Make sure the upper and lower hinge brackets are parallel with each other and that there is no binding of the upper hinge pins into the hinge bracket mount.

c. Rotate the inside handle down so the aft part of the handle is in contact with the “D” loop. Apply slight pressure pushing the door inward compressing the door seals. Loosen the set screws on the handle and adjust on the shaft to hold tension on the door. If there are small gaps in the seal around the frame, it is possible to gently twist the frame to make contact. Repeat this process for the opposite door.

**NOTE:** This door was designed to fit an average Ranger. Since there are variances in each machine, if there is no clearance between the door trim lock weather stripping and the cab weather stripping, it may
be necessary to put spacers under the clamps that hold the cab in place.

8. After some usage, it may be necessary to slightly readjust the door but because of its light weight, there should be little or no sagging. It will be necessary to make sure all the attaching hardware remains tight.

9. Enjoy your new doors.

Prices and specifications are subject to change without prior notice.

DEALER: Please make sure consumer receives this:

CAUTION!

WHEN TOWING OR HAULING VEHICLE

DOORS MUST BE REMOVED
SEE YOUR DEALER FOR OTHER ACCESSORIES BY RangerWare

• Heater
• Wiper System
• Rear Bumper
• Rear View Mirror

Wide Open Company
19006 River Road
Grand Rapids, MN 55744
218-327-9722
www.rangerwarewps.com
e-mail ranger@rangerwarewps.com