



TV 4 RV.com

QUALITY PRODUCTS MADE BY RVers for RVers

Email - sales@tv4rv.com – Phone - 541-244-0250

INSTALLING UNIVERSAL FOLDING LNB ARM KIT #2

The Universal Folding LNB Arm Kit #2 contains:

- 1 Folding LNB Bracket, 1 1/4-20 Hex Bolt with washers and Nylock Nut,
- 1 1/4-20 Eyebolt with washers and T Knob and four 1/8" steel pop rivets.

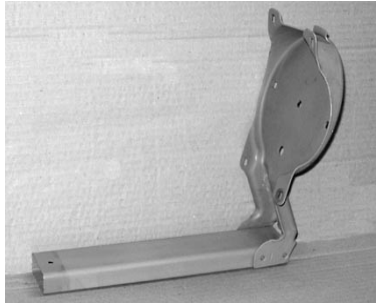






<p>TOOLS NEEDED 1 CAN OF PRIMER OR RUST-OLEUM 2X SATIN GRANITE SPRAY PAINT. BENCH VISE, HAMMER, HACKSAW, PLIERS, MAGIC MARKER, SQUARE, RULER, C CLAMP, FILE 1/2 - 3/4" WIDE, TWO 7/16" WRENCHES, ONE 1/2" WRENCH, AN ELECTRIC DRILL WITH BOTH 1/8" AND 1/4" DRILL BITS, A POP RIVET GUN, A SMALL WOOD BLOCK, AND A SMALL PIECE OF SCRAP STEEL APPROX. 1" X 3".</p> <p>Fig. 1</p>	 <p>Fig. 2</p>	<p>Fig. 1 – You will need to use the tools listed in FIG. 1 to the left to install this kit.</p> <p>INSTALLATION REQUIRES CUTTING THE LNB ARM. IF YOU HAVE QUESTIONS, PLEASE CALL 541-244-0250 BEFORE CONTINUING. WE ADVISE WATCHING THE INSTALLATION ON THE PRODUCT LISTING PAGE OF OUR WEBSITE.</p> <p>STEP 1 - Strip down the satellite dish by removing the dish, LNB head, cables, and the skew assembly (if so equipped). This will leave the LNB arm similar to the one shown in Fig. 2.</p>
 <p>Fig. 3</p>	 <p>Fig. 4</p>	<p>STEP 2 – Measure 1" from the end of the welded bracket and use the square to draw a line with the magic marker on the LNB arm as shown in Fig. 3. (IF THE BRACKET ON YOUR DISH STAYS ON THE DISH WHEN YOU REMOVE THE ARM, YOU WILL NEED TO MARK WHERE THE BRACKET ENDS <u>BEFORE</u> REMOVING THE ARM.)</p> <p>STEP 3 – Continue the line from STEP 2 down both sides of the LNB arm as shown in Fig. 3.</p>
 <p>Fig. 5</p>	 <p>Fig. 6</p>	<p>STEP 4 – Use a hacksaw to cut through the steel one one side of the LNB arm, carefully cutting on the line drawn in Fig. 3. DO NOT CUT ALL THE WAY DOWN THE ARM, JUST THROUGH THE THICKNESS OF THE METAL ON TOP.</p> <p>STEP 5 – Turn the LNB arm over so the other side is facing UP in the vise and make the same cut as in STEP 4.</p> <p>STEP 6 – Using the C Clamp, clamp a small piece of scrap steel strip to connect the two edge cuts and act as a guide while making the cut on the wide section of the arm. This will insure a perfectly straight cut. See FIG. 6.</p>
 <p>Fig. 7</p>	 <p>Fig. 8</p>	<p>STEP 6 – Using the scrap steel as a guide, carefully cut through the top of the LNB arm connecting the two cuts made on each side. Once through, the hacksaw blade will go through to the bottom of the two side cuts. You may now remove the C Clamp and continue cutting the bottom of the arm, using the two side slots as a guide. The result should be a perfectly square cut. FIG 8.</p> <p>STEP 7 – Use the file to remove any burrs and rough edges caused by the cutting. You may now paint the piece with the bracket to prevent rust.</p>



Fig. 9



Fig. 10

STEP 8 – Place the arm section with the bracket (left in FIG. 8) in the vise and clamp in place as shown in FIG. 9.

STEP 9 – Fit the Universal Folding LNB Arm bracket over the LNB arm stub as shown in FIG 10. Some LNB arms might be slightly larger, requiring a bit of tapping with a small wood block and a hammer, as shown in FIG. 10. Others may slip on easier. This is normal due to manufacturing differences of each LNB arm.



Fig. 11



Fig. 12

STEP 10 – Place the arm section with the Universal bracket in the vise and clamp in place as shown in FIG. 11. Using the holes in the top of the Universal LNB bracket as a guide, drill ONE 1/8" hole in the LNB arm as shown in Fig. 11.

Install and set ONE 1/8" pop rivet in the hole. Then check for straight alignment of the brackets and drill the SECOND 1/8" hole in the top of the LNB arm. Insert and set the second pop rivet. Fig. 12.

Turn the bracket around, drill the two remaining 1/8" holes and install the pop rivets.



Fig. 13



Fig. 14

STEP 11 – Clamp the original LNB arm bracket into the vise with the new Universal LNB bracket sticking out one side, bottom-side UP as shown in Fig. 13. Position the longer section of the LNB arm , bottom-side UP to the top of the Universal LNB bracket. Leave the thickness of the hacksaw blade at the joint of the two arm sections. See Fig. 13.

STEP 12 – Assure that all pieces are properly aligned and straight. Using the 1/4" pivot hole as a guide, drill a 1/4" hole in the LNB arm. DO NOT DRILL THE ADJUSTMENT HOLE AT THIS TIME. FIG.14.



Fig. 15



Fig. 16

STEP 13 – Turn the pieces around in the vise and using the 1/4" other pivot hole as a guide, drill a 1/4" hole in the LNB arm. FIG.15.

STEP 14 – Insert the 1/4-20 Hex Bolts into the two holes just drilled to insure they maintain position during the next operation. Fig. 16.



Fig. 17



Fig. 18

STEP 15 – Using the top of the slotted hole as a guide, drill a 1/4" hole in each side of the LNB arm. Fig. 17.

STEP 16 – Insert the eyebolt into the two holes, remove the C Clamp and turn the fixture over in the vise. Raise the arm to test for smooth operation. Fig. 18. Remove the long section of the LNB arm for the next operation.



Fig. 19

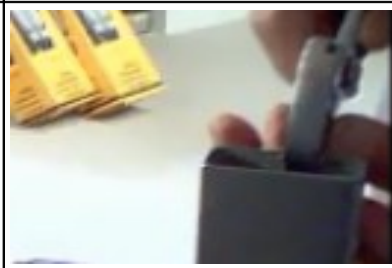


Fig. 20

STEP 17 – You will need to make a port for the cable(s) to exit the arm at the new cut joint. For a single cable 2 cuts 1/2" long with 1/2" space between will be enough. For additional cables, increase the space between. Hold the saw at an angle when cutting the 1/2" cuts so you don't cut the top side. Fig. 19. Use your pliers to bend this tab outward at a 45 degree angle. Fig. 20. Remove the arm from the vise, file any rough edges and paint it in preparation for final assembly.



Fig. 21



Fig. 22

STEP 18 – Insert the cable into the LNB arm. Fig. 21. Install the LNB arm into the Universal LNB bracket using the 1/4"20 Hex Bolt with one washer on the bolt near the head. Determine which side you would prefer to have the T knob on and insert the hex bolt into the pivot hole on THAT side of the bracket. The bolt should go OVER the cable that is inside the arm.

Install another washer and the Nylock nut. Tighten the nut enough so there is enough resistance when raising the arm that it won't drop on its own after the LNB head is added. The final tightness can be readjusted after final assembly. Fig. 22.

STEP 19 – Install the 1/4-20 Eye-bolt with one washer installed near the eye. Insert it into the adjustment hole that is opposite the side you want the T Knob on. The Eye-bolt should go OVER the cable that is inside the arm. Insure that the cable is aligned with the port slot that you cut in STEP 17. Install the final washer and T Knob.

Raise and lower the arm to test for smooth operation. Install modified arm onto dish and install LNB to arm. Depending on the size of the LNB, the LNB may touch the face of the dish when raised to the limit of the slot. If this is the case, lower the arm so the LNB is about 1" from the face of the dish and lock in place with the T Knob. You may need to make a final adjustment to the hex bolt tension at this time.

Installation is now complete.

