

Installation Instructions for Armrests with Openers: #5002, #5021, #5035, #5036, #5041, #5043

Hardware Pack:

2 - 10-24 x 1/2" Flat Head Cap Patch Screws
 2 - Door Openers
 2 - Square Steel Shafts
 7 - 1/4-20 Nutserts (one extra for practice)
 4 - 8 x 1" Wood Screws (only 2 for #5021 & #5041)
 2 - 8 x 3/4" Wood Screws (#5021 & #5041 only)
 2 - 1/4 - 20 x 3/8" Pan Head Screws (#5002 & 5035 only; mount pull to armrest)

4 - 1/4-20 x 1" Socket Head Cap Screws
 2 - 1/4-20 x 1 1/2" Set Screws
 2 - 10-24 x 3/16" Set Screws (#5002 only)
 1 - 1/4-20 Hex Nut (for nutsert tool)
 1 - 1/4" Flat Washer (for nutsert tool)
 2 - 10-24 x 1 1/4" Set Screws (#5021, #5036, #5041, & #5043 only)
 2 - 10-24 x 3/8" Pan Head Screws (#5021, #5036, #5041, & #5043 only for use w/ backplate)

Bellcrank Pack:

2 - Bellcranks
 4 - 1/4 - 20 x 3/8" Pan Head Screws
 2 - Stainless Steel Springs

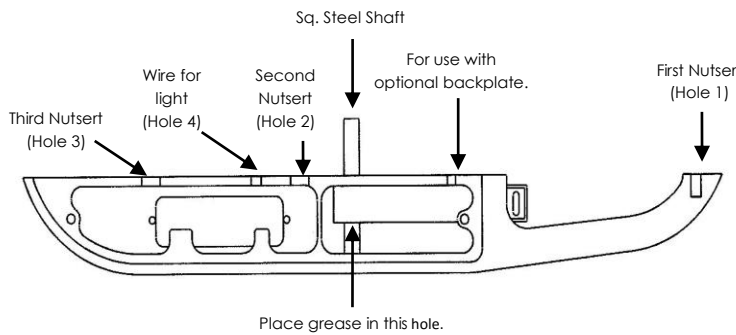
1 - Six-foot length cable
 6 - Tube Locks

This armrest is designed to attach to the metal inner door panel for strength. Nutserts are included for that purpose. Nutserts should be installed on a fairly flat surface of the door and should fit snugly into the drilled hole.

Installation: Please read and understand all instructions before drilling holes in your vehicle. Keep in mind these are generic installation instructions, as there many variations in the build of each vehicle.

STEP 1: Hold the armrest in the desired location on a fairly flat surface on the door panel, then mark and drill the placement of the first nutsert (**Hole 1**) using a 25/64 drill bit (see Figure A). It is important that this nutsert be installed before the others because it will be difficult to locate if the others have already been installed.

#5021, #5036, #5041 & #5043



#5002 & #5035

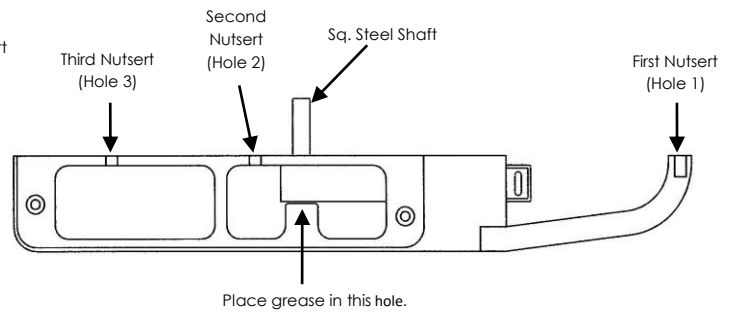


Figure A

STEP 2: Install the first nutsert then put in a 1/4 - 20 x 1 1/2" set screw.

STEP 3: Installing the door openers into the armrests: Place a small amount of grease into the shaft hole in the armrest. Hold door opener in place, insert steel shaft through hole in armrest and door opener. Line up the threaded hole with the hole in the door opener and secure tightly with the patch screw. NOTE: Use the door opener with the letter L on the left side of vehicle and use the door opener with the letter R on the right side of vehicle (#5021 & #5041 only).

STEP 4: Attach the spring to the bellcrank (see Figure B). Slide the bellcrank onto the square steel shaft on the armrest then slide **Hole 1** (see Figure A) over the protruding 1/4 x 1 1/2" set screw. Mark and drill two 5/16" holes for mounting the bellcrank. Halfway between these 2 holes you will need to use a 1 1/2" hole saw to make clearance for the bellcrank. Remove the bellcrank from the armrest and mount the bellcrank from inside the door with the hub facing the armrest (see Figure B). Install the 1/4 - 20 x 3/8" screws to attach bellcrank. Make sure the armrest is straight then mark and drill for the second nutsert (**Hole 2**), and third nutsert (**Hole 3**). Mark and drill **Hole 4** if you have an armrest with light (part #5021, #5036, #5041, #5043). The light wires run through this hole.

Figure B (Bellcrank)

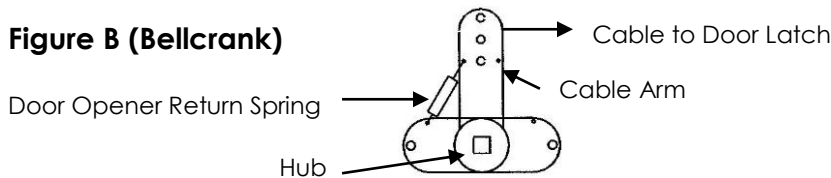
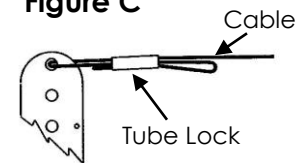


Figure C



Note: If possible have the armrest in place when you attach the rod, bar or cable. For suicide doors the bellcrank cable arm needs to point downward.

STEP 5: If you have a vehicle that already has a rod or bar you want to use attach it now and skip **Step 6**.

STEP 6 - Attaching the Cable: Thread one end of the cable through the tube lock, then through the hole in the door latch (bear jaw). Bring the end of the cable back through the tube lock and then back again (see Figure C). Crimp the tube lock to hold the cable in place. Repeat this threading process on the bellcrank cable arm (see Figure B). There should be minimal slack in the cable for proper operation.

STEP 7: Slide the armrest in place with the square steel shaft going through the bellcrank and slide **Hole 1** over the 1/4 x 1 1/2" set screw. You should be able to open the door at this point to test operation.

STEP 8: Check the length of the square steel shaft to ensure that the window moves up and down without interference. If the square steel shaft hits the window, be cautious in shortening it (not to remove too much) and be sure to allow for the thickness of the door panel and upholstery.

STEP 9: Install the second and third nutserts. Put 1/4 - 20 x 1" Socket Head Cap Screws in **Hole 2** and **Hole 3**. Tighten the 10 - 24 set screw on the underside of the door pull. Attach your upholstered wooden pads using the included wood screws. The two shorter wood screws for part #5021 & #5041 are to be used for the holes closest to the door pull. This completes the armrest installation.

MAKING A NUTSERT TOOL:

Body shops and upholstery shops usually have an installation tool.

HARDWARE (Included in the arm rest pack.):

- 1 - 1/4 - 20 x 1" Socket Head Cap Screw
- 1 - 1/4 - 20 Hex Nut
- 1 - 1/4 Flat Washer
- Nutserts - (qty depends on type of armrest)

TOOLS NEEDED: 3/16" Allen wrench
7/16" Wrench

There is an extra nutsert included so you can practice on a piece of scrap metal before attaching one to your vehicle. The nutserts should fit snugly into the drilled hole.

STEP 1: Put some lubrication on the 1/4 - 20 x 1" Socket Head Cap Screw threads to make installation easier. Put the washer, nut and 1/4 - 20 x 1" socket head cap screw through the end of the nutsert that has a flange. Screw down until the screw head bottoms against the nut.

STEP 2: Push the nutsert assembly through the installation hole until it bottoms on the flange. Use the 3/16" allen wrench to stop the assembly from turning as well as hold it straight while you tighten the nut to expand the nutsert. Stop tightening once the locking flange has been established (see picture). Remove the nut, washer, and screw. This completes the nutsert installation.

