GM 6 Cylinder Engine Dolly

by Deve (www.speedprint.com/Deves50)

This dolly works on 216/235/261 Chevy engines for sure, however, they should work on any GM 6 from the 1930's through 1950's. We found ourselves with 6 of these engines but no way to move them around, so this was our solution. There is a great wooden solution on stovebolt.com, but we wanted to do one out of metal. We chose 1 inch square tubing with a few 3 inch wide metal straps for additional support. The straps are important because if you have a bellhousing or transmission behind the engine, this cart works great anyway because the strap fits smoothly in between the engine and bell housing.

Parts List

1 pc. 1 x 1x 9.5 inch Square tubing

8 pcs. 1 x 1x 6.5 inch Square tubing

4 pcs. 1 x 1 x 26.75 inch Square tubing

4 pcs. 1 x 1 x 17.5 inch Square tubing

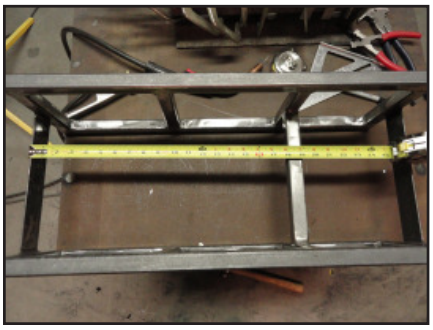
2 pcs. 1/4 x 3 x 11.5 inch metal strap

4 - 300 pound capacity swivel casters

16 - 5/16 x 1-1/2 bolts, nuts and locks

We cut our tubing with a 10 inch metal cutting disk in our chop saw so there was a bit of wire wheel deburring to do, as well as cleaning the metal with solvent before welding. These steps were necessary to make handling easier. We used a grinding wheel in our 4 inch Makita grinder as needed to make the welds look presentable.

To begin, weld a frame consisting of two of the 26-3/4 pcs separated by 4 of the 6-1/2 inch pcs. together as shown. Weld the two center pillars at 9/10 inches and 18/19 inches. There is a reason for the 18-19 inch one. The oil pan narrows and allows for a support



in that area. Make two of these frames as shown.

Once you have two identical frames, you need exactly 9-1/2 inches between the frames for the engine to sit properly. Weld the 11-1/2 inch straps on each end of the frame exactly 4 inches from the top as shown. Next, weld the 9-1/2 inch tubing 4 inches down from the top on the 18/19 inch frame post as shown. Make sure the frames sit exactly 9-1/2 inches apart front to back.

To support the 3 inch casters, weld the 17-1/2 inch pcs to the bottom of the frames as shown. Drill 5/16 inch holes to accomodate the caster plates. Since caster plates can be different by manufacturer, spread the two 17-1/2 inch tubes to accomodate your chosen casters.

We are very particular about the looks of our tools so we used a 120 grit sanding disk on our 4 inch Makita grinder to clean off the welding slag then cleaned the metal with metal prep cleaner and used etching primer and gloss black paint to finish the job.