

4 Wheel Steer Conversion

By Chuck Watford

PART TWO



Once the new covers are installed, follow the tutorial on dust boot replacement to finish installing the knuckles, hubs and axles.



We used the bellcrank to establish the correct location and then used a transfer punch to locate the bottom left hole location.



We used a long 5/16" drill bit to drill the hole. Note the stop collar on the bitt to limit the depth of the hole, and the level to keep the bitt strait. Also note the anxious expression on the owner's face as we drill holes in his transmission case!



First hole complete.



Here, Bobby, Rod's dad, is using a 3/8"-16 tap to thread the holes. He used a starter tap first, and then came back with a bottom tap to finish the hole



The bell crank was installed with the first bolt and then the remaining 3 holes were drilled, again using the stop collar to control the depth of the hole. The top two holes must be drilled at a slight angle, or else the frame tube must be removed. Once all the holes were drilled, the bell crank was removed and all holes were taped.



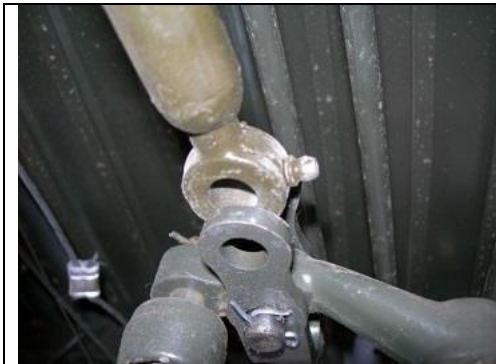
A crow's foot wrench is great for getting these bolts tight. Notice, too, that we used thread lock compound on all the bolt threads.



Next, we installed the rear tie rods. Prior to this, we had taken the tie rod ends out of the rods and cleaned and anti-seized the threads so that the wheel adjustment would be easier.



The tube and clevis assembly that goes from the front axle bell crank to the tow bar bracket must be changed. This is where the steering control rod will connect.



The front end of the steering control rod is installed. The pin used here should be a ball lock pin so it can be removed easily to shift back to 2-wheel steer.



The rear of the steering control rod is attached to the rear bell crank with a pin and cotter pin.



We used a string around all four wheels to measure the wheel and steering alignment.



Here Rod uses a pipe wrench to adjust the tie rods, and the critical eye of the owner makes sure all 4 wheels are in proper alignment.



One happy camper!