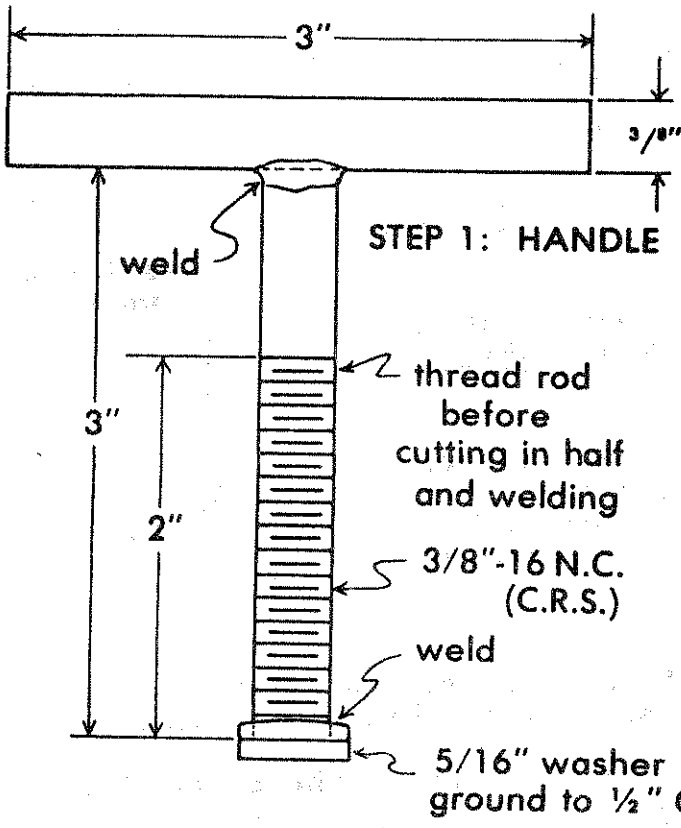
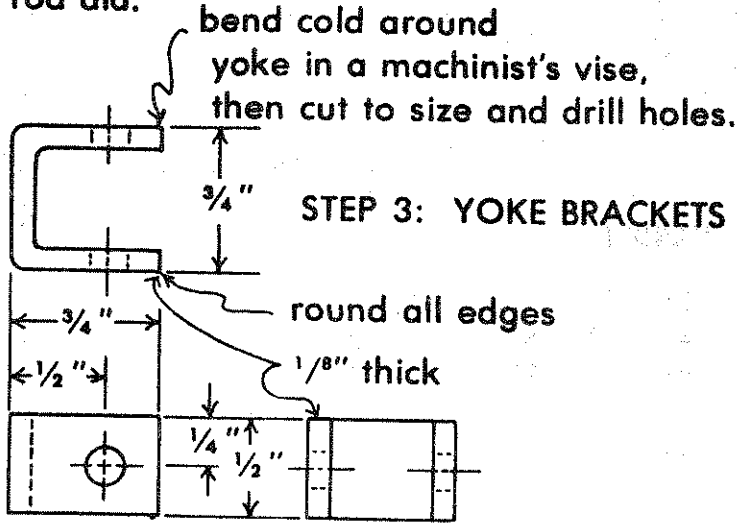
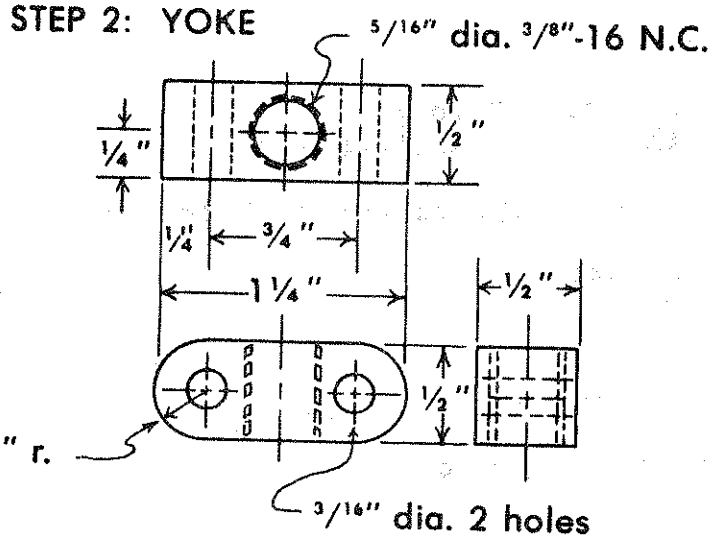
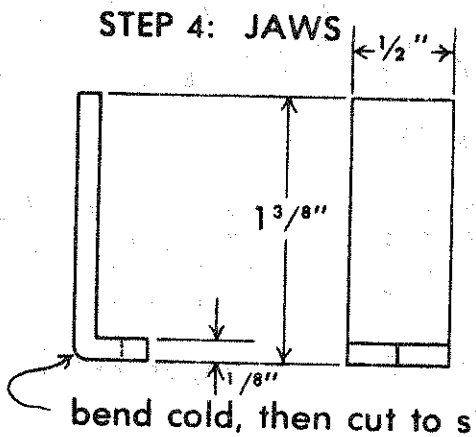
Battery Terminal Puller





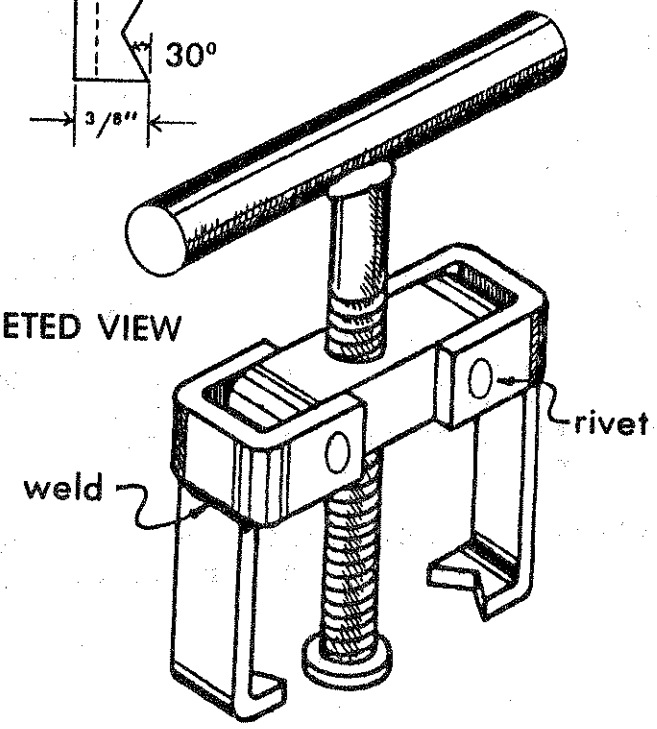




AG-704-P

BATTERY TERMINAL PULLER
DRAWN FULL SCALE
DRAWN BY: DSS
COURTESY- UMC Ag.Engineering Dept.

COMPLETED VIEW



BILL OF MATERIAL

No. of Pieces	Material	Dimensions	Part Name
1	Cold-rolled steel rod	3/8" x 6"	Handle
1	Cold-rolled steel rod	1/2" x 1/2" x 1 1/4"	Yoke
2	Flat iron	1/8" x 1/2" x 2"	Yoke bracket
2	Flat iron	1/8" x 1/2" x 1 3/4"	Jaw
2	Soft iron	3/16" x 1"	Rivets (round head)
1	Flat washer	5/16"	Flat washer

CONSTRUCTION PROCEDURE

HANDLE:

1. Cut a 6" piece of 3/8" cold-rolled steel rod.
2. Thread the first 2" on one end with a 3/8" - 16 N.C. die.
3. Cut this piece evenly in half and form a T by welding the non-threaded piece to the non-threaded end of the other piece.

YOKE:

4. Cut a 1 1/4" piece of 1/2" x 1/2" cold-rolled flat iron.
5. Drill a 5/16" hole in the center and thread this hole with a 3/8" - 16 N.C. tap.
6. Drill two holes 3/16" diameter, perpendicular to the 5/16" hole, 1/4" from each end and centered.
7. Grind the ends to a 1/4" radius.

YOKE BRACKETS:

8. Cut two pieces of 1/8" x 1/2" flat iron 2" long.
9. Place the yoke in the center of this piece and bend cold around the yoke to make a 90° bend on each side.
10. Drill a 3/16" hole on each end of these two pieces 1/2" from the outside edge.
11. Round all front edges on these brackets.

JAWS:

12. Cut two pieces of 1/8" x 1/2" flat iron 1 3/4" long.
13. Make a 90° bend 3/8" from one end of each piece.
14. File a 30° notch in the end closest to the bend.

ASSEMBLING THE PARTS:

15. Weld the jaws to the yoke brackets.
16. Attach the jaw and bracket pieces to yoke with two 3/16" x 1" rivets.
17. Screw the T-handle into the yoke.
18. Grind a 5/16" washer down to a 1/2" outside diameter and weld on the end of the threaded part of the handle.
19. Remove all slag and clean properly with a grease and oil remover if needed. Prime with a rust-inhibiting paint.
20. After primer coat of paint has dried, paint with a suitable metal enamel paint.

AVAILABLE FROM: Instructional Materials Laboratory, 10 Ind. Ed. Bldg., University of Missouri, Columbia, Missouri 65201.