

OPERATOR'S MANUAL

Brillion

CHISEL PLOW

Mounted Models: CPP-7-2 Thru CPP-16-2
CPP-7-3 Thru CPP-16-3
CPPQ-7-2 Thru CPPQ-16-2
CPPH-7-2 Thru CPPH-16-2
CPPH-7-3 Thru CPPH-16-3
CPPHQ-7-2 Thru CPPHQ-16-2

BRILLION IRON WORKS, INC.

Brillion, Wisconsin, U. S. A.

SETTING UP AND OPERATING INSTRUCTIONS

FOR BRILLION CHISEL PLOWS

Your Brillion Chisel Plow is built with the best materials and workmanship available. It has been designed to give years of trouble-free operation, and proper care and operation will insure the service and long life built into it.

Study this manual carefully before attempting to assemble or operate the machine.

LOCATION REFERENCE

"Right" and "Left", "Front" and "Rear" refer to operators "Right" and "Left", "Front" and "Rear" when he faces in the same direction as the machine will travel.

<u>Model Number</u>	<u>Number of Shanks</u>	<u>Operating Width</u>	<u>3 Point Lift</u>
CPP-7-2 & CPPH-7-2	7	7'	Category II
CPP-9-2 & CPPH-9-2	9	9'	
CPP-10-2 & CPPH-10-2	10	10'	
CPP-11-2 & CPPH-11-2	11	11'	
CPP-12-2 & CPPH-12-2	12	12'	
CPP-13-2 & CPPH-13-2	13	13'	
CPP-14-2 & CPPH-14-2	14	14'	
CPP-16-2 & CPPH-16-2	16	16'	Category III & Category III Quick Coupler
CPP-7-3 & CPPH-7-3	7	7'	
CPP-9-3 & CPPH-9-3	9	9'	
CPP-10-3 & CPPH-10-3	10	10'	
CPP-11-3 & CPPH-11-3	11	11'	
CPP-12-3 & CPPH-12-3	12	12'	
CPP-13-3 & CPPH-13-3	13	13'	
CPP-14-3 & CPPH-14-3	14	14'	Category II Quick Coupler
CPP-16-3 & CPPH-16-3	16	16'	
CPPQ-7-2 & CPPHQ-7-2	7	7'	
CPPQ-9-2 & CPPHQ-9-2	9	9'	
CPPQ-10-2 & CPPHQ-10-2	10	10'	
CPPQ-11-2 & CPPHQ-11-2	11	11'	
CPPQ-12-2 & CPPHQ-12-2	12	12'	
CPPQ-13-2 & CPPHQ-13-2	13	13'	Category II Quick Coupler
CPPQ-14-2 & CPPHQ-14-2	14	14'	
CPPQ-16-2 & CPPHQ-16-2	16	16'	

GENERAL INFORMATION

- Shanks (CPP Models) - - - - - 1" x 2" x 26" Clearance
- (CPPH Models) - - - - - 1-1/4" x 2" x 32" Clearance
- Shank Spacing - - - - - One Foot
- Working Depth - - - - - 0 to 12"
- Gage Wheel Rims - - - - - 15" - 5 Bolt

SETTING UP INSTRUCTIONS

Your Brillion Chisel Plow is shipped to you in separate assemblies. Before assembling the unit, separate the various bundles and open the box assembly, taking care not to lose any of the parts or hardware. Use nuts and lockwashers for all bolts and capscrews. (See page 2 of repair parts catalog for relative location of parts.)

ASSEMBLY OF MAIN FRAME

Assemble the 6D-526 or the 6D-934 pick-up bracket to the main frame using the 5/8 x 5" long bolts, nuts, and lockwashers provided. Do not draw bolts up tight at this time. Next, assemble the L.H. brace assembly and R.H. brace assembly to the pick-up bracket and the pads on the rear frame tube. The 1" x 6" long bolt fastens both braces to the middle set of holes in the 6D-526 pick-up bracket and to the top-rear set on the 6D-934 pick-up bracket. Use the 3/4 x 2-1/2" long bolts to attach the other ends of the braces to the frame. Now, all the bolts can be drawn up tight.

Next, block up the frame or mount it to 3 point lift on tractor for the assembly of gage wheels and shanks. See figure 1 which shows how gage wheels are assembled to frame, if your unit is so equipped.

The rigid mounted shanks are shipped assembled to the shank clamps. To mount these on the chisel plow, remove the 3/4" bolt and nut from the front of the assembly. Slide the assembly onto the tooth bar and replace the bolt and nut.

The spring cushion clamp and the shank are not shipped assembled. To mount these, first remove the springs and the upper capscrews from the clamp assembly. Mount the remainder of the assembly on the chisel plow replacing the upper capscrews.

The heads of the lower bolts must be to the rear of the clamp as when shipped because of space limitation. Next, mount the shank using hardware in the clamp assembly and remount the springs.

Torque the 5/8" nuts to 110 ft.-lbs., and on the rigid shank clamp, torque the 3/4" nut to 200 ft.-lbs.

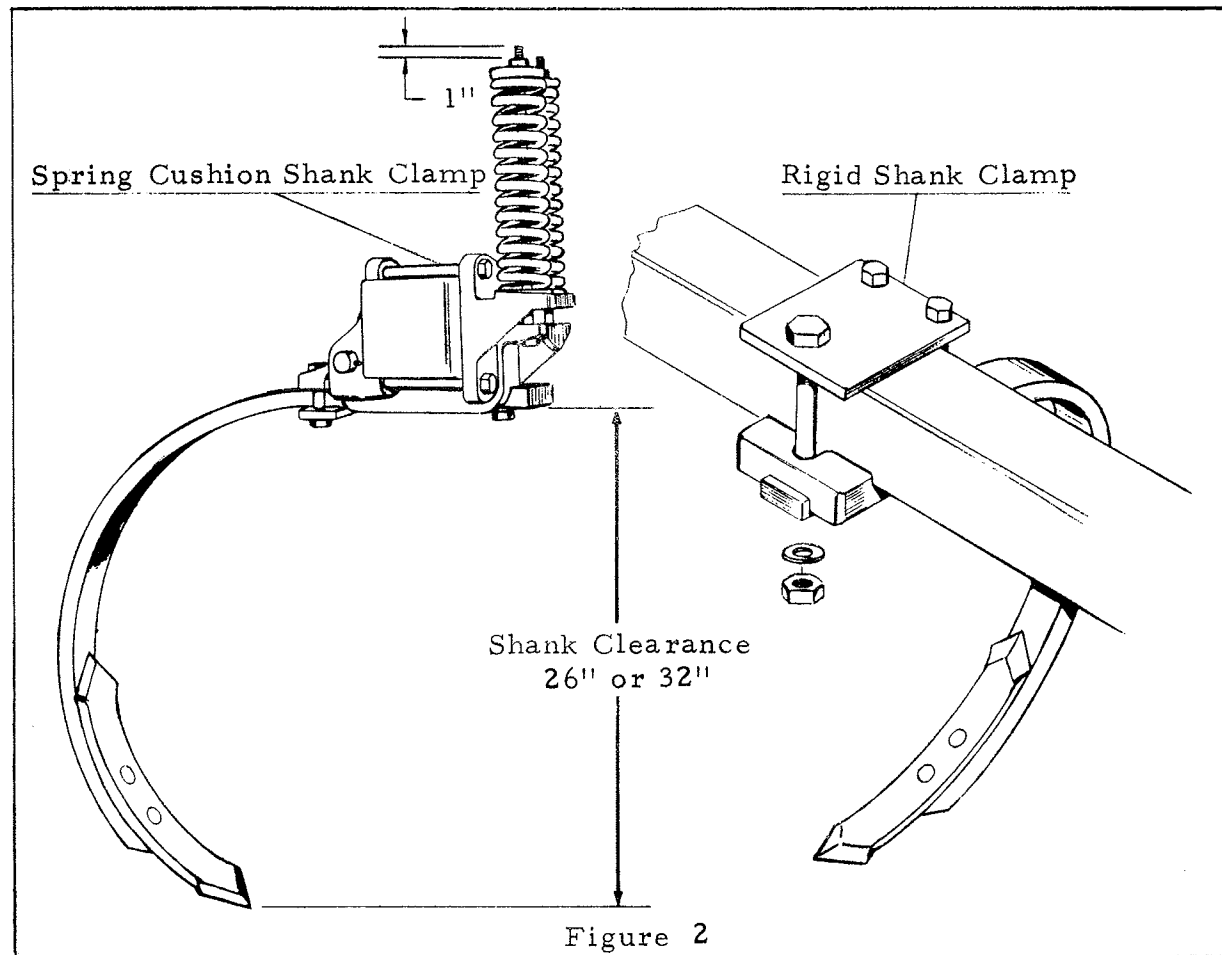
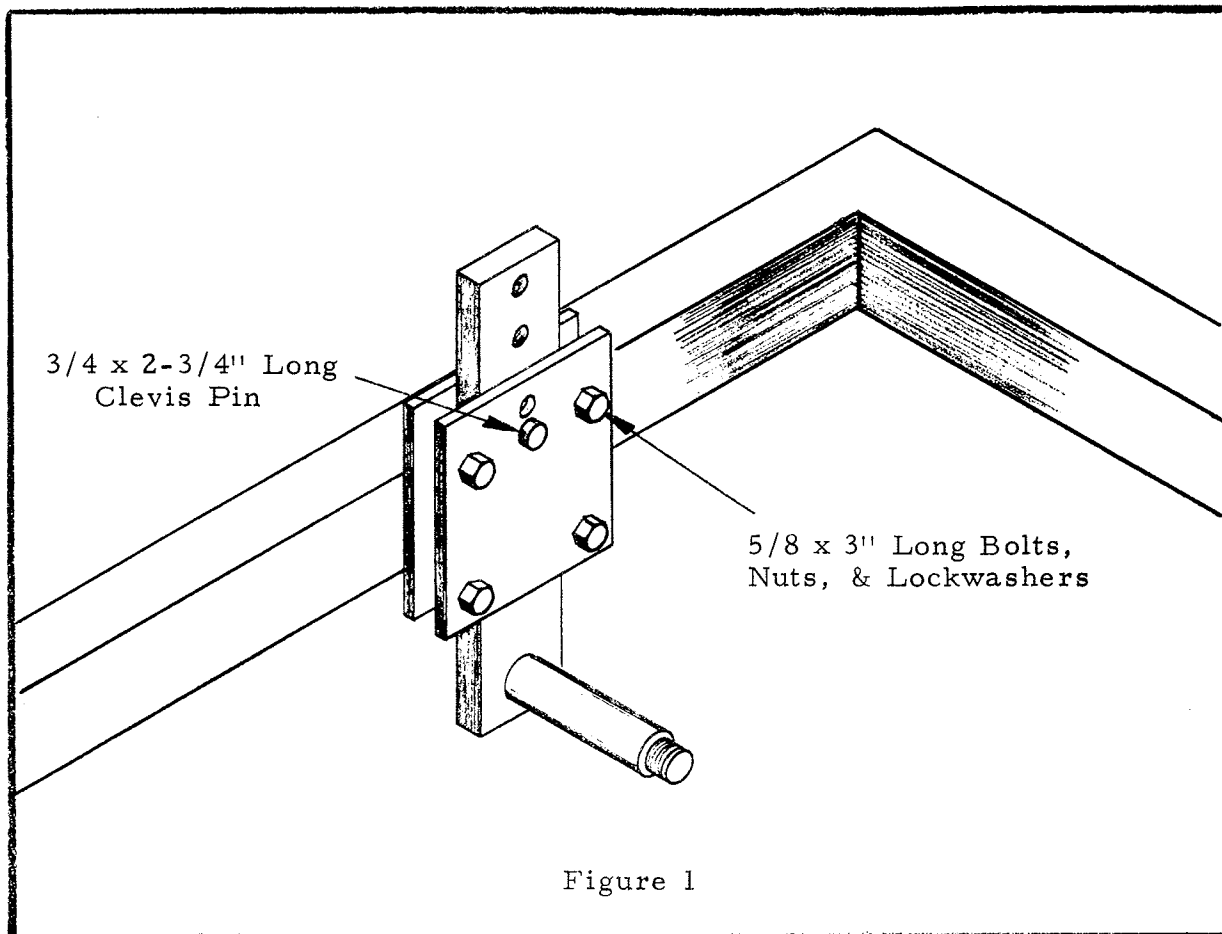
See figure 2 and figure 3 for assembly and location of shanks.

For field operation, the spring bolts should be tightened so that one inch of thread is exposed as shown in figure 2. For chisel plowing tougher ground you may want to clamp the spring tighter, but when this is done, the shank and tooth will not pass over as great an obstruction.

ASSEMBLY OF 9', 11', 13', 12', 14' AND 16' CHISEL PLOWS

The first step in assembling these machines is to first assemble the basic 7' machine for the 9', 11', and 13' units or the basic 10' machine for the 12', 14', and 16' units. Then add on the extensions as described in the following paragraphs.

In figure 3 the dashed portion represents the 2' extension and the dotted portion represents the additional section added to extend 3 feet.



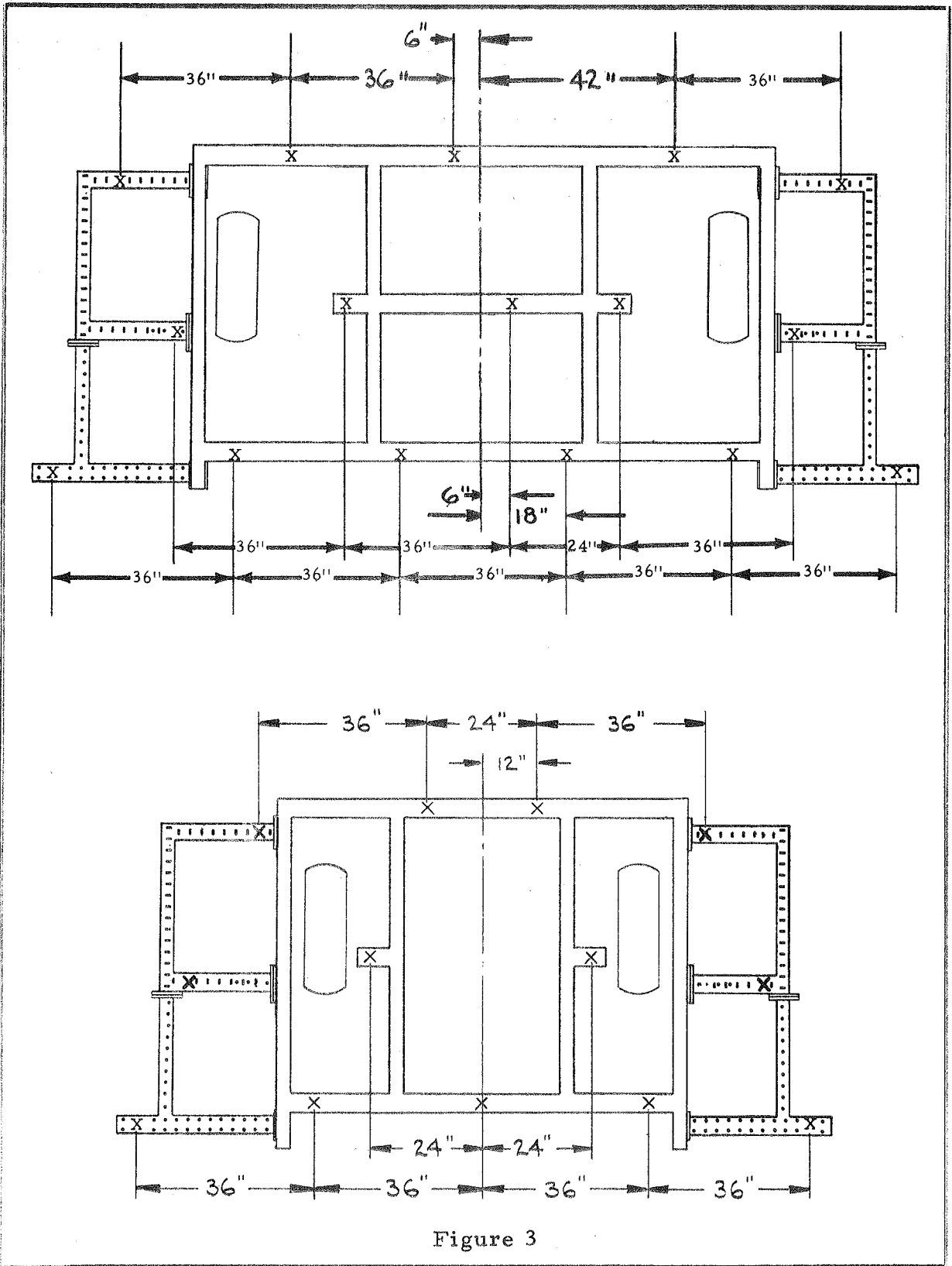
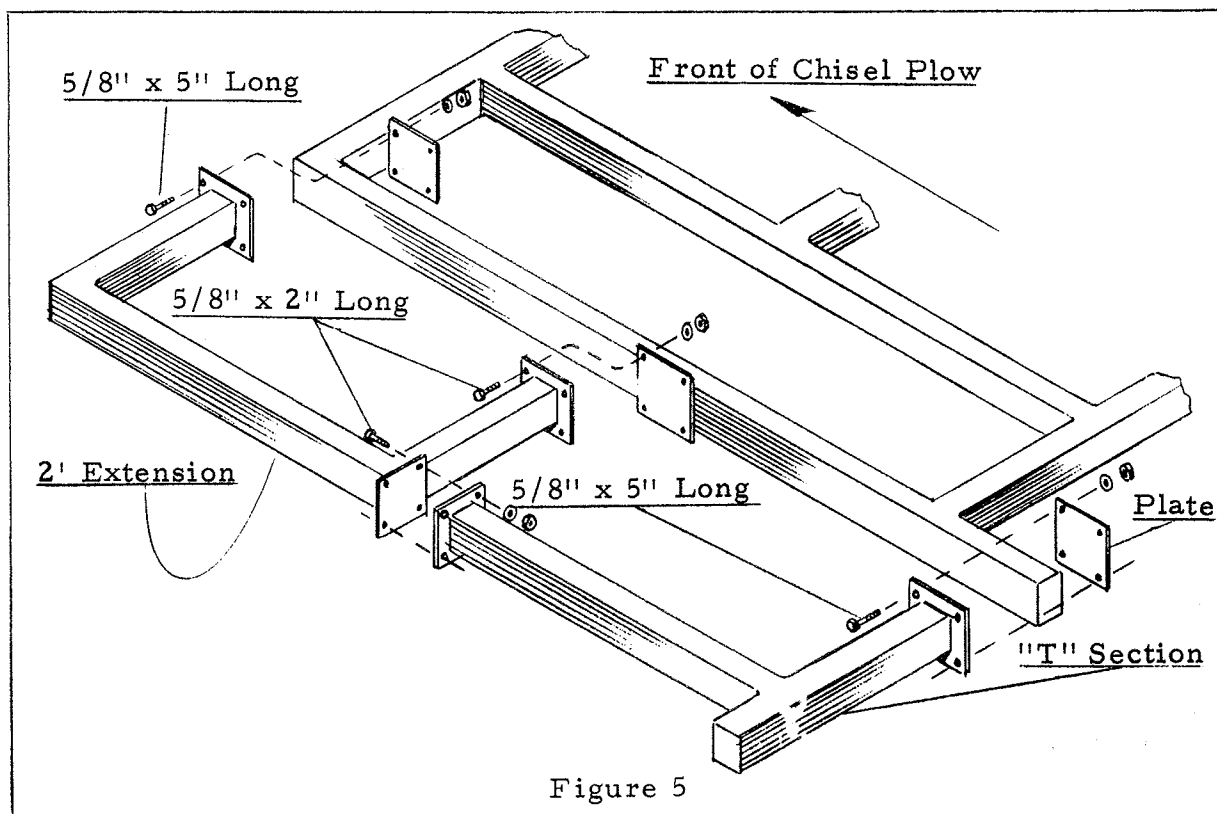
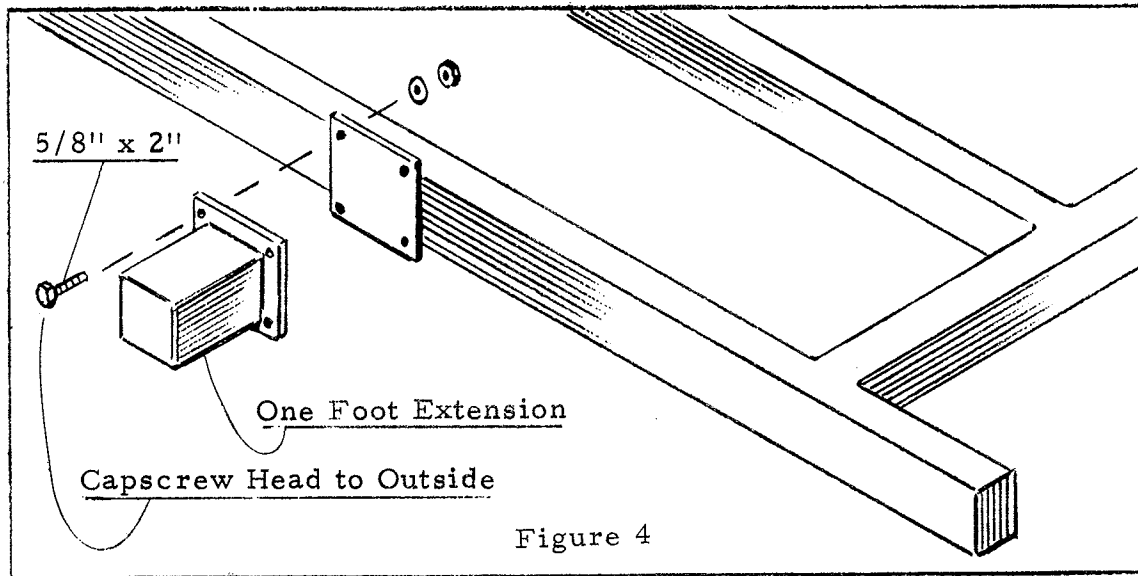


Figure 3

To make 9' and 12' machines the one foot extension is assembled to the basic 7' or 10' machine. See figure 4 for details.

To assemble an 11' or 14' chisel plow, bolt a two foot extension to each side of the main frame as shown in figure 5, using the 5/8" x 2" long capscrews in the plate at the middle and 5/8" x 5" long capscrews on the front. The front part of the extension and the plate attached to it are used to clamp onto the front-to-rear tubing. Make sure the bolt heads are to the outside of the main frame.

To assemble a 13' or 16' chisel plow, follow the procedure for assembling the 11' and 14' machines as listed above. Then add the two "T" sections as shown in figure 5. Use the 5/8" x 5" long capscrews to clamp the "T" section to the rear of the main frame and 5/8" x 2" long capscrews to attach the front part of the "T" section to the two foot extension.

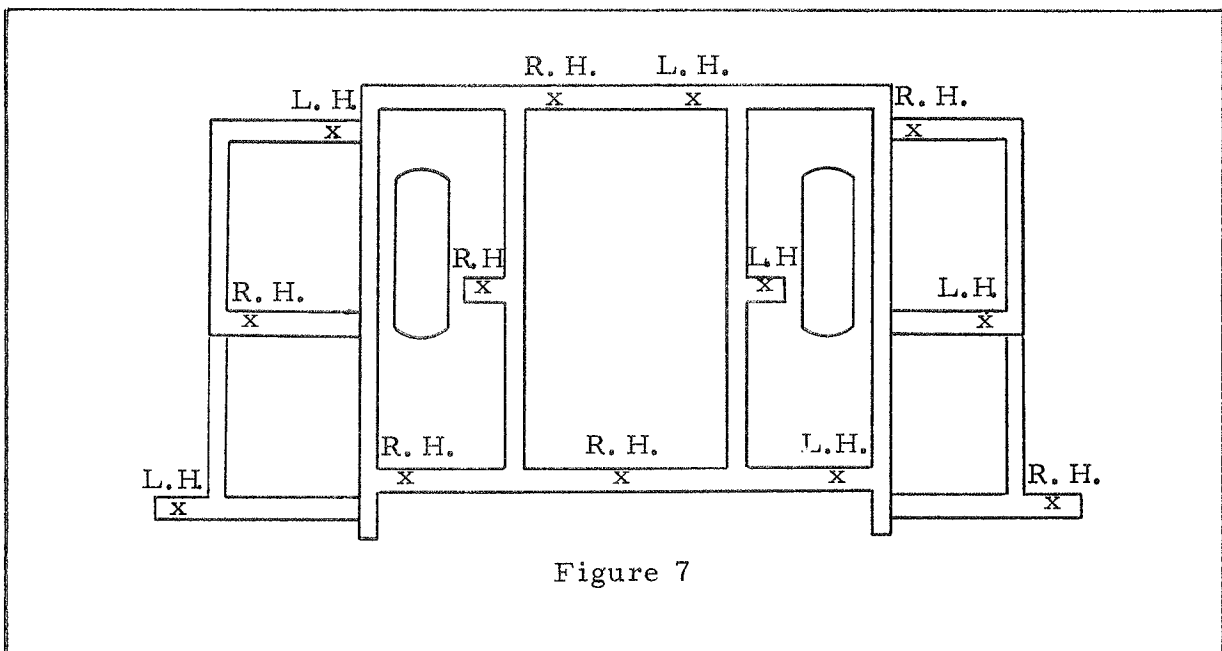
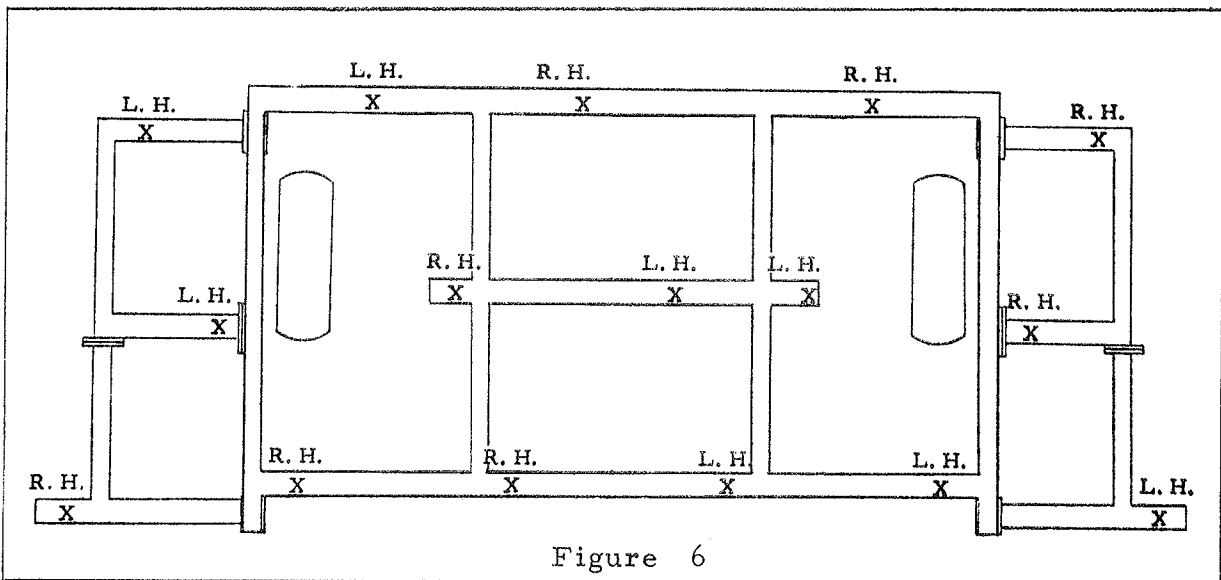


TWISTED SHOVELS

If twisted shovels are to be used, it is suggested that they be arranged on the shanks as shown in Figure 6. The arrangement shown is for a 16' chisel plow, which has a 10' main frame. For a 14' chisel plow, leave off the outside shovel on each end of the machine shown in the illustration; for a 12' chisel plow, leave off two shovels from each end; for a 10' chisel plow leave off three shovels from each end. (L. H. means that the soil is thrown left and R. H. means that the soil is thrown to the right.)

If another arrangement is desired, be certain that the shovels have balanced positions from right side to left side, i. e., a L. H. shovel is the same distance from the center of the machine as a R. H. shovel is on the opposite side.

See figure 7 for the arrangement of shovels on machines with 7' main frames.



The shank clearance, 26", refers to the distance from the bottom of the straight portion of the shank to the bottom point on a regular reversible chisel point which is new. See Figure 2.

When replacing or reversing points, change all points at the same time so that they will have the same operating depth. If some shanks have worn points and some have new points, or points of a different design, the chisel plow will not operate efficiently.

MAINTENANCE

After the first five or six hours of operation, go over the machine and tighten all nuts which might be loose. Normal periodic checks should be made thereafter.

Grease the transport axle bearing each 50 hours under normal operating conditions. For the shanks with a spring cushion clamp, grease the pivot pin every 10 hours under normal operating conditions.

Gage wheel bearings should be packed once a season.

SAFETY

A chisel plow is a fairly simple machine, but it must be operated in a prudent manner.

1. Never turn corners at a high rate of speed.
2. Never work under the chisel plow unless it is securely blocked up and cannot be knocked off the blocks.
3. Always take care in raising and lowering the chisel plow, and be certain no one is in the way.
4. Never allow passengers to ride on the chisel plow.
5. Display the Slow Moving Vehicle emblem when traveling on roads.
6. When traveling on the road at night, accessory warning lights should be mounted on the implement. Local regulations should be checked first, and if there are none, the chisel plow owner should take the initiative to make his machine noticeable at night.