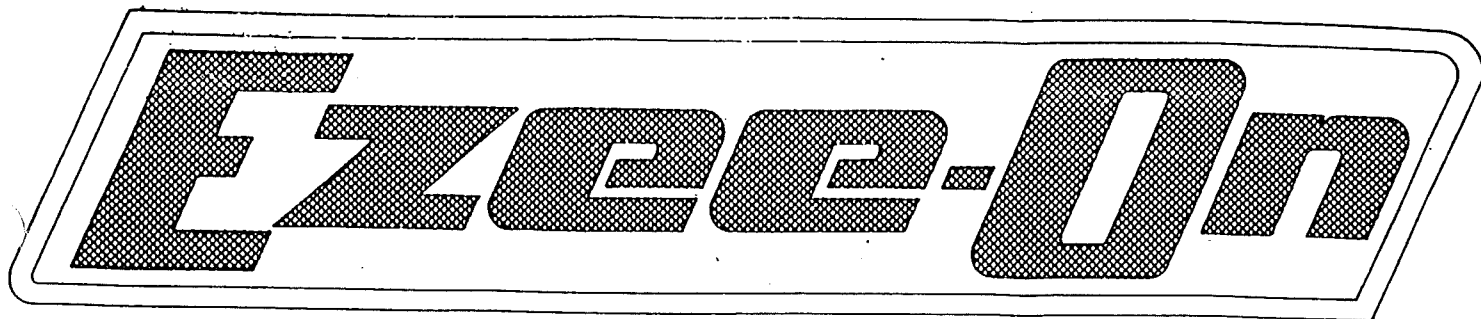




MODEL 7400-7450
FREE-FLOATING HITCH
CHISEL PLOW

OWNER MANUAL
AND
PARTS LIST

1-7-92-444

Manufactured
by

EZEE-ON MFG. LTD.

Vegreville, Alberta
Canada

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Introduction

This manual is made available for you as a handy reference and contains instructions for setting up and operating.

Read this book carefully to insure that your new chisel plow is assembled and adjusted correctly.

Right and left is determined by standing behind the machine and facing forward, in the direction of travel.



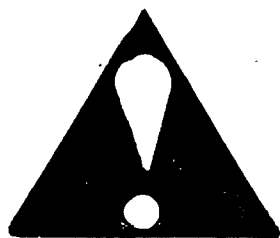
This symbol is used to identify safety messages. When you see this symbol, read the safety message carefully.

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YOUR SAFETY

IS IN YOUR HANDS



BE ALERT.....



Summary of Safety Recommendations

GENERAL SAFETY

1. Never allow anyone to ride on the tractor drawbar, or on the chisel plow
2. Machinery should be operated ONLY by person(s) responsible and qualified to do so.
3. Never allow anyone to climb or play on the tractor or chisel plow
4. Follow all Safety Precautions in your tractor manual.
5. Keep a First Aid Kit in the tractor at all times.

ASSEMBLY SAFETY

1. Use an aligning punch to line up holes. Keep your fingers out of these holes.
2. Use a hoist or adequate manpower to lift the heavy components into place. Use adequate jacks or support materials.
3. Be sure all bolts and hydraulic fittings are tight, and all cotter pins are installed in the slotted nuts and pins.
4. Support the main and wing frames securely before assembling the components.
5. Be sure all wheel bolts are checked for tightness during initial transport or when first cultivating.
6. To fill the wing lift cylinders with hydraulic fluid, remove the pin from the shaft end of each wing lift cylinder and pump fluid into the cylinders. Extend and contract the cylinders until they are completely filled with hydraulic fluid.
7. Do not raise or lower the main or wing frames until all components are securely tightened.
8. Be sure all connections are tight and the components are not damaged before applying pressure to the hydraulic system.

MAINTENANCE SAFETY

1. Do not loosen or disassemble hydraulic components when there is pressure within those components.
2. Check all hydraulic hoses periodically for signs of ruptures and leaks. Always use wood or cardboard as a backstop, and wear gloves and eye protection when searching the hydraulic system for leaks.
3. Always relieve the pressure in the hydraulic system when the chisel plow is not being operated
4. Always permit parts which contain hot fluid to cool to a safe temperature before handling or disconnecting these parts.
5. Always wear safety glasses or goggles and gloves when working on the hydraulic system.
6. Be sure all hydraulic cylinders are completely filled with hydraulic fluid to avoid wing free-fall or sudden movement.
7. Lower the chisel plow to ground when servicing.
8. Do not lubricate the chisel plow when it is in motion
9. Always put all tractor controls in neutral, set the park brake and shut the engine off before servicing the chisel plow

TRANSPORT SAFETY

1. Use the "SMV" emblem and warning lights for the protection of the tractor and other motor vehicle operators. Check local laws regarding transport regulations.
2. When transporting the chisel plow, always lock the rockshaft by engaging the lock-up bracket.
3. Do not exceed 10 mph (16 km/h) when transporting the chisel plow on smooth surfaces. Reduce your speed on rough surfaces. Do not transport the chisel plow with any other vehicle except a tractor
4. When transporting the chisel plow with the wings folded, be sure there is sufficient clearance under all power lines and other overhead obstructions.
5. Always attach a safety chain to the tractor drawbar and chisel plow hitch before transporting the chisel plow
6. Always lock the wings in the folded position with the transport locks before transporting the chisel plow
7. Check all reflectors for visibility and cleanliness before transporting the chisel plow
8. Regulate your speed on hillsides and curves to reduce the danger of tipping over.

OPERATION SAFETY

1. Be sure person(s) are standing clear before starting or moving the tractor and chisel plow
2. Only one (1) person (the operator) should be permitted on the tractor when the chisel plow is in operation
3. Never stand between the tractor and chisel plow when hitching the chisel plow to the tractor, UNLESS all tractor controls are in neutral and the park brake is set.
4. Use extra care when operating chisel plow on hillsides. The tractor may tip over if it strikes a hole, ditch or other irregularity.
5. To avoid personal injury or death, always stay clear of the folding wings when they are being raised, lowered or in the folded position.

SAFETY DECALS

1. Keep all decals clean and in good condition to provide you with a constant reminder of safe operating procedures.
2. Replace any destroyed, missing or illegible decals and reflectors.

1. Safety



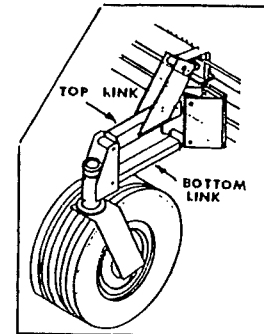
WATCH FOR THIS SYMBOL. IT IDENTIFIES IMPORTANT SAFETY MESSAGES. WHEN YOU SEE THIS SYMBOL, READ THE SAFETY MESSAGE CAREFULLY.

GENERAL SAFETY

1. Never allow anyone to ride on the tractor drawbar, or on the chisel plow. The person(s) riding may fall and be seriously or fatally injured.
2. Machinery should be operated **ONLY** by persons responsible and qualified to do so.
3. Never allow anyone to climb or play on the tractor or chisel plow. They may fall and be seriously injured.
4. Follow all safety precautions in your tractor manual.
5. Keep a First Aid Kit in the tractor at all times.

ASSEMBLY SAFETY

1. Use an aligning punch to line up holes. Keep your fingers out of these holes. Any sudden movement of heavy components will severely injure or sever fingers.
2. Use a hoist or adequate manpower to lift the heavy components into place. Use adequate jacks or support materials. Attempting to lift heavy components by yourself could cause serious injury.
3. Be sure all bolts and hydraulic fittings are tight, and all cotter pins are installed in the slotted nuts and pins.
4. Support the main and wing frames securely before assembling the components. Inadequate support may result in the heavy components falling and causing serious injury to you and person(s) nearby.
5. Be sure all wheel bolts are checked for tightness during initial transport or when first cultivating. Loose wheel bolts may result in the wheel falling off causing serious damage to the chisel plow and may cause serious injury to the operator or person(s) nearby.
6. When moving, positioning or attaching the castor wheel assemblies, use extreme care not to place any portion of your body (such as your hands, arms or legs) between the top and bottom links. These links could collapse, causing serious injury.
7. To fill the wing lift cylinders with hydraulic fluid, remove the pin from the shaft end of each wing lift cylinder and pump fluid into the cylinders. Extend and contract the cylinders until they are completely filled with hydraulic fluid. The wings will free-fall if the cylinders are not completely filled with fluid, resulting in serious damage.

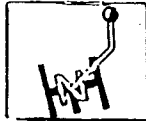


8. Do not raise or lower the main or wing frames until all components are securely tightened. Loose components will cause serious damage to the chisel plow and serious injury or death to you and person(s) nearby if the main or wing frames fell.
9. Before applying pressure to the hydraulic system, be sure all connections are tight and the components are not damaged.
10. Always wear gloves and eye protection when searching for leaks in the hydraulic system. Use a piece of wood or cardboard as a backstop against spurting fluid. See a physician immediately if you are injured by hydraulic fluid under pressure.
11. Insure the cylinders are completely filled with oil before connecting the rod ends. If the wing cylinders are not completely filled with hydraulic oil, the wings may free-fall, causing serious injury to personnel and damage to the chisel plow.
12. All ball joints (which fasten the linkage to the rockshafts) must be kept very tight. The linkage straps are to be drawn up tight against the ball joints. The ball joint must be free to pivot in the socket. Lubricate the ball joints with oil before installing the linkage. If the bolts are loose, the linkage, ball joints and bolts will wear, causing excessive slack between the rockshaft making even depth control difficult.

MAINTENANCE SAFETY

1. Do not disassemble or loosen hydraulic components when there is pressure within those components. Hydraulic components under pressure may cause parts and hydraulic fluid to fly out at a high velocity, which could cause serious injury. Always relieve the pressure in the hydraulic system before servicing the hydraulic system.
2. Check all hydraulic hoses periodically for signs of rupture and leaks. Always use wood or cardboard as a backstop, and wear gloves and eye protection when searching the hydraulic system for leaks. Spurting hydraulic fluid can cause injury if it penetrates the skin or the eyes. If injured by escaping hydraulic fluid, see a medical doctor immediately.
3. Always relieve the pressure in the hydraulic system when the chisel plow is not being operated.
4. Always permit parts which contain hot fluid to cool to a safe temperature before handling or disconnecting these parts.
5. Always wear safety glasses or goggles and gloves when working on the hydraulic system.
6. Be sure all hydraulic cylinders are completely filled with hydraulic fluid to avoid wing free-fall or sudden movement. If the hydraulic cylinders are not completely filled, the wings will free-fall, resulting in serious damage to the chisel plow and serious injury or death to you or those nearby.

7. Lower the chisel plow to the ground when servicing. If the chisel plow must be serviced in the raised position, engage the rockshaft lock-up bracket. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the chisel plow could drop.
8. Do not service or adjust the chisel plow when it is in motion. You may fall and be seriously or fatally injured.
9. Always put all tractor controls in neutral, set the park brake and shut the engine off before servicing or adjusting the chisel plow. If the tractor and chisel plow were to roll, you could be seriously or fatally injured.

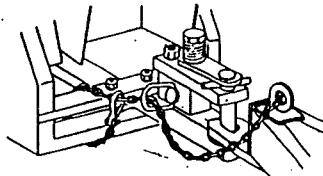


TRANSPORT SAFETY

1. Use the "SMV" emblem and warning lights for the protection of the tractor and other motor vehicle operators when transporting the chisel plow. Check local laws regarding transport regulations.



2. When transporting the chisel plow always lock the rockshaft by installing all depth stop collars on rockshaft cylinder shaft. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the chisel plow could drop, resulting in serious damage to the chisel plow and serious injury or death to you or those nearby.
3. Do not exceed 10 mph (16 km/h) when transporting the chisel plow on smooth surfaces. Reduce your speed on rough surfaces. Do not transport the chisel plow with any other vehicle except a tractor.
4. When transporting the chisel plow with the wings folded (UP), be sure there is sufficient clearance under all power lines and other overhead obstructions. Serious injury or death can result from contact with electrical lines. Use care to avoid contact with electrical lines when moving or operating the chisel plow.
5. Always attach a safety chain to the tractor drawbar and the chisel plow hitch before transporting the chisel plow. Serious damage and injury could result from the chisel plow separating from the tractor drawbar.



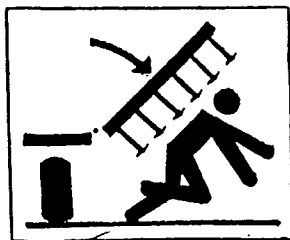
6. Always lock the wings in the folded position with the transport locks before transporting the chisel plow. Serious damage to the chisel plow and serious injury or death could result from the wings falling during transport.
7. Check all reflectors for visibility and cleanliness before transporting the chisel plow. It is important that the reflectors are clean and visible, especially during the evening hours.

8. Regulate your speed on hillsides and curves when transporting the chisel plow. Loss of tractor control could result in serious damage to the chisel plow and possible serious injury or death to you or those nearby.



OPERATION SAFETY

1. Be sure person(s) are standing clear before starting or moving the tractor and chisel plow.
2. Only one (1) person (the operator) should be permitted on the tractor when the chisel plow is in operation, and he/she should be familiar with repair procedures and temporary first aid treatment.
3. Never stand between the tractor and chisel plow when hitching the chisel plow to the tractor, UNLESS all tractor controls are in neutral and the park brake is set. The tractor could roll backwards, which could result in serious injury or death to you or those nearby.
4. Use extra care when operating the chisel plow on hillsides. The tractor may tip over if it strikes a hole, ditch or other irregularity, resulting in serious injury or death to the operator or those nearby.
5. To avoid personal injury or death, always stay clear of the folding wings when they are being raised, lowered or in the folded position. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the wings could drop, resulting in serious injury or death to you or those nearby.
6. Never allow anyone to ride on the tractor drawbar, or on the chisel plow. The person riding may fall off and be seriously or fatally injured.
7. Machinery should be operated only by person(s) responsible and qualified to do so.
8. Never allow anyone to climb or play on the chisel plow. They may fall and be seriously injured.



SAFETY DECALS

1. Keep all safety decals clean and in good condition to provide you with a constant reminder of safe operating procedures.
2. Replace any destroyed, missing or illegible decals.



CAUTION: WHEN MOVING, POSITIONING OR ATTACHING THE CASTOR WHEEL ASSEMBLIES USE EXTREME CARE NOT TO PLACE ANY PORTION OF YOUR BODY (SUCH AS HANDS, ARMS OR LEGS) BETWEEN THE TOP AND BOTTOM LINKS. THESE LINKS COULD COLLAPSE, CAUSING SERIOUS INJURY.

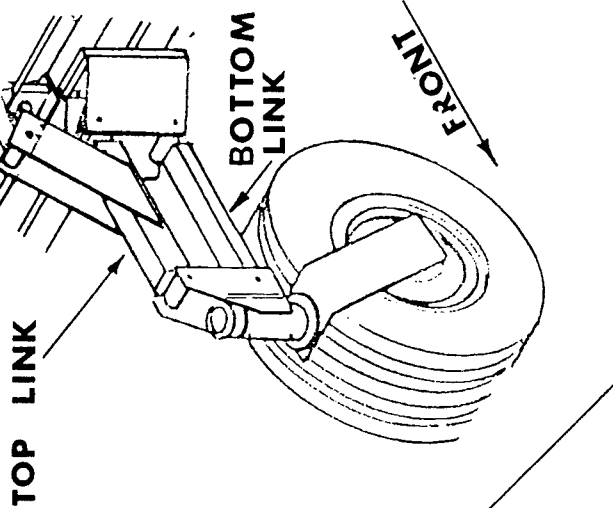
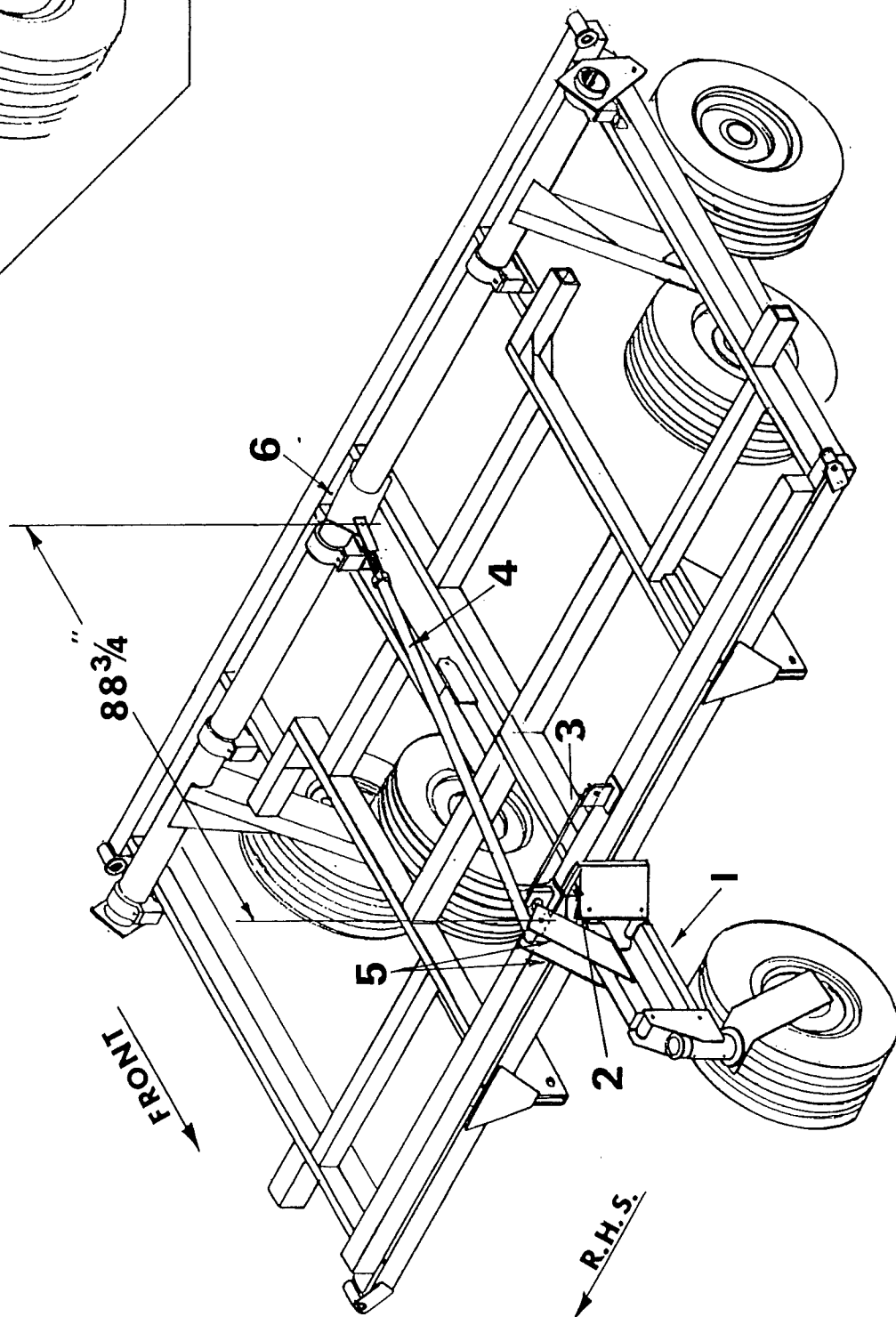


FIG. 1



2. Assembly

PREPARATION

Select a clear, level area large enough to accommodate the assembled chisel plow and permit the hitching of the chisel plow to the tractor. The tools and equipment required are:

1. Hoist or fork lift
2. Blocks or support stands approximately 40" high
3. Drift or punch
4. 3/4", 15/16", 1-1/8", 1-1/2", and 1-7/8" sockets or open end wrenches
5. Hydraulic sealant
6. Ball peen hammer and prybar
7. Tape measure

NOTE: Left and right are determined by standing behind the chisel plow and facing forward, the direction of travel.



CAUTION: USE A HOIST OR ADEQUATE MANPOWER TO LIFT THE HEAVY COMPONENTS INTO PLACE. USE ADEQUATE JACKS OR SUPPORT MATERIALS. ATTEMPTING TO LIFT HEAVY COMPONENTS BY YOURSELF COULD CAUSE SERIOUS INJURY.

MAIN FRAME ASSEMBLY - See figure 1. (see chart on Page 10 for centre frame and wing frame sizes for your chisel plow).

1. Raise the main frame, arrow 1 approximately 40" above the ground with a hoist or fork lift and block securely.



CAUTION: USE AN ALIGNING PUNCH TO LINE UP HOLES. KEEP YOUR FINGERS OUT OF THESE HOLES. ANY SUDDEN MOVEMENT OF HEAVY COMPONENTS WILL SEVERELY INJURE OR SEVER YOUR FINGERS.

TIRE INSTALLATION - See Figure 1.

1. Bolt the tire and wheel assemblies to the hubs. Install 11L x 15 8 ply tires under the centre section.
2. Be sure the wheel bolts are tight. These bolts should be checked periodically for tightness during initial transport or when first cultivating.



CAUTION: SUPPORT THE MAIN AND WING FRAMES SECURELY BEFORE ASSEMBLING THE COMPONENTS. INADEQUATE SUPPORT MAY RESULT IN THE HEAVY COMPONENTS FALLING AND CAUSING SERIOUS INJURY TO YOU AND PERSON(S) NEARBY.

FRONT CASTOR WHEEL INSTALLATION - Main Frame, See Figure 1

1. Bolt the tire and wheel assembly to the hub. Install 11L x 15 8 ply tire for the centre section caster wheel.

2. Be sure the wheel bolts are tight. These bolts should be checked periodically for tightness during initial transport or when first cultivating.
3. Install main frame castor wheel assembly, arrow 1 , to the front attaching plate of Main frame, as illustrated in Figure 1.
4. Secure the castor wheel attaching plate, arrow 2, to main frame attaching plate , arrow 3, Secure with four (4) 1" x 3" bolts c/w nuts and lockwashers.



CAUTION: BE SURE ALL WHEEL BOLTS ARE CHECKED FOR TIGHTNESS DURING INITIAL TRANSPORT OR WHEN FIRST CULTIVATING. LOOSE WHEEL BOLTS MAY RESULT IN THE WHEEL FALLING OFF, CAUSING SERIOUS DAMAGE TO THE CHISEL PLOW AND MAY CAUSE SERIOUS INJURY TO THE OPERATOR OR PERSON(S) NEARBY.

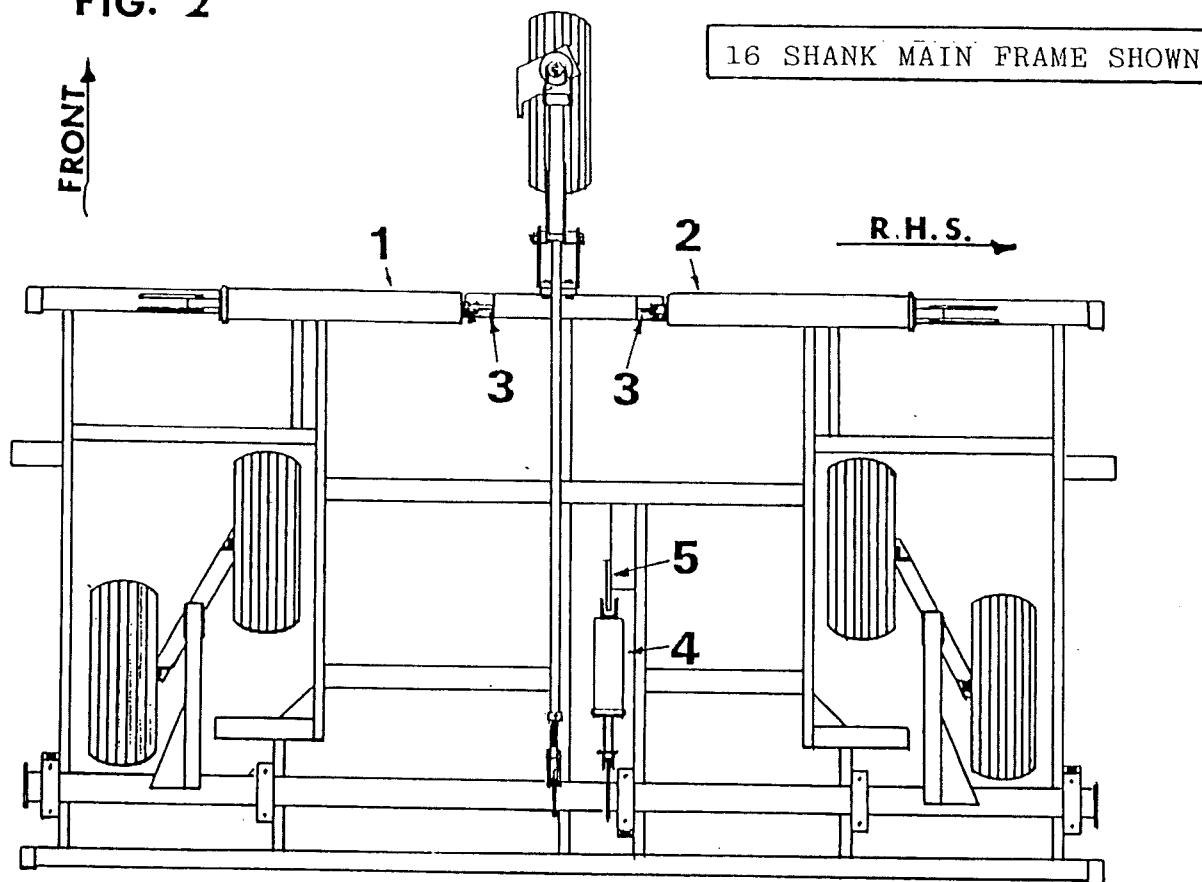
5. Be sure all wheel bolts are checked for tightness during initial transport or when first cultivating. Loose wheel bolts may result in the wheel falling off causing serious damage to the chisel plow and may cause serious injury to the operator or person(s) nearby.
6. To start with , push arm assembly, arrow 4, can be set at 88-3/4" (centre to centre). Then fasten the front cross tube of the push arm assembly, arrow 4, to the lugs arrow 5, on castor wheel assembly. Secure with one (1) 1-1/4" pin c/w cotter pin. Then fasten the other end to the rockshaft arm, arrow 6, with the special 1-1/4" x 4-1/4" hex. bolt c/w nut and lockwasher through the clevis and ball joint. Be sure that the bolt is drawn up tight against the ball joint.

NOTE: The 1-1/4" x 4-1/4" bolt must be tightened so that the clevis of the push arm assembly is drawn up tight against the ball joint in the rockshaft arm. The ball must be free to pivot in the socket. Lubricate ball with oil and turn in socket to make sure it is free to pivot in the socket.



CAUTION: BE SURE ALL BOLTS AND HYDRAULIC FITTINGS ARE TIGHT, AND ALL COTTER PINS ARE INSTALLED IN THE SLOTTED NUTS AND PINS.

FIG. 2



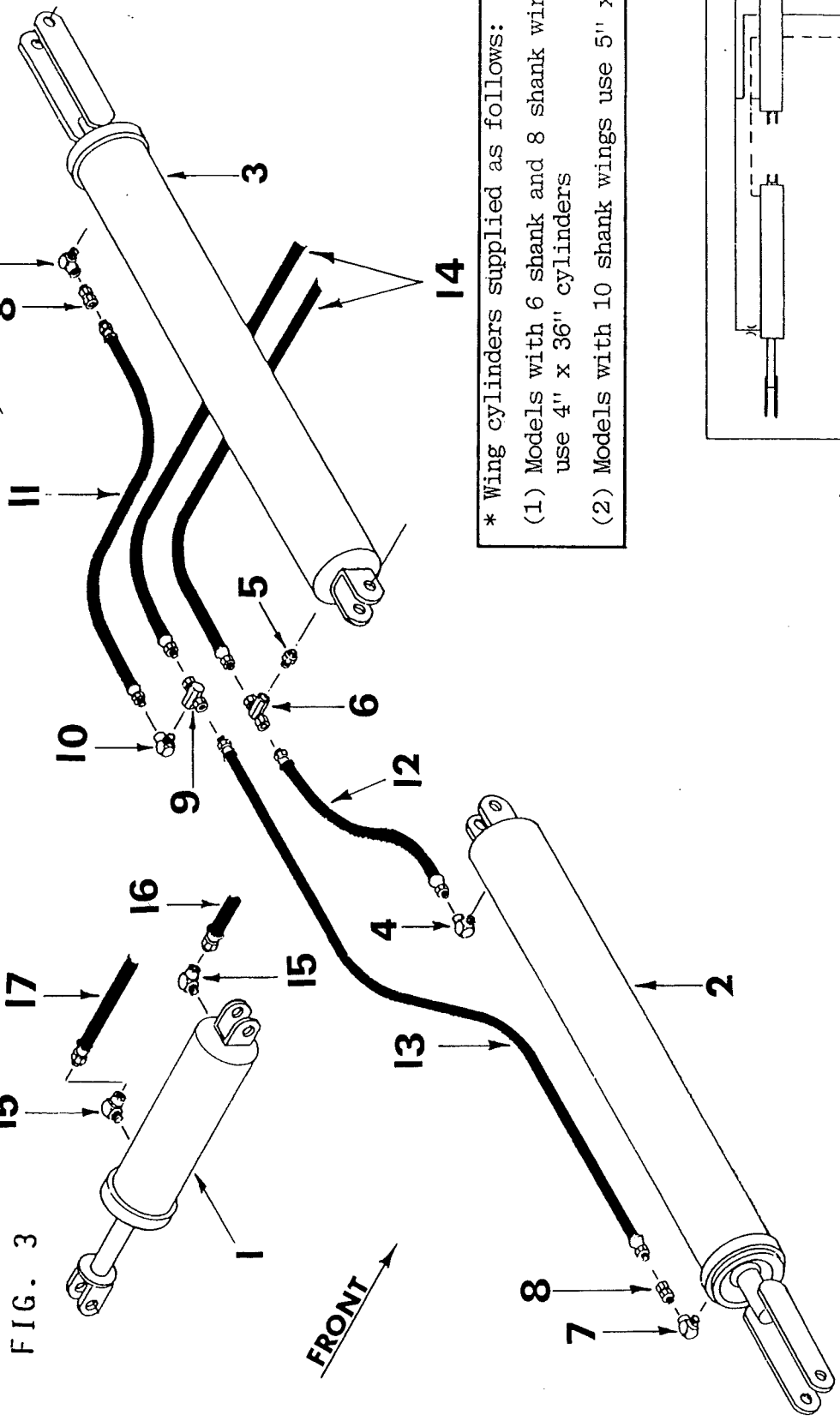
HYDRAULIC CYLINDER INSTALLATION - See Figure 2.

1. Install the barrel ends of the RH and LH wing lift cylinders, arrow 1 and 2, to the mounting brackets, arrow 3, on the main frame with one (1) 1-1/4" dia. pin and one (1) 1/4" x 2" cotter pin for each cylinder. The hydraulic ports of BOTH cylinders must be facing the rear.
2. Install the barrel end of the rockshaft cylinder, arrow 4, to the rockshaft cylinder bracket, arrow 5, on main frame with one (1) 1-1/4" dia. pin and two (2) 1/4" x 2" cotter pins. The hydraulic ports must be facing the LHS.
3. Attach shaft end of rockshaft cylinder, Arrow 4, to rockshaft arm, Arrow 6, with one (1) 1-1/4" diameter pin and two (2) 1/4" x 2" cotter pins.
4. Do not attach the shaft ends of the wing lift cylinders until they have been completely filled with hydraulic oil.

NOTE: Lubricate the rockshaft cylinder pins with grease before installing them. Also, apply a coat of grease to the holes in the rockshaft cylinder clevises, rockshaft arm and cylinder lug, Arrow 4.

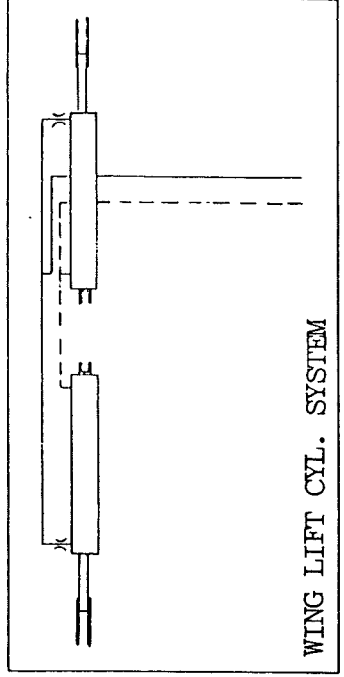
- | | | | |
|--------------------------|---|----------------|---|
| (1) kshaft cylinder | (8) 3/8" male-female restri | orifice swivel | (15) 1/2" street elbow |
| (2) .g lift cylinder * | (9) 3/8" swivel tee | | (16) 1/2" x 380" hyd. hose extra long hitch |
| (3) Wing lift cylinder * | (10) 3/8" street elbow | | 1/2" x 338" hyd. hose long hitch |
| (4) 3/8" street elbow | (11) 3/8" x 36" hyd. hose | | (17) 1/2" x 396" hyd. hose extra long hitch |
| (5) 3/8" male coupler | (12) 3/8" x 12" hyd. hose | | 1/2" x 354" hyd. hose long hitch |
| (6) 3/8" swivel tee | (13) 3/8" x 50" hyd. hose | | |
| (7) 3/8" street elbow | (14) 3/8" x 348" hyd. hose extra long hitch | | |
| | 3/8" x 306" hyd. hose long hitch | | |

FIG. 3



* Wing cylinders supplied as follows:
 (1) Models with 6 shank and 8 shank wings use 4" x 36" cylinders
 (2) Models with 10 shank wings use 5" x 36" cyl.

FOR 14 SHANK MAIN FRAMES
 HYDRAULIC SYSTEM



WING LIFT CYL. SYSTEM

- | | | |
|--------------------------|--|---|
| (1) Rockshaft cylinder | (8) 3/8" male-female restricted orifice swivel | (15) 1/2" street elbow |
| (2) Wing lift cylinder * | (9) 3/8" swivel tee | (16) 1/2" x 380" hyd. hose extra long hitch |
| (3) Wing lift cylinder * | (10) 3/8" street elbow | (17) 1/2" x 338" hyd. hose extra long hitch |
| (4) 3/8" street elbow | (11) 3/8" x 36" hyd. hose | (17) 1/2" x 396" hyd. hose extra long hitch |
| (5) 3/8" male coupler | (12) 3/8" x 36" hyd. hose | (17) 1/2" x 354" hyd. hose extra long hitch |
| (6) 3/8" swivel tee | (13) 3/8" x 74" hyd. hose | |
| (7) 3/8" street elbow | (14) 3/8" x 348" hyd. hose extra long hitch | |
| | 3/8" x 306" hyd. hose long hitch | |

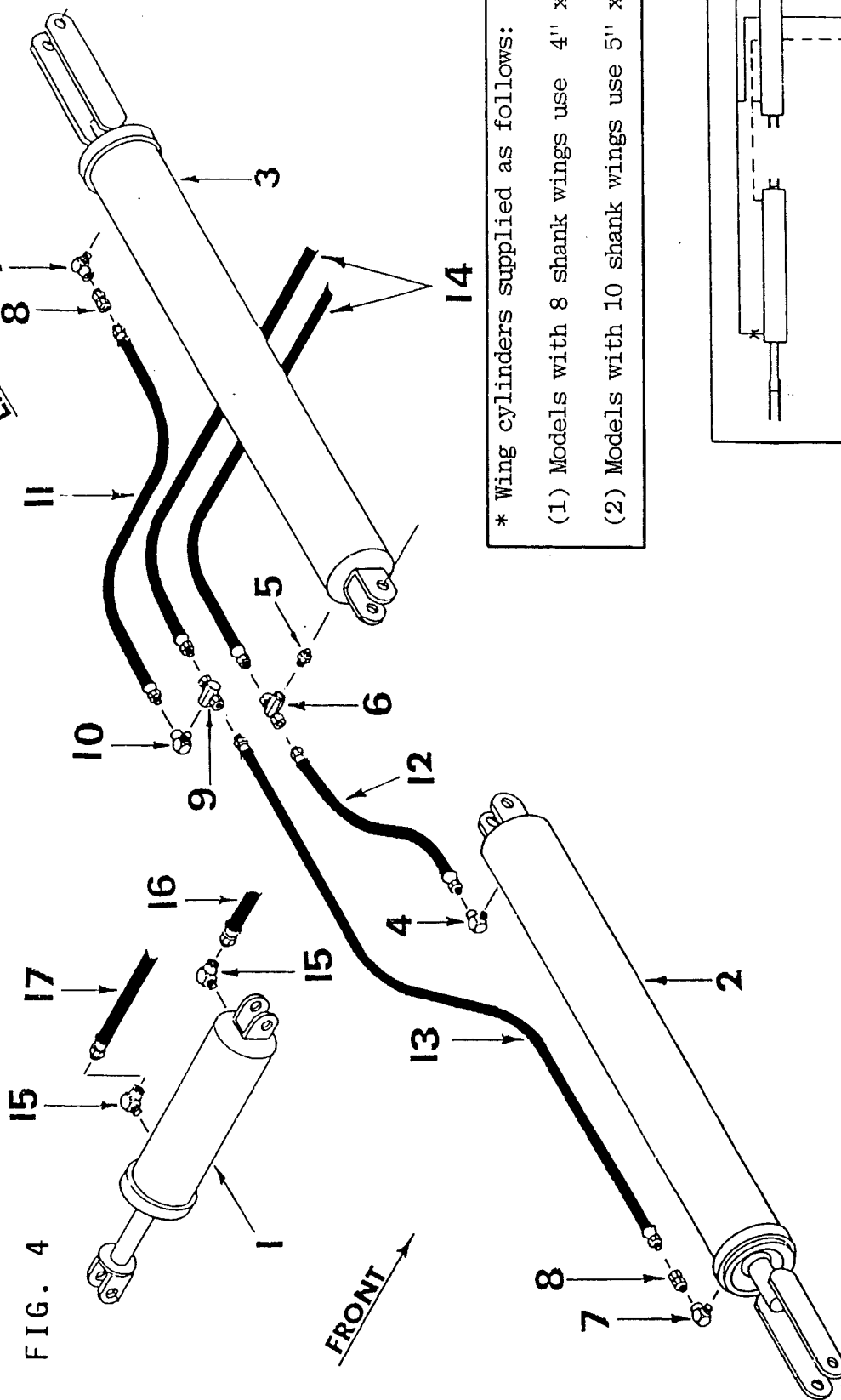
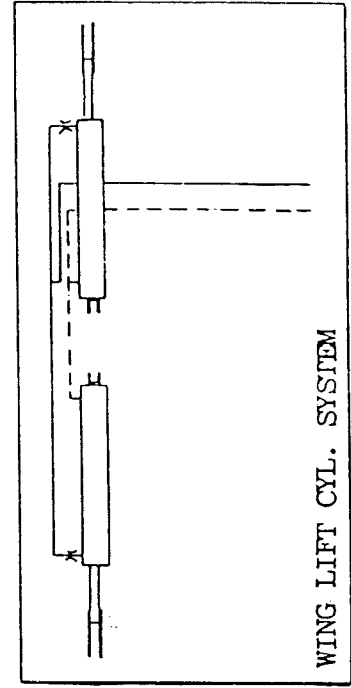


FIG. 4

* Wing cylinders supplied as follows:

- (1) Models with 8 shank wings use 4" x 36" cyl.
 (2) Models with 10 shank wings use 5" x 36" cyl.



FOR 16 SHANK MAIN FRAMES
HYDRAULIC SYSTEM

WING LIFT CYL. SYSTEM

WING CYLINDER HOSE INSTALLATION - See Figure 3 and 4

IMPORTANT: CLEANLINESS IS ABSOLUTELY NECESSARY TO PREVENT CONTAMINATION WHEN HOOKING UP THE HYDRAULIC SYSTEM COMPONENTS. HANDLE THE FITTINGS CAREFULLY. DO NOT REMOVE THE CAPS FROM THE PIPE AND HOSE ENDS UNTIL ALL FITTINGS ARE INSTALLED.

NOTE: Use a good quality thread sealant on the fittings to prevent leaks.

NOTE: See specification chart on page 11 to determine length of hitch for your chisel plow.

1. Install one (1) 3/8" street elbow, arrow 4, in the barrel end port of the RH wing lift cylinder, arrow 2.
2. Install one (1) 3/8" male coupler, arrow 5, in the barrel end port of the LH wing lift cylinder, arrow 3. Next, install one (1) 3/8" swivel tee arrow 6, to the coupler in the LH wing lift cylinder, arrow 3.
3. Install one (1) 3/8" street elbow, arrow 7, in the shaft end port of each wing lift cylinder, arrow 2 & 3. Next, install one (1) 3/8" male-female restricted orifice swivel, arrow 8 (this fitting is red in color), to each 3/8" street elbow, arrow 7.
4. **FOR 14 SHANK MAIN FRAME** - See Figure 3.
Install one (1) 3/8" x 12" hydraulic hose, arrow 12, to the 3/8" tee, arrow 6, on the LH wing lift cylinder, arrow 3. Then attach the other end of the same hose to the 3/8" street elbow, arrow 4, on the RH wing lift cylinder, arrow 2.
5. **FOR 16 SHANK MAIN FRAME** - See Figure 4.
Install one (1) 3/8" x 36" hydraulic hose, arrow 12, to the 3/8" tee, arrow 6, on the LH wing lift cylinder, arrow 3. Then attach the other end of the same hose to the 3/8" swivel street elbow, arrow 4, on the RH wing lift cylinder, arrow 2.
5. Install one (1) 3/8" street elbow, arrow 10, in 3/8" swivel tee, arrow 9, then install one (1) 3/8" x 36" hydraulic hose, arrow 11, to the 3/8" swivel tee, arrow 9. Then attach the other end of the same hose to the 3/8" male-female restricted orifice swivel, arrow 8, on the shaft end port of the LH wing lift cylinder, arrow 3.
6. **FOR 14 SHANK MAIN FRAME MODELS** - See Figure 3.
Install one (1) 3/8" x 50" hydraulic hose, arrow 13, to the 3/8" swivel tee arrow 9. Then attach the other end of the same hose to the 3/8" male-female restricted orifice swivel, arrow 8, in the barrel port of the RH wing lift cylinder, arrow 2.

FOR 16 SHANK MAIN FRAME MODELS - See Figure 4.

Install one (1) 3/8" x 74" hydraulic hose, arrow 13, to the 3/8" tee, arrow 9. Then attach the other end of the same hose to the 3/8" male-female restricted orifice swivel, arrow 8, in the barrel port of the RH wing lift cylinder, arrow 2.

7. FOR LONG HITCH MODELS -Install one (1) 3/8" x 1/2" x 306" hydraulic hose, arrow 14 in each 3/8" tee, arrow 6 & 9. Be sure to install the 3/8" end of the hose in the 3/8" tee.

FOR EXTRA LONG HITCH MODELS -Install one (1) 3/8" x 1/2" x 348" hydraulic hose, arrow 14 in each 3/8" tee, arrow 6 & 9. Be sure to install the 3/8" end of the hose in the 3/8" tee.

ROCKSHAFT CYLINDER HOSE INSTALLATION - See Figure 3 and 4

1. Install one (1) 1/2" street elbow, arrow 15, in both the shaft and barrel end ports of the rockshaft cylinder, arrow 1.

2. FOR LONG HITCH MODELS -Install one (1) 1/2" x 338" hydraulic hose, arrow 16, in the 1/2" street elbow, arrow 15, in the barrel end port of the rockshaft cylinder, arrow 1.

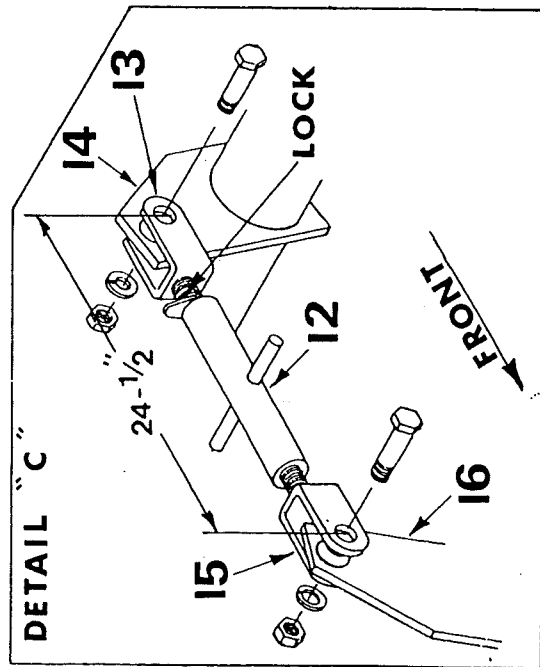
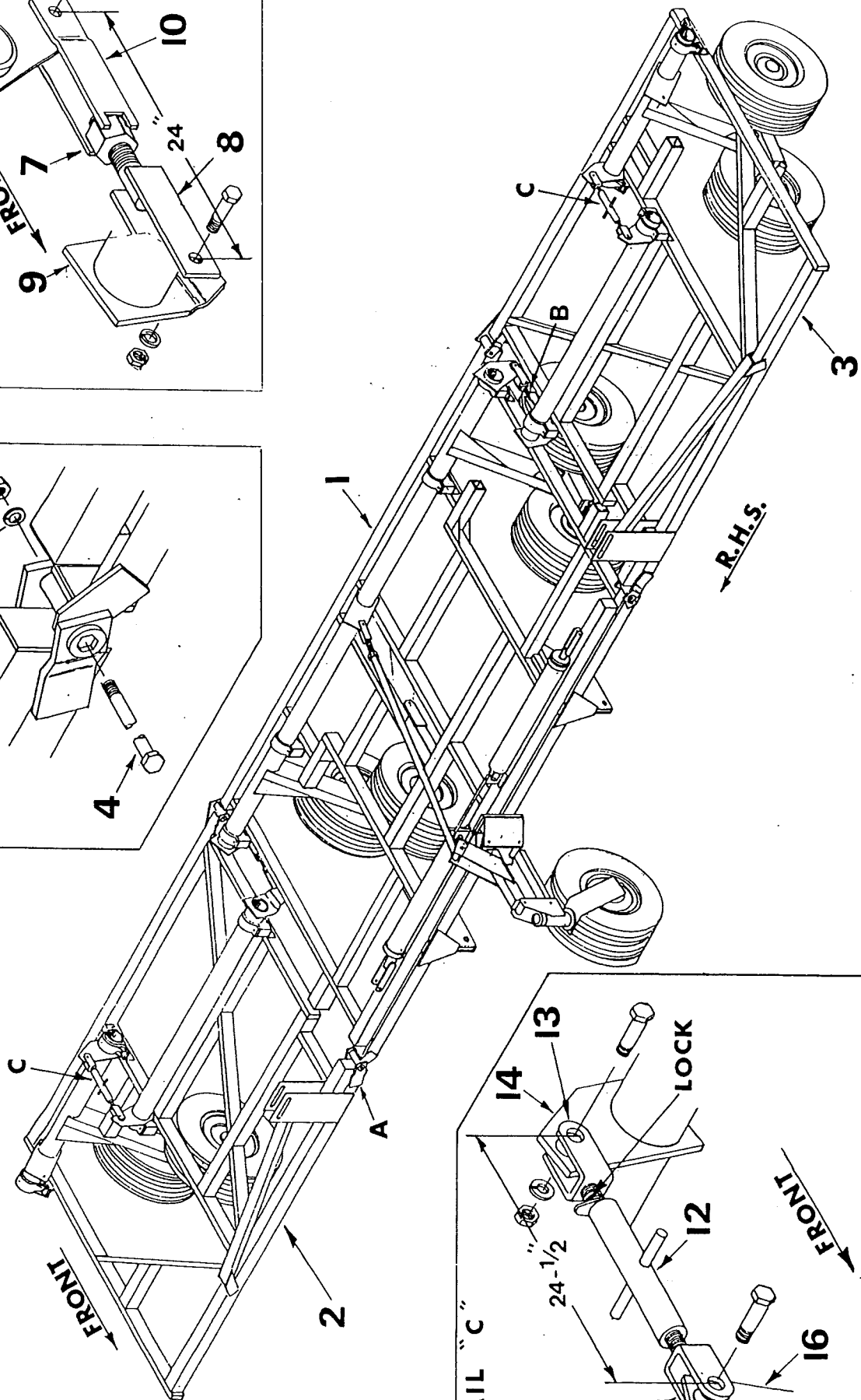
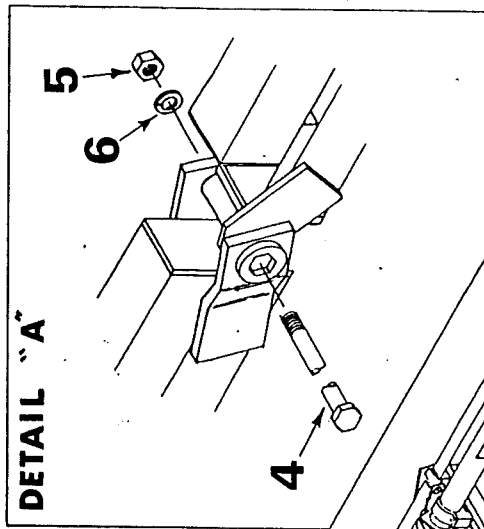
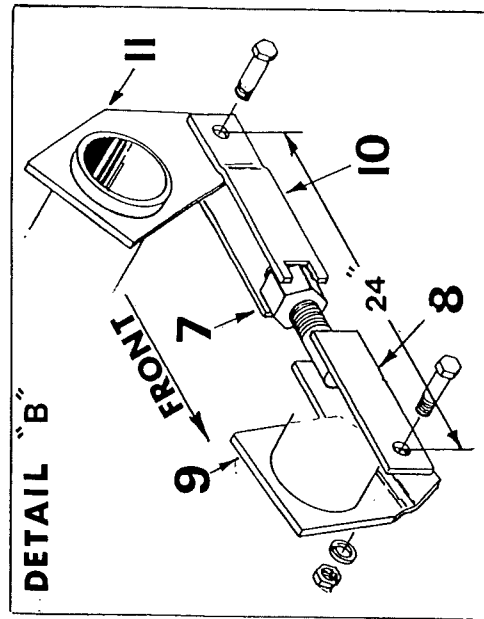
FOR EXTRA LONG HITCH MODELS -Install one (1) 1/2" x 380" hydraulic hose, arrow 16, in the 1/2" street elbow, arrow 15, in the barrel end port of the rockshaft cylinder, arrow 1.

3. FOR LONG HITCH MODELS -Install one (1) 1/2" x 354" hydraulic hose, arrow 17, in the 1/2" street elbow, arrow 15, in the barrel end port of the rockshaft cylinder, arrow 1.

FOR EXTRA LONG HITCH MODELS -Install one (1) 1/2" x 396" hydraulic hose, arrow 17, in the 1/2" street elbow, arrow 15, in the barrel end port of the rockshaft cylinder, arrow 1.



CAUTION: BE SURE ALL HOSES AND HYDRAULIC FITTINGS ARE TIGHT.



WING FRAME ASSEMBLY

See Figure 5 (see the chart below for the centre frame and wing frame sizes for your chisel plow).

1. Fasten the RH wing frame, arrow 2, and LH wing frame, arrow 3, to the main frame, arrow 1, with two (2) 1" x 7-3/4" hex bolts, arrow 4. Secure each bolt with a 1" nut, arrow 5, and a 1" lockwasher, arrow 6. See Figure 5, Detail A.

MODEL	APPROX. CUTTING WIDTH	CENTRE FRAME SIZE	WING FRAME SIZE	EXTENSIONS USED (2 OF EACH)			NO. OF SHANKS	APPROX. TRANS- PORT WIDTH	APPROX. TRANS- PORT HEIGHT	APPROX. WEIGHT (LBS)	HITCH REQ'D
				10" STUB	20" STUB	31" SOILD FRAME					
7426-26-14-6	26'	14'	6'				26	18' 9"	11'	10940	LONG
7428-28-14-6	28'	14'	6'	x			28	18' 9"	12'	11217	LONG
7430-30-14-6	30'	14'	6'	x	x		30	18' 9"	13'	11549	E LONG
7430-30-14-8	30'	14'	8'				30	18' 9"	13'	11778	E LONG
7432-32-14-8	32'	14'	8'	x			32	18' 9"	13' 11"	12055	E LONG
7432-32-16-8	32'	16'	8'				32	20' 9"	13'	12115	E LONG
7434-34-14-8	34'	14'	8'	x	x		34	18' 9"	14' 11"	12387	E LONG
7434-34-16-8	34'	16'	8'	x			34	20' 9"	13' 11"	12392	E LONG
7434-34-14-10	34'	14'	10'				34	18' 9"	14' 11"	12647	E LONG
7436-36-16-8	36'	16'	8'	x	x		36	20' 9"	14' 11"	12724	E LONG
7436-36-14-10	36'	14'	10'	x			36	18' 9"	15' 11"	12924	E LONG
7436-36-16-10	36'	16'	10'				36	20' 9"	14' 11"	12984	E LONG
7438-38-14-10	38'	14'	10'	x	x		38	18' 9"	16' 11"	13256	E LONG
7438-38-16-10	38'	16'	10'	x			38	20' 9"	15' 11"	13261	E LONG
7440-40-14-10	40'	14'	10'	x	x	x	40	18' 9"	17' 11"	13644	E LONG
7440-40-16-10	40'	16'	10'	x	x		40	20' 9"	16' 11"	13593	E LONG
7442-42-16-10	42'	16'	10'	x	x	x	42	20' 9"	17' 10"	13981	E LONG
7444-44-16-10	44'	16'	10'	x		x	44	20' 9"	18' 9"	14488	E LONG

STUB AND FRAME EXTENSIONS - See Shank Patterns On Page 25 to 29

1. The shank pattern for your chisel plow will show if extensions are required.
2. SEE FIG. 6. Secure extensions to the wing frames with $5/8"$ x $4"$ x $3-7/16"$ U-Bolts c/w nuts and lockwashers. If machine requires a 31" extension, it is also fastened to the 10" stub with four (4) $5/8"$ x $2"$ N.C. hex. bolts c/w nuts and lockwashers.

FIG. 6

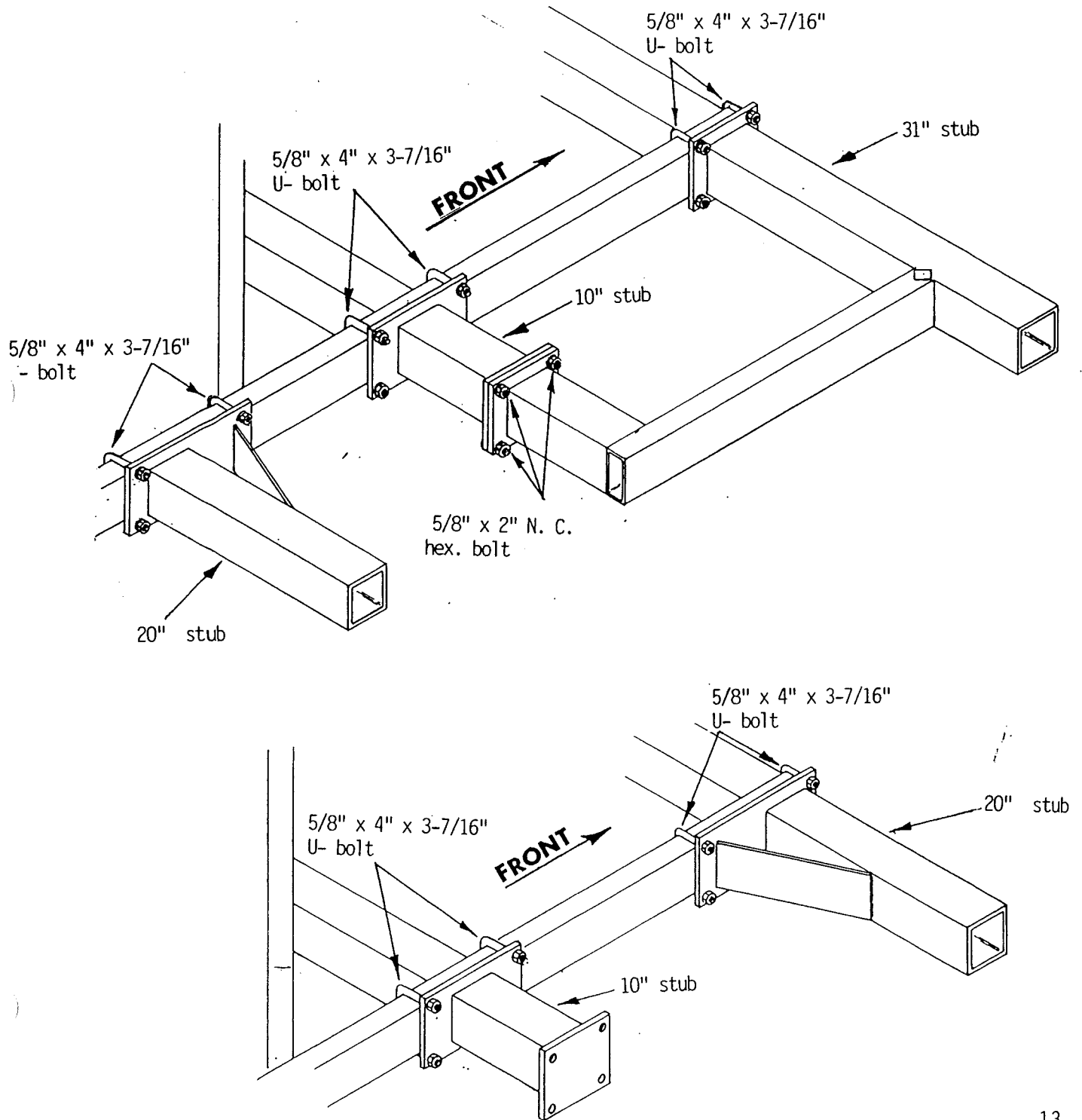
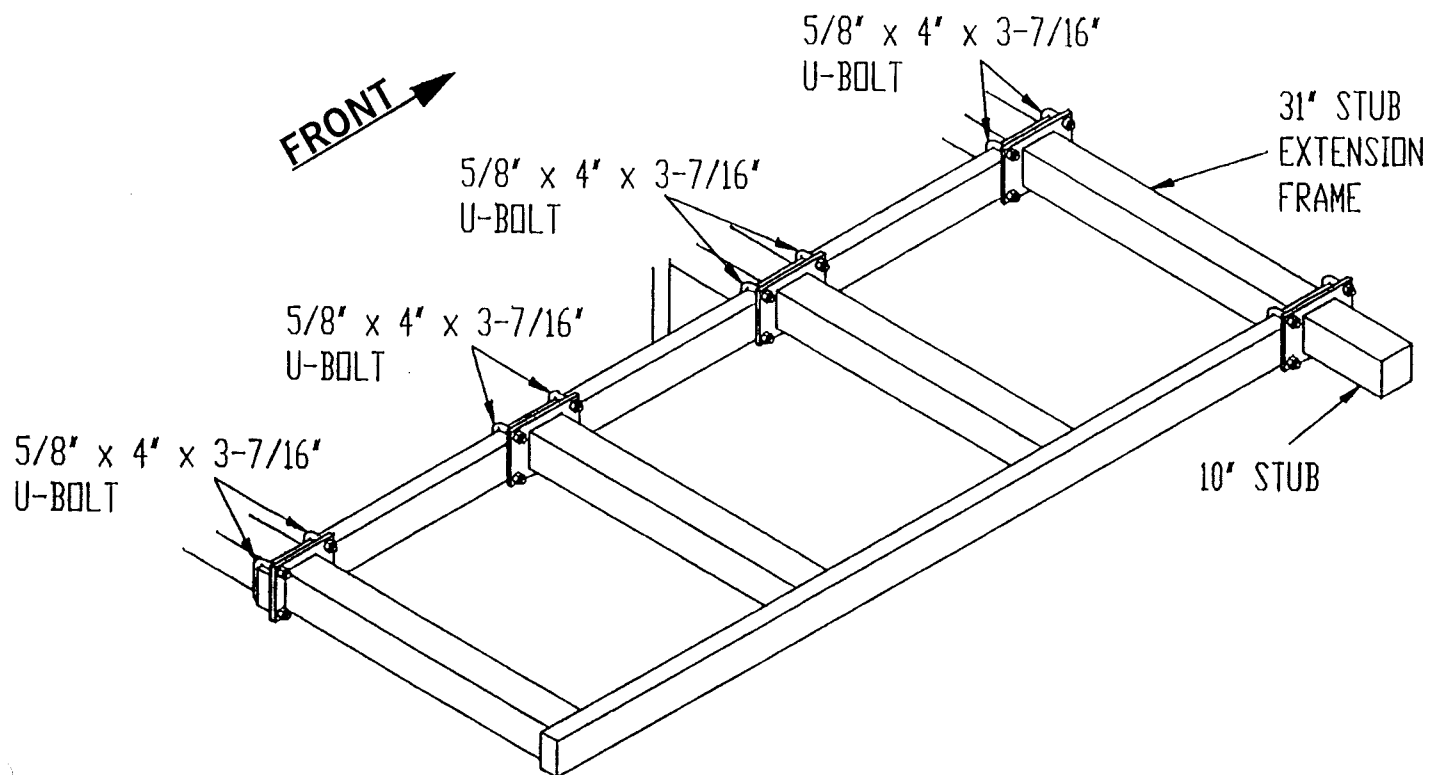


FIG. 6 cont:



ROCKSHAFT LINKAGE INSTRUCTIONS - See Figure 5, Detail B, C.

1. Adjust each main frame rockshaft link, arrow 7, by turning it until the centre to centre distance between the holes is approximately 24". Then adjust each quick wing levelling adjuster, arrow 12, by turning it until the centre to centre distance between the holes is approximately 24-1/2".
2. Install the male half of the main frame rockshaft link, arrow 8, to the wing frame intermediate rockshaft arm, arrow 9, with special 1-1/4" x 4-1/4" bolts complete with nuts and lockwashers. Be sure the bolts are drawn up tight against the ball joint.
3. Install the female half of the main frame rockshaft link, arrow 10, to the main frame rockshaft arm, arrow 11, with special 1-1/4" x 4-1/4" bolts complete with nuts and lockwashers. Be sure the bolts are drawn up tight against the ball joint.
4. Install the clevis end, Arrow 13, (with lock) of each quick wing levelling adjuster to the wing frame rockshaft arm, arrow 14, with special 1-1/4" x 4-1/4" bolts complete with nuts and lockwashers. Be sure the bolts are drawn up tight against the ball joint.
5. Install opposite clevis, arrow 15, of each quick wing adjuster, to the wing frame intermediate rockshaft arm, arrow 16, with special 1-1/4" x 4-1/4" bolts complete with nuts and lockwashers. Be sure the bolts are drawn up tight against the ball joint.

NOTE: The 1-1/4" x 4-1/4" bolts must be tightened so that the clevises of the rockshaft links are drawn up tight against the ball joint in the rockshaft arms.. The ball must be free to pivot in the socket. Lubricate ball with oil and turn in socket to make sure it is free to pivot.

TIRE INSTALLATION: See Figure 5

1. Bolt the tires and wheel assemblies to the hubs. Install 11L x 15 6 ply tires under each wing section.

2. BE SURE THE WHEELS BOLTS ARE TIGHT . THESE BOLTS SHOULD BE CHECKED PERIODICALLY FOR TIGHTNESS DURING INITIAL TRANSPORT OR WHEN FIRST CULTIVATING.



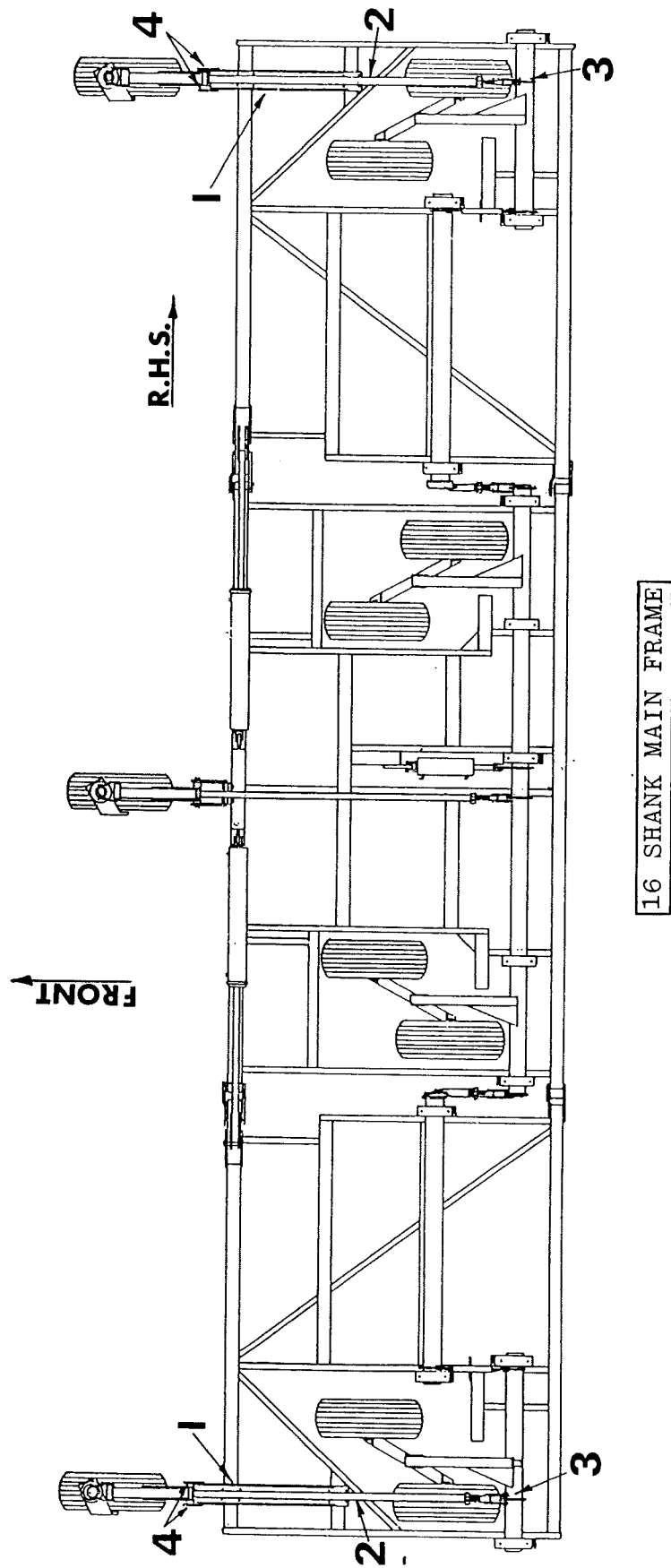
CAUTION: BE SURE ALL WHEEL BOLTS ARE CHECKED FOR TIGHTNESS DURING INITIAL TRANSPORT OR WHEN FIRST CULTIVATING. LOOSE WHEEL BOLTS MAY RESULT IN THE WHEEL FALLING OFF, CAUSING SERIOUS DAMAGE TO THE CULTIVATOR AND MAY CAUSE SERIOUS INJURY TO THE OPERATOR OR THOSE NEARBY.



CAUTION: BE SURE ALL BOLTS ARE TIGHT, AND ALL COTTER PINS ARE INSTALLED IN THE SLOTTED NUTS AND PINS.

IMPORTANT - ALL BALL JOINTS (WHICH FASTEN THE LINKAGE TO THE ROCKSHAFTS) MUST BE KEPT VERY TIGHT. THE LINKAGE STRAPS ARE TO BE DRAWN UP TIGHT AGAINST THE BALL JOINTS. THE BALL JOINT MUST BE FREE TO PIVOT IN THE SOCKET. LUBRICATE THE BALL JOINTS WITH OIL BEFORE INSTALLING THE LINKAGE. IF THE BOLTS ARE LOOSE, THE LINKAGE, BALL JOINTS AND BOLTS WILL WEAR, CAUSING EXCESSIVE SLACK BETWEEN THE ROCKSHAFT MAKING EVEN DEPTH CONTROL DIFFICULT.

FIG. 7



FRONT CASTOR WHEEL INSTALLATION - Wing Frames, See Figures 7 and 8

1. Bolt the tires and wheel assemblies to the hubs. Install 11L x 15 6 ply tires for the wing frames' castor wheels.

2. BE SURE THE WHEEL BOLTS ARE TIGHT. THESE BOLTS SHOULD BE CHECKED PERIODICALLY FOR TIGHTNESS DURING INITIAL TRANSPORT OR WHEN FIRST CULTIVATING.

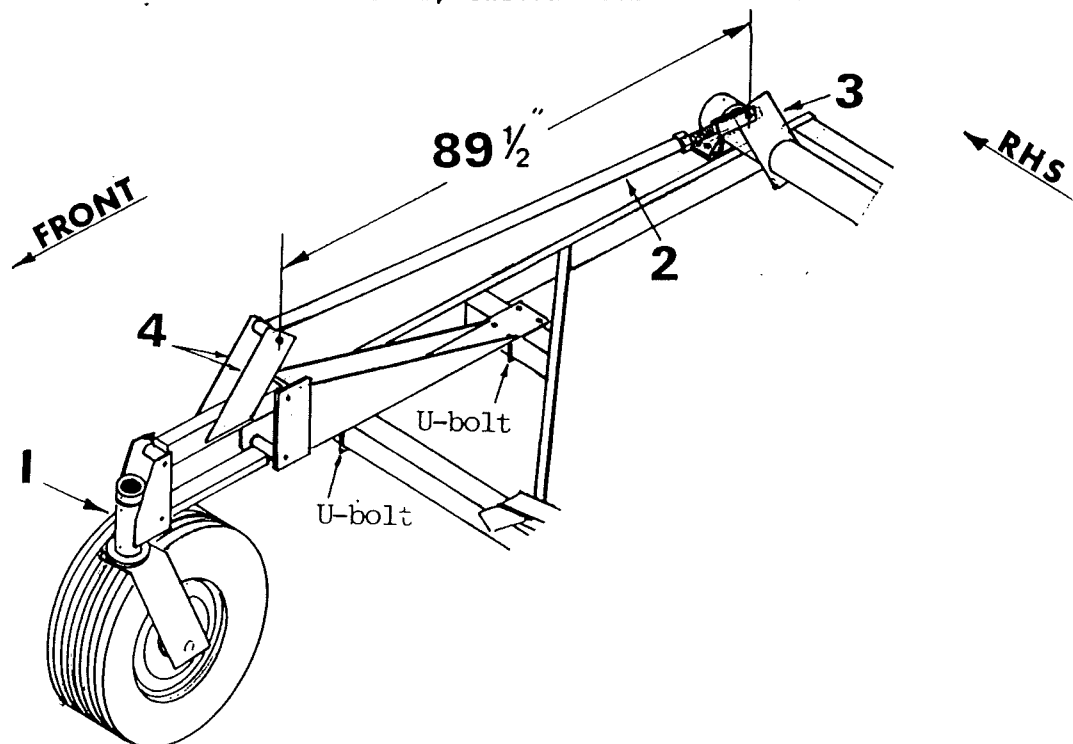
3. Install one (1) castor wheel assembly, arrow 1, to the front two bars of each wing section of the chisel plow, as illustrated in Figure 7 and 8. The castor wheel assemblies must be positioned so that the push arm assembly, arrow 2, can be installed on the rockshaft arm, arrow 3, and also line up with the lugs, arrow 4, welded to the castor wheel assembly.
4. Fasten the castor wheel assembly, Arrow 1 to the front two (2) bars of the wing frames. Secure with four (4) 5/8" x 4" x 5-7/16" long U-bolts c/w nuts and lockwashers.
5. To start with, the push arm assembly, arrow 2, can be set at a distance of 89-1/2" (centre to centre). Then fasten the front cross tube of the push arm assembly, arrow 2, to the lugs, arrow 4, on the castor wheel assembly. Secure with one (1) 1-1/4" x 4-1/4" pin c/w cotter pin. Then fasten the other end to the rockshaft arm, arrow 3, with the special 1-1/4" x 4-1/4" hex. bolt c/w nut and lockwasher through the clevis and ball joint. Be sure that the bolt is drawn up tight against the ball joint.

NOTE: The 1-1/4" x 4-1/4" bolts must be tightened so that the clevises of the rockshaft links are drawn up tight against the ball joint in the rockshaft arms. The ball must be free to pivot in the socket. Lubricate ball with oil and turn in socket to make sure it is free to pivot in socket.

CAUTION: BE SURE ALL BOLTS ARE TIGHT, AND ALL COTTER PINS ARE INSTALLED IN THE SLOTTED NUTS AND PINS.

CAUTION: WHEN MOVING, POSITIONING OR ATTACHING THE CASTER WHEEL ASS'Y USE EXTREME CARE NOT TO PLACE ANY PORTION OF YOUR BODY (SUCH AS HANDS, ARMS, OR LEGS) BETWEEN THE TOP AND BOTTOM LINKS. THESE LINKS COULD COLLAPSE, CAUSING SERIOUS INJURY.

FIG. 8



SHANK INSTALLATION - See Figure 9

1. Using a tape measure and a marker, mark off the shank positions on the frames for your particular model of chisel plow. See Shank patterns on pages 25 to 29.
2. Fasten the shank trip assembly to the bottom of the frame with (2) 3/4" x 4" U-bolts c/w nuts and lockwashers.

NOTE: The springs on the shank trip assembly are tightened seven(7) turns on the eye-bolt after the spring becomes snug. If the shank is disassembled the spring should be retightened seven(7) turns when reassembling.

IMPORTANT: BE SURE ALL BOLTS ARE CHECKED PERIODICALLY FOR TIGHTNESS. SPECIAL ATTENTION SHOULD BE GIVEN TO THE 1" PIVOT BOLT ON THE SHANK TRIP ASSEMBLY. IF THIS BOLT COMES LOOSE, THE TRIP MOUNT BRACKET COULD BE DAMAGED.

FIG. 9

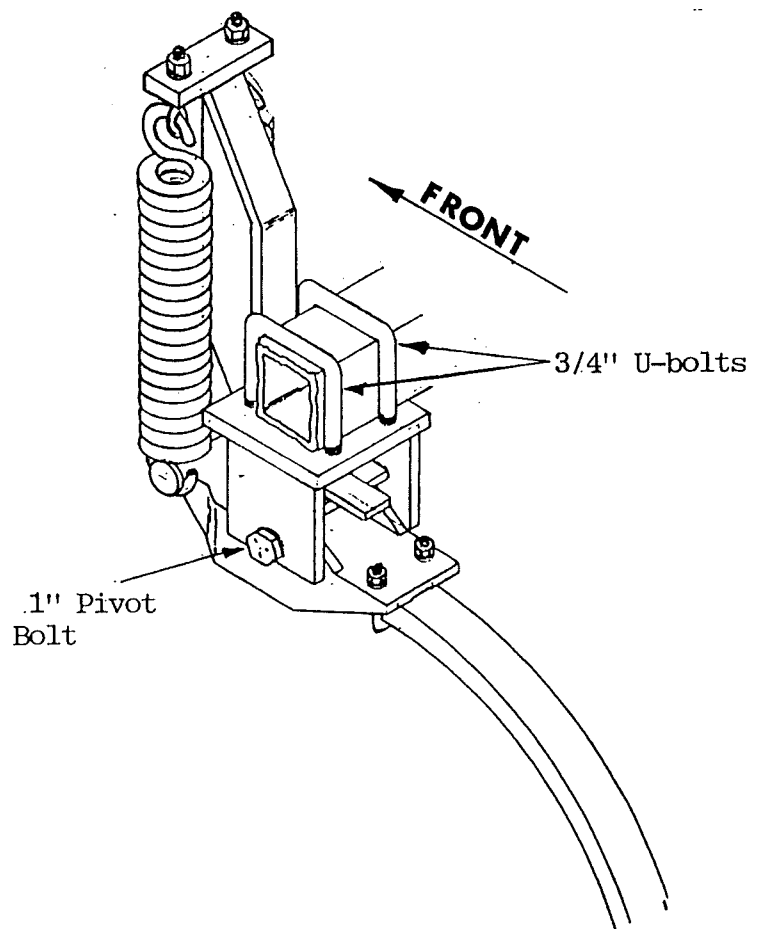
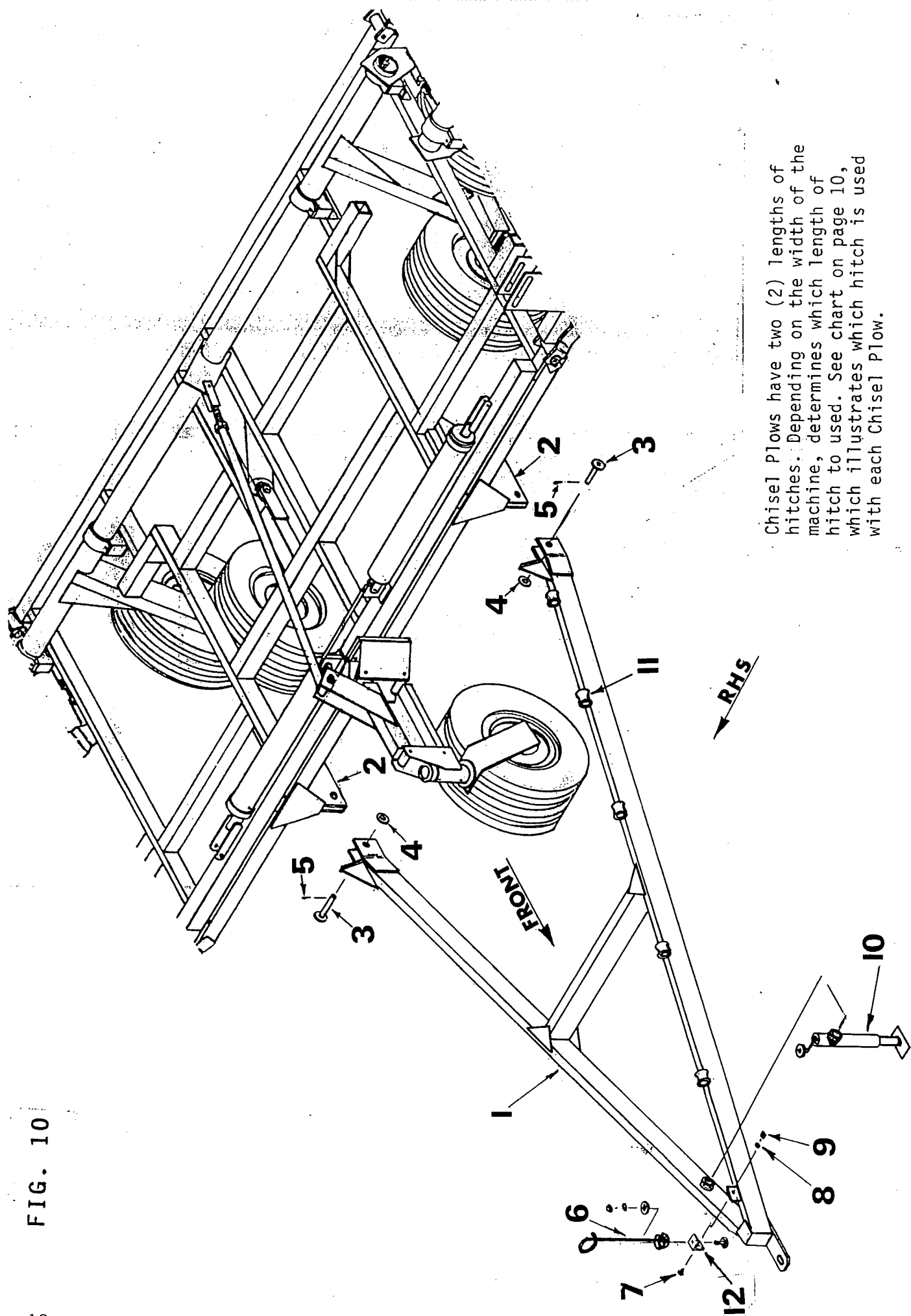


FIG. 10



Chisel Plows have two (2) lengths of hitches. Depending on the width of the machine, determines which length of hitch to used. See chart on page 10, which illustrates which hitch is used with each Chisel Plow.

HITCH INSTALLATION - See Figure 10.

1. Install the floating hitch, arrow 1, to the main frame attaching tubes, arrow 2, with two (2) 1-1/4" pins, arrow 3, c/w backing washers, arrow 4. Secure each pin with lynch pin arrow 5.
2. Install one (1) hose support, arrow 6, to the top of angle iron bracket, arrow 12, with one 5/8 x 1-1/2 bolt c/w nut, flatwasher and lockwasher. Then secure angle iron bracket, arrow 12, with hose support secured to to hitch with one (1) 5/8" x 1-1/2" carriage head bolt, arrow 7, c/w nut and lockwasher, arrows 8 & 9.
3. Mount the hitch jack, arrow 10 on the round tube welded to the inside of the hitch. The jack pivots on the mounting tube and can be placed in a vertical position for supporting the hitch, or in a horizontal position when the chisel plow is in motion. Lock the jack in the desired position with the pin.

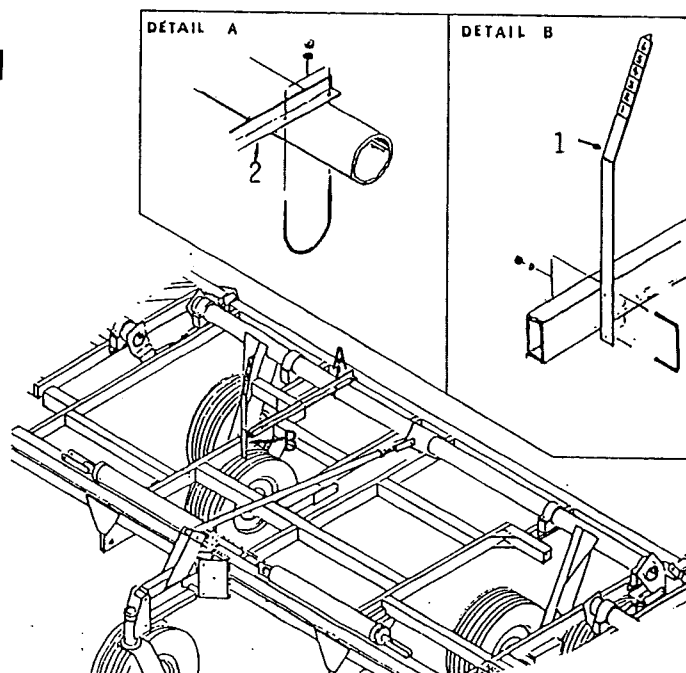
IMPORTANT: THE JACK MUST BE IN A HORIZONTAL POSITION WHEN THE CHISEL PLOW IS IN MOTION. IF THE JACK IS IN A VERTICAL POSITION, IT MAY STRIKE THE GROUND OR AN OBSTRUCTION ON THE GROUND, CAUSING SEVERE DAMAGE TO THE JACK.

DEPTH GAUGE INSTALLATION - See Figure 11

IMPORTANT: NUMBERS ON GAUGE DO NOT REPRESENT CUTTING DEPTH OF CHISEL PLOW, THEY ARE ONLY USED TO GIVE OPERATOR A REFERENCE POINT TO DETERMINE APPROXIMATE CUTTING DEPTH OR ON THE GO DEPTH ADJUSTMENT.

1. Secure depth control indicator, arrow 1, to the side of the 2" x 4" tube on main frame, with one (1) 5/8" x 4" U-bolt complete with nuts and lockwashers. Place indicator as shown in Figure 11.
2. Secure depth control pointer, arrow 2, to the top of rockshaft with one (1) 3/8" U-bolt. Align pointer so tip of the point is centred on the the ' indicator arrow 1. Then position as desired, keep in mind that the pointer will move down towards top of frame as chisel plow is raised to transport position. Be sure pointer is not positioned too low so it will bind on frame causing damage to pointer.

FIG. 11



FILLING HYDRAULIC CYLINDERS

IMPORTANT: INSURE ALL HYDRAULIC CONNECTIONS ARE TIGHT AND ALL PIPE AND HOSES ARE UNDAMAGED BEFORE FILLING THE HYDRAULIC SYSTEM WITH OIL.

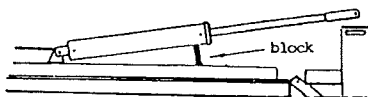
1. Check the hydraulic fluid level in the tractor reservoir and top up if necessary.
2. SEE FIG. 10. Thread all the hoses through the hose retainers, arrow 11, on the hitch tube ass'y, and then through the hose support, arrow 6.
3. See Figure 3 & 4. Install male tips (not supplied) on all four (4) hydraulic hoses, arrows 14, 16 & 17 and plug the tips into the tractor's hydraulic couplers.

IMPORTANT: INSURE ALL HOSES ARE NOT KINKED, TWISTED OR DAMAGED.

IMPORTANT: TO PREVENT EXCESSIVE TRACTOR OIL EXPANSION WHICH COULD CAUSE THE TRACTOR'S OIL RESERVOIR TO OVER FLOW, OIL SHOULD BE PUMPED INTO THE BARREL END OF THE CYLINDERS FIRST.

4. Extend and retract the cylinders several times to fill them with oil and to bleed the system of air. The shaft ends of the wing lift cylinder should not be pinned so the cylinders can be activated without raising wings.

IMPORTANT: WHEN ATTACHING THE SHAFT ENDS OF THE WING LIFT CYLINDERS TO THE LUGS, BE SURE THE CYLINDER SHAFT DOES NOT STRIKE THE CYLINDER LUGS. SERIOUS DAMAGE MAY OCCUR TO THE CYLINDER IF THE CYLINDER SHAFT STRIKES THE CYLINDER LUGS. BEFORE EXTENDING THE CYLINDER SHAFTS, BLOCK UP THE CYLINDER SO THAT THE CYLINDER SHAFT PASSES OVER THE CYLINDER LUG. AS SHOWN BELOW.



5. Extend the cylinders when they are full of oil. Install all shaft ends in the cylinder lugs with the cylinder pins and secure with the cotter pins.



CAUTION: ALWAYS WEAR GLOVES AND EYE PROTECTION WHEN SEARCHING FOR LEAKS IN THE HYRAULIC SYSTEM. USE A PIECE OF WOOD OR CARDBOARD AS A BACKSTOP AGAINST SPURTING FLUID. SEE A PHYSICIAN IMMEDIATELY IF YOU ARE INJURED BY HYDRAULIC FLUID UNDER PRESSURE.



CAUTION: INSURE THE CYLINDERS ARE COMPLETELY FILLED WITH OIL BEFORE CONNECTING THE ROD ENDS. IF THE WING CYLINDERS ARE NOT COMPLETELY FILLED WITH HYDRAULIC OIL, THE WINGS MAY FREE-FALL, CAUSING SERIOUS INJURY TO PERSONNEL AND DAMAGE TO THE CHISEL PLOW.

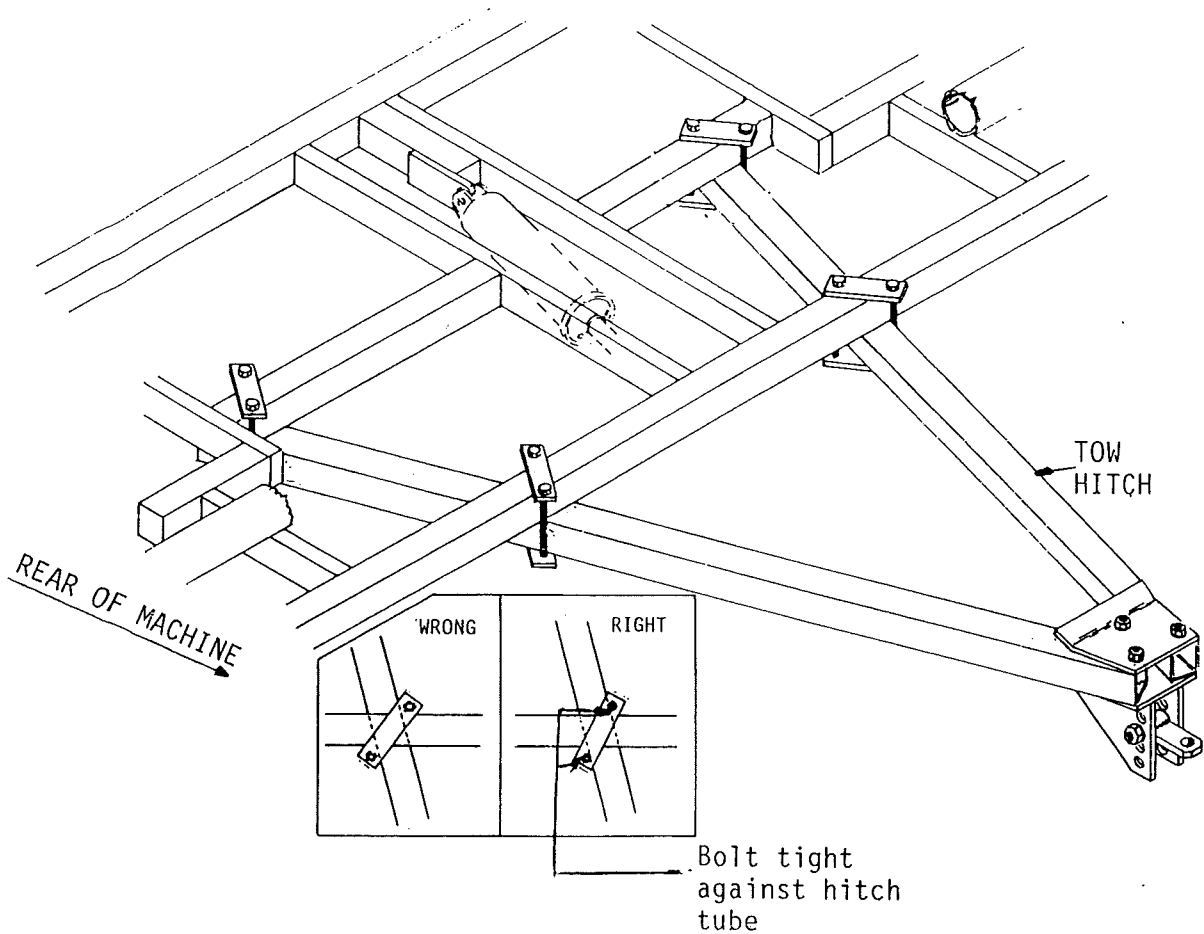


CAUTION: BEFORE APPLYING PRESSURE TO THE HYDRAULIC SYSTEM, BE SURE ALL CONNECTIONS ARE TIGHT AND THE COMPONENTS ARE NOT DAMAGED.



CAUTION: DO NOT RAISE OR LOWER THE MAIN OR WING FRAMES UNTIL ALL COMPONENTS ARE SECURELY TIGHTENED, LOOSE COMPONENTS WILL CAUSE SERIOUS DAMAGE TO THE CHISEL PLOW AND SERIOUS INJURY OR DEATH TO YOU AND PERSON(S) NEARBY IF THE MAIN OR WING FRAMES FELL.

FIG. 12



TOW HITCH INSTALLATION - (OPTIONAL) SEE FIG. 12

- (1) See Fig. 12 Place tow hitch assembly at bottom of center section frame at rear of chisel plow. Place tow hitch under the 2 rear bars of the frame. Spread bars of hitch so they clear shank assemblies. Be sure tongue of tow hitch is center on chisel plow.
- (2) If chisel plow is equipped with 4 bar mounted harrows, move tow hitch out as far as possible. If chisel plow is equipped with 3 bar mounted harrow, tow hitch can be moved in 6".
- (3) See Fig. 12 Next clamp tow hitch to frame with (2) clamp plates, 1" x 10" bolts, c/w nuts and lockwashers. Position clamp plates and bolts so 1" x 10" bolts are tight against hitch tube.

FINAL CHECKS

1. Insure all mounting hardware is properly tightened.
2. Install grease fittings in all walking beams and rockshaft bearings, then lubricate all grease points.
3. Check the shank arrangement for proper location.
4. Check the hydraulic system for leaks.
5. Operate the wing lift and rockshaft cylinders to check for proper functioning.
6. Check wheel bolt torque.
7. Check the tire pressure.
8. Check to make sure the chisel plow is level when in the ground. Refer to Section 3.
9. Be sure all hydraulic cylinders are full of oil before activating them.



CAUTION: BE SURE ALL BOLTS AND HYDRAULIC FITTINGS ARE TIGHT, AND ALL COTTER PINS ARE INSTALLED IN THE SLOTTED NUTS AND PINS.

3. Operation & Field Adjustments

OPERATION

1. Remove the wing lock-up pins so that the chisel plow wings can be lowered.
2. Fully extend the wing lift cylinders to lower the wings to field operating position. If the cylinders are not fully extended, the wings will hang on the cylinders, and will not flex.

NOTE: After the wing tires have touched down, continue to hold down the hydraulic lever. There is a short pause before the cylinders fully extend.

3. Insure that the tractor drawbar is pinned in the centre position.
4. Insure that the front and rear shovels are level, and the wings are level with the main frame. Set the cutting depth as required. See field Adjustments following.

NOTE: Do not operate the chisel plow with the front shovels cutting deeper than the rear shovels.

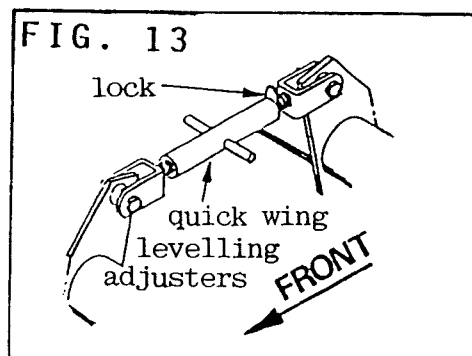
IMPORTANT: INSURE THE HITCH JACK IS PINNED IN THE HORIZONTAL POSITION.

5. Use a tractor speed that will provide the desired soil cutting action.
6. If working conditions are extreme, and wing flexibility is necessary, remove the mounting pins from shaft end of wing cylinders and retract the cylinders.

IMPORTANT: DO NOT CULTIVATE WITH THE WINGS FOLDED IN THE TRANSPORT POSITION. SEVERE DAMAGE MAY OCCUR.

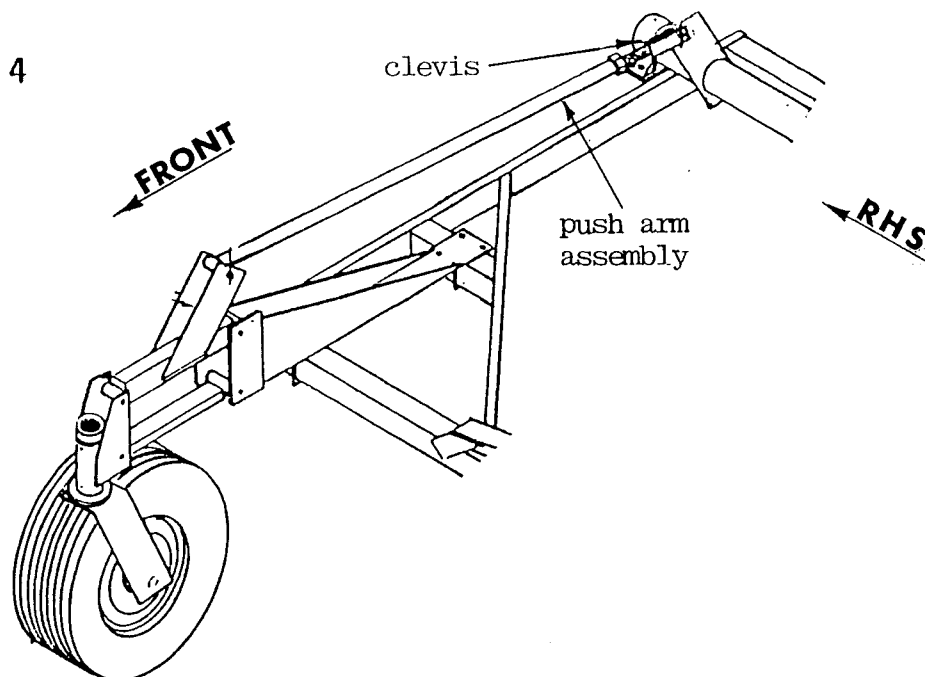
FIELD ADJUSTMENTS: Levelling Adjustments

1. SEE FIGURE 13. To level wing frames with center section, raise or lower wings with quick levelling adjuster, Arrow 1, located between wing rockshaft and intermediate rockshaft.



2. SEE FIGURE 14. To level cultivator from front to rear, raise or lower front of chisel plow by adjusting length of castor wheel links, Arrow 2. In general, when levelling chisel plow from front to rear the wing castor wheels should be adjusted first. Then adjust center section castor wheel so it is at same height as wing castor wheels. The two (2) wing frame castor wheel assemblies usually carry the front of chisel plow when cultivating. The center castor wheel will not carry a great amount of weight. Center castor wheel will only carry load when center section goes over a ridge or when chisel plow is placed in transport position.

FIG. 14



3. When initial levelling adjustments are made, perform the following procedures to check if further adjustments are required:
- (a) Lower chisel plow to ground, close rockshaft cylinder completely raising wheels off ground.
 - (b) Raise chisel plow so front center section shovels are approximately 1" off ground.
 - (c) Check height of shovels at rear of center section and each wing.
 - (d) Adjust linkage as required and repeat section 3.
4. Further adjustments may be required in the field depending on field conditions. If wings are cutting too deep or not deep enough, simply correct with quick levelling adjusters on wings.

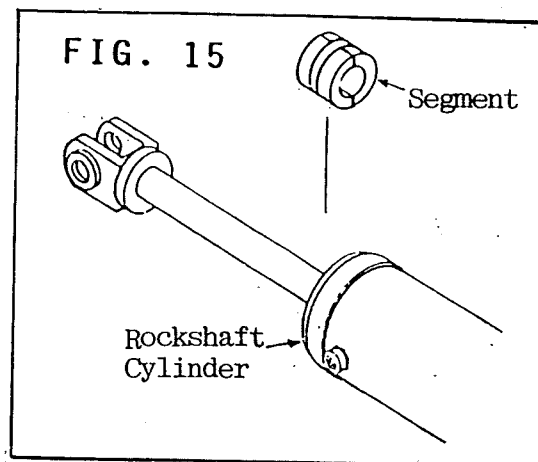
NOTE: Levelling adjusters will be easier to adjust if there is no load on wheels. After adjustments are done be sure to engage lock to prevent levelling adjusters from changing. Lock is engaged by tightening it up against body of levelling adjuster.

IMPORTANT: DO NOT TURN LEVELLING ADJUSTER BY HITTING HANDLES WITH A HAMMER
BODY OF ADJUSTER MAY BE DAMAGED. USE EXTENSION PIPE ONLY.



CAUTION: NEVER STAND BETWEEN THE TRACTOR AND CULTIVATOR WHEN HITCHING CHISEL PLOW TO THE TRACTOR, UNLESS ALL TRACTOR CONTROLS ARE IN NEUTRAL AND THE PARK BRAKE IS SET. THE TRACTOR COULD ROLL BACKWARDS, WHICH COULD RESULT IN SERIOUS INJURY OR DEATH TO YOU OR THOSE NEARBY.

5. See Figure 15. The cutting depth is controlled by installing segment collars on the rockshaft cylinder shaft. Five (5) segments varying in length from 1" to 4-1/4". Install these segments as required.
6. The springs on the shank trip assembly are tightened seven (7) turns on the eye-bolts after the springs become snug. If the shank is disassembled, the spring should be retightened seven(7) turns when reassembling.



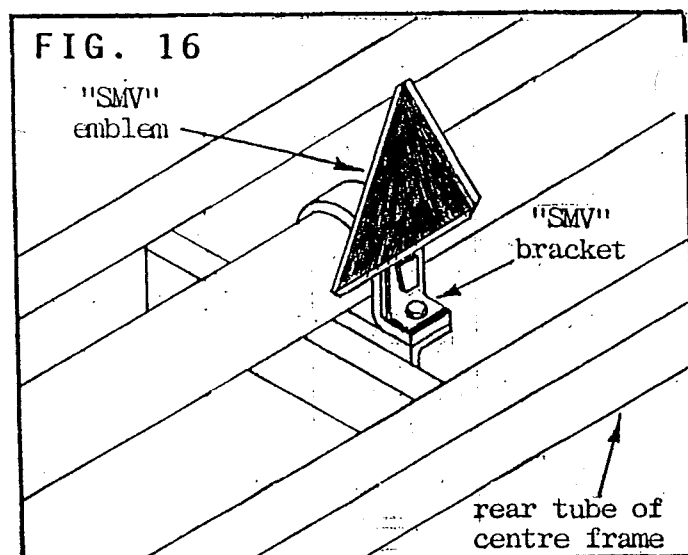
IMPORTANT: BE SURE ALL BOLTS ARE CHECKED PERIODICALLY FOR TIGHTNESS. SPECIAL ATTENTION SHOULD BE GIVEN TO THE 1" PIVOT BOLTS ON THE SHANK TRIP ASSEMBLIES. IF THE BOLTS COME LOOSE, THE TRIP MOUNT BRACKETS COULD BE DAMAGED.



7. SEE FIG. 16. Install the "SMV" emblem (not supplied by Ezee-On) in the "SMV" bracket bolted to the rear rockshaft bearing on centre frame before transporting the chisel plow.



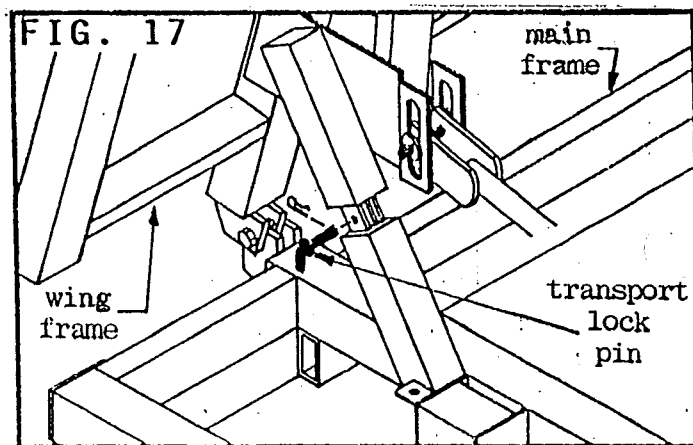
CAUTION: USE THE "SMV" EMBLEM (NOT SUPPLIED BY EZEEO-ON) AND WARNING LIGHTS FOR THE PROTECTION OF THE TRACTOR AND OTHER MOTOR VEHICLE OPERATORS WHEN TRANSPORTING THE CULTIVATOR OVER PUBLIC ROADS. CHECK LOCAL LAWS REGARDING TRANSPORT REGULATIONS.



8. SEE FIG. 17. Install the transport lock pins to lock the wings in the folded position before transporting the chisel plow. See the illustration at the right.



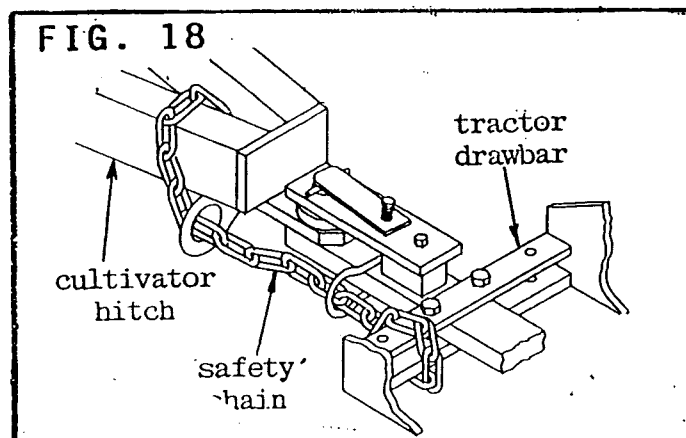
CAUTION: ALWAYS LOCK THE WINGS IN THE FOLDED POSITION WITH THE TRANSPORT LOCKS BEFORE TRANSPORTING THE CHISEL PLOW. SERIOUS DAMAGE TO THE CHISEL PLOW AND SERIOUS INJURY OR DEATH COULD RESULT FROM THE WINGS FALLING DURING TRANSPORT.



9. SEE FIG. 18. Attach a safety chain (with a strength rating greater than the gross weight of the towed cultivator) to the tractor drawbar and the chisel plow hitch before transporting the chisel plow. See the illustration at the right.

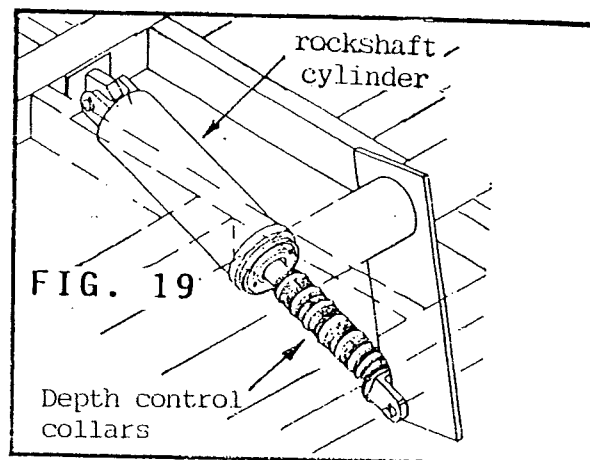


CAUTION: ALWAYS ATTACH A SAFETY CHAIN TO THE TRACTOR DRAWBAR AND THE CHISEL PLOW HITCH BEFORE TRANSPORTING THE CHISEL PLOW. SERIOUS DAMAGE TO THE CHISEL PLOW AND SERIOUS INJURY OR DEATH COULD RESULT FROM THE CHISEL PLOW SEPARATING FROM THE TRACTOR DRAWBAR.



10. SEE FIG. 19 Install all depth control collars on cylinder shaft before transporting the chisel plow. See the illustration at the right.

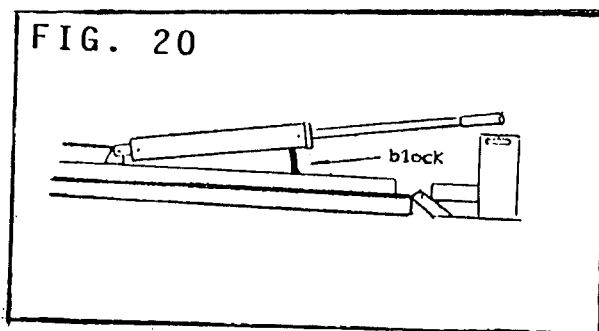
CAUTION: BEFORE TRANSPORTING THE CHISEL PLOW ALWAYS LOCK THE ROCKSHAFT BY INSTALLING ALL THE DEPTH CONTROL COLLARS. IF THE HYDRAULIC SYSTEM FAILED, OR IF THE HYDRAULIC LEVER WAS ACCIDENTLY OPERATED THE CHISEL PLOW COULD DROP, CAUSING SERIOUS INJURY OR DEATH TO YOU OR THOSE NEARBY.



11. SEE FIG. 20 If cultivating conditions are extreme and wing flexibility is necessary, remove the pins from the rod ends of the wing lift cylinders and retract the cylinders (shown in dashed lines at the right). Lay the retracted cylinders on the frame.

When reattaching the wing lift cylinders to the cylinder lugs on the wing frames, be sure to block up the cylinder to allow the shaft end to pass over the cylinder lug.

IMPORTANT: IF THE CYLINDER IS NOT BLOCKED UP, THE SHAFT END MAY STRIKE THE CYLINDER LUG, CAUSING SERIOUS DAMAGE TO THE CYLINDER.



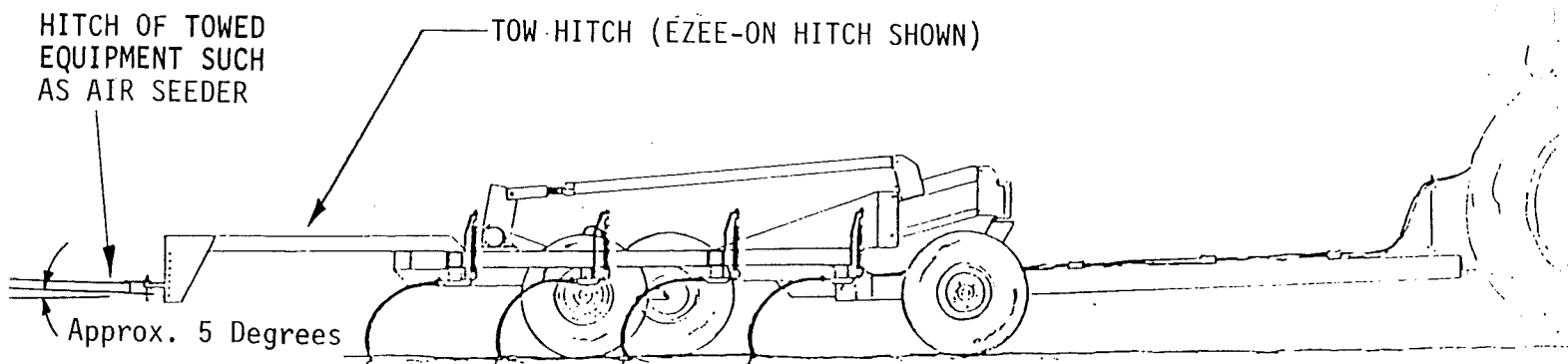
CAUTION: USE EXTRA CARE WHEN OPERATING THE CHISEL PLOW ON HILLSIDES. THE TRACTOR MAY TIP OVER IF IT STRIKES A HOLE, DITCH OR OTHER IRREGULARITY, RESULTING IN SERIOUS INJURY OR DEATH TO THE OPERATOR OR THOSE NEARBY.

CAUTION: NEVER ALLOW ANYONE TO RIDE ON THE TRACTOR DRAWBAR, OR ON THE CHISEL PLOW. THE PERSON RIDING MAY FALL OFF AND BE SERIOUSLY OR FATALLY INJURED.

CAUTION: MACHINERY SHOULD BE OPERATED ONLY BY PERSON(S) RESPONSIBLE AND QUALIFIED TO DO SO.

CAUTION: NEVER ALLOW ANYONE TO CLIMB OR PLAY ON THE CHISEL PLOW. THEY MAY FALL AND BE SERIOUSLY INJURED.

FIG. 21



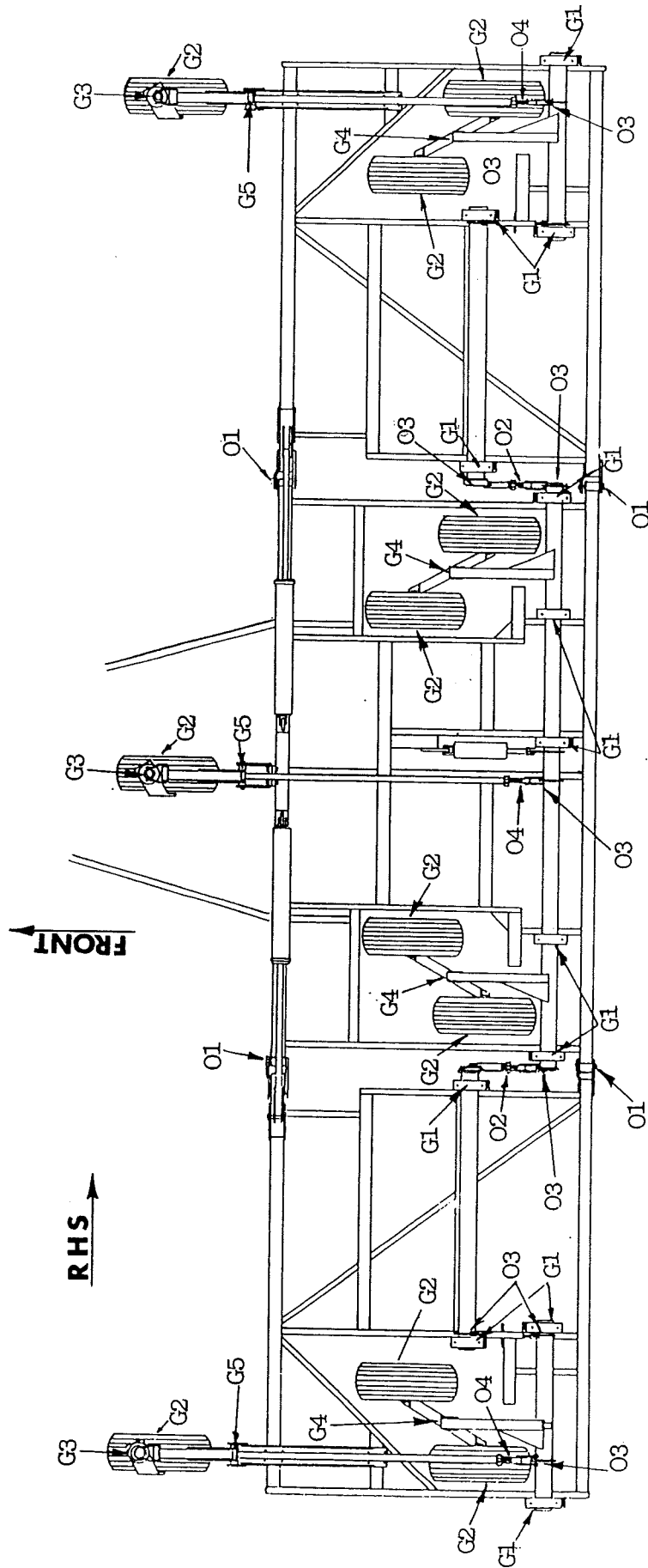
12. TOW HITCH - At Rear of Chisel PLOW

- (a) See Fig. 21 WHEN TOWING EQUIPMENT SUCH AS AN AIR SEEDER BEHIND MODEL 7400 CHISEL PLOW, THE AIR SEEDER HITCH MUST BE ATTACHED LOW ENOUGH SO THE AIR SEEDER HITCH SLOPES DOWN TOWARDS THE CHISEL PLOW AT ABOUT A 5 DEGREE ANGLE. *(EZEE-ON AND DUTCH AIR SEEDERS WITH 2 WHEELS WILL HAVE HITCH SLOPED UP TOWARDS TOW HITCH, HOWEVER THE HITCH MUST STILL BE ATTACHED LOW TO OBTAIN A BALANCED LINE OF DRAFT).
- (b) IF AN AIR SEEDER HITCH IS ATTACHED TOO HIGH IT WILL PULL REAR OF CHISEL PLOW DOWN CAUSING UNEVEN SHANK PENETRATION.
- (c) IF TOW HITCH OTHER THAN EZEE-ON IS USED, IT MAY HAVE TO BE MODIFIED SO TOWED EQUIPMENT CAN BE HITCHED LOWER.
- (d) IF YOU ARE USING HITCH SUPPLIED WITH CEREAL IMPLEMENT'S CHINOOK AIR SEEDER, EZEE-ON HAS A LOWERING KIT AVAILABLE.

! CAUTION: DO NOT EXCEED 10 MPH (16 Km/H) WHEN TRANSPORTING THE CHISEL PLOW ON SMOOTH SURFACES. REDUCE YOUR SPEED ON ROUGH SURFACES. DO NOT TRANSPORT THE CHISEL PLOW WITH ANY OTHER VEHICLE EXCEPT A TRACTOR.

! DANGER!! WHEN TRANSPORTING THE CHISEL PLOW WITH THE WINGS FOLDED (UP) BE SURE THERE IS SUFFICIENT CLEARANCE UNDER ALL POWER LINES AND OTHER OVERHEAD OBSTRUCTIONS. SERIOUS INJURY OR DEATH CAN RESULT FROM CONTACT WITH ELECTRICAL LINES. USE CARE TO AVOID CONTACT WITH ELECTRICAL LINES WHEN MOVING OR TRANSPORTING THE CHISEL PLOW.

FIG. 22



16 SHANK MAIN FRAME SHOWN

4. Lubrication, Maintenance & Storage

LUBRICATION - See Figure 22

Lubricate all lubrication points, arrow "G", with grease as follows:

- G1 - Rockshaft Bearings: Lubricate the rockshaft bearings once a day with a high quality multi-purpose SAE grease.
- G2 - Wheel Bearings: Lubricate the wheel bearings once a day with a high quality multi-purpose SAE grease.
- G3 - Gauge Wheels: Lubricate the pivot points on the gauge wheels once a day with a high quality multi-purpose SAE grease.
- G4 - Walking Beams: Lubricate the pivot bearings on the walking beams once a day with a high quality multi-purpose SAE grease.
- G5 - Push Arm Assemblies: Lubricate the pivot points on the push arm assemblies once a day with a high quality multi-purpose SAE grease.

Lubricate all lubrication points, arrow "O", with oil as follows:

- O1 - Hinge Bolts: Lubricate the pivot points on the push arm assemblies once a day with a high quality multi-purpose SAE grease.
- O2 - Rockshaft Link Threaded Shaft: Lubricate the rockshaft link threaded shaft with oil when dry.
- O3 - Rockshaft Arm Ball Joints: Lubricate the rockshaft ball joints with oil when dry. Ball must be free to pivot in socket. Turn ball in socket after oiling.
- O4 - Push Arm Threaded Shaft: Lubricate the push arm threaded shaft with oil when dry.

MAINTENANCE

1. All bolts and nuts should be checked periodically to make sure they are tight. Special attention should be given to the 1" pivot bolt on the shank trip assemblies. If these pivot bolts come loose, the trip mount bracket could be damaged.
2. Check the tire pressure every ten (10) hours. Maintain equal pressure in all tires. The pressure depends on the chisel plow weight and field conditions. Check the tire thread periodically for nicks, cuts or abrasions.

STORAGE

At the end of the season do the following:

1. Relieve the pressure in all hydraulic cylinders. Disconnect the hydraulic hoses from the tractor and cap them.
2. Clean the chisel plow and shanks. Coat shanks and shovels with oil or a rust preventative.
3. Cover the cylinders and hoses with a weatherproof material if the chisel plow is to be stored outdoors. Coat all exposed cylinder shafts with grease.
4. Set planks under each wheel.
5. Lubricate all grease points.
6. Check the chisel plow for worn or damaged parts. Replace these parts during the off season.
7. Touch up any scratches with Ezee-On paint.
8. Replace any destroyed, missing or illegible decals.



CAUTION: KEEP ALL SAFETY DECALS CLEAN AND IN GOOD CONDITION TO PROVIDE A CONSTANT REMINDER OF SAFE OPERATING PROCEDURES. REPLACE ANY DESTROYED, MISSING OR ILLEGIBLE DECALS.

IMPORTANT

8. **WHEN STORING THE MACHINE FOR THE WINTER, DO NOT LEAVE THE CYLINDERS UNDER HYDRAULIC PRESSURE, ESPECIALLY IF THE CYLINDERS ARE ACTIVATED DURING COLD WEATHER. THE EXPANSION OF OIL WHICH TAKES PLACE WHEN WARM OR HOT WEATHER RETURNS MAY CAUSE SERIOUS DAMAGE TO THE CYLINDER, OIL LINES OR HOSES.**

Safety...

First...

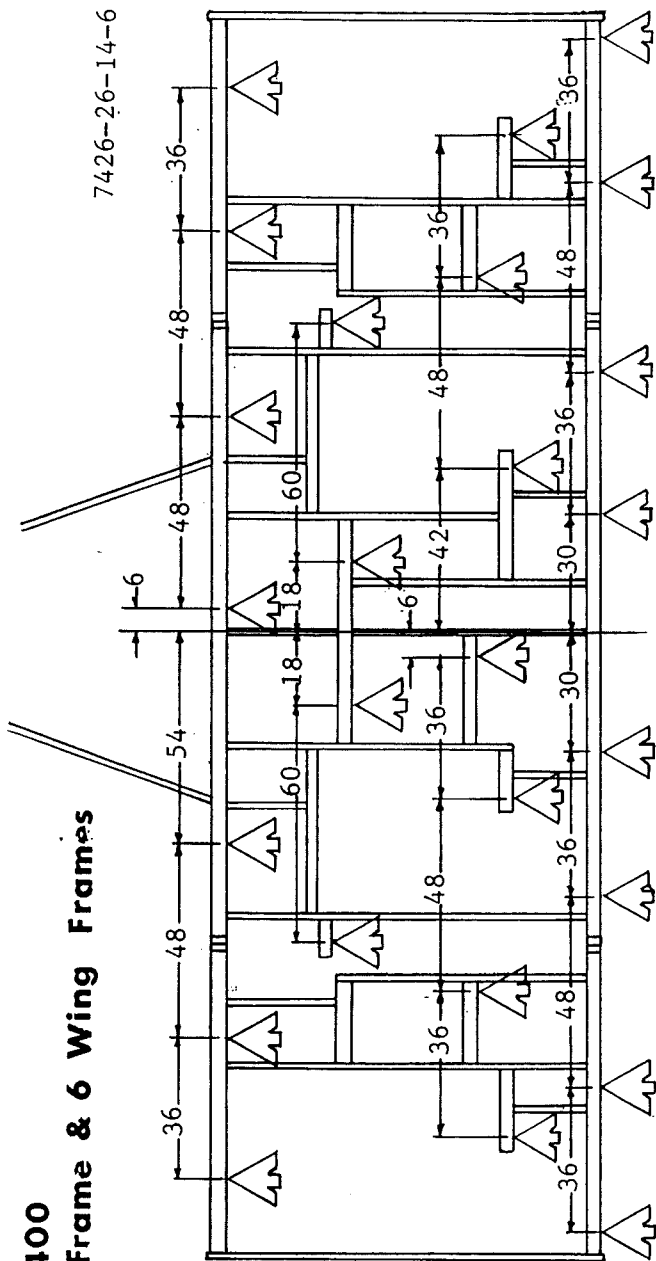


...Last

...Always!!

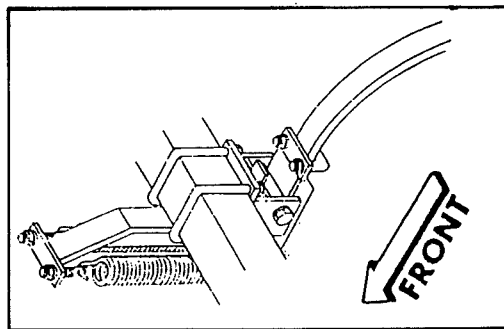
14' Main Frame & 6 Wing Frames

7426-26-14-6 SHOWN

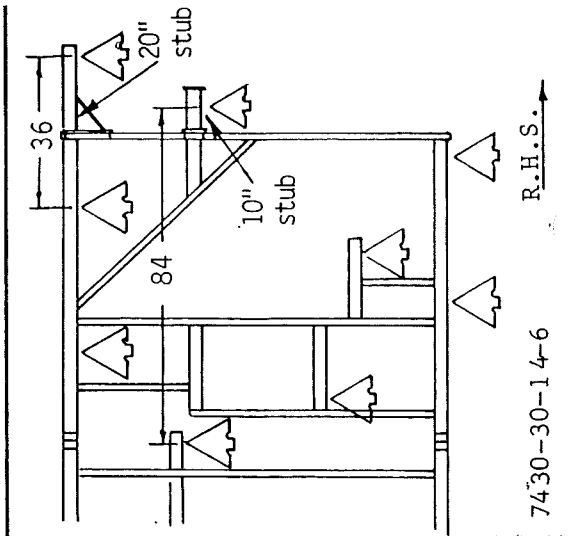
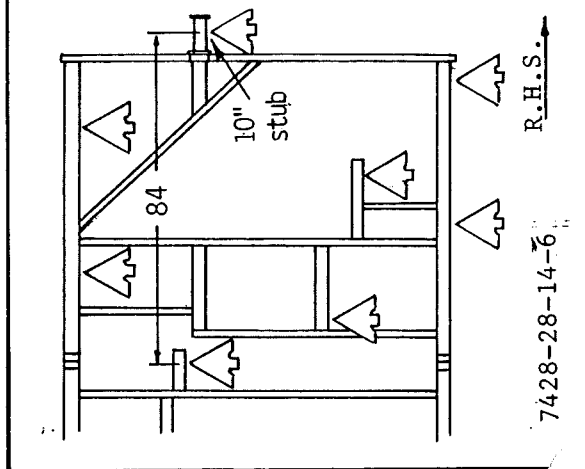


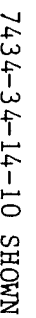
IMPORTANT !!

DO NOT ADD ANY MORE SHANK EXTENSIONS (TO WHAT IS SHOWN BELOW) TO THE WING FRAMES.

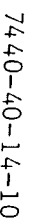
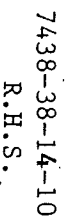
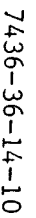


ALL DIMENSIONS ARE IN INCHES



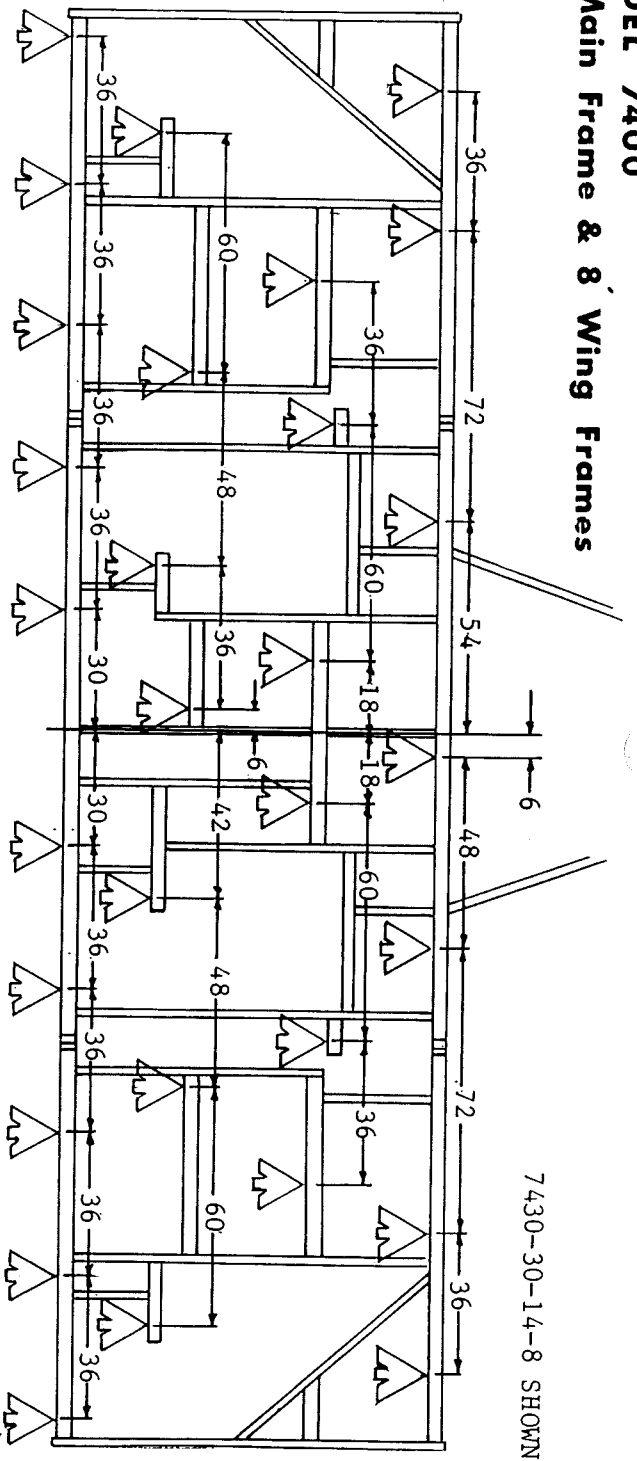


DO NOT ADD ANY MORE SHANK EXTENSIONS (TO WHAT IS SHOWN BELOW) TO THE WING FRAMES.

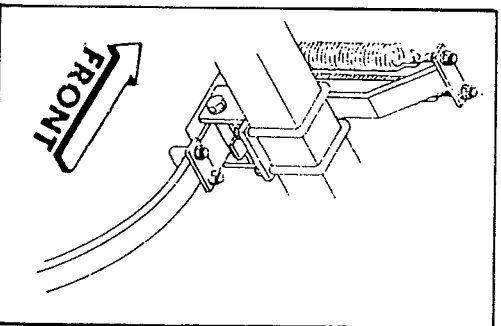


ALL DIMENSIONS ARE IN INCHES

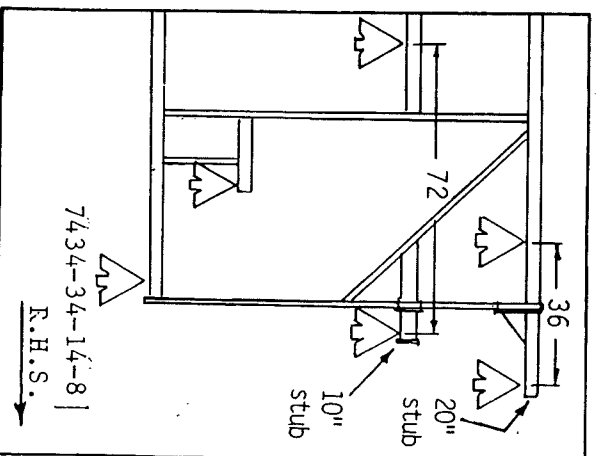
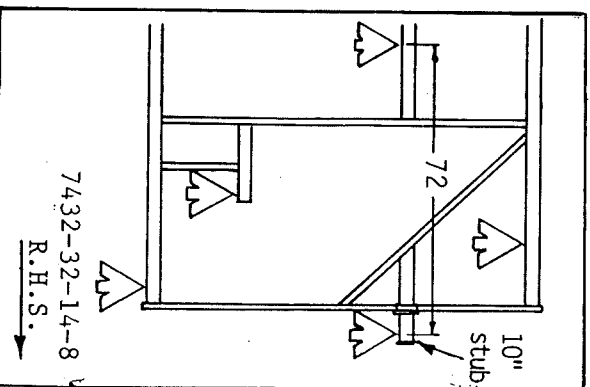
MODEL 7400 14' Main Frame & 8' Wing Frames



IMPORTANT !!
DO NOT ADD ANY MORE SHANK EXTENSIONS (TO WHAT IS SHOWN BELOW) TO THE WING FRAMES.

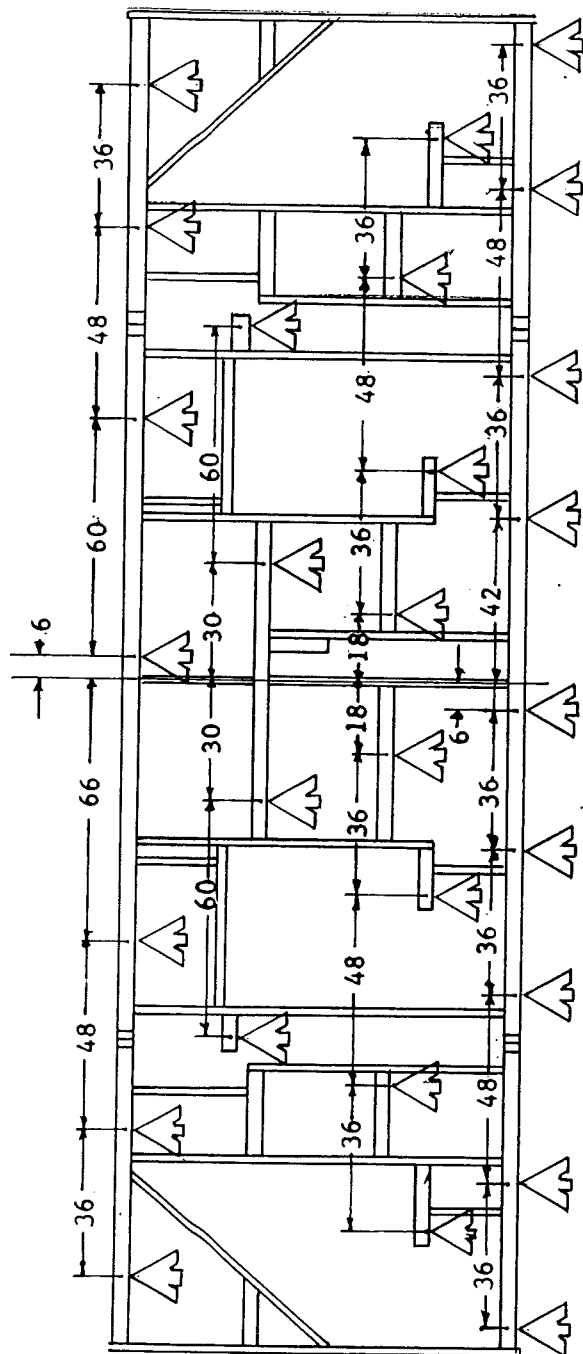


ALL DIMENSIONS ARE IN INCHES



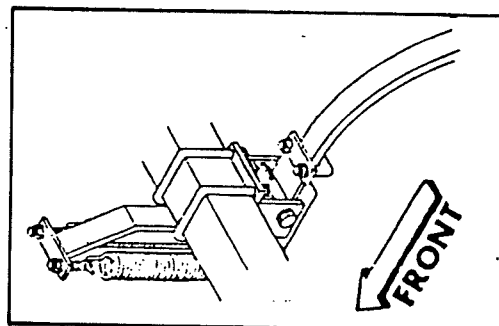
16 Main Frame & 6' Wing Frames

7428-28-16-6

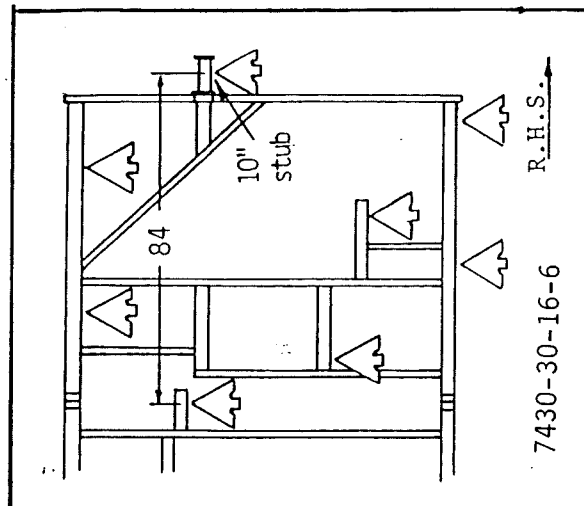


IMPORTANT !!

DO NOT ADD ANY MORE SHANK EXTENSIONS (TO WHAT IS SHOWN BELOW) TO THE WING FRAMES.



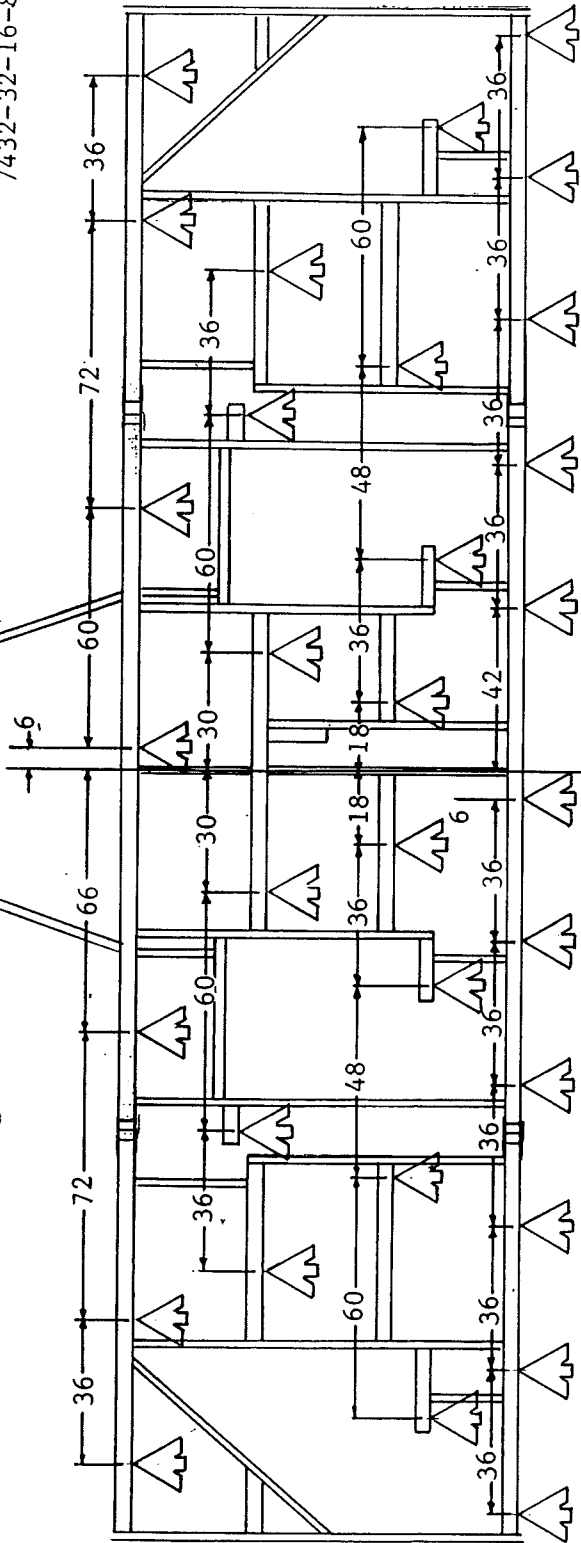
ALL DIMENSIONS ARE IN INCHES



MODEL 7400

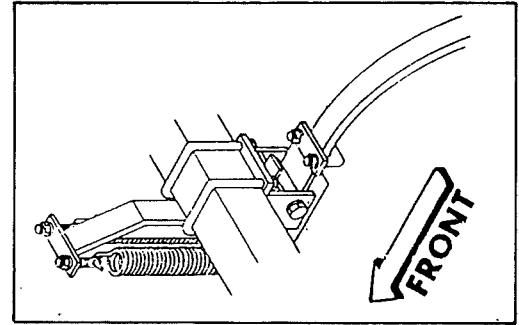
16' Main Frame & 8' Wing Frames

7432-32-16-8 SHOWN

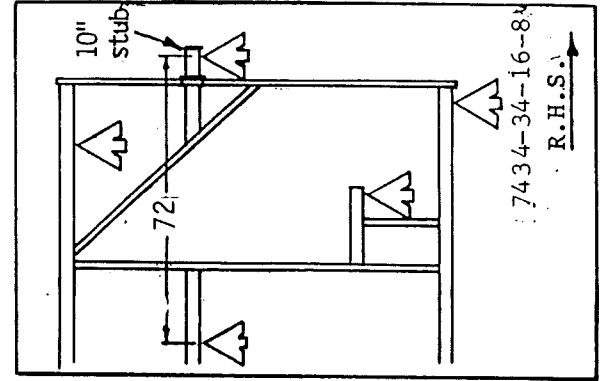


IMPORTANT !!

DO NOT ADD ANY MORE SHANK EXTENSIONS (TO WHAT IS SHOWN BELOW) TO THE WING FRAMES.

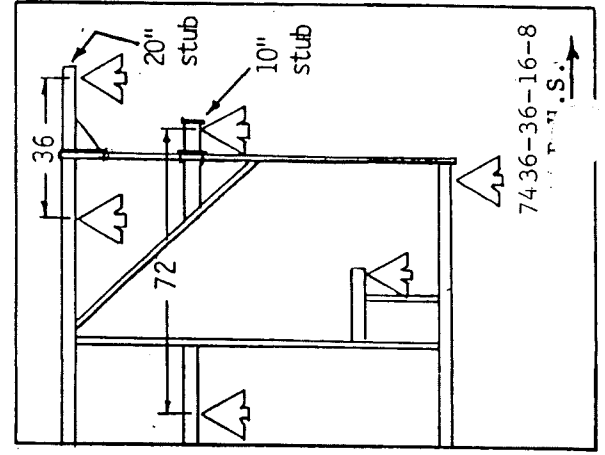


ALL DIMENSIONS ARE IN INCHES



7434-34-16-8

R.H.S.



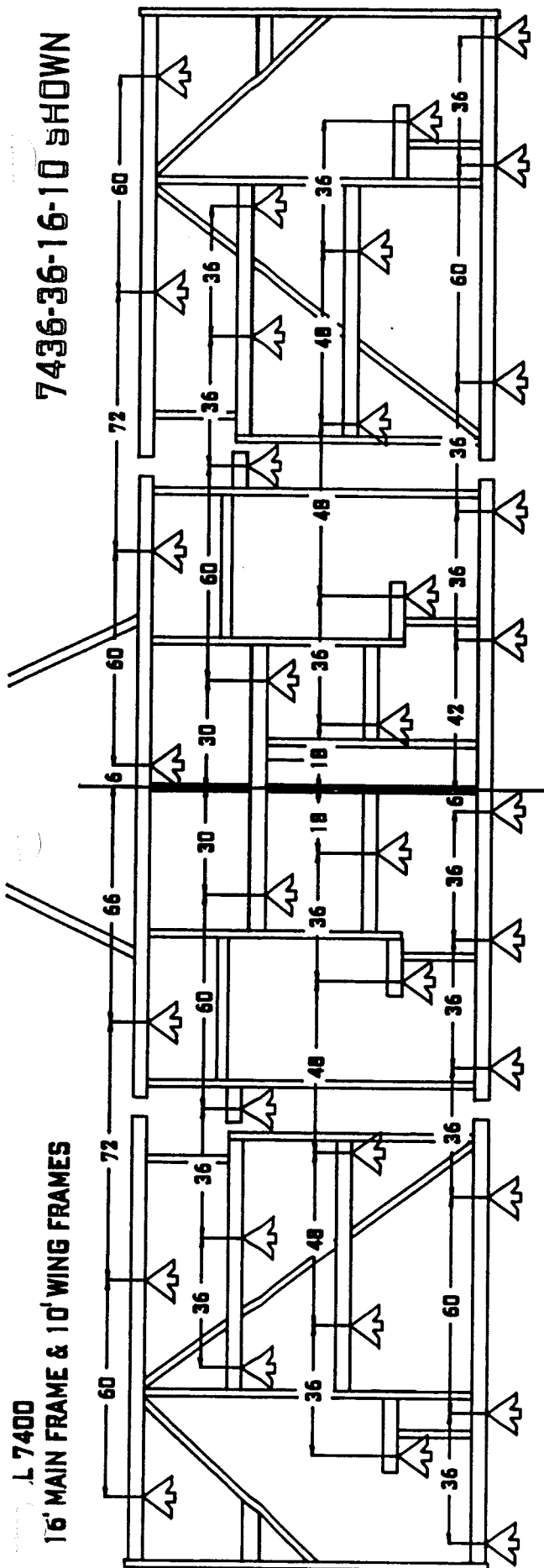
7436-36-16-8

L.H.S.

L 7400

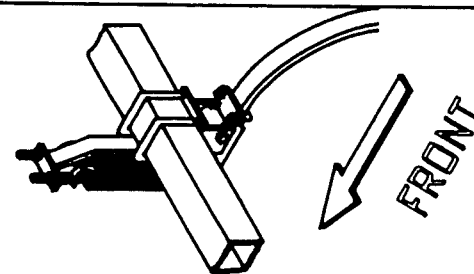
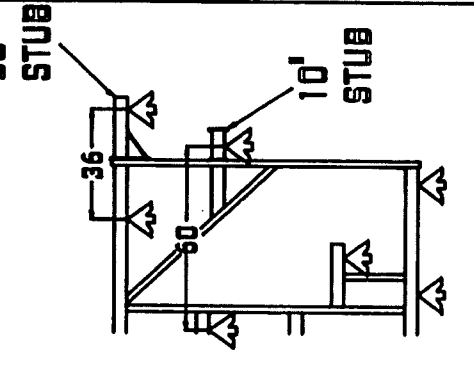
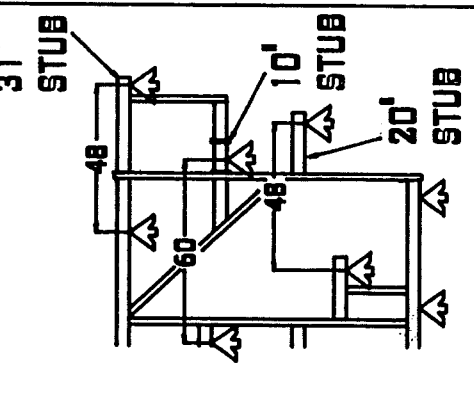
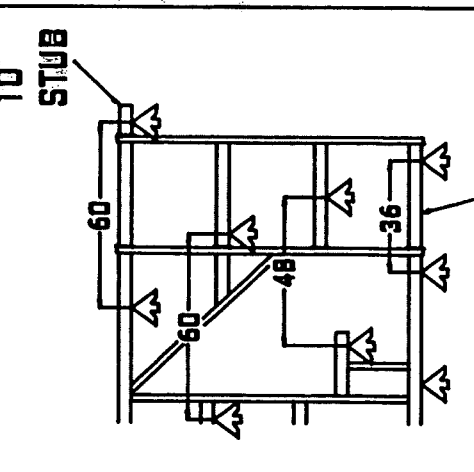
16' MAIN FRAME & 10' WING FRAMES

7436-36-16-10 SHOWN



IMPORTANT !!

DO NOT ADD ANY MORE SHANK EXTENSIONS (TO WHAT IS SHOWN BELOW) TO THE WING FRAMES.

	R.H.S. 7438-38-16-10		R.H.S. 7440-40-16-10		R.H.S. 7442-42-16-10  R.H.S. 7444-44-16-10
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ALL DIMENSIONS ARE IN INCHES

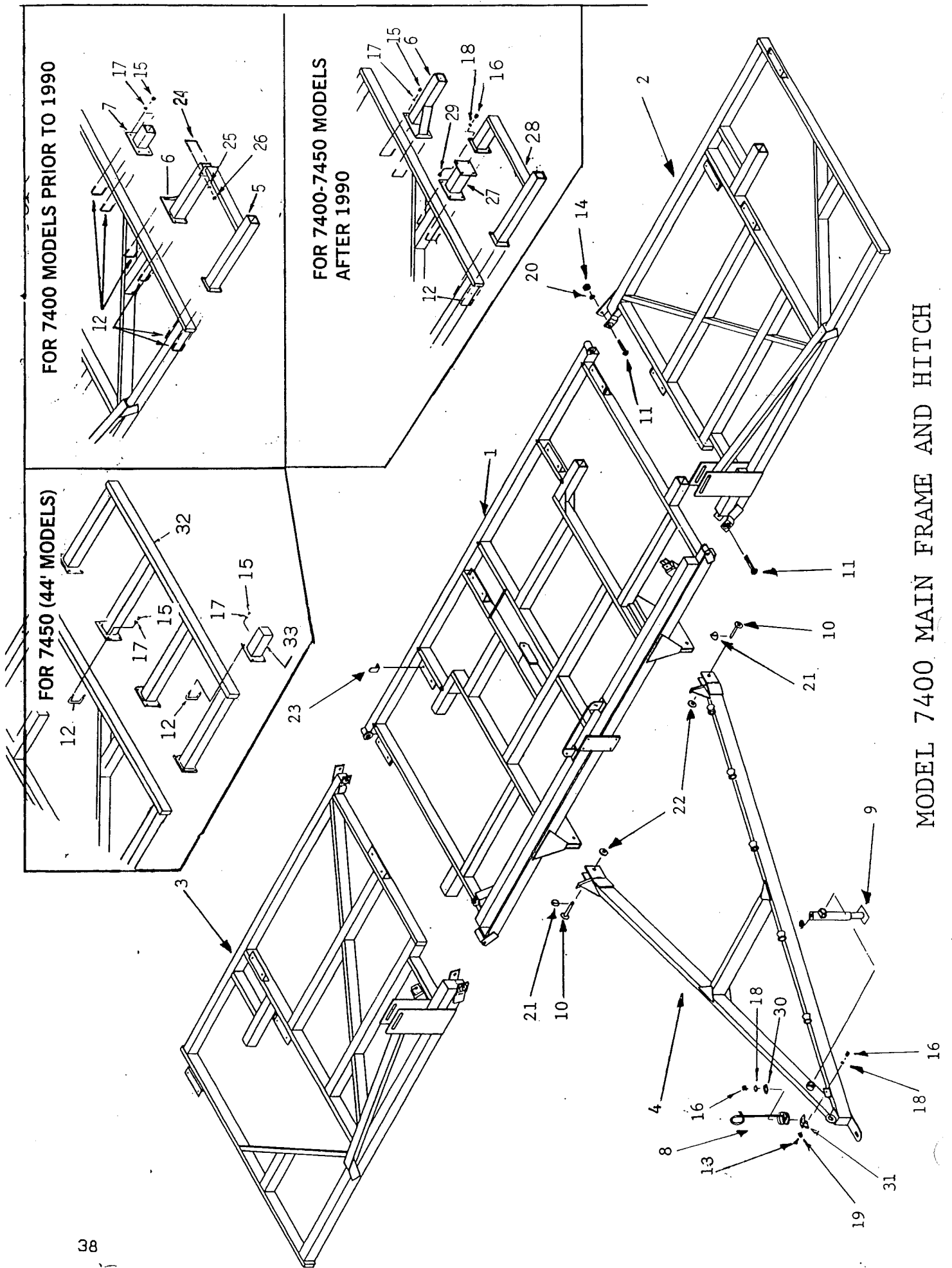
MODEL 7400 CHISEL PLOW
PARTS LIST

FRAME, HITCH and EXTENSIONS	Page 38
ROCKSHAFT, WHEELS and WALKING BEAMS	Page 40
CASTOR WHEEL	Page 43
SHANK ASSEMBLY	Page 45
TOW HITCH (OPTIONAL)	Page 46
TOW HITCH (OPTIONAL) - USED 1990 AND PRIOR	Page 47
HYDRAULIC SYSTEM	Page 49
HYDRAULIC SYSTEM - USED 1990 AND PRIOR	Page 51
ROCKSHAFT CYLINDER	Page 53
WING LIFT CYLINDER	Page 55
CYLINDER SEAL KITS	Page 56

PAINT and DECALS

PART NO.	DESCRIPTION	QTY. REQ'D.
L001	Ezee-On yellow paint - 1 quart can	*
L002	Ezee-On yellow paint - 1/2 pint can	*
L010	Ezee-On decal	7
CH60115	Floating hitch decal	2
DF10050	Red reflector	4
DF10057	Yellow reflector	4
DF9510	Caution decal - large - 3-1/2" x 15"	1
DF9507	Danger decal - 3-1/2" x 15"	2
DF9506	Danger-Caution decal - 2-3/16" x 11-5/8"	1

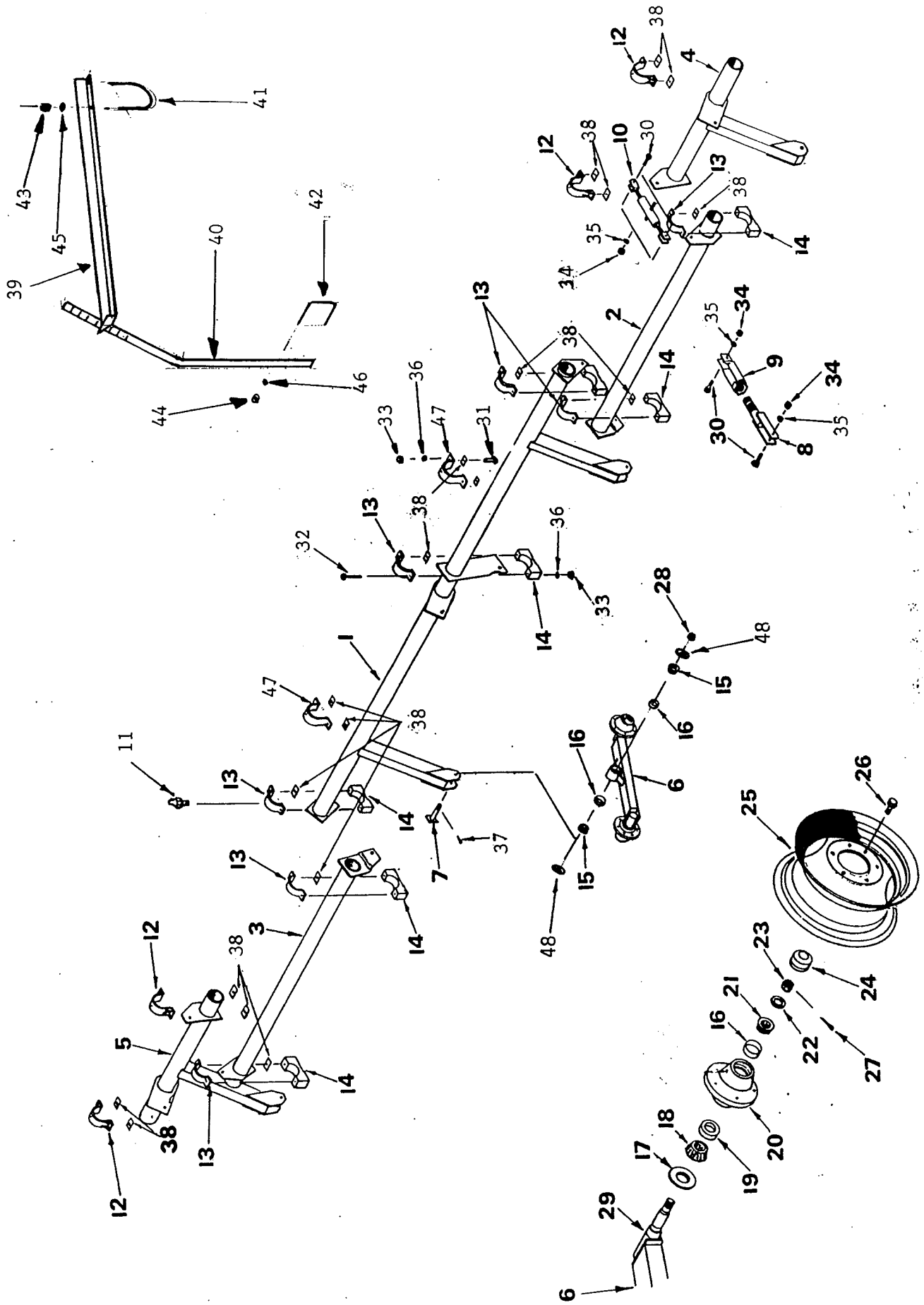
* As required



Model 7400 Chisel Plow Main Frame and Hitch Parts List

Ref. No.	Part No.	Description	Qty Req'd
1	C55001	Main Frame - 16' Model	1
	C55036	Main Frame - 14' Model	1
2	C55051	10' L.H. Wing Frame	1
	C55053	8' L.H. Wing Frame	1
	C55055	6' L.H. Wing Frame	1
3	C55057	10' R.H. Wing Frame	1
	C55059	8' R.H. Wing Frame	1
	C55061	6' R.H. Wing Frame	1
4	C55101	Long Hitch (for 26' and 28' Models)	1
	C55103	Extra Long Hitch (for 30' and up Models)	1
5	C55115	31" stub extension ass'y (old style prior to 1990)	2
6	C55116	21" stub extension ass'y	2
7	C55117	7" stub extension ass'y (old style prior to 1990)	2
8	DHA9961	Hose Support	1
9	DHB5170	Hitch Jack	1
10	C60101	1-1/4" x 6-3/4" long hitch pin	2
11	C55075	1-1/4" x 7-1/2" hex bolt (drilled for cotter pin)	4
12	C50541	5/8" x 4" x 3-7/16" U-bolt (plated)	*
13		5/8" x 1-1/2" N.C. hex bolt	1
14		1-1/4" N.C. hex bolt	4
15		5/8" N.C. hex nut (plated)	*
16		5/8" N.C. hex nut	*
17		5/8" lockwasher (plated)	*
18		5/8" lockwasher	*
19		1-3/8" O.D. x 11/16" I.D. flatwasher	*
20	C55076	1-1/4" lockwasher	4
21		7/16" lynch pin	2
22		2" O.D. x 1-9/36" I.D. x 1/4" flatwasher	2
23	C50546	"SMV" bracket	1
24	C55203	3/4" x 4-13/16" x 5-5/8" U-bolt	2
25		3/4" lockwashers	4
26		3/4" N.C. hex nuts	4
27	C55119	10" stub extension ass'y	2
28	C55118	31" stub extension ass'y	2
29		5/8" x 2" N.C. hex bolt	8
30		2" O.D. x 11/16" I.D. x 1/4" flatwasher	1
31	C55110	Angle support bracket	1
32		36" stub frame ass'y	2

* As required



Model 7400 Rockshaft, Wheels and Walking Beams

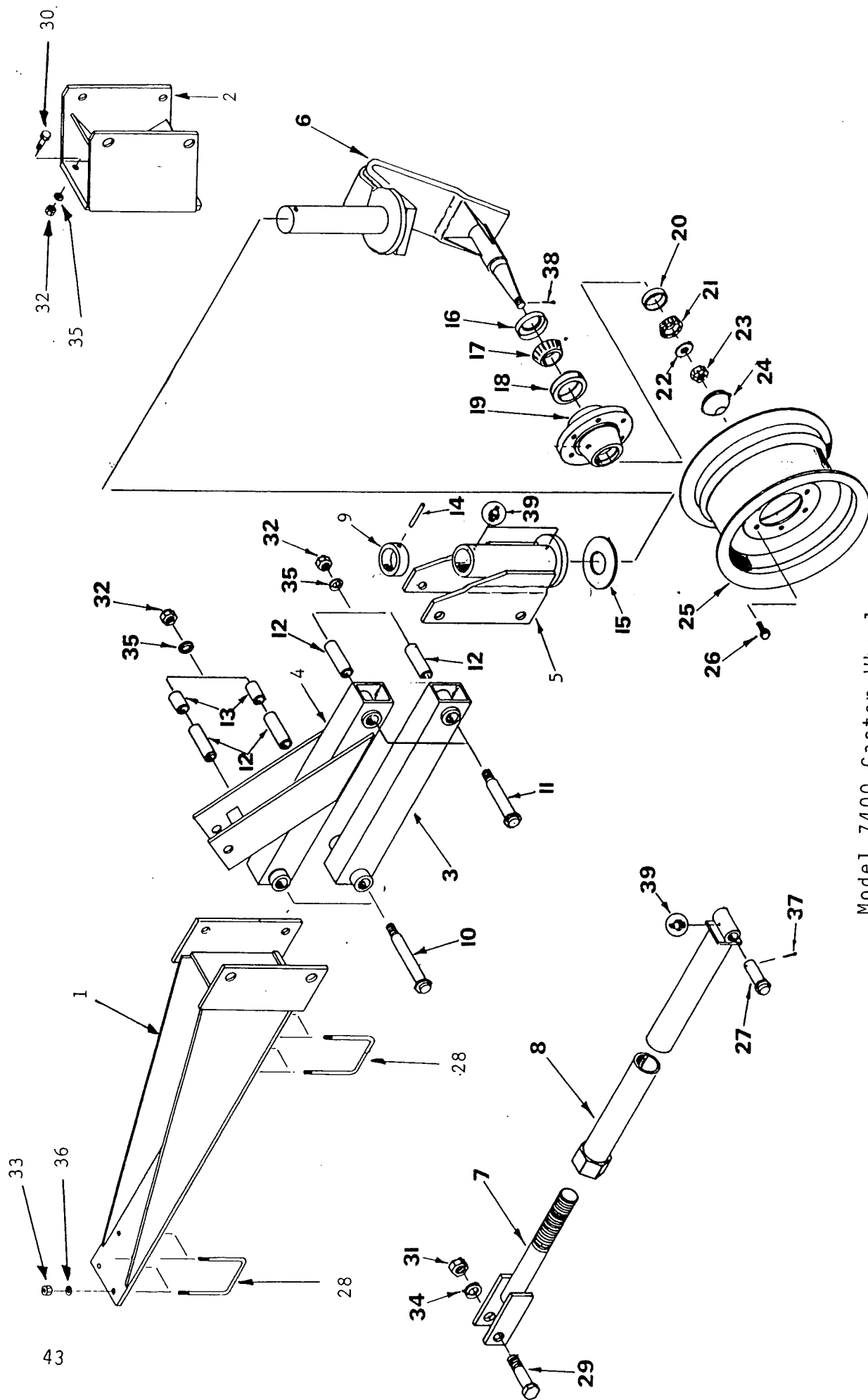
Model 7400 Chisel Plow Rockshaft, Wheel and Walking Beam Parts List

Ref. No.	Part No.	Description	Qty Req'd
1	C55125	16' Main Frame Rockshaft	1
	C55126	14" Main Frame Rockshaft	1
2	C55127	L.H. 10' Intermediate rockshaft	1
	C55128	L.H. 8' Intermediate Rockshaft	1
	C55129	L.H. 6' Intermediate Rockshaft	1
3	C55130	R.H. 10' intermediate Rockshaft	1
	C55131	R.H. 8' Intermediate Rockshaft	1
	C55132	R.H. 6' Intermediate Rockshaft	1
4	C55133	L.H. Wing Frame Rockshaft	1
5	C55134	R.H. Wing Frame Rockshaft	1
6	C55150	L.H. Walking Beam Ass'y	2
	C55151	R.H. Walking Beam Ass'y	2
7	C50695	Walking Beam Pin	4
8	DRA9620	Rockshaft Link - Male half, Adjustable	2
9	C50698	Rockshaft Link - Female half, Adjustable	2
10	C60091	Wing Rockshaft Turnbuckle Ass'y	2
11	10GN1	1/4" x 28 Grease fitting	29
12	C50703	Reinforced Rockshaft bearing	4
13	DR8601-B	Rockshaft Bearing - Top	7
14	DR8601-T	Rockshaft Bearing - Bottom	7
15	C50707	Cone Bearing - LM48500LA	8
16	DR92	Bearing cup - LM48510	8
17	DR122	Grease Seal	8
18	DR120	Cone Bearing - LM25580	8
19	DR118	Bearing cup - LM25520	8
20	DRA9	Hub c/w cups	8
21	DR91	Cone Bearing - LM48548	8
22		12" O.D. x 1-1/16" I.D. x 1/8" thick flatwasher	8
23	DR110	1" N.F. slotted hex. nut	8
24	DR123	Hub Cap	8
25	C60160	15" x 8" 6 bolt rim w/ stem protector	8
26	DR125	9/16" x 1-1/8" N.F. wheel stud	48
27		3/16" x 1-1/4" cotter pin	8
28		1-3/8" N.F. slotted hex. nut	4
29	DR114	Spindle - Weld-on	8
30	DR5215	1-1/4" x 4-1/4" N.C. hex. bolt	8
31		3/4" x 2-1/4" N.C. hex. bolt	12
32		3/4" x 6-1/2" N.C. hex. bolt	14
33		3/4" N.C. hex. nut	8
34		1-1/4" N.C. hex. nut	12

Model 7400 Chisel Plow Rockshaft, Wheel and Walking Beam Parts List

Ref. No.	Part No.	Description	Qty Req'd
35		1-1/4" Lockwasher	8
36		3/4" Lockwasher	26
37		1/4" x 2-1/4" cotter pin	4
38	C50692	Rockshaft Bearing Shim	*
39	C60146	Depth Control Pointer	1
40	C55250	Depth Control Indicator (To bolt to side of frame)	1
41	C60148	Depth Control Pointer U-bolt	1
42	C50541	5/8" x 4" x 3-7/16" U-bolt (plated)	1
43		3/8" N.C. hex. nut	2
44		5/8" N.C. hex. nut (plate)	2
45		3/8" lockwasher	2
46		5/8" lockwasher plate	2
47	C50704	Rockshaft Bearing	2
48	C50177	2-3/8" O.D. x 1-3/8" I.D. x .083 thick machinery bushing	*
	C50178	2-3/8" O.D. x 1-3/8" I.D. x .134 thick machinery bushing	*

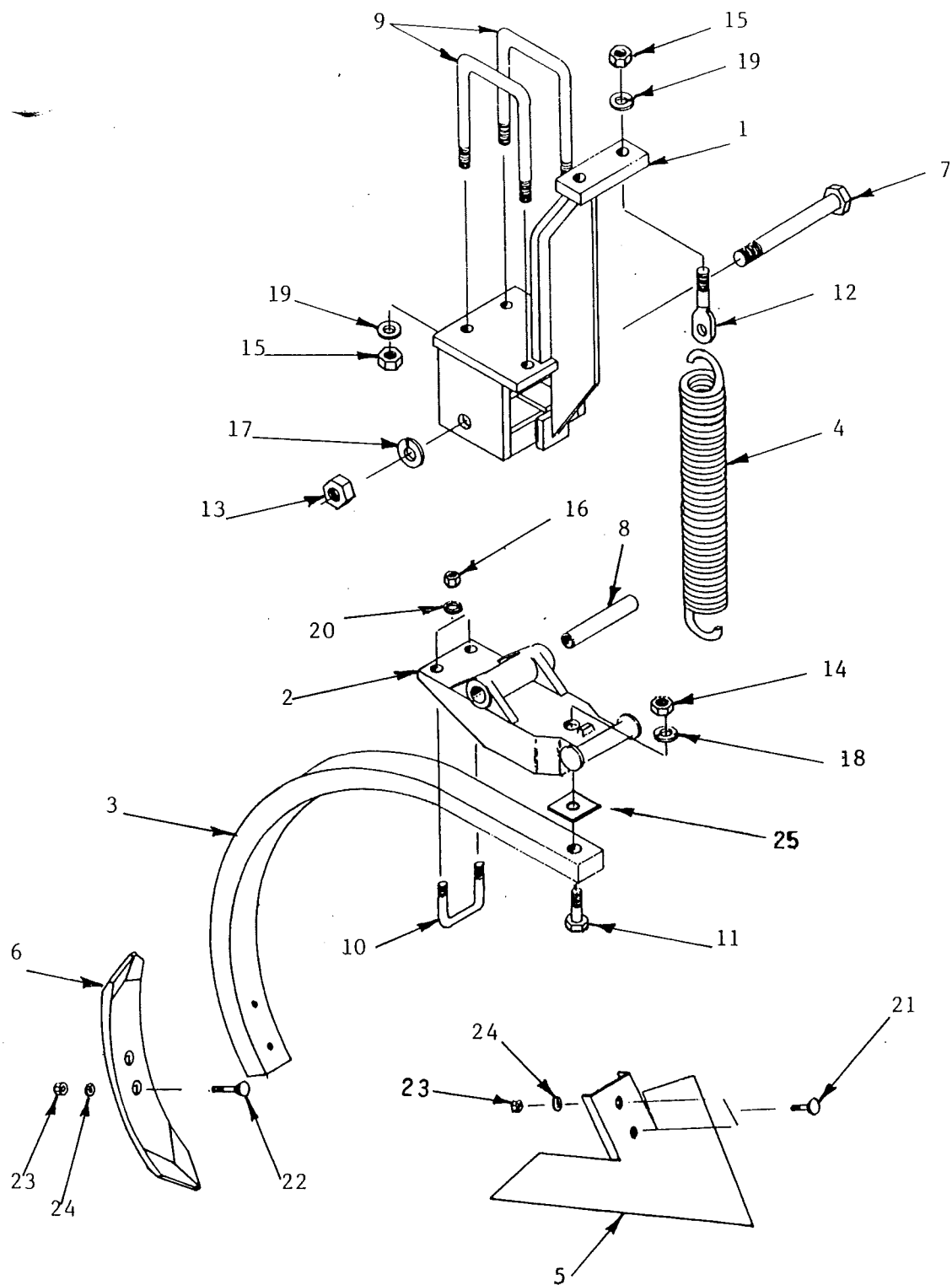
* As Required



Model 7400 Castor Wheel

Model 7400 Chisel Plow Castor Wheel Parts List

Ref. No.	Part No.	Description	Qty Req'd
1	C55230	Castor wheel attaching frame ass'y - wing frame only	2
2	C55231	Castor wheel attaching frame ass'y - main frame only	1
3	C60182	Bottom pivoting arm	3
4	C55232	Top pivoting arm	3
5	C60183	Bearing tube	3
6	C60185	Pivot axle	3
7	C55233	Male half push arm	3
8	C60187	Female half push arm	3
9	C60184	Bearing tube assembly securing ring	3
10	C60189	Rear pivoting pin - 8-1/4" long	3
11	C60190	Front pivoting pin - 6-1/4" long	3
12	C60200	Nylon - graphite bushing - 4" long	12
13	C60202	Nylon - graphite bushing - 2" long	6
14	C60203	Pin	3
15	C60201	Nylon - graphite wear washer	3
16	DR122	Grease seal	3
17	DR120	Cone bearing - #LM25580	3
18	DR118	Bearing cup - #LM25520	3
19	DRA9	Hub c/w cups	3
20	DR92	Bearing cup - #LM48510	3
21	DR91	Cone bearing - #LM48548	3
22		2" O.D. x 1-1/16 I.D. x 1/8" thick flatwasher	3
23	DR110	1" N.F. slotted hex. nut	3
24	DR123	Hub cap	3
25	C60160	15" x 8" 6 bolt rim	3
26	DR125	9/16" x 1-1/8" N.F. wheel stud	18
27	C60191	Front pin - push rod	3
28	DG6080	5/8" x 4" x 5-7/16" long U-bolt	8
29	DR5215	1-1/4" x 4-1/4" N.C. special hex. bolt	3
30		1" x 2-3/4" N.C. hex. bolt	4
31		1-1/4" N.C. hex. nut	3
32		1" N.C. hex. nut	4
33		5/8" N.C. hex. nut	16
34		1-1/4" lockwasher	3
35		1" lockwasher	4
36		5/8" lockwasher	16
37		5/16" x 2" cotter pin	3
38		3/16" x 1-1/4" cotter pin	3
39	10GN1	1/4" x 28 grease fitting	12



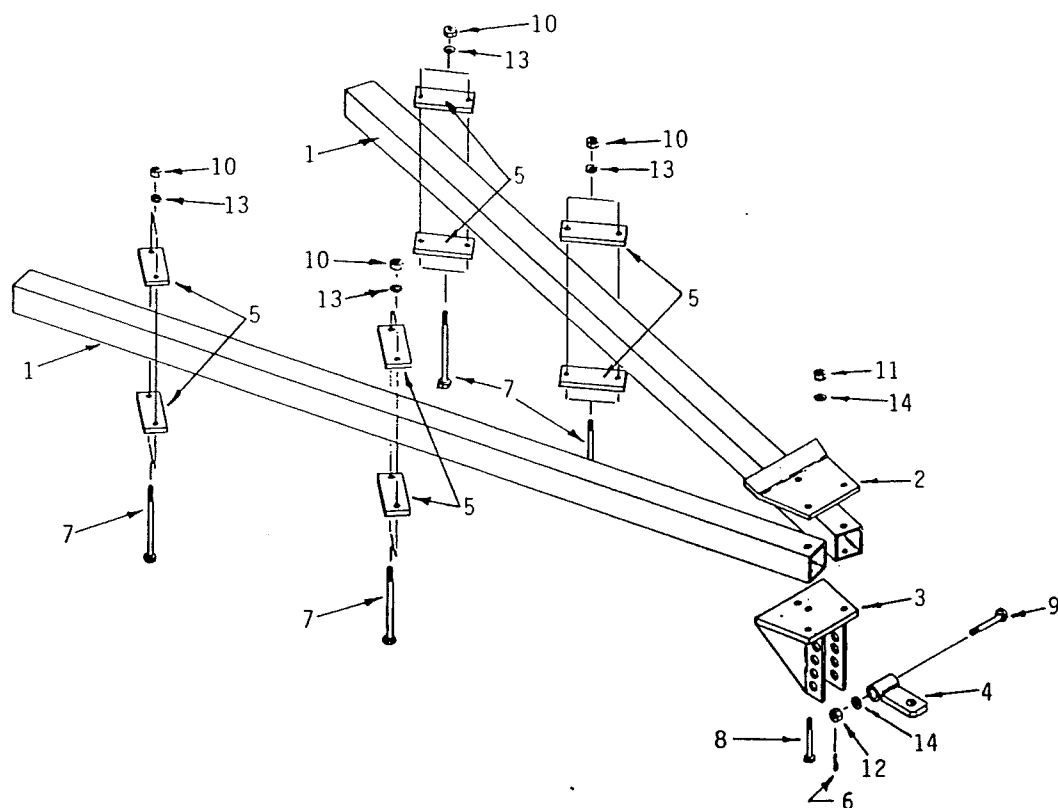
MODEL 7400 SHANK ASSEMBLY

Model 7400 Chisel Plow Shank Assembly Parts List

Ref. No.	Part No.	Description	Qty Req'd
1	C55209	Shank Tower Assembly	*
2	C55208	Shank Holder (cast) c/w bushing	*
3	C55210	Shank - 1-1/4" thick	*
4	C55205	2-3/4" O.D. x 9/16" wire Spring	*
5	C55211	1/4" x 16" Sweep	*
6	C55212	5/8" x 2" x 16" Reversible Spike	*
7	C55206	1" x 7-1/2" N.C. hex. head pivot bolt	*
8	C55201	1-1/4" O.D. x 5" long pivot bushing	*
9	C55203	3/4" x 4" x 5-5/8" long U-bolt	*
10	C55202	5/8" x 2" x 2-3/4" long U-bolt	*
11		7/8" x 3" N.C. hex. bolt	*
12	C55207	3/4" x 4" long spade bolt	*
13		1" N.C. hex. nut	*
14		7/8" N.C. hex. nut	*
15		3/4" N.C. hex. nut	*
16		5/8" N.C. hex. nut	*
17		1" lockwasher	*
18		7/8" lockwasher	*
19		3/4" lockwasher	*
20		5/8" lockwasher	*
21		1/2" x 2-1/4" plow bolt - for 1/4" x 16 sweep	*
22		1/2" x 2-1/2" plow bolt - for reversible spike	*
23		1/2" N.C hex. nut (plated)	*
24		1/2" lockwasher (plated)	*
25	C55221	11 gauge x 2" x 2" shim	*

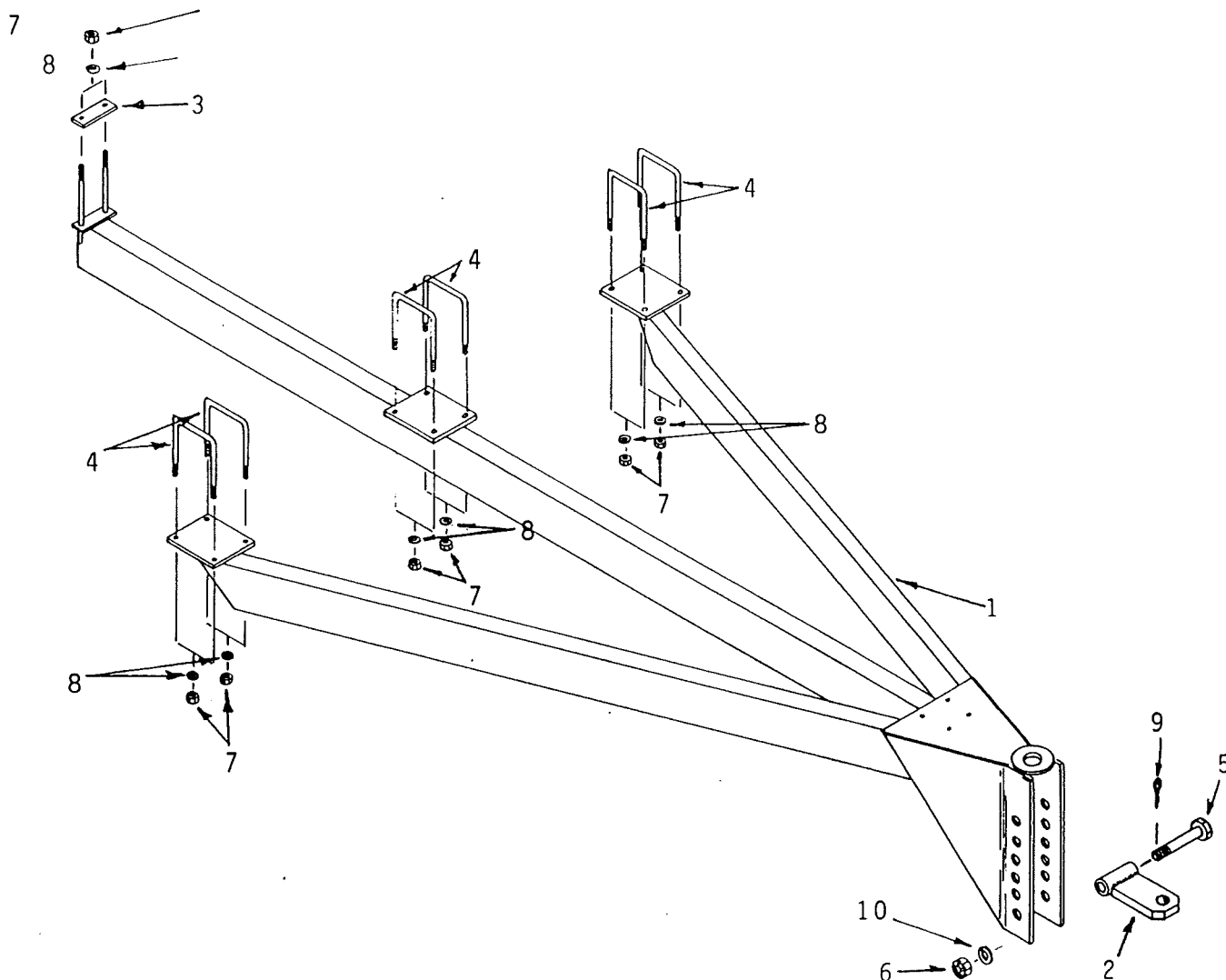
* as required

7400 CHISEL PLOW TOW HITCH



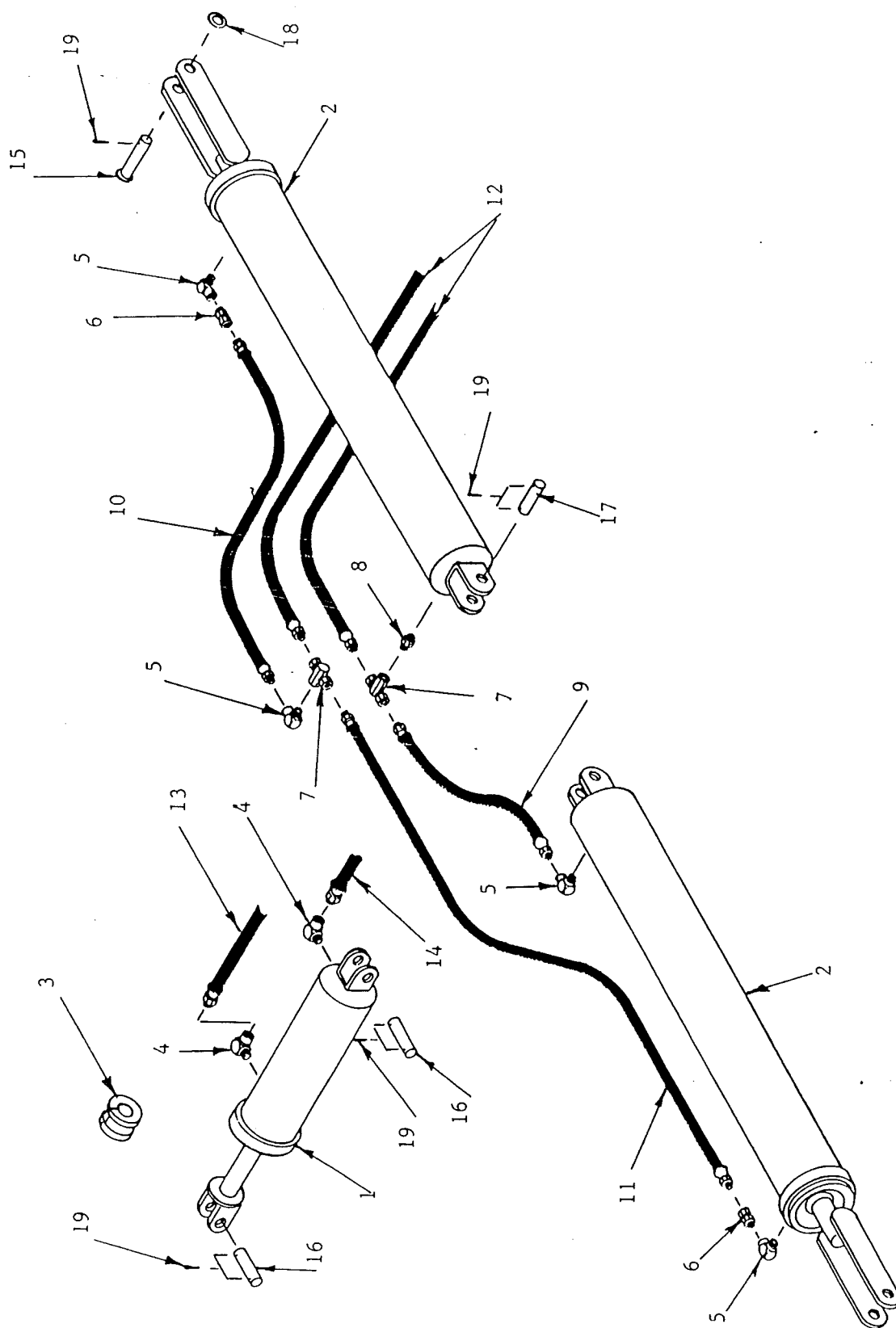
Model 7400 Chisel Plow Tow Hitch (Optional)

Ref. No.	Part No.	Description	Qty. Req'd.
1	C55Z55	Drawbar - L.H. and R.H.	2
2	C55Z56	Top Plate	1
3	CA55Z57	Bottom Hitch Lug	1
4	C55Z59	Tongue	1
5	C55Z60	Clamp Plates	8
6		3/16" x 1-1/2" Cotter Pin	1
7		3/4" x 11" N.C. Hex. Bolt	8
8		1" x 7" N.C. Hex Bolt	3
9	L1630	1" x 5-1/2" N.C. Hex. Bolt (drilled)	1
10		3/4" N.C. Hex Nut	8
11		1" N.C. Hex. Nut	3
12	L1574	1" N.C. Hex. Slotted Nut	1
13		3/4" Lockwasher	8
14		2" O.D. x 1-1/16" I.D. x 3/16" washer	3



Model 7400 Chisel Plow (Optional) - Used 1990 and Prior

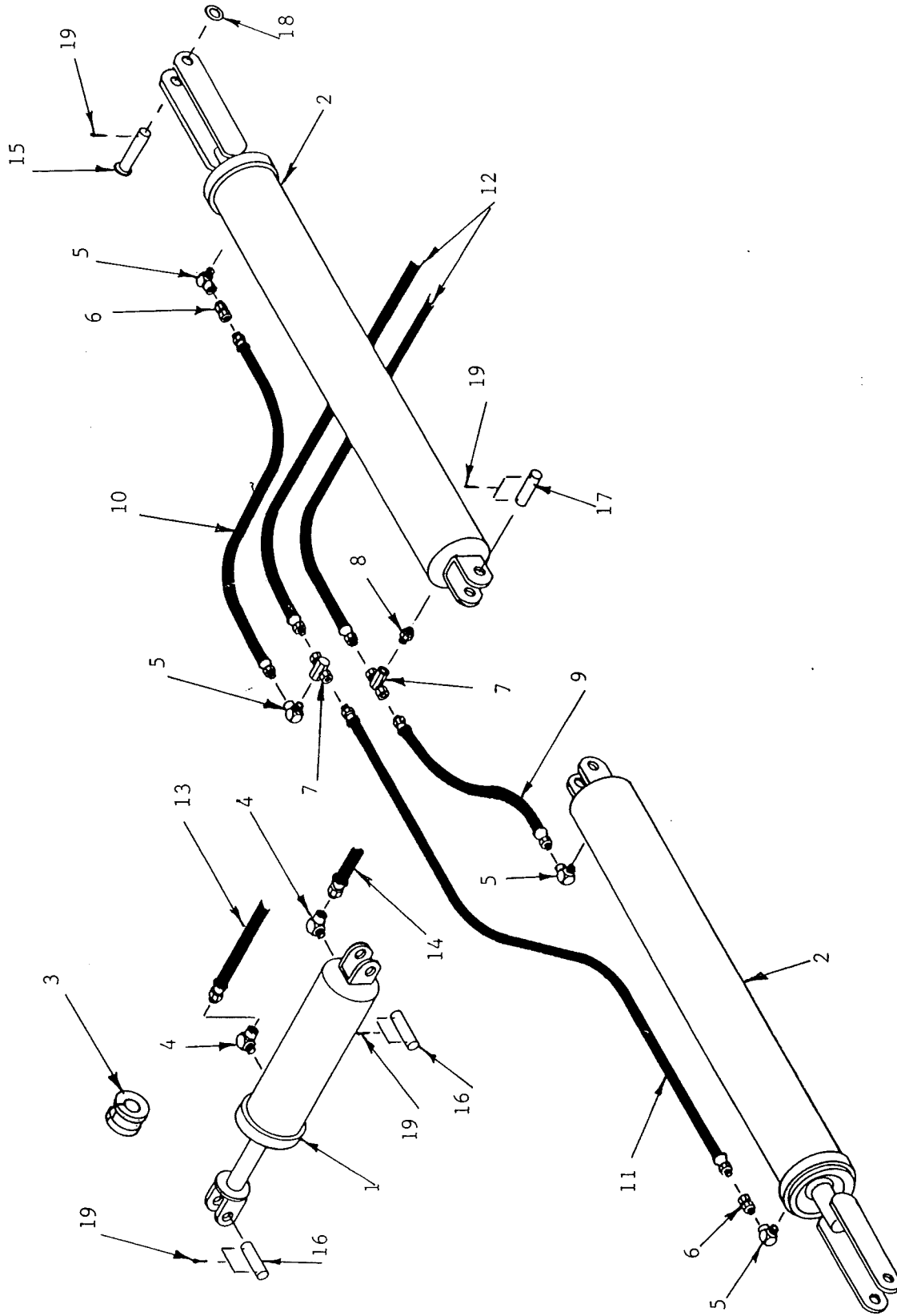
Ref. No.	Part No.	Description	Qty. Req'd.
1		Tow hitch	1
2	C55259	Tongue	1
3	CH60120	Backing Plate	1
4	CS50734	1/2" x 4" x 5-1/4" long U-bolt - plated	6
5	L1630	1" x 5-1/2" N.D. Hex. bolt (drilled)	1
6	L1574	1" N.C. Hex. slotted nut	1
7		1/2" N.C. Hex. nut (plated)	14
8		1/2" Lockwasher (plated)	14
9		3/16" x 1-1/2" cotter pin	1
10		1" Lockwasher	1



MODEL 7400 HYDRAULIC SYSTEM

Model 7400 Chisel Plow Hydraulic System

Ref. No.	Part No.	Description	Qty. Req'd
1	233	5" x 12" rockshaft cyl. w/mechanical depth control	1
2	248	4" x 36" wing lift cyl. used w/6' and 8' wing frames	2
	242	5" x 36" wing lift cyl. used w/10' wing frames	2
3	C50711	Depth control stop ring - 1" long	1
	C50712	Depth control stop ring - 1-1/2" long	1
	C50713	Depth control stop ring - 1-3/4" long	1
	C50714	Depth control stop ring - 2" long	1
	C50715	Depth control stop ring - 2-1/4" long	1
	C50717	Depth control stop ring - 4-1/4"	1
	C50728	All of the above stop rings - 12-3/4" package	1
4	DL9770	1/2" x 90 degree street elbow	2
5	DL5283	3/8" x 90 degree street elbow	4
6	DL5279	3/8" male - female restricted orifice swivel	2
7	DL9767	3/8" swivel tee	2
8	C55161	3/8" male x 3/8" male coupler	1
9	H12	3/8" x 12" hyd. hose (14 shank main frame)	1
	H36	3/8" x 36" hyd. hose (16 shank main frame)	1
10	H36	3/8" x 36" hyd. hose (14 and 16 shank main frame)	1
11	H50	3/8" x 50" hyd. hose (14 shank main frame)	1
	H74	3/8" x 74" hyd. hose (16 shank main frame)	1
12	H306-1-3	3/8" x 306" hyd. hose (one 3/8" end, one 1/2" end) (long hitch)	2
	H348-1-3	3/8" x 348" hyd. hose (one 3/8" end, one 1/2" end) (extra long hitch)	2
13	H354-1	1/2" x 354" hyd. hose (1/2" ends) (long hitch)	1
	H396-1	1/2" x 396" hyd. hose (1/2" ends) (extra long hitch)	1
14	H338-1	1/2" x 338" hyd. hose (1/2" ends) (long hitch)	1
	H380-1	1/2" x 380" hyd. hose (1/2" ends) (extra long hitch)	1
15	C50727	1-1/4" dia. x 6" long pin	2
16	DR5262	1-1/4" dia. x 4-4/3" long pin	1
17	DR5252	1-1/4" dia. x 4-1/4" long pin	2
18	DF5068	1-5/16" I.D. x 2" O.D. x 1/4" thick washer	6
19		1/4" x 2" cotter pin	10

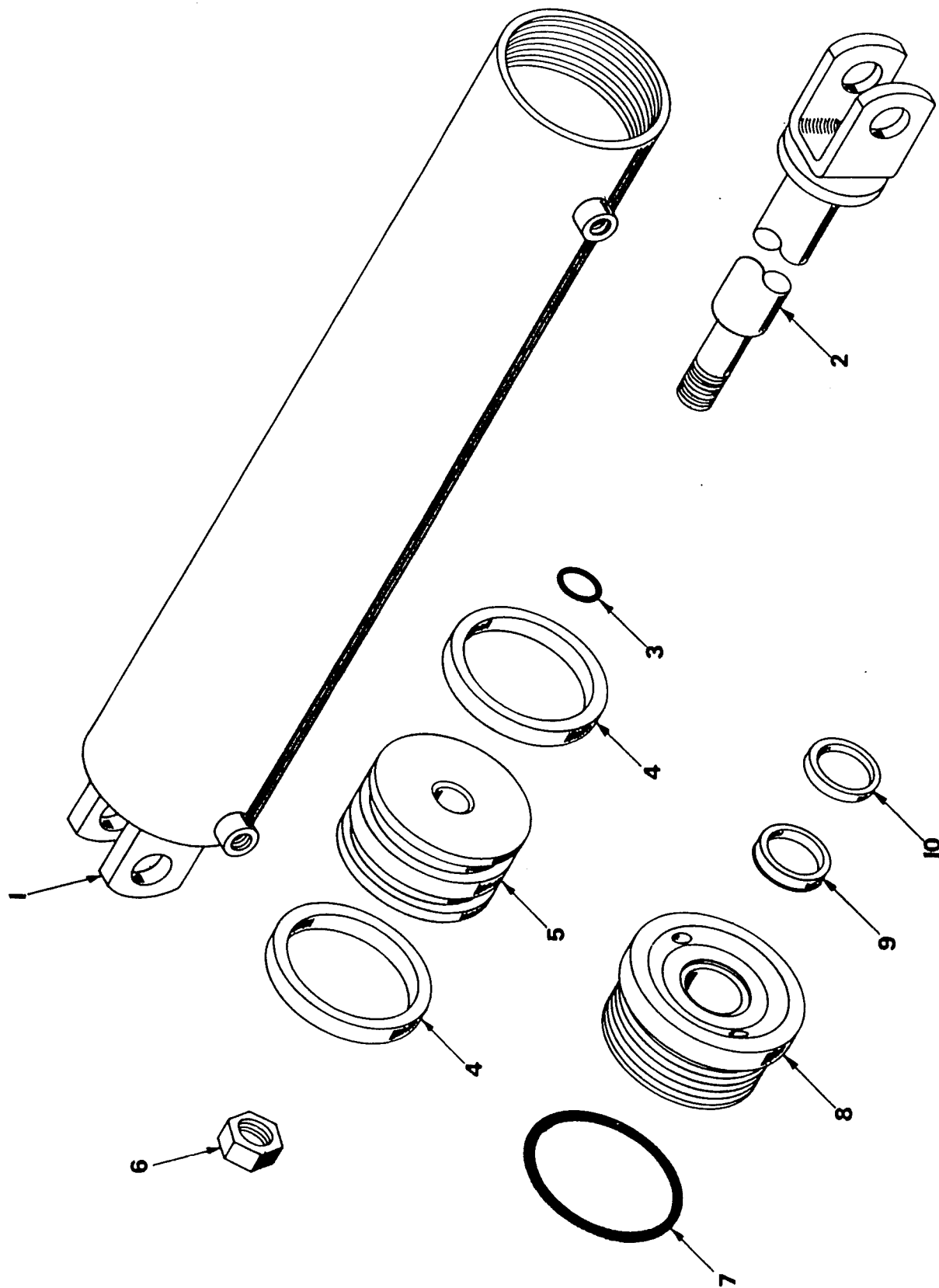


MODEL 7400 HYDRAULIC SYSTEM

USED 1990 AND PRIOR

Model 7400 Chisel Plow Hydraulic System
Used 1990 and Prior

Ref. No.	Part No.	Description	Qty. Req'd
1	233	5" x 12" rockshaft cyl. w/mechanical depth control	1
2	248	4" x 36" wing lift cyl. used w/6' and 8' wing frames	2
	242	5" x 36" wing lift cyl. used w/ 10' wing frames	2
3	C50711	Depth control stop ring - 1" long	1
	C50712	Depth control stop ring - 1-1/2" long	1
	C50713	Depth control stop ring - 1-3/4" long	1
	C50714	Depth control stop ring - 2" long	1
	C50715	Depth control stop ring - 2-1/4" long	1
	C50717	Depth control stop ring - 4-1/4"	1
	C50728	All of the above stop rings - 12-3/4" package	1
4	DL9770	1/2" x 90 degree street elbow	2
5	DL5283	3/8" x 90 degree street elbow	4
6	DL5279	3/8" male - female restricted orifice swivel	2
7	DL9767	3/8" swivel tee	2
8	C55161	3/8" male x 3/8" male coupler	1
9	H12	3/8" x 12" hyd. hose (14 shank main frame)	1
	H36	3/8" x 36" hyd. hose (16 shank main frame)	1
10	H36	3/8" x 36" hyd. hose (14 and 16 shank main frame)	1
11	H50	3/8" x 50" hyd. hose (14 shank main frame)	1
	H74	3/8" x 74" hyd. hose (16 shank main frame)	1
12	H288-1-3	3/8" x 288" hyd. hose (one 3/8" end, one 1/2" end) (short hitch)	2
	H306-1-3	3/8" x 306" hyd. hose (one 3/8" end, one 1/2" end) (long hitch)	2
13	H336-1	1/2" x 336" hyd. hose (1/2" ends) (short hitch)	1
	H354-1	1/2" x 354" hyd. hose (1/2" ends) (long hitch)	1
14	H320-1	1/2" x 320" hyd. hose (1/2" ends) (short hitch)	1
	H338-1	1/2" x 338" hyd. hose (1/2" ends) (long hitch)	1
15	C50727	1-1/4" dia. x 6" long pin	2
16	DR5262	1-1/4" dia. x 4-4/3" long pin	1
17	DR5252	1-1/4" dia. x 4-1/4" long pin	2
18	DF5068	1-5/16" I.D. x 2" O.D. x 1/4" thick washer	6
19		1/4" x 2" cotter pin	10

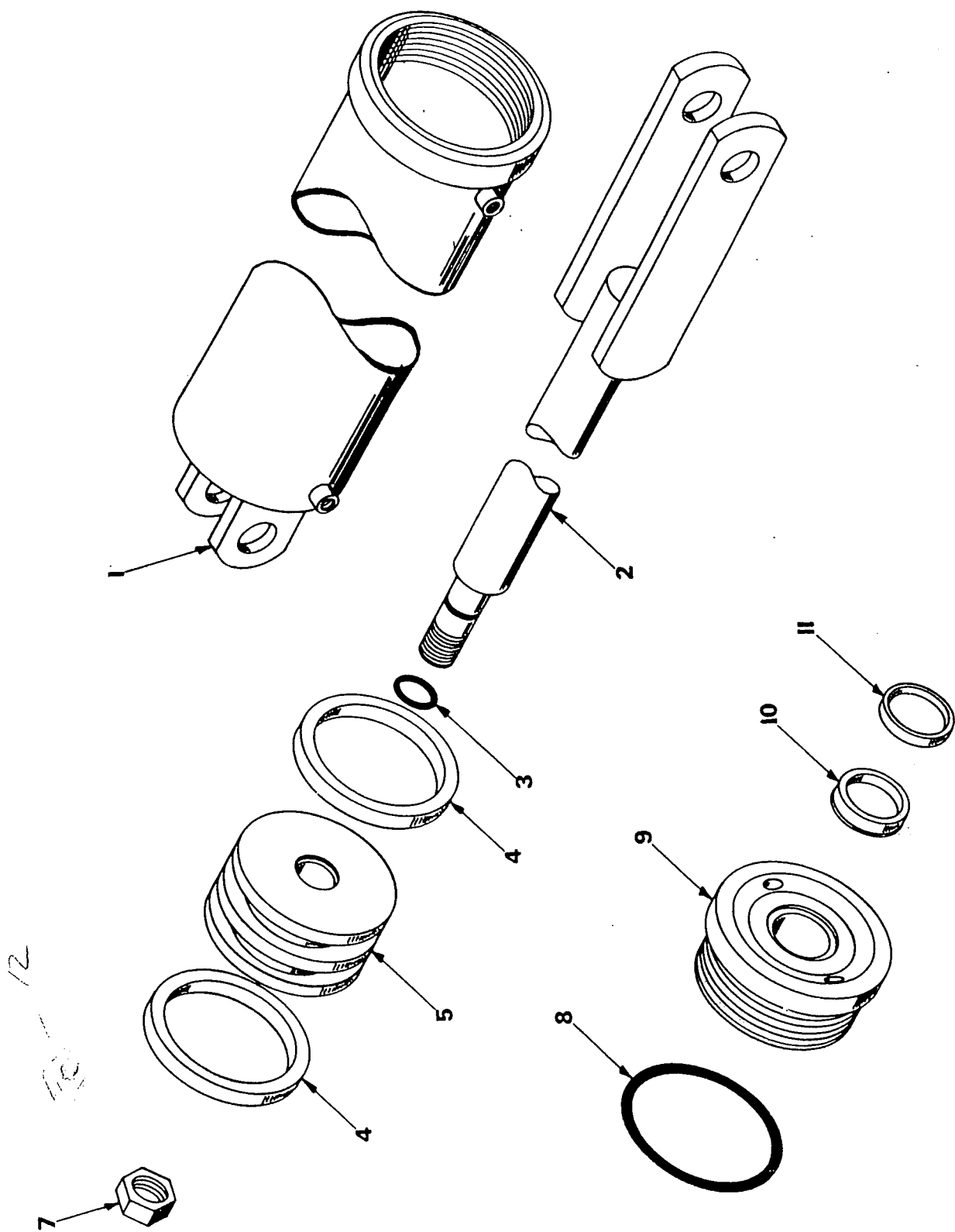


ROCKSHAFT CYLINDER (233)
N4 TYPE

Model 7400 Chisel Plow

Rockshaft Cylinder Parts List (233)
(For Mechanical Collars For Depth Control)

Ref. No.	Part No.	Description	Qty. Req'd
1	50TU7	Tube assembly - 5" x 12"	1
2	10SH42	Shaft - 1-3/4" x 12"	1
3	100R19	1-1/8" I.D. x 1-1/4" O.D. O-ring	1
4	50CU1	5" x 4-1/2" x 9/16" U-cup	2
5	50PB2	5" O.D. x 1-1/4" piston	1
6	10NU3	1-1/4" locking nut	1
7	100R14	4-1/2" I.D. x 5" O.D. O-ring	1
8	50HP1	5" head plate	1
9	10RS3	1-3/4" x 2-1/8" x 3/8" rod seal	1
10	10WS3	1-3/4" x 2-1/8" x 3/16" wiper seal	1



WING LIFT CYLINDER

Model 7400 Chisel Plow

Wing Lift Cylinder Parts List 5" x 36" Cylinder (For 10 ft. Wings)

Ref. No.	Part No.	Description	Qty. Req'd
1	50TU8	Tube assembly - 5" x 36" (for cylinder #242)	1
2	10SH36	Shaft - 1-3/4" x 36" (for 1-1/4" nut)	1
3	10OR19	1-1/8" I.D. x 1-1/4" O.D. O-ring	1
4	50CU1	5" x 4-1/2" x 9/16" U-cup	2
5	50PB2	Piston (for 1-1/4" nut)	1
6			
7	10NU3	1-1/4" x 12 UNS hex. locknut	1
8	10OR14	4-1/2" I.D. x 5" O.D. O-ring	1
9	50HP1	5" head plate	1
10	10RS3	1-3/4" x 2-1/8" x 3/8" rod seal	1
11	10WS3	1-3/4" x 2-1/8" x 3/16" wiper seal	1

12 1/4 NUTS LOCKNUTS (REPLACED BY STEEL CRIMPED NUT)

Wing Lift Cylinder Parts List 4" x 36" Cylinder - (For 6 ft. and 8 ft. Wings)

Ref. No.	Part No.	Description	Qty. Req'd
1	40TU8	Tube assembly - 4" x 36" (for cylinder #248)	1
2	10SH36	Shaft - 1-3/4" x 36" (for 1-1/4" nut)	1
3	10OR19	1-1/8" I.D. x 1-1/4" O.D. O-ring	1
4	40CU3	4" x 3-1/2" x 3/8" U-cup	2
5	40PB7	Piston	1
6			
7	10NU3	1-1/4" x 12 UNS hex. locknuts	1
8	10OR17	4" O.D. x 3-5/8" I.D. O-ring	1
9	40HP4	4" O.D. x 1-3/4" I.D. head plate	1
10	10RS3	1-3/4" x 2-1/8" x 3/8" rod seal	1
11	10WS3	1-3/4" x 2-1/8" x 3/16" wiper seal	1

12 1/4 NUTS LOCKNUTS (REPLACED BY STEEL CRIMPED NUT)

Model 7400 Chisel Plow

Cylinder Seal Kits

Kit No.	Contents	Application
4017N4	2 - 40CU3 - 4" x 3-1/2" x 3/8" U-cup 1 - 10OR17 - 3-5/8" I.D. x 4" O.D. O-ring 1 - 10OR13 - 1-1/8" I.D. x 1-1/4" O.D. ring 1 - 10RS3 - 1-3/4" x 2-1/8" x 3/8" rod seal 1 - 10WS3 - 1-3/4" x 2-1/8" x 3/16" wiper seal	4" x 36" cylinder
5017N4	2 - 50CU1 - 5" x 4-1/2" x 9/16" U-cup 1 - 10OR14 - 4-1/2" I.D. x 5" O.D. O-ring 1 - 10OR19 - 1-1/8" I.D. x 1-1/4" O.D. O-ring 1 - 10RS3 - 1-3/4" x 2-1/8" x 3/8" rod seal 1 - 10WS3 - 1-3/4" x 2-1/8" x 3/16" wiper seal 1 - 10OR13 - 1" I.D. x 1-1/4" O.D. O-ring	5" x 12" & 5" x 36" cylinders

MANUFACTURER'S WARRANTY

EZEE-ON warrants each new product of EZEE-ON manufacture when properly assembled, adjusted and operated, to be free from defects in materials, and/or workmanship under normal use for which it was intended, for a period of one year from date of purchase.

EZEE-ON'S obligation under this warranty is limited to repairing or replacing, FOB EZEE-ON factory, any part or parts which are reported in writing, giving all details by the Dealer, within 30 days from date of failure thereof, and which EZEE-ON'S inspection shall disclose to have been defective. This does not include installation, oil, freight, or any other charges.

In no event will EZEE-ON assume any responsibility for consequential damages to tractors or any other equipment. EZEE-ON shall not be liable for any damages of any nature or source resulting from defects in materials or workmanship and/or loss of use of said equipment. EZEE-ON makes no warranty on allied parts which are not manufactured by EZEE-ON.

The warranty set forth herein shall be void if any part or parts not manufactured or supplied by EZEE-ON, are used in the assembly or repair of the implement manufactured by EZEE-ON.

This warranty is void if equipment is modified, altered, cut up, re-welded, or used for purposes not intended for.

This warranty is void if used for other purposes than agricultural.

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