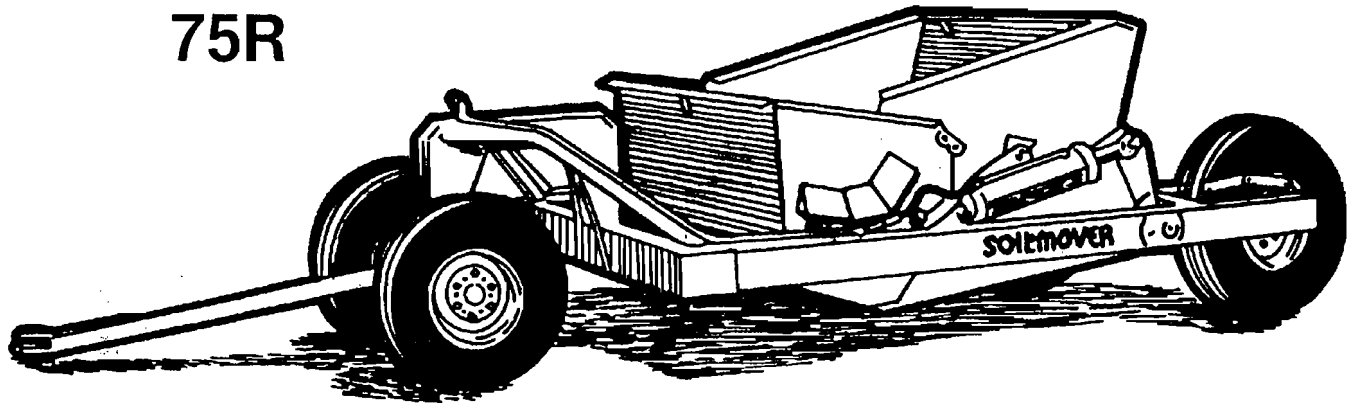


SOILMOVER[®]

SCRAPER

75R



75RF

OPERATOR & PARTS MANUAL

75 MODELS



WARNING:
READ THIS MANUAL BEFORE OPERATING SCRAPER.

Automatic

EARTH MOVING EQUIPMENT DIVISION

Farm Safety

Contrary to the popular image of fresh air and peaceful surroundings, a farm is not a hazard-free work setting. Every year, thousands of farm workers are injured and hundreds more die in farming accidents. According to the National Safety Council, agriculture is the most hazardous industry in the nation.

How You Can Improve Farm Safety

You can start by increasing your awareness of farming hazards and making a conscious effort to prepare for emergency situations including fires, vehicle accidents, electrical shocks from equipment and wires, and chemical exposures. Be especially alert to hazards that may affect children and the elderly. Minimize hazards by carefully selecting the products you buy to ensure that you provide good tools and equipment. Always use seat belts when operating tractors, and establish and maintain good housekeeping practices. Here are some other steps you can take to reduce illnesses and injuries on the farm:

- Read and follow instructions in equipment operator's manuals and on product labels.
- Inspect equipment routinely for problems that may cause accidents.
- Discuss safety hazards and emergency procedures with your workers.
- Install approved rollover protective structures, protective enclosures, or protective frames on tractors.
- Make sure that guards on farm equipment are replaced after maintenance.
- Review and follow instructions in material safety data sheets (MSDSs) and on labels that come with chemical products and communicate information on these hazards to your workers.

Health and Safety Hazards on Farms

Farm workers including farm families and migrant workers are exposed to hazards such as the following:

Danger	Potential Effect or Injury	Prevention
Chemicals/Pesticides	Skin and respiratory injury or death	MSDS and proper Personal Protective Equipment. Review Manufacturers data sheets
Cold	Illness, Frostbite or death	Dress properly for the day.
Dust	Respiratory injury or explosive combinations	Be aware of your surroundings and activity
Electricity	Shock, burns, fire, death	Use a qualified professional for wiring dangerous electrical devices. Never overload a circuit. Replace damaged electrical devices or cords. Electrical tape will not insulate you from injury.
Grain bins, Silos	Entrapment, Suffocation, Explosion from formation of dangerous gases and poisoning.	Make sure the bin is properly ventilated and maintained. Never walk the grain.
Hand tools	Injury including cuts abrasions, electrocution, strains, sprains and death	Make sure you hand tools are in good condition. Never leave a damaged tooling accessible for someone else to use.
Highway traffic	Collisions resulting in injury or death	Follow regulations, stay alert. Avoid alcohol and use of communication devices while driving
Lifting and lifting devices	Back injury, sprains, strains. Falling material resulting in being struck or crushed by heavy material	Use proper lifting technique. Get help when the load is too heavy. Inspect chains, straps or cables routinely to make sure they are in good condition.
Livestock handling	Serious injury or death resulting from being pinned struck or trampled.	Always make sure you have adequate room and an escape route
Machinery/Equipment	Cuts, abrasions, amputations, death.	Thoroughly read and understand your Owners Equipment Manual. Never operate the equipment without guards in place. Make sure the equipment can not be energized or otherwise put into operation while you are working on it.
Manure pits	Explosion from formation of dangerous gases. Suffocation. Poisoning	Proper maintenance.
Mud	Sprains, strains, entrapment and suffocation. Eye injury and skin irritation.	Proper Personal Protective Equipment. In some conditions a "Spotter" may be needed.
Noise	Hearing damage	Personal Protective Equipment.
Ponds	Drowning	Wear a life preserver and make sure help is readily available.
Slips/Trips/Falls	Sprains, strains, back and neck injury, bone breaks or death	Keep work area free from clutter and organized. If working on anything elevated make sure you have appropriate guarding and/or fall protection such as a harness and lanyard.
Sun/Heat	Sun burn, Heat Stroke, shock, death	Use common sense on excessively hot days, use sun screen, wear a hat and stay hydrated.
Toxic gases	Skin and respiratory injury or death. Explosion.	MSDS and proper Personal Protective Equipment. Review Manufacturers data sheets
Tractors	Cuts, abrasions, amputations, death.	Thoroughly read and understand your Owners Equipment Manual. Never operate the equipment without guards in place. Anti-roll over devices.
Wells	Electrocution, amputation, death	Avoid contact with water while working on an electrical device. Always be sure the equipment can/will not be energized during repair or maintenance. Make sure all guarding is in place.
Severe Weather	Electrocution, "struck by" injuries, death	Move to a safe place. Lightning, hail and tornadoes are unpredictable.

Orthman Manufacturing, Inc. does not limit the potential effects or injuries nor prevention measures to those listed above. They are provided solely as a guideline to making your farm life safer. Always consult your Owner/Operators Manual for specific tool and equipment safety requirements.

High Risk Factors on Farms

The following factors may increase risk of injury or illness for farm workers:

- **Age** – Injury rates are highest among children age 15 and under and adults over 65.
- **Equipment and Machinery** – Most farm accidents and fatalities involve machinery. Proper machine guarding and doing equipment maintenance according to manufacturers' recommendations can help prevent accidents.
- **Protective Equipment** – Using protective equipment, such as seat belts on tractors, and personal protective equipment (such as safety gloves, coveralls, boots, hats, aprons, goggles, face shields) could significantly reduce farming injuries.
- Take precautions to prevent entrapment and suffocation caused by unstable surfaces of grain storage bins, silos, or hoppers. Never "walk the grain."
- Be aware that methane gas, carbon dioxide, ammonia, and hydrogen sulfide can form in unventilated grain silos and manure pits and can suffocate or poison workers or explode.
- Take advantage of safety equipment, such as bypass starter covers, power take-off master shields, and slow-moving vehicle emblems.
- **Medical Care** – Hospitals and emergency medical care are typically not readily accessible in rural areas near farms.

The Benefits of Improved Safety and Health Practices

Orthman Manufacturing Provides this document in the hope that everyone that has a job to do, does it SAFELY. Our goal and yours should be to end each day in the best possible health. Better safety and health practices reduce fatalities, injuries, and illnesses as well as associated costs such as workers' compensation insurance premiums, lost production, and medical expenses. A safer and more healthful workplace improves morale and productivity.

Congratulations! You are now the owner/operator of one of the most versatile machines for landscaping and transporting dirt. In the years to come, your farm, ranch, or commercial operation will benefit from the efficiency, utility, and economy provided by the Automatic SoilMover scraper.

Take a few minutes to be sure that you understand the maintenance and operation of this scraper. Read this operator's manual carefully: you'll get better results and have fewer problems.

After your scraper has been in operation for a few hours, check for loose bolts, etc.. All are tight when the scraper leaves the factory; however, after a break-in period, some items may require additional tightening. Like any other machine, your scraper requires proper care and intelligence in operation. Misuse and neglect will only cause unnecessary expense and dissatisfaction.

Automatic provides warranty on each new machine sold. To be eligible for this warranty, the warranty registration form must be completed and returned to Automatic Equipment within 10 days after delivery of the machine. If you do not have a warranty registration form, contact your dealer. The completed registration must be on file with Automatic Equipment before warranty claims will be honored. Warranty will not be provided on any machine that has been altered.

TABLE OF CONTENTS

Foreword	2
Warning and General Safety Rules	3 & 4
Operating Instructions	5
Trouble Shooting, Maintenance and Cylinder Repair	6
Assembly Instructions	7 & 8
75R & RF Basic Machine	9, 10 & 11
75 Dolly Hub Assembly	12
75 Rear Hub Assembly	13
75 4" Cylinder Assembly	14
75R & RF Hydraulics	15
75RT Hydraulics	16
75RFT Hydraulics	17

IMPORTANT: When ordering repair parts for your machine, first give the item and part number listed in this manual, then give the year, model number and serial number of your machine.

FOREWORD

This manual is written as a guide to owners and operators of Soilmover machinery. We suggest you read it very carefully and follow the suggestions which are made. Keep this manual in a convenient place for quick, easy reference; and use it whenever questions arise. Many years of thought, experience, and close contact with the farmer have been put to use when designing Soilmover products to make them the ideal partner for you on your many chores around the farm.

If you require any additional information, consult your Soilmover Dealer. He is kept informed on the best methods of operating and servicing Soilmover machinery. Most dealers carry an ample supply of parts and are backed by all the facilities of the Soilmover Manufacturing Corporation with branch warehouses conveniently located.

We suggest you fill in the following information now for your own convenience. Always give this information to your dealer when ordering new parts. If at any time it is necessary for you to write directly to the Soilmover Manufacturing Corporation for additional information, give the model and serial number of your machine, and as much descriptive information as possible. It will enable us to more thoroughly and quickly expedite the necessary service.

Model No. _____ Serial No. _____ Date of Purchase _____

Dealer Name and Address _____

SPECIFICATIONS

	<u>75R</u>	<u>75RF</u>
Capacity	7-1/2 Cu. Yds.	7-1/2 Cu. Yds.
Width of Cut	78"	78"
Maximum Spread	18"	18"
Overall Width	96"	96"
Overall Height	62"	62"
Overall Length	16'8"	21'10"
Weight	5120 lbs.	5920 lbs.

Specifications are subject to change without notice.

WARNING

Do not attempt to service tire, wheel or hub assembly without proper equipment, as hazardous conditions may exist. Repairs must be performed by a qualified tire serviceman.

- * Never attempt to assemble tire lock rings or inflate tire yourself.
 - * Never attempt to weld or apply heat to wheel and hub assembly.
 - * When servicing wheel bearings, precaution must be taken to prevent accidental dislodging of tire lock ring.
-

Before attempting any maintenance or repair on this machine:

- * Stop tractor and shut off engine.
- * Release hydraulic pressure on all lines, disconnect from tractor and then proceed. Use block and chain for support when necessary. DO NOT RELY ON HYDRAULIC SYSTEMS FOR SUPPORT.

GENERAL SAFETY RULES

Safety Rules are made for your protection so read them carefully and abide by them.

- * Keep away from the machine while it is being operated through its cycle. Fingers or hands could easily be pinched, smashed or caught in the linkage system. Never work on any machine when the tractor is running.
- * Never place any part of your body under any part of the machine unless it is blocked up. If a hydraulic oil line should burst, the part could drop quickly due to its weight.
- * Do not carry any riders or allow anyone near any moving parts.
- * Do not lubricate the machine or make any adjustments or repairs while it is in motion.
- * Do not pull the machine at top speed in crowded places or over rough terrain.

- * When storing this machine, never leave any parts suspended in air. Always, rest the bowl on a flat surface and release the hydraulic pressure.
- * Always secure transport brackets when traveling over public roadways or long distances.
- * Place slow moving vehicle emblem on rear of machine when traveling over public roadways at speeds less than 25 miles per hour or as prescribed by law.

Keep in mind the fact that your soilmoover when loaded can exceed 12 tons gross weight. Think ahead! Beware of steep grades and ditches. Allow for increased stopping distances. It is possible to load your scraper with a tractor which is too small to provide adequate stopping ability and control during transport.

Avoid the following conditions which may cause your soilmoover to upset.

1. Steep side slopes.
2. Short turns at high speeds.
3. Traveling over rough ground at high speeds.
4. Striking a rock, mound of dirt or other projection with one rear wheel.

For your own safety and comfort as well as increased life of your tractor and soilmoover, take a few minutes to analyze your project and prepare a smooth haul road away from hazards.

During transport always keep your hand on or near the bowl lift control lever. In the event of runaway drop the bowl for emergency stop.

- * Do not turn with the cutting edge in the ground. This could cause damage to the scraper.

OPERATING INSTRUCTIONS

To hook the Soil Mover to your tractor, first connect the oil lines. Start the hydraulic pump and operate the control valve so the cylinders on the Soil Mover will raise the frame to the height of the tractor drawbar. Then back the tractor up to your machine and secure the hitch.

After the Soil Mover has been hooked up to your tractor, operate it to fill the system. Then check the pump reservoir to see that a sufficient amount of oil remains to actuate the bucket. Approximately eight quarts of oil will be required.

BLADE: The blade has a slight bow in the downward direction. This is manufactured into the moldboard which has a tendency to give the bucket better loading action. The three piece blade can be reversed when one side becomes dull. The center section can be shifted down to provide a frost bit for harder soil. It can be easily removed for sharpening. Because this blade is made of a high carbon steel, DO NOT attempt to weld objects onto it.

TIRES: Tires should be inflated equally with 75 to 80 pounds of pressure. If this is not done, the machine will have a tendency to cut deep on one side and consequently you will get uneven loading. If the tires are too soft, they may allow the machine to dig heavy on one side, since the blade suction would cause the tire to squat. Excessive tire pressure would cause the machine to bounce over uneven ground and result in an uneven cut.

HYDRAULICS: The larger the volume of pump output, the faster the load can be dumped. Recommended pressures are 1,500 to 2,500 p.s.i. (maximum). Keep the oil as clean as possible and make sure the hoses are not kinked as this will restrict the flow of oil. **CAUTION:** Make sure that oil lines on the Soil Mover are not crossed as this will spring the frame.

When the rear wheels have traveled to where the soil has been removed, the blade will dig in as originally allowed. To compensate for this, the blade will have to be lifted out slightly as soon as the wheels reach the spot where the cut was first started. The original cut may be started at half the desired cutting depth. Depth of cut is to be done with ease. If this is not done, you will find you get an irregular finish. Do not fight the controls.

When using the Scraper-Train, load the lead scraper first. Start loading the trailing scraper where the lead scraper was raised out of the ground. The rear scraper can be used for planing by lowering the blade to desired height.

TROUBLE SHOOTING

Machine Tends to Drop Slowly While Transporting a Load: Oil is bypassing either in the hydraulic valve or in the double acting cylinders. To check the cylinders, disconnect the oil lines from the tractor and plug the end of the oil lines on the machine. (First block the machine in upward position). Remove blocks. If oil is bypassing in the cylinder, the bucket will lower. New seals would have to be installed. See Cylinder Repair.

Machine Rocks While Loading: Beginning a cut while the machine is bouncing over uneven ground will carry through the loading operation. As the blade rocks and gouges on first one side and then the other, the rear tires traveling in the depression will continue to rock the machine. To eliminate this effect, begin the cut slowly so that the machine settles. As the rear wheels travel to the even cut, you can increase the speed.

MAINTENANCE

1. Be sure all oil lines are free of dust and dirt before connecting the hydraulic cylinders to the pump.
2. Use a clean oil of the recommended weight of the pump manufacturer. If the weight is not specified, use any high grade crankcase oil equivalent to SAE 20 in warm weather and SAE 10 in cold weather.
3. Check the wheel bearing for grease and "set". Bearings should be "set" so they spin freely when rotated, but are not loose with play in the hub or axle. Lubricate with good grade of bearing grease. Relieve load pressure on all journals when greasing.
4. When your Soil Mover is to be stored for any period of time, liberally coat cylinder rods with heavy grease to prevent rusting. When possible, keep the Soil Mover under cover.

CYLINDER REPAIR

Should it become necessary to replace the O-Ring seals in the cylinder, the following procedure should be observed. First, remove the cylinder retaining ring with a small pair of gooseneck pliers. Then remove the cylinder cap by pulling the piston to the upper end of the cylinder. This should compress enough air inside to blow the cap out. A light tap on the cylinder wall will also help should the cap stick. Now replace the O-Ring with new ones. Be careful not to damage the piston rod at any time as a scratched or gouged shaft will cause leakage. Reassemble the cylinder in reverse of the procedure outlined above.

ASSEMBLY INSTRUCTIONS

1. Raise rear of frame high enough so that rear wheel assemblies (38) can be installed. Block the frame up to prevent it from falling and insuring anyone during assembly.
2. Secure axle block shims (36), axle mounting blocks (35), rear wheel assemblies (38) and axle block caps in place with 3/4 lockwashers (18) and 3/4 X 4-1/2 bolts (33) as shown in Figure 1.

Steps 3, 4 and 5 are for RF and RFT models only.

3. Raise front of frame high enough to allow dolly installation. Insert ball socket (12) and ball (13) into socket retainer weldment (15) and bolt to gooseneck with bolts (16) and locknuts (14).
4. Attach dolly clevis weldment (1) to swivel hitch weldment (5) using clevis pin (2) and secure with cotter pin (3). Insert the swivel hitch assembly into the dolly weldment (8) and secure with bolts (7) and locknuts (6).
5. Insert dolly spindles (10) with hub and tire assemblies into spindle tubes in dolly weldment (8) and secure with bolts (9) and locknuts (11). Roll dolly assembly under gooseneck. Insert ball through hole in dolly and secure with ball mount washer (12), lockwasher (18) and ball mount bolt (19). Slip wire through mount bolt and mount washer, then twist wire ends.
6. Slip one end of gate chain weldments (51) over gate chain mounts on frame as shown in Figure 1. Secure with washers (52), lockwashers (53), and hex bolts (54). Let chains hang till step 12.
7. Place floating links (27) in position on frame as shown in figure 1, with greaseable end mounted to frame. Secure with floating link pins (28), bolts (26), locknuts (11) and grease fittings (4).
8. Place torque bar (66) into position in frame. Insert torque bar mounting pins (45) through frame and into torque bar (66) Secure with bolts (48), lockwashers (47), flat washers (46), and grease fittings (4).
9. Place bucket (43) between torque bar arms. Line up lower journals of bucket with torque bar journals and insert torque bar pins (65). Secure with bolts (26), locknuts (11) and grease fittings (4).
10. Line up floating link journals with upper journals on the bucket. Insert floating link pins (28) and secure with bolts (26), locknuts (11) and grease fittings (4).
11. Insert roller bushings (61) into gate rollers (60) then into roller brackets on gate (57). Secure with bolts (62), lockwashers (59), hexnuts (58) and grease fittings (4).
12. Line up journals in the gate with top journals in the bucket, and insert gate pivot pins (73). Secure with bolts (74), locknuts (11) and grease fittings (4). Take loose end of gate chains and place on gate chain mounts. Secure with washers (52), lockwashers (53) and bolts (54). Make sure gate chains are not twisted.

13. Place rod end of cylinders (32) over pins on torque bar. Secure with washers (68), lockwashers (53) and bolts (54). Place other end of cylinders over mounting lug on frame. Secure with pin (31) and hairpin clips (30).
14. Assemble hydraulic tubing to frame as shown in figures 6, 7 and 8. Secure with single-tube clips (76), double-tube clips (50) and locknuts (49).

CAUTION: DO NOT CROSS HYDRAULIC LINES ON THIS ASSEMBLY, AS IT WILL SPRING FRAME WHEN PUT INTO OPERATION. THE SOILMOVER CORPORATION CANNOT ASSUME ANY RESPONSIBILITY FOR DAMAGE TO ANY MACHINE RESULTING FROM IMPROPER INSTALLATION OF HYDRAULIC LINES.

CAUTION: GREASE ALL FITTINGS BEFORE OPERATING. CHECK ALL NUTS AND BOLTS TO MAKE SURE THEY ARE TIGHT. RECHECK ALL NUTS AND BOLTS AFTER THE FIRST 24 HOURS OF RUNNING TIME.

PARTS LIST FOR 75R, RF, RT, RFT SCRAPER (See figures 1 & 2)

<u>Item</u>	<u>Part No</u>	<u>Description</u>	<u>Qty.</u>
100-0723	120333	Clevis Wldmt (RF & RFT)	1
261-2600	120327	Clevis Pin Wldmt 1-5/8 X 7-5/8	1
3	B008011	Cotter Pin 3/8 X 3	1
4	B026002	Grease Fitting 1/4 - 28 (Qty for RF)	17
4	B026002	Grease Fitting 1/4 - 28 (Qty for RFT)	19
4	B026002	Grease Fitting 1/4 - 28 (Qty for R)	16
4	B026002	Grease Fitting 1/4 - 28 (Qty for RT)	18
561-2605	120324	Swivel Hitch Wldmt	1
6	B009044	Locknut 3/4 (RF & RFT)	2
6	B009044	Locknut 3/4 (R & RT)	8
7	B004068	Bolt 3/4 X 5-1/2	2
861-2606	525116	Dolly Wldmt	1
9	B004032	Bolt 1/2 X 5	2
10 229-0198	525106	Dolly Spindle	2
11	B009004	Locknut 1/2 (RF & RFT)	30
11	B009004	Locknut 1/2 (R & RT)	28
12 207-0543	525407	Ball Socket	1
13 207-0541	525222	Ball	1
14	B009045	Locknut 5/8	4
15 61-2899	525409	Ball Socket Wldmt	1
16	B004044	Bolt 5/8 X 2	4
17 102-1919	025146	Ball Mount Washer	1
18	B006008	Lockwasher 3/4 (R & RT)	8
18	B006008	Lockwasher 3/4 (RF & RFT)	9
19	025246	Ball Mount Bolt 3/4 X 1-3/4	1
20	621125	STD. Clevis (R & RT), 622127 OPT. Clevis (R, RT)	1
21	620126	Clevis Pin Wldmt 1-3/8 X 5-3/8	1
22	620134	Clevis Hitch Wldmt	1
23	525155	Clevis Wldmt	1
24	804100	Bolt 3/4 X 8	1
25	B041024	Decal "75R" (Figure 1)	2
25	B041023	Decal "75RT" (Not Shown)	2
25	B041044	Decal "75RF" (Not Shown)	2
25	B041045	Decal "75RFT" (Figure 2)	2
26	B004030	Bolt 1/2 X 4	6
27	620301 61-2645	Floating Link Wldmt	2
28 61-2476	040213	Floating Link Pin Wldmt 2-5/8 X 4-11/16	4
29	B041004	Decal "Soilmover" 24"	2
30	B008029	Hairpin Clip 3/4	4
31	320806	Cylinder Pin 1 X 2-1/4	2
32 227-0063	620400 194-354	Cylinder Assembly 4"	2
33	B004066	Bolt 3/4 X 4-1/2	8
34	000112 102-1917	Axle Block Cap	4
35	525324 110-0003	Axle Block	4
36	525323 102-1884	Axle Block Shim 3/16"	8
37	622079	Pusher Wldmt (Optional)	1
38	622405	Rear Wheel Assembly - 62-1546	2
39	B008030	Hairpin Cotter 3/4	6
40	620039	Transport Link (Notched Corners)	6
41	807034	Mach. Bush 2-3/4 ID X 3/16	2

Item	Part No	Description	Qty
42	620040 ²²⁹⁻⁰¹⁶⁴	Transport Link Pin 3/4 X 2-3/8	6
43	620151	Bucket Wldmt	1
44	622001	Frame Wldmt - R (Figure 1)	1
44	621002	Frame Wldmt - RT (Not Shown)	1
44	060101	Frame Wldmt - RFT (Figure 2)	1
44	060002	Frame Wldmt - RF (Not Shown)	1
45 ⁶¹⁻²⁴⁶⁴	040067	Torque Bar Mounting Pin Wldmt 3 X 8-1/4	2
46	B007005	Flat Washer 1/2	2
47	B006004	Lockwasher 1/2	14
48	B004025	Bolt 1/2 X 2	14
49	B009003	Locknut 3/8 - R (Figure 1)	6
49	B009003	Locknut 3/8 - RF (Not Shown)	8
49	B009003	Locknut 3/8 - RFT (Figure 2)	15
49	B009003	Locknut 3/8 - RT (Not Shown)	11
50	000101	Double Tube Clip - R (Figure 1)	6
50	000101	Double Tube Clip - RF (Not Shown)	8
50	000101	Double Tube Clip - RFT (Figure 2)	9
50	000101	Double Tube Clip - RT (Not Shown)	6
51 ⁶¹⁻²⁶⁵⁰	620221	Gate Chain Wldmt	2
52	620014	Gate Chain Washer	4
53	B006006	Lockwasher 5/8	6
54	B004042	Bolt 5/8 X 1-1/2	6
55	000106	Slotted Nut 2 - 12	1
56	B008005	Cotter Pin 1/4 X 2	1
57	620201	Gate Wldmt ⁶¹⁻²⁶⁴⁹	1
58	B009017	Nut 1 - 8 NC	2
59	B006012	Lockwasher 1"	2
60 ¹⁰⁷⁻⁰⁸⁹⁸	620212	Gate Roller ^{now 506-552 1 7/8}	2
61 ¹⁰⁷⁻⁰⁸⁹⁹	620213	Gate Roller Bushing	2
62	B004082	Gate Roller Bolt	2
63	B046008 ²⁰⁰⁻¹³⁵¹	Cutting Blade (Center Section) 1/2 X 10 X 36 ^{older}	1 ²⁰⁰⁻¹²⁰⁷
64	B046009 ²⁰⁰⁻¹³⁵²	Cutting Blade (Outer Section) 1/2 X 8 X 20-3/4 ^{older}	2 ²⁰⁰⁻¹²⁰⁵
65	620263 ⁶¹⁻²⁶⁴⁶	Torque Bar Pin Wldmt 2-5/8 X 5-5/8	2
66 ⁶¹⁻²⁶⁵¹	620251	Torque Bar Wldmt	1
67 ¹⁰⁷⁻⁰⁹⁰⁴	620271	Torque Bar Bushing ^{134-090 3.5 x 3 x 3}	2
68	620267	End Cap	2
69	620172	Dirt Shield Wldmt	1
70	B009051	Hexnut (Plated) 1/2"	12
71 ⁹⁵⁰¹⁷⁷	620177	Bucket Side Extension L & R	2
72	B041001	Decal "SM" 8" X 16"	1
73	620217 ⁶¹⁻²⁶⁴⁴	Gate Pivot Pin Wldmt 2 X 3-3/4	2
74	B004028	Bolt 1/2 X 3	2
75	B008004	Plow Bolt 1/2 X 1-3/4, #3 Head ^{100-557 5/8}	20
76	000102	Single Tube Clip - RFT (Figure 2)	8
76	000102	Single Tube Clip - RT (Figure 2)	4
77	622127	Clevis Block (RT & RFT)	1
78	620124	Hitch Pin Wldmt 1-3/8 X 8	1
79	804074	Bolt 3/4 X 2 GR8	7

Older ones have been on back side

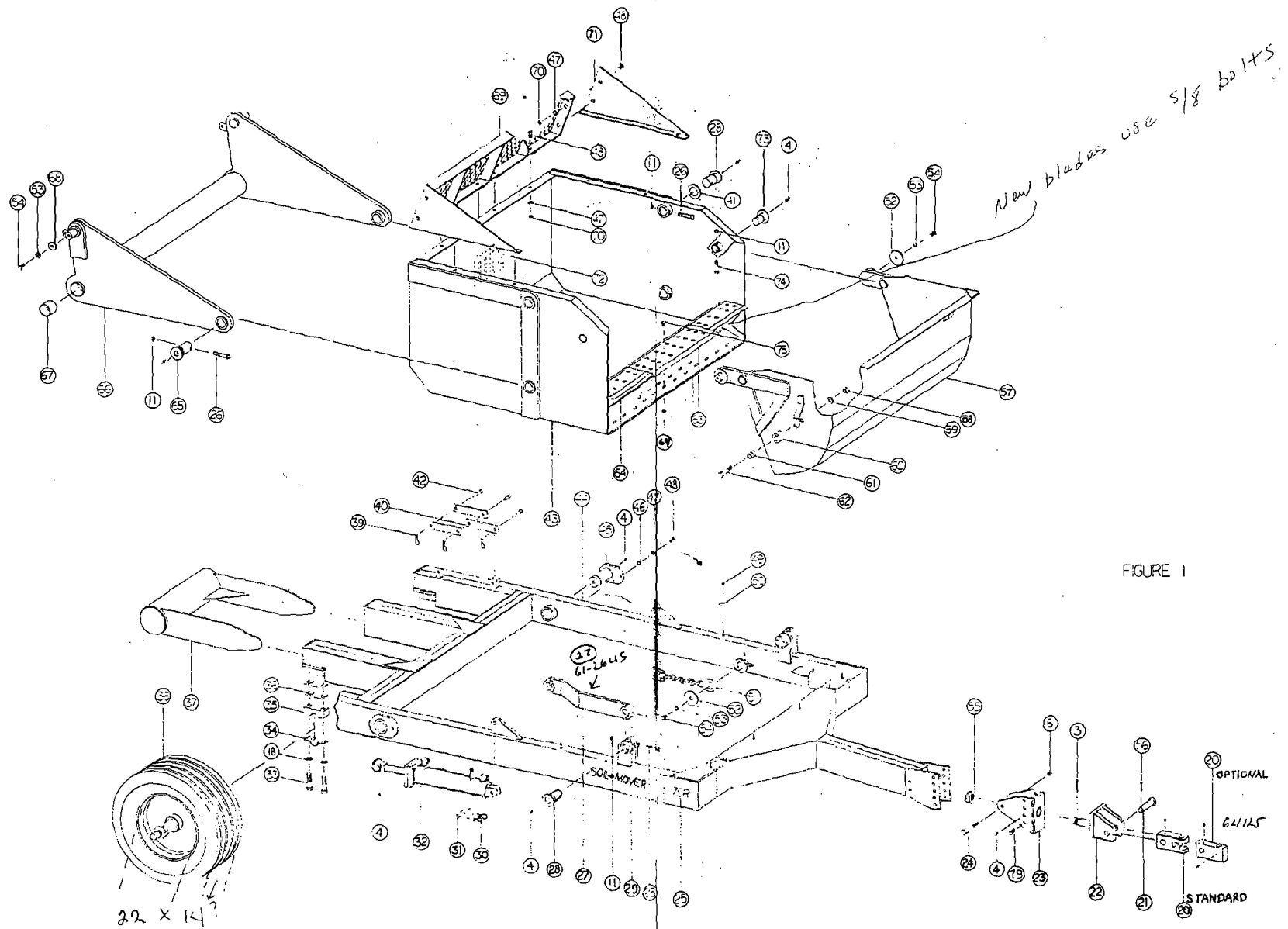


FIGURE 1

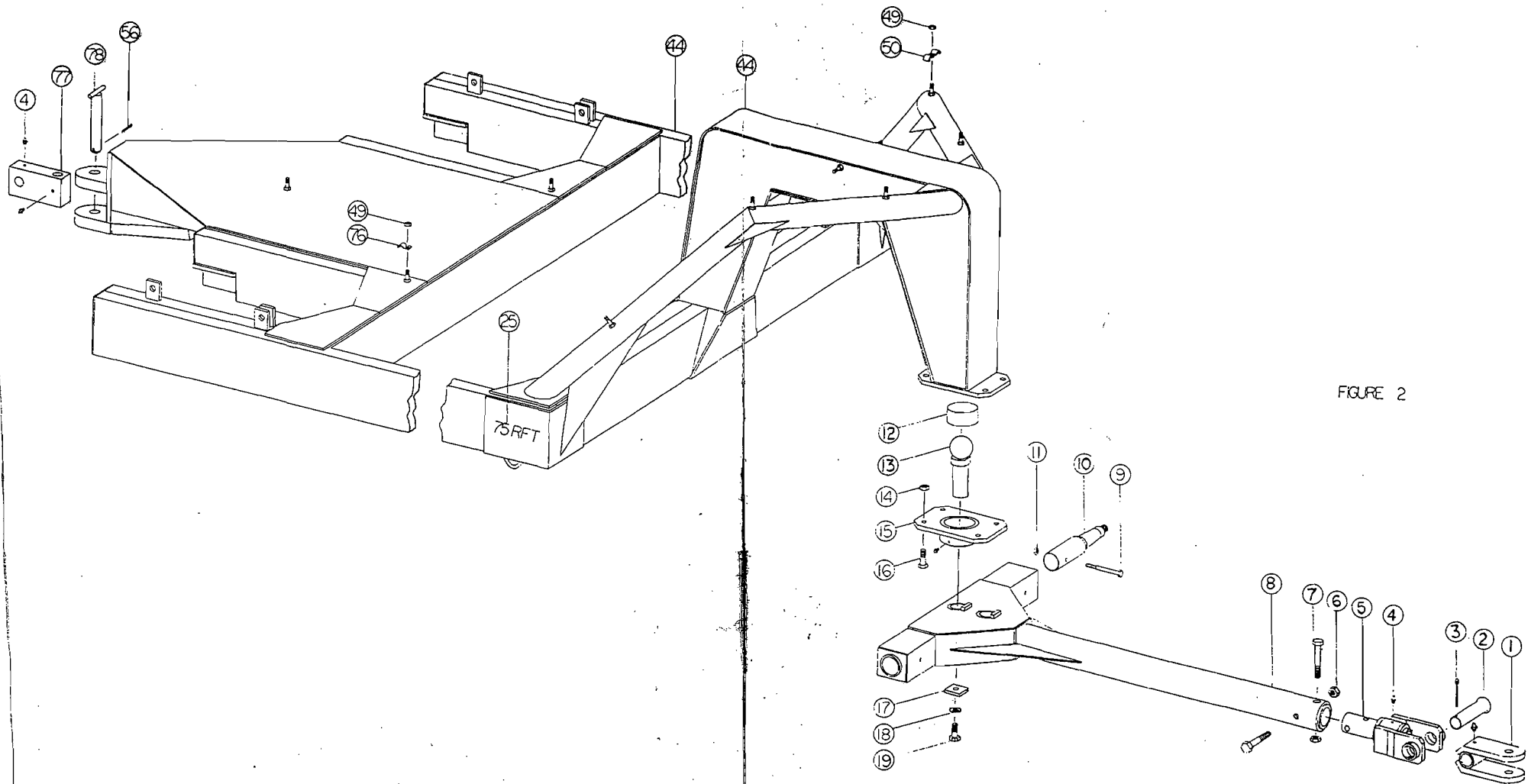
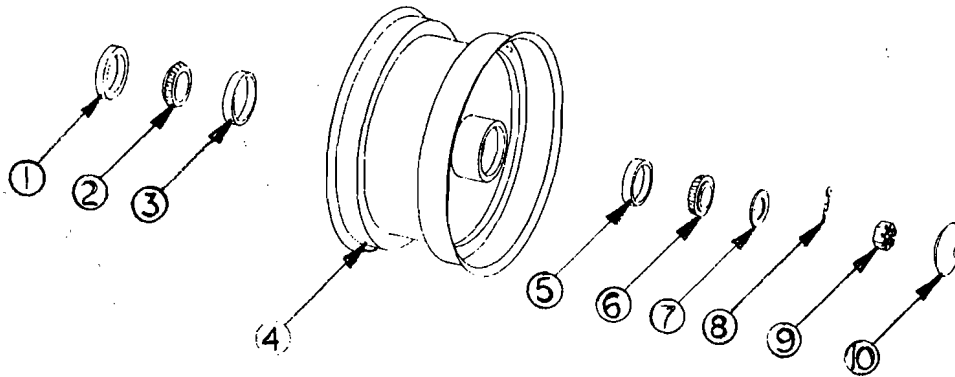


FIGURE 2

PARTS LIST FOR 75 DOLLY HUB ASSEMBLY (See Figure 3)

<u>Item</u>	<u>Part No</u>	<u>Description</u>	<u>Qty</u>
1	B017109 150-118	Inner Seal 2-1/2 ID X 3.505	1
2	B018010 120-166	Inner Bearing Cone 368A	1
3	B018110 120-167	Inner Bearing Cup 362A	1
4	525340 6-2603	Hub & Rim Wldmt	1
5	B018115 120-135	Outer Bearing Cup, LM501310	1
6	B018015 120-127	Outer Bearing Cone, LM501349	1
7	B025056	Washer 50 - 8	1
8	B025154 104-030	Cotter Pin 3/16 X 2	1
9	B025105 102-038	Slotted Nut 1 - 14 NF	1
10	B024056 150-122	Hub Cap 50 - 8 150-122	1

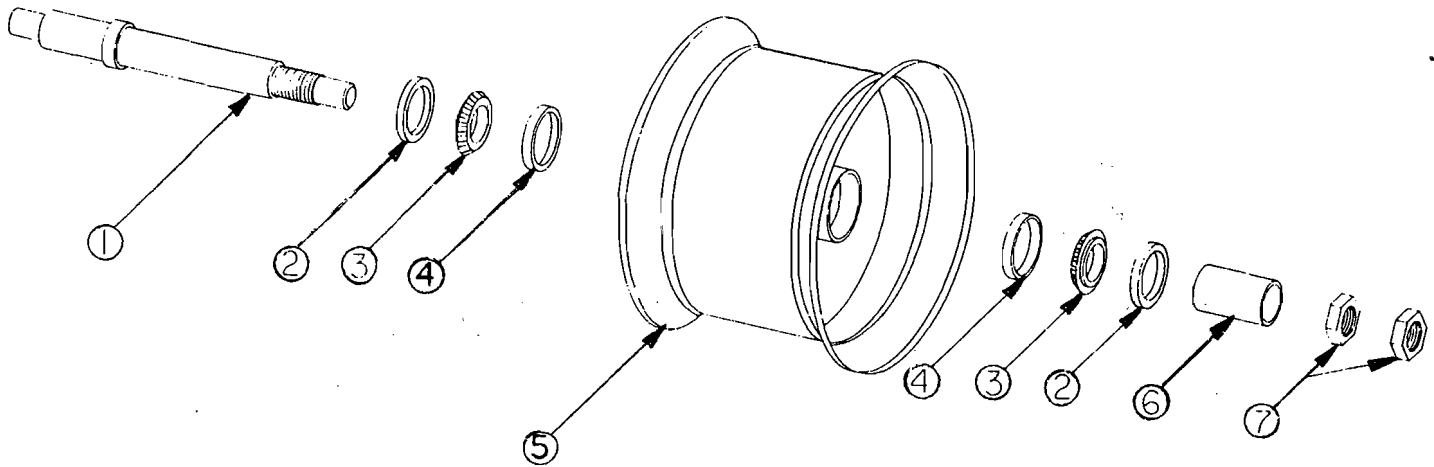
Figure 3



PARTS LIST FOR 75 REAR HUB ASSEMBLY - 622405 (See Figure 4)

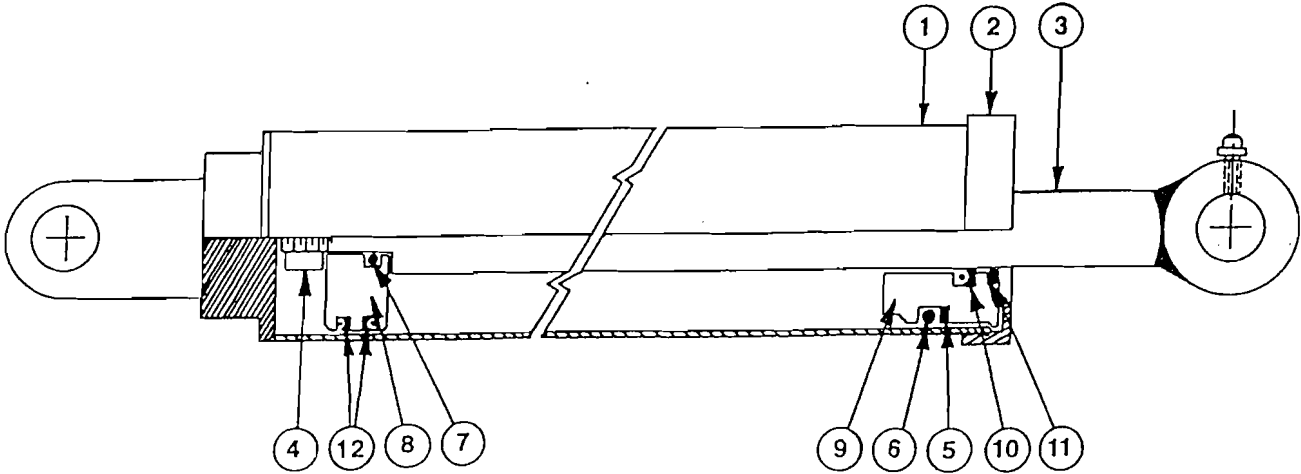
<u>Item</u>	<u>Part No</u>	<u>Description</u>	<u>Qty</u>
1	622401	Rear Spindle Wldmt <i>100-0725</i>	1
2	B017114	Seal 3 ID X 4.130 OD <i>150-119</i>	2
3	B018020	Bearing Cone 39250 <i>120-174</i>	2
4	B018120	Bearing Cup 39412 <i>120-175</i>	2
5 <i>61-2612</i>	622406	Hub & Rim Wldmt	1
6	622404	Seal Collar <i>107-1014</i>	1
7	000103 <i>102-130</i>	Jam Nut 2 - 12	2
	B029110	Tire 15 - 22.5 (Not Shown)	1

Figure 4



PARTS LIST FOR 75 4" CYLINDER ASSEMBLY

194-354 4x 15 7/8
 (227-0063)
 Kit no.
 C40010



Ref. No.	Part No.	Description
1	293-0555	Barrel with Clevis and Ports
2	293-0536	Collar
3	293-0563	Shaft with Clevis
4	293-0538	Nut
5	In repair kit	Backups
6	In repair kit	O-Rings
7	In repair kit	O-Ring
8	293-0539	Piston
9	293-0571	Head
10	In repair kit	Poly-Pak
11	In repair kit	Dust Seal
12	In repair kit	Poly-Paks
	293-0550	Repair Kit

194-370 (1 3/4" Rod Dia)

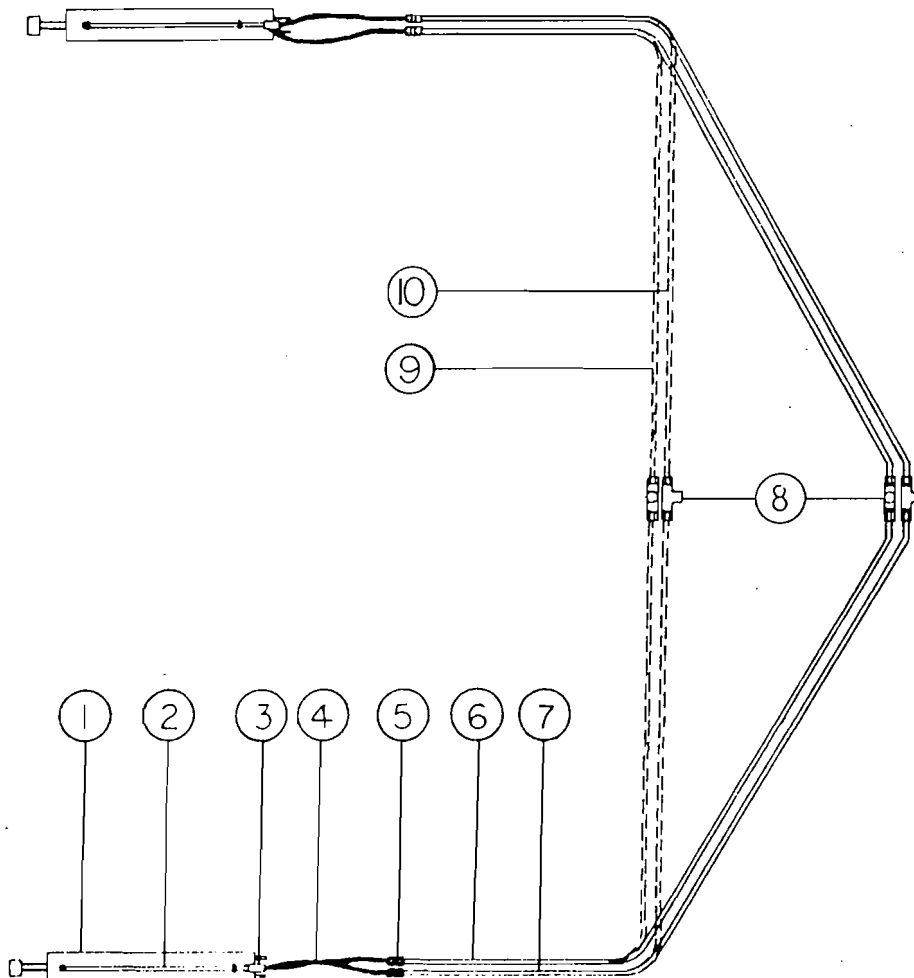
New cylinders are
 2" Rod diam
 194-390 Kit

PARTS LIST FOR 75 HYDRAULICS, R-622460, RF-060450 (See Figure 6)

<u>Item</u>	<u>Part No</u>	<u>Description</u>	<u>Qty</u>
1	620400	Cylinder Assembly 4"	2
2	040357	Pipe 1/2 X 18	2
3	B020024	Pipe Coupling 1/2	2
4	B021022	Hydraulic Hose 1/2 X 18	4
5	B020035	Tube Coupling 1/2 X 5/8	4
6	+060454	Tubing 5/8 X 114	2
7	+060455	Tubing 5/8 X 116	2
8	B020010	Tee Coupling 5/8 X 1/2	2
9	*622464	Tubing 5/8 X 93	2
10	*622463	Tubing 5/8 X 90-1/2	2

* R Model Only
 +RF Model Only

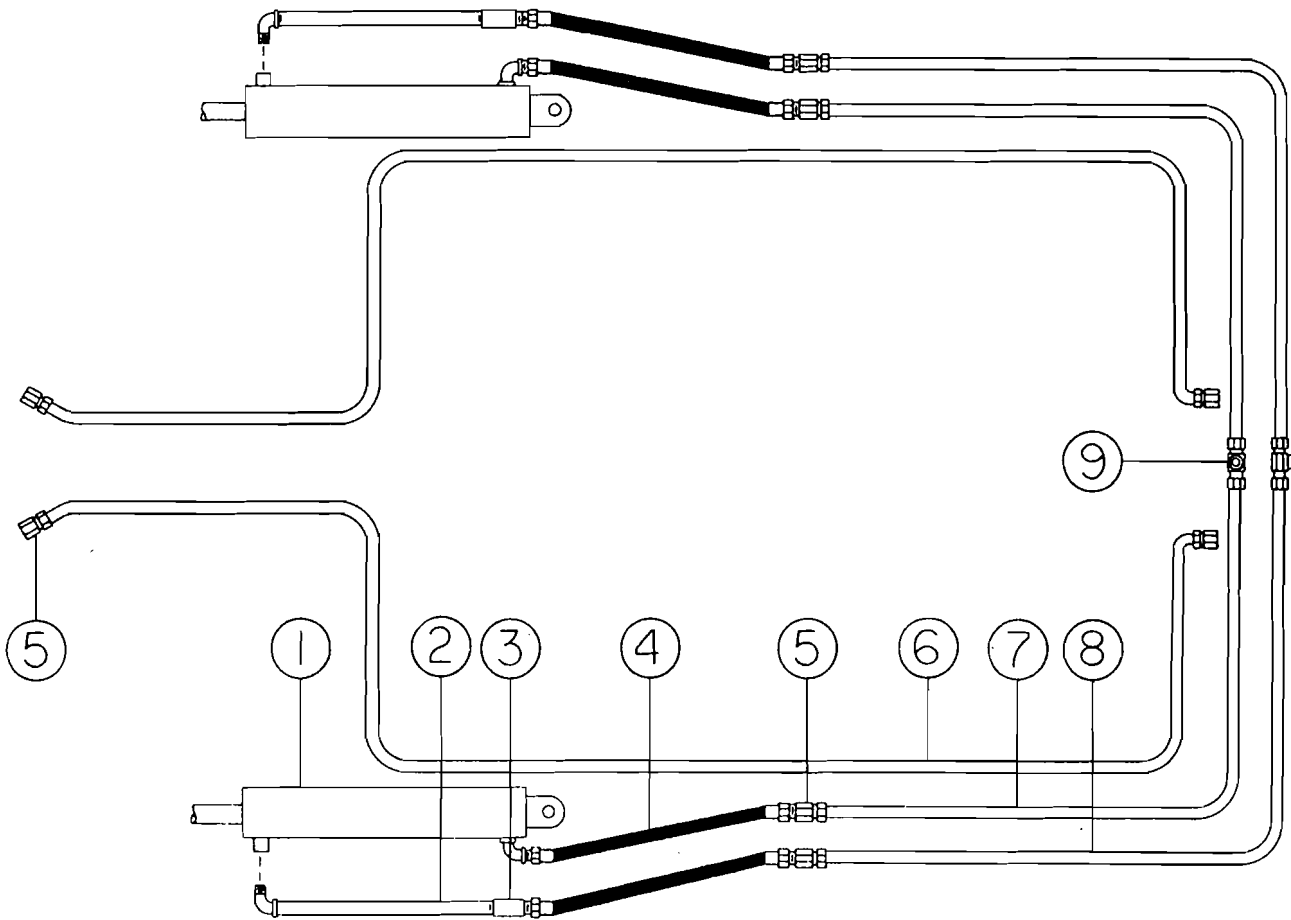
Figure 6



PARTS LIST FOR 75RT HYDRAULICS - 621460 (See Figure 7)

<u>Item</u>	<u>Part No</u>	<u>Description</u>	<u>Qty</u>
1	620400	Cylinder Assembly 4"	2
2	040357	Pipe 1/2 X 18	2
3	B020024	Pipe Coupling 1/2	2
4	B021022	Hose 1/2 X 18	4
5	B020035	Coupling 5/8 Tube to 1/2 FPT	8
6	621462	Tubing 5/8 X 230	2
7	622463	Tubing 5/8 X 90-1/2 (Inside)	2
8	622464	Tubing 5/8 X 93 (Outside)	2
9	B020010	Branch Tee 5/8 Tube to 5/8 Tube to 1/2 FPT	2

Figure 7



PARTS LIST FOR 75RFT HYDRAULICS - 060460 (See Figure 8)

<u>Item</u>	<u>Part No</u>	<u>Description</u>	<u>QTY</u>
1	620400	Cylinder Assembly 4"	2
2	040357	Pipe 1/2 X 18	2
3	B020024	Pipe Coupling 1/2	2
4	B021022	Hose 1/2 X 18	4
5	060454 ¹⁰⁷⁻¹⁰³⁴	Inner Tubing 5/8 X 114	2
6	060455 ¹⁰⁷⁻¹⁰³⁵	Outer Tubing 5/8 X 116	2
7	060461	Tubing 5/8 X 245-1/2	2
8	B020035	Coupling 5/8 Tube to 1/2 FPT	8
9	B020010	Branch Tee 5/8 Tube to 5/8 Tube to 1/2 FPT	2
10	B020051	Elbow 5/8 Tube to 5/8 Tube	2
11	060462	Tubing 5/8 X 40	2

Figure 8

