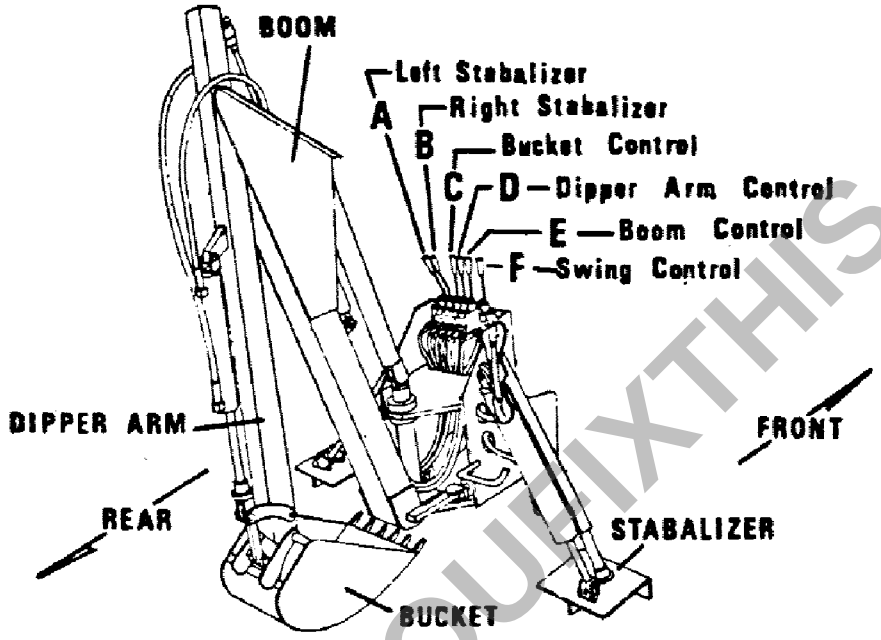
STANDARD 6-LEVER CONTROL OPERATING INSTRUCTIONS



!! KNOW YOUR CONTROLS !!

LEVER DESCRIPTION	REF.	OPERATING HANDLE	
		TOWARD FRONT	TOWARD REAR
Left Stabalizer	A	Raises Left Stabalizer	Lowers Left Stabalizer
Right Stabalizer	B	Raises Right Stabalizer	Lowers Right Stabalizer
Bucket Control	C	Opens Bucket	Closes Bucket
Dipper Arm Control	D	Closes (Crowds) Dipper Arm	Opens (Extends) Dipper Arm
Main Boom Control	E	Raises Main Boom	Lowers Main Boom
Boom Swing Control	F	Swings Boom Right	Swings Boom Left

Any Equipment, Improperly Used, Can Be Dangerous !

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HYDRAULIC CYLINDER MAINTENANCE

GENERAL INFORMATION - Prior to attempting to repair (or disassemble) any hydraulic unit, prepare a clean work area. REMEMBER: DIRT IS DEATH TO HYDRAULICS! Seal Kits (for cylinders), when received, may contain two complete sets of seals since different cylinders were employed in manufacturing. Comparison of parts removed from your old cylinder with new parts included in Seal Kit will quickly indicate which kit is applicable. Procedures for repair that follow are applicable to either type as are associated drawings and parts list contained herein.

I. **CYLINDERS** (Ref. Assembly Drawing, Page 11)

A. DISASSEMBLY - PROCEDURES SHOULD BE FOLLOWED STEP-BY-STEP BEGINNING WITH:

1. (a) Protect chrome finish on rod at all times.
   (b) Note: Direction of rotation for removal of lockwire depends on prior installation. Check lockwire position for correct rotation.
   (c) A sharp object, such as a small screwdriver must be used to get under the lockwire to start it out of the cylinder.
   (d) Locate spanner wrench in drilled holes in gland and rotate 360 degrees.



2. (a) Pull on rod to remove the piston and gland.
   (b Remove nut from end of rod.
   (c) Remember, all seals must be replaced once cylinder is disassembled.

B. CLEANING AND INSPECTION

1. Check rod and barrel bore for nicks, burrs, scratches, or rust. Slight defects may be removed with fine sand paper. Badly pitted barrel bore or rod may indicate replacement of the damaged part.

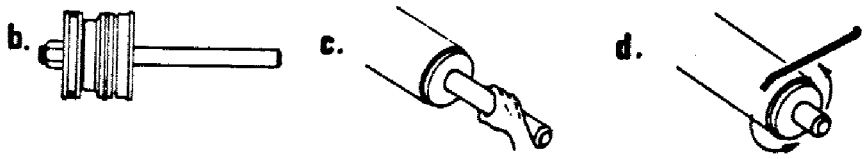
2. All parts should be thoroughly cleaned using clean solvent. Be sure to carefully clean all cavities and grooves thoroughly prior to reassembly. (Only a cleaning solvent should be used.)

C. ASSEMBLY

1. (a) Install all seals. Do not over stretch seals to facilitate easier installation.
   (b) Make sure all seals are not twisted or distorted in grooves.
   (c) Be careful not to nick or damage seals with fingernails or tools.

2. (a) Install gland on rod.
   (b) Install piston on rod "turn down".
   (c) Install locknut and torque to 150 ft. lbs.

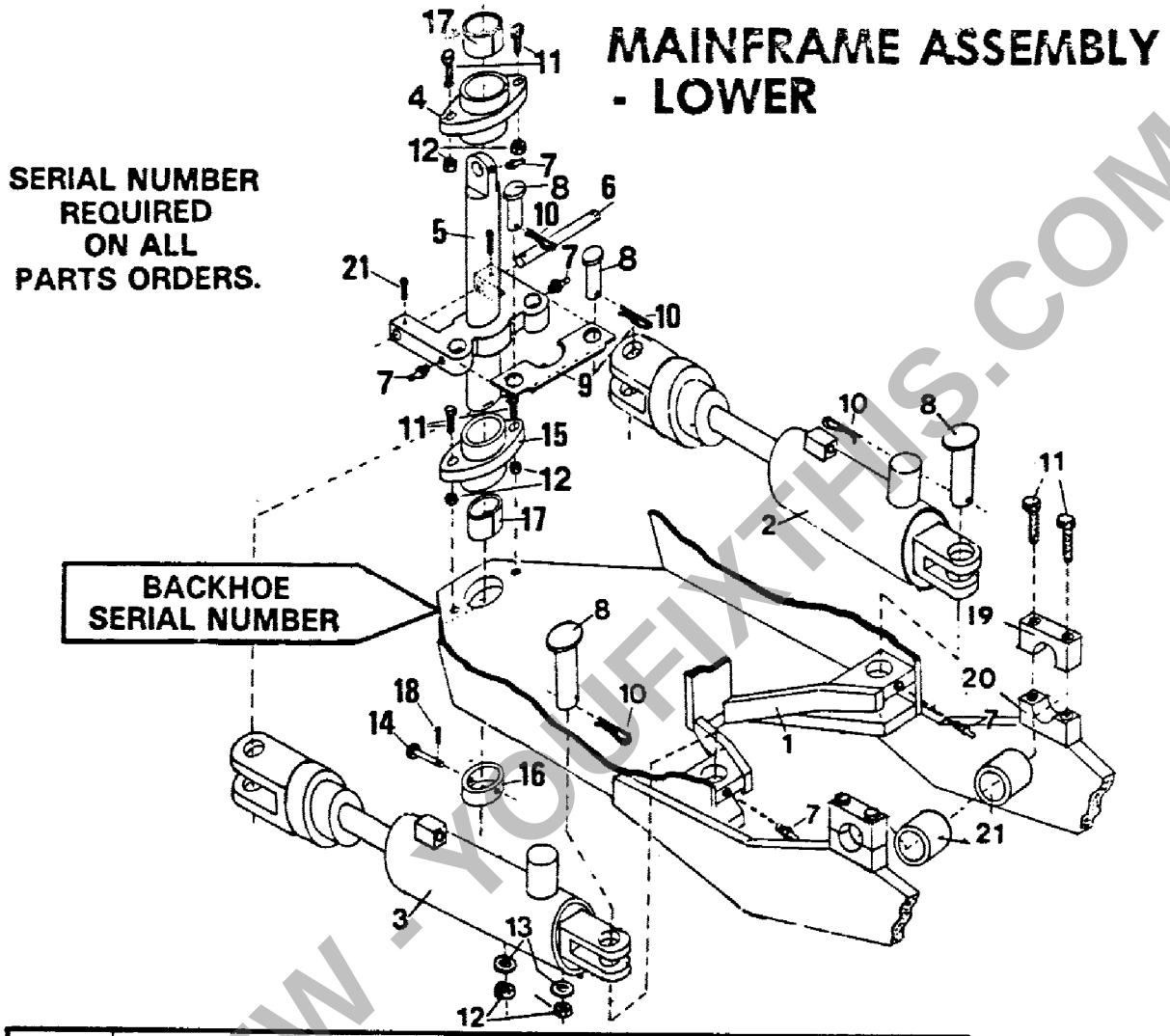
3. (a) Lubricate all parts and inside of cylinder with hydraulic oil
   (b) Push the piston into the cylinder bore with a steady, even pressure.
   (c) Push gland into bore until shoulder or gland butts up against barrel.



(d) Locate drilled hole in gland through milled slot in the barrel and insert lockwire. Rotate the gland 360 degrees to "feed" lockwire into "lock" position.

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ITEM	DESCRIPTION	PART NUMBER	QUANTITY
1.	Housing, Main frame	610-10	1
2.	Cylinder, Hydraulic, Left	606	1
3.	Cylinder, Hydraulic, Right	605	1
4.	Bearing, Swing Shaft, Upper	617-1	2
5.	Assembly, Swing Shaft	654	1
6.	Pin, Boom Swivel	655	1
7.	Zert, Grease	648	2
8.	Pin, Cylinder	650	4
9.	Plate, Pin Bearing	656	1
10.	Clip, Hairpin	785	4
11.	Bolt, Machine	3/16 x 1 1/2	2
12.	Nut, Hex	5/16	2
13.	Washer, Lock	5/16	2
14.	Pin, Clevis	5/16 x 3	1
15.	Bearing; Swing Shaft, Lower	617-2	1
16.	Ring, Pressure	2011-1	1
17.	Bushing, Hardened Steel	748	1
18.	Pin, Cotter	1/8 x 1	1
19.	Hanger, Top	2051-1	1
20.	Hanger, Bottom	2051-2	1
21	Bushing	786-1	2

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NOTE:

SAFE AND EFFICIENT OPERATION OF YOUR NEW BACKHOE WILL DEPEND, FOR THE MOST PART, ON BECOMING PROFICIENT WITH ITS OPERATION. TIME SPENT, IN BECOMING FAMILIAR WITH ITS CONTROLS, WILL PAY BIG DIVIDENDS IN LONGER EQUIPMENT LIFE, FASTER WORK PERFORMANCE, AND POSSIBLY, AVOIDING INJURY.

Operation of the Backhoe is straight forward, following natural tendencies. (Forward to raise or close, backward to lower or open.) Practice with the equipment so that operation is performed as smoothly, as quickly, and with as little wasted motion as possible. It is in avoiding wasted motion that you will save in equipment wear and time lost in job performance.

For maximum power, it is best to shift the tractor speed shift lever (if tractor is so equipped) into the low speed range. **DO NOT OPERATE TRACTOR IN THIRD GEAR OR HIGH SPEED POSITION.**

The tractor throttle should be initially set at approximately 30% of full range. Due to the efficiency of the hydraulic pump, it is not necessary to "race" the engine to assure proper performance. The type of work load, soil conditions, etc., may require raising the speed slightly or may allow decreasing the speed slightly.

General operation of the control levers is recapped in the table on Page 4 and should be carefully studied, and practiced, prior to actual use of the equipment in a work situation.

For initial set-up of the equipment, back tractor into position with the center of the tractor and backhoe along a line in the general direction in which you wish to dig. Stop the tractor with the mainframe of the backhoe approximately five to seven feet (1.52 to 2.13 meters) from the point you wish to start digging. Keep in mind that the edges of the hole you wish to dig will slope toward the center at both front and rear so that deepest part of the hole will be slightly forward, depending on depth, from the point at which you start digging.

Operate control levers (A) and (B) toward the rear to lower stabalizers. Stabalizers should be lowered until they "lift" the tractor clear of ground contact by three or four inches. (the weight of the tractor will assure that stabalizers stay firmly seated.) Next, lower loader bucket (in dump position) or front blade until front wheels are also clear. (This will prevent "rolling" and preclude stabalizer damage.)

To begin digging, operate control lever (D) toward the rear to open the dipper arm until bucket is poised over the point at which you wish to start digging. (It may be necessary to operate lever (E) toward rear to lower main boom for adequate "reach".) Now operate control lever (C) to position bucket almost parallel to the ground, but tilted slightly so that it will "dig". (Too little "tilt" will cause the bucket to "skate" across the top of the ground; too much "tilt" will cause it to drag or "bog" down.)

Now operate lever (D) forward slowly (adjusting lever "E" to raise or lower boom thus adjusting digging depth) and operating lever (C) to control "tilt" of bucket. Gradually bring bucket toward you until full. Proper interaction of levers (C) and (D) is critical to efficient filling of the bucket with the least amount of effort and time. Close bucket by pushing lever (C) full toward the rear.

Operate lever (E) forward to raise the main boom until bucket is clear of ground obstacles (sides of trench, piles of dirt, etc.). It may be necessary to extend dipper arm to achieve necessary clearance. Normally the dipper arm will need to be extended, anyhow, to allow for deposit of material well away from the digging area.

Operate lever (F) to "swing" main boom right of left, depending on the area selected for deposit of material, until main boom is in line with the deposit area. Now, fully extend the dipper arm, for maximum reach or until bucket is positioned over deposit area. Open bucket and "dump" material.

Swing main boom in reverse direction to bring back in line with digging area, close dipper arm, and position bucket for best digging position. Lower main boom and repeat the process already performed in initially filling the bucket.

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