

# JOHNSON

"Work Horse"

## LOADER

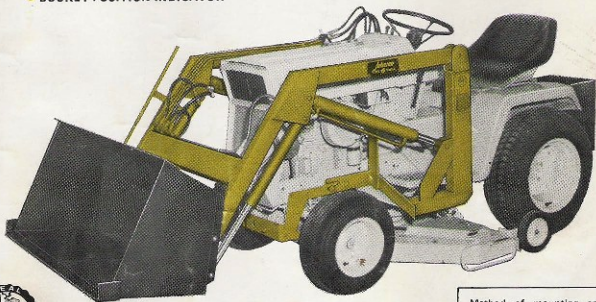
MODEL

# 10 TC

FOR  
INTERNATIONAL  
CUB CADET  
10, 12, 14 H.S.P.  
COMPACT TRACTORS

- GREATER BREAKAWAY CAPACITY
- HIGHER LIFT
- 350 POUNDS PAYLOAD
- BUCKET POSITION INDICATOR

### MOWER AND LOADER MOUNT TOGETHER



Method of mounting and using this equipment on tractors specified is accepted by International Harvester Company and will not affect the warranty of the tractor. Performance and warranty of the equipment are the responsibilities of its manufacturer.

**SPECIFY TRACTOR MAKE AND MODEL WHEN ORDERING**

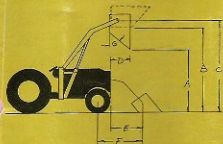
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J1039-1-70PS

## SPECIFICATIONS

- Unit construction - box construction.
- A 50 1/2" clearance under bucket fully dumped.
  - B 65" clearance under fully raised bucket.
  - C 67" height to pivot fully raised.
  - D 10" reach with bucket fully dumped.
  - E 10" clearance from grille to bucket.
  - F 19" reach from axle to bucket.
  - G 47° dumping angle.

Total weight as shown above—350 lbs.  
Bucket Capacity 350 lbs. Payload  
Reservoir 4 qt., with filter screen in upright.  
Time of lift—5 sec.  
Counter weight required.  
Hydraulic valve.  
Hydraulic pump—1150 p.s.i.  
Hydraulic cylinders, double acting.



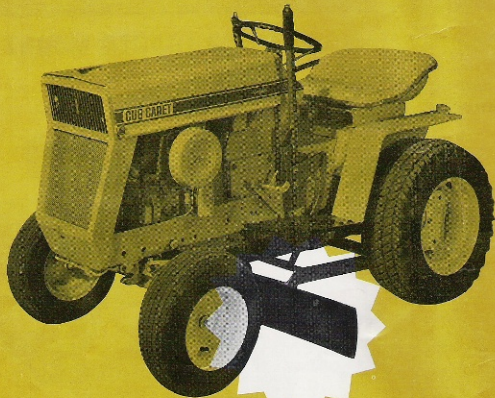
# JOHNSON HYDRAULIC EQUIPMENT CO.

215 W. 78th STREET

MINNEAPOLIS MINNESOTA 55420

# JOHNSON "WORK HORSE" TERRA-BLADE

## FOR INTERNATIONAL CUB CADET TRACTORS MODEL 70 AND UP



### IDEAL FOR LANDSCAPING PREPARATION

- Blade may be mounted or removed in minutes.
- Blade positions, straight, right or left 20°
- 3/8" x 6" blade available in 42" or 50" lengths
- Blade made of high carbon grader blade stock
- Extra lift handle available to position blade when mounted with tiller.
- Doubles the efficiency of your equipment.

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MANUFACTURERS OF THE FAMOUS "WORK HORSE" LOADER

215 WEST 78TH STREET • MINNEAPOLIS, MINNESOTA 55420

PHONE: AREA 612  
866-8473



This manual will help you get the most value from your Johnson loader. Read carefully all assembly, operating, adjusting and service information. You will find many helpful pointers which will not only save time but will help you operate the loader most efficiently.

Since 1944, Johnson Hydraulic Equipment Co. has specialized in building hydraulic loaders for agricultural and industrial use, and are one of the oldest loader manufacturers in the United States today.

The JOHNSON Loader is manufactured to the high standards of Johnson Hydraulic Equipment Co., and it has been designed to give you, the customer, the many features you had in mind.

### WARRANTY

WE WARRANT all new products of our own manufacture to be free from defects in material and workmanship, for a period of 90 days. Component parts not of our manufacture are covered by the guarantees of their respective manufacturers.

We will replace free of charge f.o.b. distributor's warehouse or customer's warehouse any parts covered by our warranty which shall within 90 days after date of delivery to original user, be returned to our factory, transportation charges prepaid, providing our inspection show such parts to be defective in workmanship or material.

THIS WARRANTY shall not apply to products which have been repaired or altered prior to their inspection by our factory, nor shall it apply to products which have been subjected to abuse, negligence, or accident; further, this Warranty shall not apply to products which have been used in applications for which they were not designed or intended.

After you have read this manual thoroughly, keep it handy for ready reference. When in need of parts and major service, see your authorized tractor dealer. He has trained servicemen as well as genuine service parts and the necessary tools and equipment to handle all your needs.

A complete list of parts is included in this manual.

Right-hand (R.H.) and Left-hand (L.H.) reference is determined by standing at the rear of the tractor or loader and facing the direction of travel.

### REMOVING LOADER

1. Drain oil from loader system by removing drain plug in bottom of upright tank. BE SURE TO USE A CLEAN CONTAINER FOR THE OIL.

#### NOTE:

On Tractor Hydraulic Systems DO NOT DRAIN OIL — Remove Loader Hoses from tractor system and re-attach tractor hoses.

2. Disconnect pump hoses at upright and valve.
3. Remove all bolts and/or pins attaching uprights to front mounting and sub-frame. Now remove lift frame and uprights as one unit.
4. Remove front mounting.
5. Remove sub-frame.

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Trouble Shooting . . . . .	4
Assembly Instructions & Parts List . . . . .	5-20
Attachments . . . . .	21-22

## IMPORTANT

When in need of parts, be prepared to give serial number shown on top of Right Hand upright of loader —write it in the blank space below, now.

### JOHNSON LOADER

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

1. OPERATION: Do not run tractor engine with belt on pump until loader is mounted and full of oil.
2. Check oil level periodically to make sure oil is not more than 8 inches below top of tank. IMPORTANT: USE ONLY LIGHT WEIGHT ANTI-FOAM AND ANTI-SLUDGE HYDRAULIC OIL, FOR BEST PERFORMANCE.
3. Start tractor and operate loader, extending all cylinders to remove air.

Always have engine running at least half speed while operating loader. If loader is operated at very low engine speed, hydraulic pump will not displace oil fast enough and oil will be forced out of breather.

To RAISE loader, pull control lever toward you as far as it will go. Lever will return to Neutral as soon as you release it. To LOWER loader, push lever forward.

4. Check hydraulic oil level in system. If loader does not reach maximum height, a shortage of oil is indicated.

Operate loader several times, and with all cylinders collapsed check and maintain correct oil level.

5. For smooth performance and efficient operation, adhere to the following instructions:

Be sure pump is running whenever loader is operated.

Should loader be left in raised position, be sure to start pump before lowering loader. If loader is dropped with 'dead pump,' the oil lines will be filled with air, causing jerky loader operation and also causing oil to come out of top of tank through breather.

6. For ballast, use two sets of rear wheel weights with 150 lbs. in the ballast box, or one set of rear wheel weights with 230 lbs. in the ballast box.
7. For maximum tire service, front tires should be inflated to 40 lbs. p.s.i. on 4-ply tires. (Tire manufacturers recommend 4-ply rating for commercial type operation.)



# CAUTION

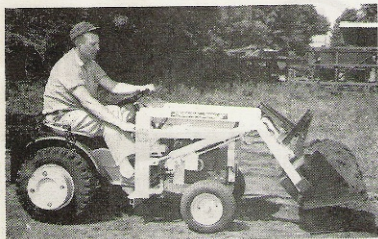
- 1 Do not operate loader unless hydraulic pump is running.
- 2 Ballast tractor rear wheels for stability.
- 3 Lift load, engage tractor clutch and accelerate tractor with care.
- 4 In transport, carry working unit low.
- 5 Before servicing or adjusting equipment:
  - a. Lower working unit to ground. Bucket with springs should not be in tripped position.
  - b. Disengage power and shut off engine.
  - c. Relieve hydraulic pressure before disconnecting oil lines.



## WRONG!

Rear wheels not extended to widest tread width - no wheel weights - no ballast box.

Under no conditions should tractor be driven with bucket in raised position. To do so may cause serious injury to both operator and equipment. **TOP HEAVY EQUIPMENT IS PRONE TO TIP.**



## RIGHT!

Rear wheels in widest tread position, with wheel weights and ballast box.

In transport, carry working unit low, as shown in picture.

### PRE-STARTING INSPECTION

Be sure loader has been properly assembled to tractor. Assembly instructions are on pages 5-10.

### SERVICE

#### BOLTS

For maximum life of your loader check mounting bolts at periodic intervals. Through constant operation, bolts can loosen and cause excessive wear on loader.

### SERVICE (Cont.)

#### BELT

When V-belt slippage is first noticed, tighten V-belt immediately to prevent excessive wear. Do so by loosening nuts on pump and moving pump back until a 10-pound pressure midway between the sheaves deflects the belt 1/4 inch. Tighten nuts to hold pump in this position to maintain proper tension.

#### SCREEN

After loader has been operated several hours, remove drain plug from bottom of upright tank and drain oil from reservoir.

Disconnect low pressure hose from upright, and remove screen from tank. Flush and clean tank and screen. Reassemble. (This screen should be removed from time to time for cleaning. If screen becomes clogged, cavitation of pump will result and pump will wear out very quickly.)

#### CYLINDERS

Cylinder service normally consists of replacing O-Rings and packings to correct a leaking condition. If disassembly reveals defective wiper, scored piston, or barrel, these parts should be replaced.

To replace rings and packings:

1. Remove the wiper and snap ring from cylinder tube.
2. Slide the piston rod and attached parts out of cylinder barrel.
3. Remove nut from end of the piston rod.
4. Slide components off threaded end of piston rod.
5. Replace defective 'o' rings and backup washers.
6. Assemble cylinder in reverse order of disassembly being careful not to cut or nick 'o' rings.
7. Be sure snap ring is properly seated in groove.

#### PUMP AND VALVE

If trouble indicates pump or valve failure, do not attempt repairs but return to factory for inspection and proper servicing.

Valve and Pump pressure are preset by manufacturer, and should not be tampered with. They are set at tractor manufacturer's recommendations.

**ANY EVIDENCE OF TAMPERING WILL  
AVOID ALL WARRANTY.**

#### TROUBLE SHOOTING

Unit will not operate:

1. Low oil supply
2. Obstructed oil lines
3. Improper hose installation
4. Omission of key in pulley
5. Worn pump
6. Excessive V-belt wear from improper alignment and/or tension.

Unit operating inefficiently

1. Leaky seals in cylinders
2. Leaky or worn valve
3. Sticky valve spool
4. Do not warp valve by using excessive pressure on mounting bolts or with excessive by-passing of valve pressures.
5. Operating with low oil supply will cause heat in system and make oil too thin for proper operation.

## To The Purchaser . . .

This manual will help you get the most value from your Johnson loader. Read carefully all assembly, operating, adjusting and service information. You will find many helpful pointers which will not only save time but will help you operate the loader most efficiently.

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WE WARRANT all new products of our own manufacture to be free from defects in material and workmanship, for a period of 90 days. Component parts not of our manufacture are covered by the guarantees of their respective manufacturers.

We will replace free of charge f.o.b. distributor's warehouse or customer's warehouse any parts covered by our warranty which shall within 90 days after date of delivery to original user, be returned to our factory, transportation charges prepaid, providing our inspection show such parts to be defective in workmanship or material.

THIS WARRANTY shall not apply to products which have been repaired or altered prior to their inspection by our factory, nor shall it apply to products which have been subjected to abuse, negligence, or accident; further, this Warranty shall not apply to products which have been used in applications for which they were not designed or intended.

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Model No. \_\_\_\_\_

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To **RAISE** loader, pull control lever toward you as far as it will go. Lever will return to Neutral as soon as you release it. To **LOWER** loader, push lever forward.

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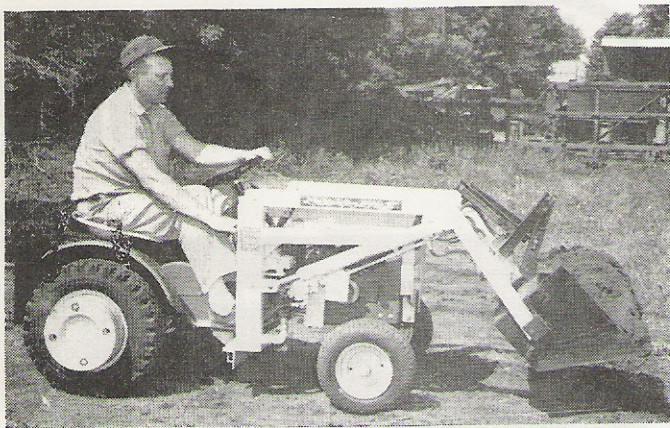
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3. Improper hose installation
4. Omission of key in pulley
5. Worn pump
6. Excessive V-belt wear from improper alignment and/or tension.

Unit operating inefficiently

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2. Leaky or worn valve
3. Sticky valve spool
4. Do not warp valve by using excessive pressure on mounting bolts or with excessive by-passing of valve pressures.
5. Operating with low oil supply will cause heat in system and make oil too thin for proper operation.

INSTRUCTIONS FOR MODEL 1000 LOADER  
on  
THE GUB CADET MODELS 100 thru 127

Refer to Schematic Drawings

- Step 1. Remove front PTO rod from hand lever link by pulling clip pin and spring.
- Step 2. Remove muffler.
- Step 3. Remove shroud (screen) over drive shaft.
- Step 4. Remove dowel pin and four bolts from drive shaft pulley (or flange).
- Step 5. Remove four engine mounting bolts and tip engine forward enough to install loader drive pulley and belt (31330 on gear tractor, 41330 on hydro) on drive shaft (See diagram J1063).
- Step 6. Leaving pulleys loose, remove engine, muffler and front PTO rod.
- Step 7. Install dowel pin (No. 1977 furnished with loader) flush with tractor pulley flange. (See diagram J1063).
- Step 8. Bolt loader pulley (No. 1976) and tractor pulley to engine using four 1/4 x 1-1/4 cap screws and lock washers furnished with loader.
- Step 9. Install loader mounting upright frames per diagram (J1062).  
NOTE: on Model 127, one mounting hole must be drilled.
- Step 10. Align and tighten V-belt per instructions on Page 4.

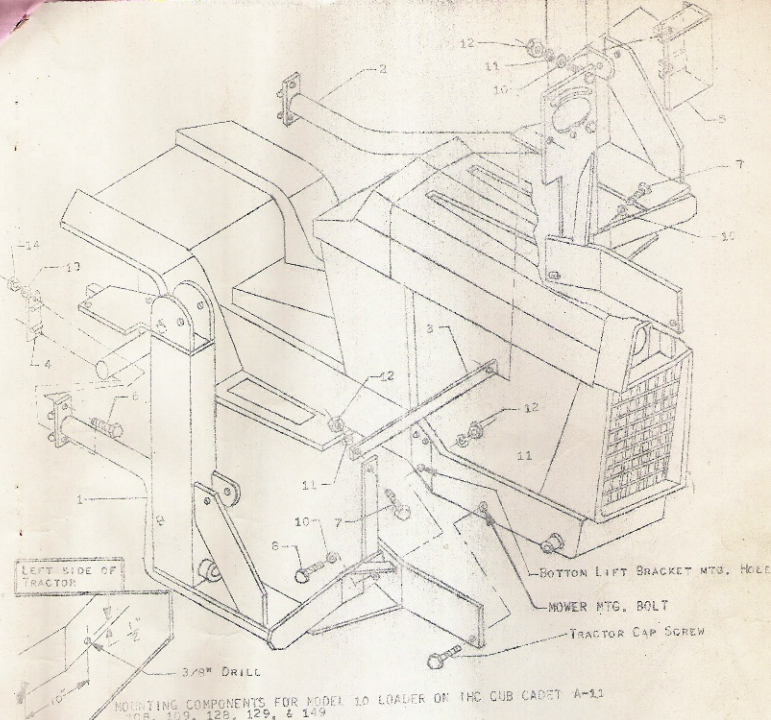
NOTE: DO NOT RUN PUMP UNTIL UNIT IS FILLED WITH OIL

- Step 11. Install lift frame and lift cylinders to uprights.

USE THREAD SEALANT ON ROSE ENDS GOING TO FRONT LINES. DO NOT USE SEALANT WHERE ROSE FITS INTO SWIVEL ADAPTERS.

- Step 12. Install hoses per J1061 and hose connecting diagram.
- Step 13. Fill unit with oil (2 to 5 quarts). Work air out of circuits by cranking and retracting eyes several times until they are smooth and solid.
- Step 14. Install ballast box and bucket and adjust bucket indicator rod.

DO NOT OPERATE BUCKET IF ENGINE IS NOT RUNNING - THIS WILL PULL AIR INTO CIRCUITS.



MOUNTING COMPONENTS FOR MODEL 10 LOADER ON IHC CUB CADET A-11  
 108, 109, 128, 129, & 149

— MOWER MTD. BOLT

REF. No.	PART No.	No. Req'd.	NAME OF PART
1	2052-R	1	RIGHT UPRIGHT MTD.
2	2052-L	1	LEFT UPRIGHT MTD.
3	2053	1	TIE BAR
4	1690	2	CLAMP PLATE
5	2054	1	PUMP MTD. GUARD
6	6 M 64	4	1/2 X 4" CAP SCREW
7	6 M 20	3	3/8 X 1-1/4" CAP SCREW
8	6 M 24	1	3/8 X 1-1/2" CAP SCREW
10	6 MK 2	4	3/8" FLAT WASHER
11	6 MK 1	6	3/8" LOCK WASHER
12	6 MJ 1	6	3/8" HEX NUT
13	8 MK 1	4	1/2" LOCK WASHER
14	8 MJ 1	4	1/2" HEX NUT



4850 KAT FILL INC. CUB GULLY 15" DIA. X 127" WITH HOSE, 50 FT. L. 15"

3/8" X 90° SW. GULLY  
3/8" X 3045/2" OME. XING  
LOSS  
1/2" X 90° SW. GULLY  
1/2" X 90° SW. GULLY

ADAPTER HT. 9 1/2" DIA. X  
3/8" MESH (1 REQ.)

CORONA VALVE 75 J 1-4

ADAPTER IN. 90° 9 1/2" DIA. X  
3/8" MESH (1 REQ.)

1/2" X 90° SW. GULLY  
1/2" BARBED INSERT  
X 1/2" HOPT  
1/2" HOSE CLAMP  
1/2" X 2 1/2" I. P. HOSE  
DRAINAGE HOSE (A. V. REQ.)

1/2" BARBED  
INSERT X 3/8"  
MESH (2 REQ.)

1/2" HOSE CLAMP  
1/2" X 2 1/2" I. P.  
HOSE

3/8" X 90° SW. GULLY

SCREEN #1043  
3/4" X 1 1/2" DIA. HOLE

1/2" BARBED INSERT X  
1/2" HOPT

1/2" X 90° SW. GULLY  
1/2" X 90° SW. GULLY

GEAR TRACTOR  
LINE HUB TOWARDS  
PUMP

HYDROSTATIC TRACTOR  
PUMP

HYDROSTATIC TRACTOR  
PUMP

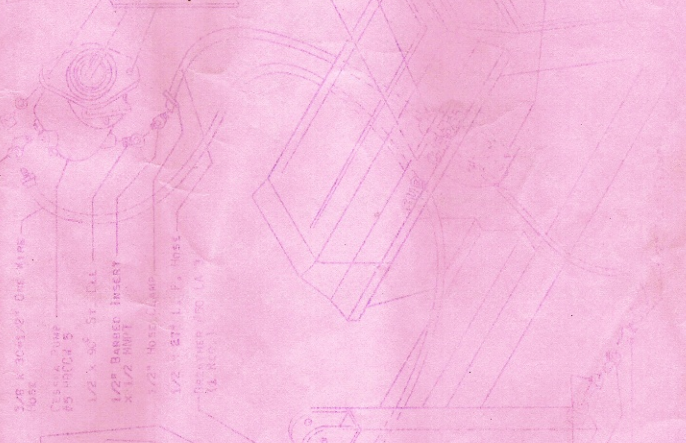
HYDROSTATIC TRACTOR  
PUMP

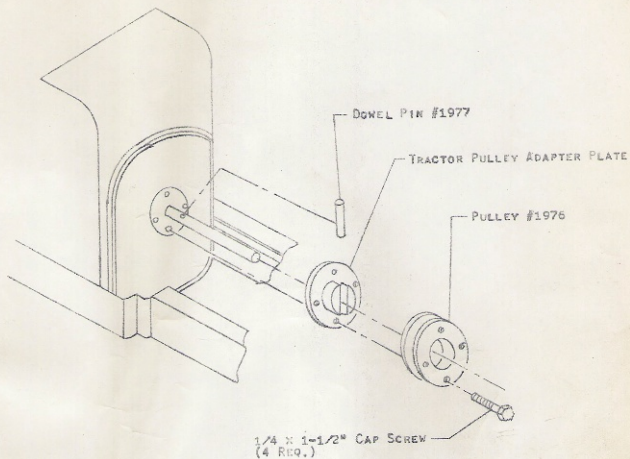
HYDROSTATIC TRACTOR  
PUMP

V-BELT: 3 L. 330---GEAR TRA  
V-BELT: 4 L. 330---HYDROSTATIC  
TRACTOR

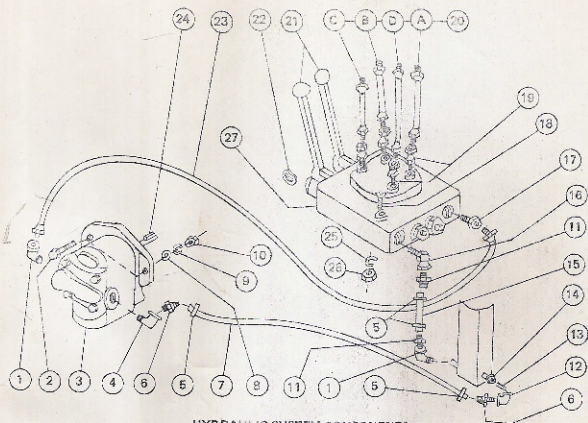
TRUCK #14 (1977)  
TRUCK #15 (1976)  
GEAR TRACTOR USES TRACTOR  
PUMP

TRUCK #16 (1977)  
TRUCK #17 (1976)  
GEAR TRACTOR USES TRACTOR  
PUMP



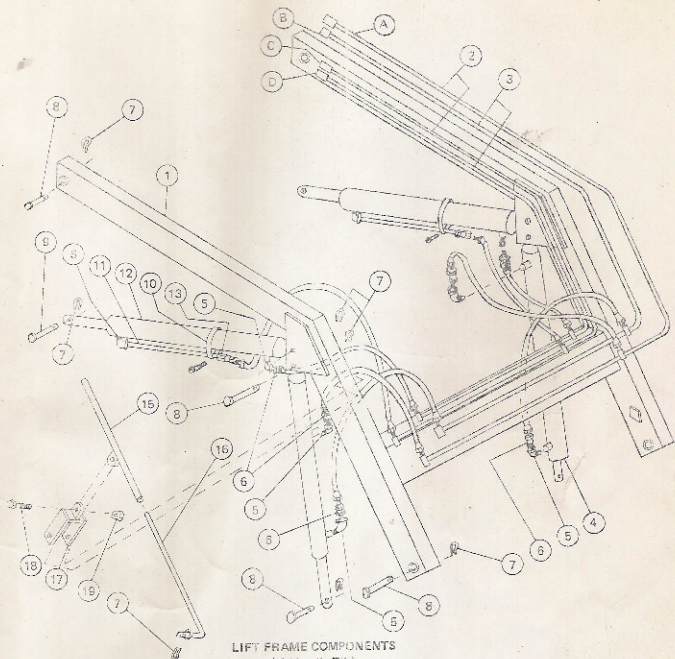


MOUNTING INSTRUCTIONS FOR INSTALLING PUMP DRIVE PULLEY ON IHC CUB CADET WITH  
HYDROSTATIC DRIVE



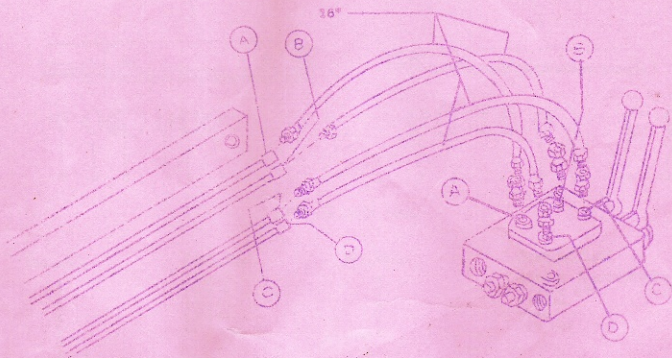
HYDRAULIC SYSTEM COMPONENTS  
(Hydraulic Tilt)

Ref. No.	Part No.	No. Req.	Name of Part
1	6 NC 3	2	3/8" St. Ell
2	6 M 20	2	3/8" Cap Screw
3	5 HBCCW 5	1	Pump-IHC Cub Cadet
	5 HB 5	1	Pump-All other tractors
4	6 NC 3	1	1/2" St. Ell
5	6 CT 1	4	1/2" Hose Clamp
6	8 GV 8	2	1/2" Barbed Insert x 1/2 MNPT
7	8 G 10	1	1/2 x 10 L.P. Hose-Bolens 1050
	8 G 8	1	1/2 x 8" L.P. Hose-Bolens 1250
	8 G 16	1	1/2 x 16" L.P. Hose-Case 195, IHC Cub Cadet
	8 G 42	1	1/2 x 42" L.P. Hose-Massey Ferguson
	8 G 33	1	1/2 x 33" L.P. Hose-Wheel Horse
	8 G 20	1	1/2 x 20" L.P. Hose-Minneapolis-Moline, Ford, Jacobson
8	6 MK 2	1	3/8" Flat Washer
9	6 MK 1	2	3/8" Lock Washer
10	6 MJ 1	2	3/8" Hex Nut
11	8 GV 6	2	1/2" Barbed Insert x 3/8 MNPT
12	12 NC 8 A	1	3/4 x 1/2" Reducing Ell
13	12 N.1	1	3/4" Close Nipple
14	1043 A	1	Screen
15	8 G 17	1	1/2 x 17" L.P. Hose
16	6 GO 6	1	Adapter MF 60° 9/16-18 x 3/8 NPSM
17	6 GM 8	1	Adapter MF 9/16-18 x 3/8 NPSM
18	4 MH 32	2	1/4 x 2" Stove Bolt
19	4 GM 4	4	Adapter MF 7/16-20 x 1/4 NPSM
20	4 GB 16	4	1/4 x 18" One Wire Hose
21	D J 16	2	Valve Handle
22	50	2	Diamond Link
23	6 GB 24	1	3/8 x 24" One Wire Hose-Bolens 1050, IHC Cub Cadet Minneapolis-Moline, Ford, Jacobson
	6 GB 18	1	3/8 x 18" One Wire Hose-Bolens 1250, Case 195
	6 GB 40	1	3/8 x 40" One Wire Hose-Massey Ferguson, Wheel Horse
24	1 L 2	1	1/8 x 1/8" Key
25	4 MK 1	2	1/4" Lock Washer
26	4 MJ 1	2	1/4" Hex Nut
27	5 J 44	1	Valve

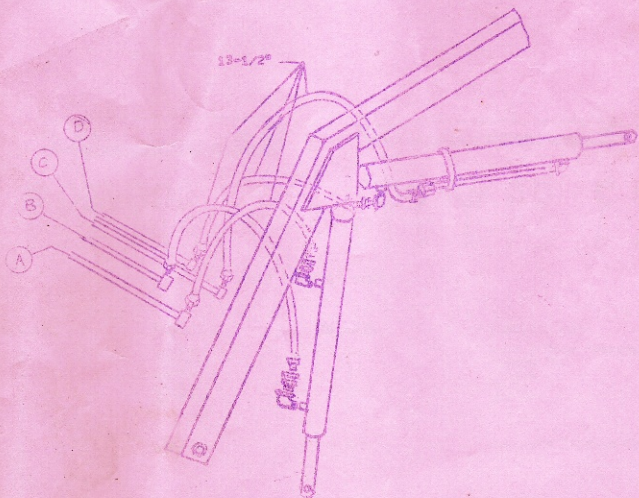


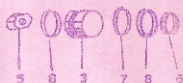
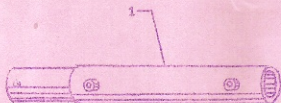
LIFT FRAME COMPONENTS  
(Hydraulic Till)

Ref No.	Part No.	No. Req.	Name of Part
1	1801 (Specify Tractor)	1	Lift Frame
2	1801-12 (Specify Tractor)	2	Oil Line
3	1801-13 (Specify Tractor)	2	Oil Line
4	1807	2	Tilt Cylinder
5	4 NC 3	8	1/4" St. Ell
6	4 GH 4	6	1/4" Male Adapter
7	0067	13	Clip Pin
8	0062	10	1/2 x 2" Attachment Pin
9	0061	2	1/2 x 2" Cylinder Rod Pin
10	12 GP 12	2	Pipe Strap
11	1606-20	2	Lift Cylinder return line
12	1806	2	Lift Cylinder
13	4 GK 4	2	1/4" Female Adapter
14	4 GB 13-1/2	8	1/4" x 13-1/2 One Wire Hooks
15	1830-1	1	Indicator Tube
16	1830-2	1	Indicator Rod
17	1830-3	1	Indicator Clamp
18	5M 16	1	5/16 x 1" Cap screw
19	5MJ 1	1	5/16 Hex Nut



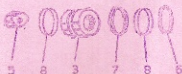
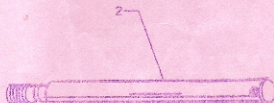
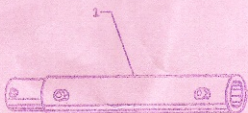
RIGHT HAND OIL LINE HOSE-UP FOR MODEL 10 TC LOADER





LIFT CYLINDER 1806

<u>REF. No.</u>	<u>PART No.</u>	<u>No. REQ.</u>	<u>NAME OF PART</u>
1	1806-1	1	BUTT & TUBE ASSEMBLY
2	1806-2	1	PISTON ROD
3	1806-3	1	PISTON
4	1806-4	1	HEAD
5	12 HJ 2	1	HEX NUT
6-12	1806-5	1 KIT	CYLINDER PACKING KIT



TILT CYLINDER 1807

<u>REF. No.</u>	<u>PART No.</u>	<u>No. REQ.</u>	<u>NAME OF PART</u>
1	1807-1	1	BUTT & TUBE ASSEMBLY
2	1807-2	1	PISTON ROD
3	1807-3	1	PISTON
4	1807-4	1	HEAD
5	12 HJ 2	1	HEX NUT
6-12	1807-5	1 KIT	CYLINDER PACKING KIT

WORKING SLIP for HISSLE AUTO LOADER  
on  
BIG CUT CABOT, MODELS 102 thru 107.

LIFT FRAME (No. 1801) with:

- A. 4 right hand oil lines
- B. 2 Lift cylinders (No. 1806) with fittings
- C. 2 Tilt cylinders (No. 1807) with fittings
- D. 6 - 1/2 x 2-3/4 Pins (No. 0061) and clips
- E. 6 - 1/2 x 2-3/4 Pins (No. 0062) and clips

II. RIGHT UPRIGHT HOSELINE (No. 1974R) with:

- A. Valve and fittings
- B. Suction fittings
- C. Return line hose and fittings

III. LEFT UPRIGHT HOSELINE (No. 1974-L) with:  
pump, 5" pulley and fittings

IV. Bucket Indicator Tube, hose and clip

V. Tie Bar (No. 1975)

VI. 2 - Rear Axle Clamps (No. 1690)

VII. BAG of ROPE

- A. 4 - 1/4 x 16" 3-wire
- B. 8 - 1/4 x 13-1/2" 3-wire

VIII. BUNDLE of ROPE

- A. 1 - 3/8 x 30-1/2" 1-wire
- B. 1 - 1/2 x 32" 3-wire pressure

IX. BAG of PARTS

- 1 31330 V-belt
- 1 41330 V-belt
- 1 Drive Pulley (No. 1976)
- 1 Breather (50A15)
- 1 1/4 x 1-1/4 Dowel pin (1977)
- 2 1/2" hose clamps
- 1 Can paint
- 1 Tube Tite Seal
- 4 1/4 x 1-1/4 cap screws
- 4 3/8 x 1-1/4 cap screws
- 4 1/2 x 4 cap screws
- 4 - 3/8 hex nuts
- 2 - 1/2 hex nuts
- 4 - 3/8 lockwashers
- 4 - 1/2 lockwashers

Plastic Bag 35th Manual

X. WREN CHERRY

- 1 Wrench Box (No. 1871)
- 1 5/8 x 1-1/4 cap screws
- 2 3/8 x 1 cap screws
- 1 5/8 hex nut
- 1 5/8 lockwasher
- 2 3/8 lockwasher