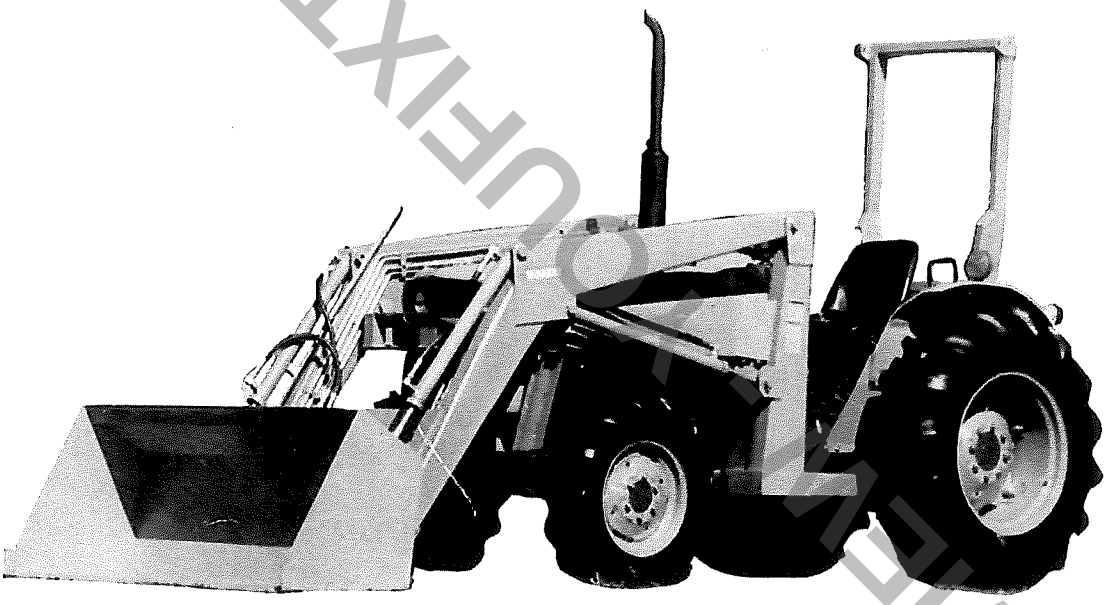
KUBOTA

OPERATORS MANUAL

MODEL L1720 LOADER

FOR TRACTOR MODELS: L305, L305DT L345, L345DT, L355SS



EFFECTIVE BEGINNING WITH SERIAL NO. 50000

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES IN THIS MANUAL.

FORM 70000-70186 REV. B 4-1-82

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MR. PURCHASER

This manual consists of instructions and guides for installing, operating, and servicing your new KUBOTA MODEL L1720 Loader and attachments. Reasonable life and satisfactory performance of your unit can be expected if you will follow the instructions and safety guides in this manual. Pay particular attention to the Safety Precautions within this booklet. Any machinery can be dangerous if you don't understand and follow key safety points and use common sense at all times.

WATCH FOR THIS ALERT SYMBOL. IT INDICATES IMPORTANT SAFETY MESSAGES. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BECOME ALERT THAT YOUR SAFETY IS INVOLVED.

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SAFETY

SAFETY RULES

Your safety and the safety of those around you is dependent upon the care and good judgement you exercise in the use of this equipment.

READ THIS MANUAL THOROUGHLY and make sure you understand its contents. All equipment has limitations.

The safey information presented in this manual is not intended to replace safety codes, insurance requirements, federal, state and local laws, rules and regulations. Know the regulations and laws that apply to your area and be sure that your loader is properly equipped to meet such laws and regulations.

We at Kubota are continuing to contribute to your safety by building loaders with an extra measure of protection, and passing on these suggestions for safer operation.

IMPORTANT: Always replace any safety decals whenever the old decals are destroyed, lost, painted over or illegible. Replace all safety decals when repainting.

OPERATION

WARNING Before starting tractor engine study Operator's Manual safety messages. Read all safety signs. Clear the area of other persons. Learn and practice safe use of controls before operating. It is your responsibility to understand and follow manufacturer's instructions on machine operation, service, and to observe pertinent laws and regulations. Operator Manuals may be obtained from your equipment dealer.

CAUTION Improper use of a loader can cause serious injury or death.

CAUTION Operate the loader from the tractor seat only.

CAUTION Move wheels to widest recommended settings to increase stability.

CAUTION Move, turn and operate tractor at slow ground speeds, especially on irregular ground to avoid tipping.

CAUTION Add recommended rear tire liquid weight, rear wheel weight or rear ballast for increased stability and traction.

CAUTION Do not stand, walk or work under a raised loader or attachment unless it is securely blocked or held in position. Accidental movement of control lever or leak in hydraulic system could cause mainframe to drop, causing severe injury.

CAUTION Do not lift or carry personnel on a loader or attachment; a slip or fall could cause bodily injury.

CAUTION For better stability, use a tractor with wide front axle rather than one with narrow front wheels.

CAUTION Visually check for hydraulic leaks and broken, missing or malfunctioning parts and make necessary repairs.

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DIRECTIONAL REFERENCE

Reference in this manual to the right and left-hand side of your loader is determined by standing at the rear of the unit and facing the direction of forward travel.

PARTS AND SERVICE

When you need new parts or service, see your local Kubota Dealer. The serial number plate is located on the left central portion of your loader subframe. Record your loader serial number and the date of purchase in the space provided below. Your dealer will need the loader model and serial number to give you prompt, efficient service whenever you order additional attachments or replacement repair parts. A Parts and Service Manual is available for your L1720 Loader from your dealer.

KUBOTA

MODEL L1720 LOADER

Date Purchased_____ Loader Serial No._____

Kubota Authorized Dealer_____

Dealer Telephone_____

GENERAL SPECIFICATIONS

These specification apply to Kubota L345DT Tractor and loader equipped with external (open center-2000 PSI) hydrualic pump system; front tire size 9.5-16; rear tire size 13.6-28; and 66" material bucket less tines. Specifications will vary for tractors and loader equipped differently.

(A) MAXIMUM LIFT HEIGHT	113.5" (2883mm)
(B) CLEARANCE WITH ATTACHMENT DUMPED	89.75" (2280mm)
(C) REACH AT MAXIMUM HEIGHT	39" (991mm)
(D) MAXIMUM DUMP ANGLE	45°
(E) REACH WITH ATTACHMENT ON GROUND	72.25" (1835mm)
(F) ATTACHMENT ROLLBACK ANGLE	17°
(G) DIGGING DEPTH	7.5" (191mm)
(H) OVERALL HEIGHT TO CARRY POSITION	60.25" (1530mm)
BREAK-AWAY CAPACITY	2450 lbs. (1110Kg)
LIFT CAPACITY AT FULL HEIGHT	1495 lbs. (680Kg)
RAISING TIME	4.3 sec.*
LOWERING TIME	3.3 sec.*
ATTACHMENT DUMPING TIME	3 sec.*
ATTACHMENT ROLLBACK TIME	2.5 sec.*
APPROX. SHIPPING WEIGHT (WITH ATTACHMENT)	1433 lbs. (651Kg)

*Using External Hydraulic System@2800 RPM. Tractor system will be slower.

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TROUBLE SHOOTING

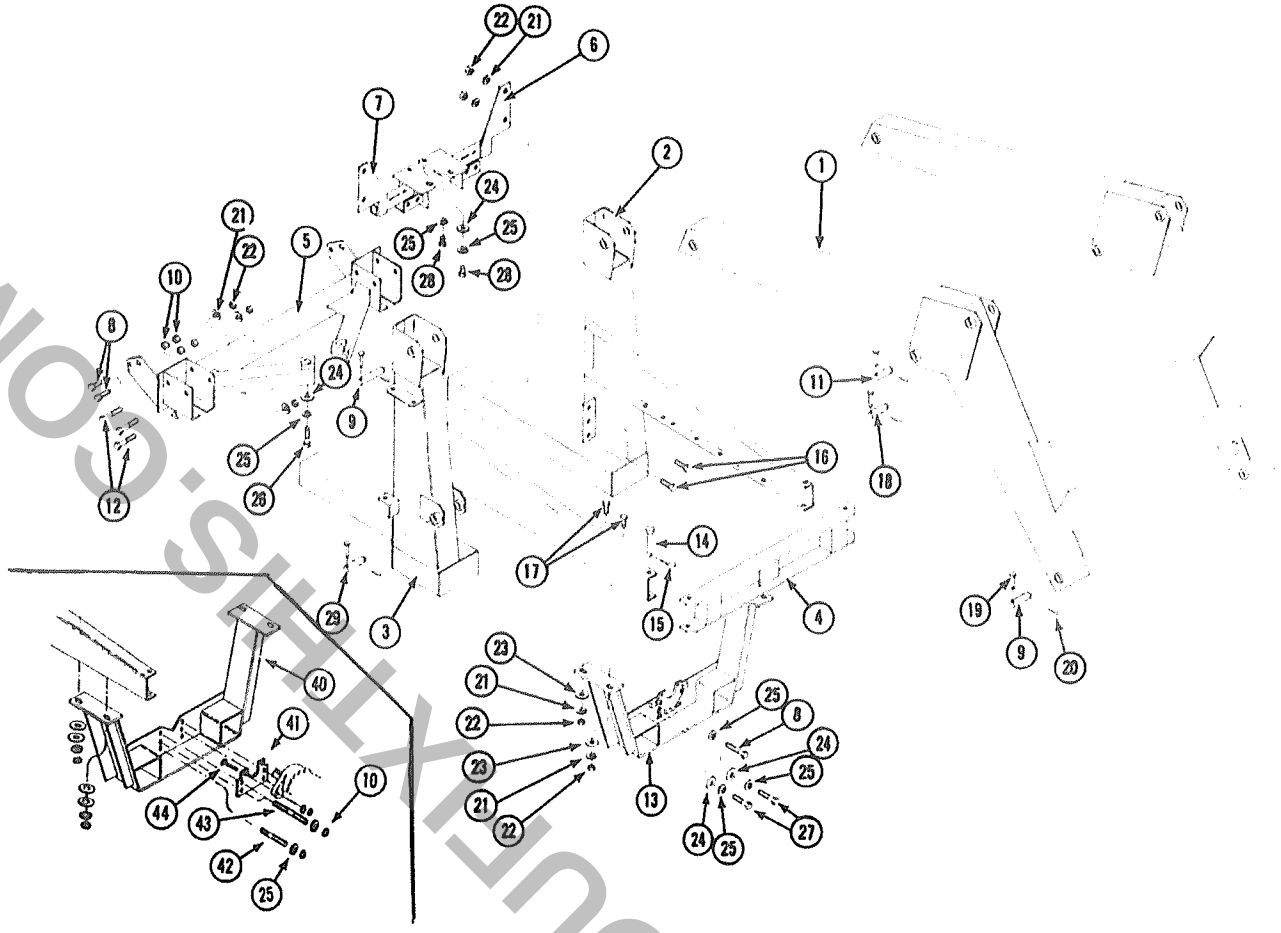
This section is a condensed chart to help you if unsatisfactory operation of the Kubota Model L1720 Loader occurs.
1) Identify the "Symptom" that best applies.
2) Check the "Possible Causes".
3) Perform the recommended "Remedy".
If you are unable to determine and correct the trouble, consult your authorized Kubota Dealer.

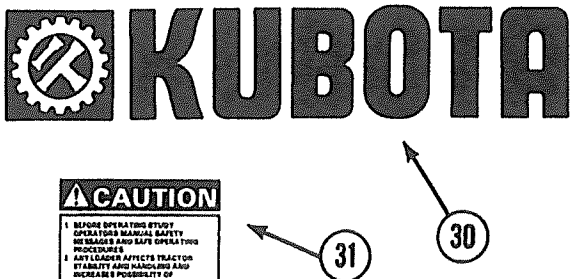
A. LOADER OPERATION

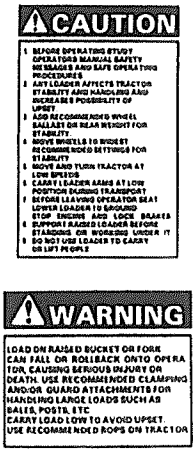
SYMPTOM	POSSIBLE CAUSE	REMEDY
Jerky	Cold oil or air in system	Operate loader several times with tractor at half throttle.
	Low oil supply	Add oil.
	Poor oil circulation	Check oil filter in tractor or loader hydraulic system. Clean or replace as required.
	Hydraulic pump starvation	Check to see if suction hose to front pump has collapsed. If so, replace suction hose.
	Pump cavitation (ext. pump)	Oil filter installed in suction line. Relocate in return line between valve and reservoir.
	Leak in suction hose (ext. pump)	Replace suction hose.
Slow	Defective or worn lift cylinder seals	Replace lift cylinder seal kits.
	Orifice (to slow speed of lowering) installed incorrectly	Orifice must be in top valve port marked "B" with groove up.
	Orifice (to slow speed of dumping) installed incorrectly.	Orifice must be in top valve port marked "D" with groove up.
	Reduced rate of flow through selective control valve in tractor	Adjust rate of flow per tractor operators manual.
	Worn, damaged or insufficient hydraulic pump	See Kubota dealer. Request flow (GPM) and pressure (PSI) check.
	Dirty or clogged oil filter	Check oil filter in tractor or loader hydraulic system. Clean or replace as required.
	Oil filter installed incorrectly (ext. pump system)	Inspect oil flow direction on filter. Oil flow must be from valve to reservoir in return line. Relocate if installed incorrectly.
	Defective or worn remote outlet(s) or male tip(s)	Check for obstructions or malfunctions. Replace if necessary.
	Inadequate hydraulic pump capacity	Consult your Kubota Dealer. Request flow (GPM) and pressure (PSI) check.
	Defective or worn control valve spool out of phase	Replace control valve.
Erratic cylinder operation	Cylinder piston loose or stripped off rod.	Replace damaged parts. Review and observe operational practices. (1) Avoid dragging operation with cylinders fully extended. (2) Avoid extending cylinders to end of stroke at maximum speed and high engine R.P.M.
Cylinders extend or settle with valve in neutral position	Defective or worn cylinder seals	Replace cylinder seal kits.
Hydraulic cylinders inoperative	Hoses improperly installed	Re-install hose connections properly.
	Damaged or defective cylinder	Inspect internal parts. Replace necessary parts.
	Insufficient oil in system	Add oil.
	Cylinder piston loose or stripped off rod	(See erratic cylinder operation above.)

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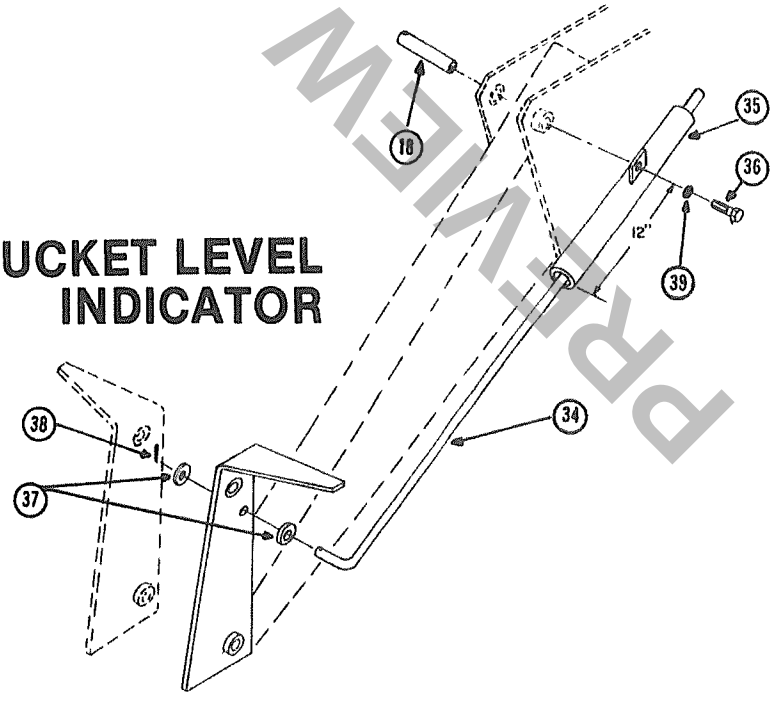
MAIN FRAME/SUB-FRAMES/MOUNTING BRACKETS







BUCKET LEVEL INDICATOR



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MAIN FRAME/SUB-FRAMES/MOUNTING BRACKETS AND BUCKET LEVEL INDICATOR

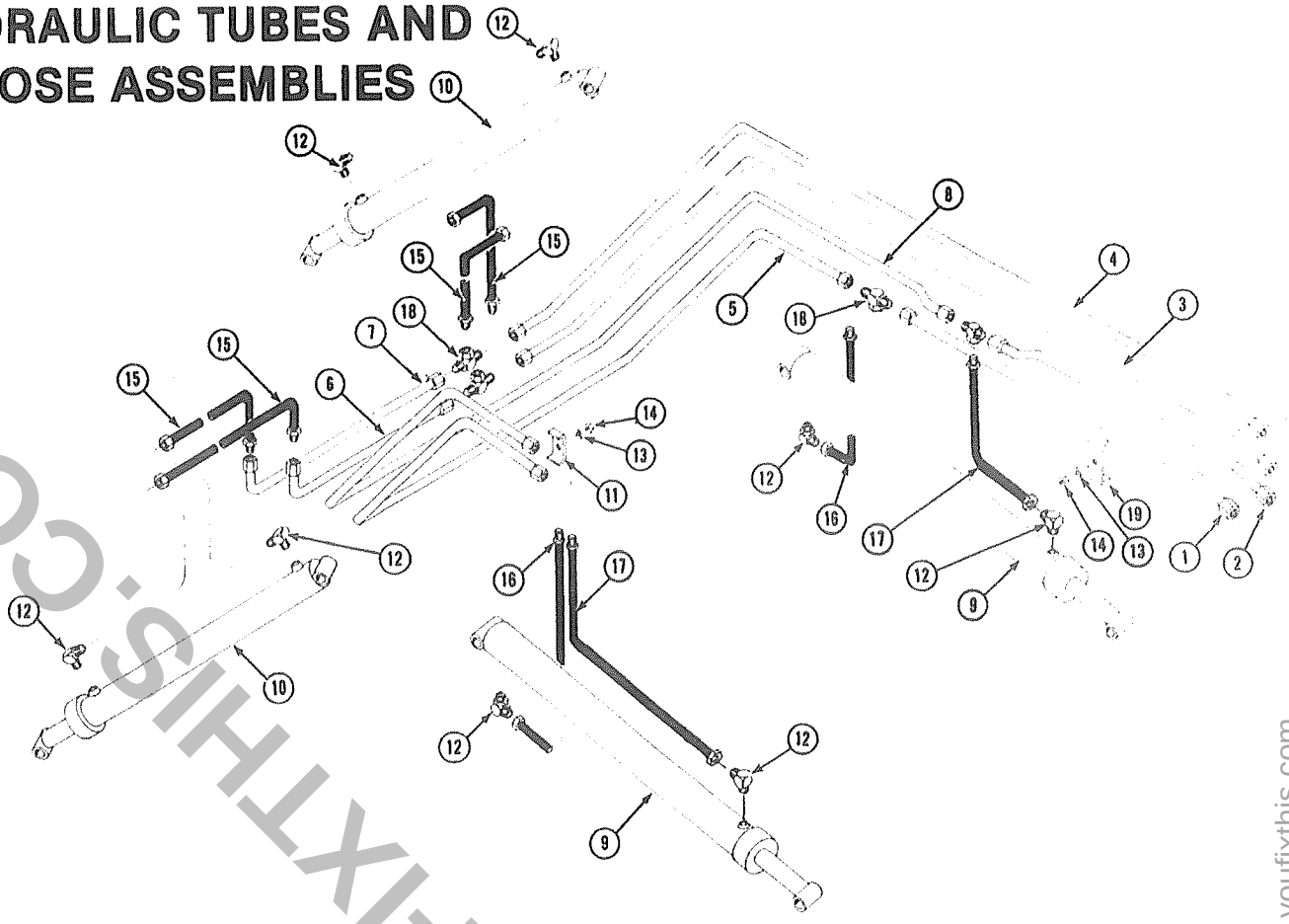
REF. NO.	QTY.	DESCRIPTION
1	1	Mainframe Assembly
2	1	Subframe L.H. Assembly
3	1	Subframe R.H. Assembly
4	1	Bumper Assembly
5	1	Bracket, Rear Assembly
6	1	Crossbrace Assembly, L.H.
7	1	Crossbrace Assembly, R.H.
8	6	Bolt, 12mm x 1.25 Pitch x 50mm
9	6	Pin - Also used to attach bucket
10	14	Nut, 12mm x 1.25 Pitch
11	2	Pin
12	6	Bolt, Hex 5/8"-11NC x 5-½" Grade 5
13	1	Bracket, Front Assembly
14	2	Pin, Clevis
15	2	Hairpin, Cotter
16	4	Bolt, Hex 5/8"-11NC x 1-½" Grade 5
17	4	Bolt, Hex 5/8"-11NC x 2" Grade 5
18	1	Pin
19	12	Pin, Clevis
20	12	Pin, Cotter 1/8" x 1"
21	14	Lockwasher 5/8"
22	14	Nut, Hex 5/8"-11NC
23	8	Flatwasher 5/8"
24	8	Flatwasher ½"
25	12	Lockwasher ½"
26	2	Bolt, 12mm x 1.25 Pitch x 60mm
27	4	Bolt, 12mm x 1.25 Pitch x 35mm
28	4	Bolt, 12mm x 1.25 Pitch x 30mm
29	3	Pin
30	3	Kubota Decal
31	1	Decal, Caution
32	1	Decal, Warning
18	1	Mounting Pin
34	1	Rod
35	1	Rod Guide Tube
36	1	Bolt 3/8"-16NC x 1"
37	2	Flatwasher ½"
38	1	Cotter, 1/8" x 1"
39	1	3/8" Lockwasher
	After Loader S/N 51604	
40	1	Bracket, Front Assembly
41*	1	Pump Mount Assembly
42	6	Stud, 12mm x 60.8mm
42*	2	Stud, 12mm x 60.8mm
43*	4	Stud, 12mm x 79.5mm
44*	2	Bolt, Hex 3/8" - 16NC x 1¼" Grade 5
45	2	Lockwasher, 3/8"
46	2	Nut, Hex 3/8-16NC.

*External Hydraulic Kit

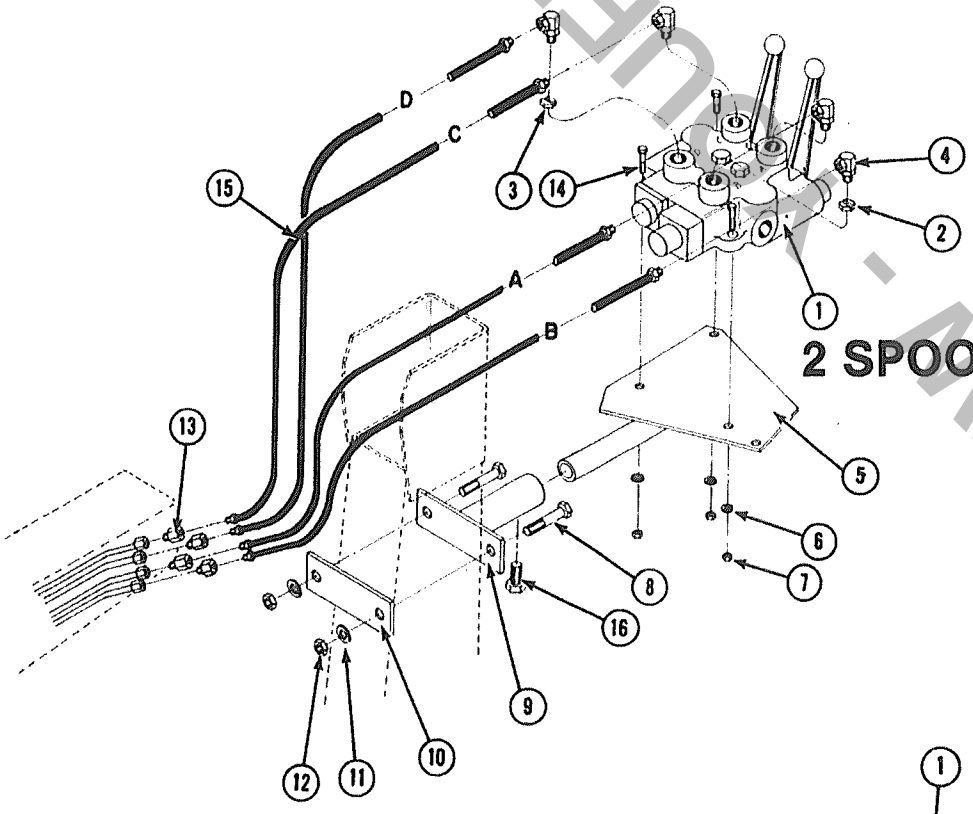
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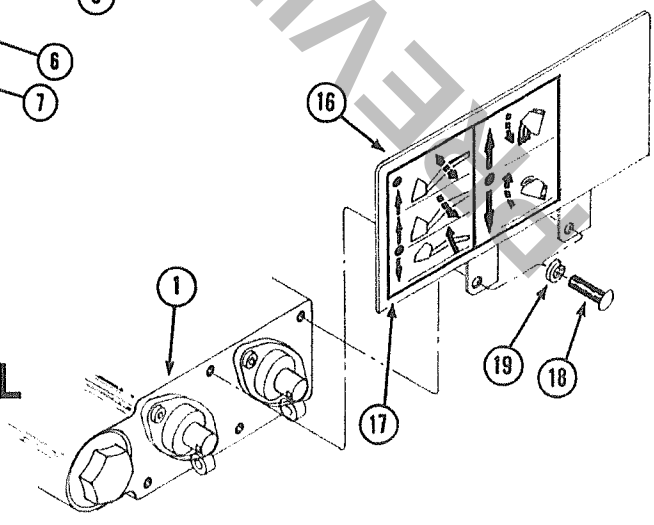
HYDRAULIC TUBES AND HOSE ASSEMBLIES



2 SPOOL CONTROL VALVE AND HOSES



VALVE DECAL



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