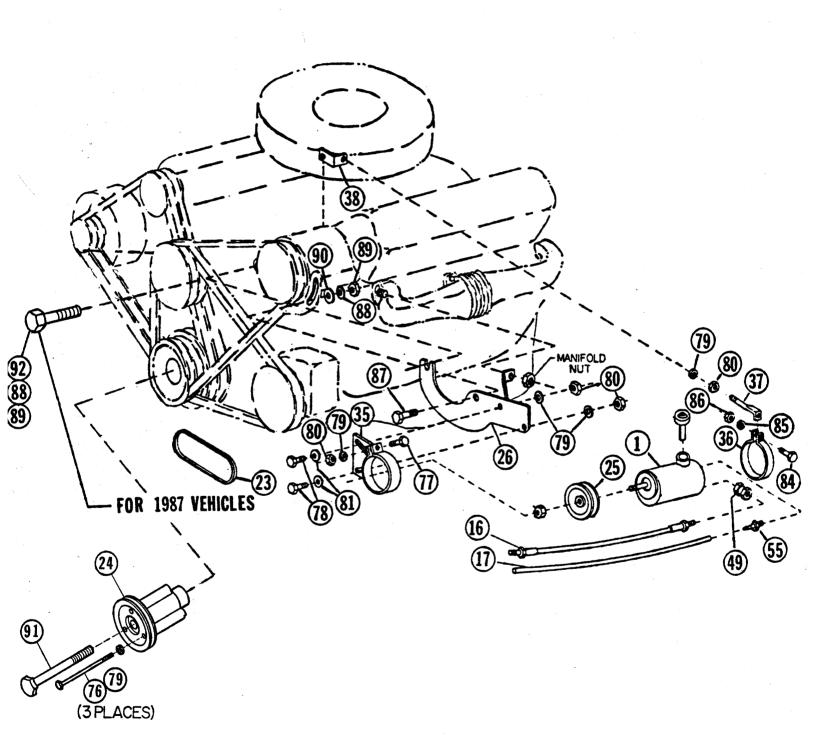
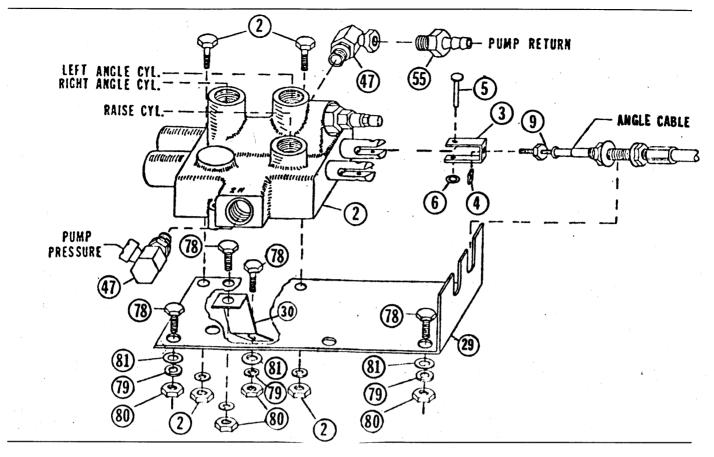
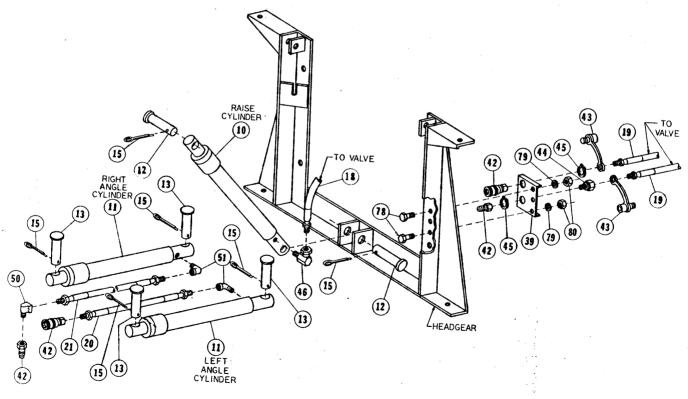
DODGE V8-360 DODGE V8-318 1 ASD W-W/O AC 1984-19 $1984 - 19\overline{91}$ PECULIAR HYDRAULICS BELT DRIVE, SLC UNDERHOOD VALVE

7502

* 1989 VEHICLES MUST HAVE AUTOMATIC TRANSMISSION







	A4468-40	KIT 7502	PART#	DESCRIPTION * PART OF 7756 BOLT BAG
1	1		A2311	
2	1		A4466	
3	1 2		4483	CLEVIS
4	2		4494	10-32 SOUARE NUT
5	2 2 2		4491	CLEVIS PIN - 3/16 X 1
6	2		4493	3/16 PUSH NUT
7	1		8764	FILTER KIT (AT END OF INSTRICTS)
8		1	4419	SINGLE LEVER CONTROL HEAD
9		1 2	4949	30" CONTROL CABLE, SLC
10	1		A318	10" LIFT CYLINDER ASSEMBLY
11	2		A3660	12" ANGLE CYLINDER ASSEMBLY
12	2		6814	CLEVIS PIN - 1 X 3-5/16
13	4		6816	CLEVIS PIN - 1 X 3-5/16 ANCHOR PIN - 1 X 4
14				
15	6		90601	
16		1	2707	26" H.P. HOSE, 1/4P TO 3/8P
17		1 1 2 1	4471	26" Т. Р. НОСР
18		1	1665	60" H.P. HOSE, 9/16 O-RING TO 1/4P 54" H.P. HOSE, 9/16 O-RING TO 1/4P 32" H.P. HOSE, 1/4P TO 1/4P
19		2	1664	54" H.P. HOSE, 9/16 O-RING TO 1/4P
20		1	376	32" H.P. HOSE, 1/4P TO 1/4P
21		1	4424	36" H.P. HOSE, $1/4P$ TO $1/4P$
22 23		1	418	FAN BELT 52" V-BELT
24		1	7748	DRIVE SHEAVE
25		1	3696	PUMP SHEAVE
26		ī	5744	PUMP BRACKET
27		_	3,11	Tom Braicker
28 29		1	5320	VALVE PLATE
30		1		VALVE PLATE VALVE PLATE BRACE
31 32 33 34			4470	VALVE PLATE BRACE
35		1	4921	SADDLE BRACKET
36	1	_		REAR TANK STRAP
37	1			UNIVERSAL BRACE ROD
38	_	1		* UNIVERSAL BRACE TAB
39		1 1	4467	
40		_	1107	DISCONDET MOUNTING THATE
41	2		-1505	
42	2 2		A1587	DISCONNECT ASSEMBLY
43	2	4		DUST PLUG
44		1 2		* BULKHEAD ADAPTER
45	4	2	4485	* 7/8" SNAP RING
46	1 2		319	1/4" X 90 SWIVEL ADAPTER
47 48	2		2315	9/16 O.R. TO 3/8P X 90 SWL.ADPT.
46 49		1	1659	* ADAPTER UNION, 1/4 N.P.T.BOTH ENDS

REF #	QTY IN K A4468-40	IT 7502	PART#	DESCRIPTION * PART OF 7756 BOLT BAG
50 51 52	2	1	* 765 2780	1/4" BRASS BAR STREET ELL 1/4" BRASS BAR STREET ELL (FORGED)
53 54				FASTENER TORQUE (FT-LB)
55	2		1658	QUILL GRADE DESIGNATION
56 57				THREADS PER INCH
58				1/4 - 20 GRADE 2 GRADE 5 GRADE 8
59 60				5/16 - 18
61				3/8 - 16 19 31 46
62				7/16 - 14 30 50 75
63				1/2 - 13 45 75 115
64 65				9/16 - 12 66 110 165
66				5/8 - 11 93 150 225
67				3/4 - 10 150 250 370
68				7/8 - 9 150 378 591
69 70				1 - 8 220 583 893
71				
72		1	5704	SAFETY DECAL
73	2		3042	GROMMET
74 75	1 3		4477 3666	SPLIT HOSE GROMMET TIE WRAPS - 3/16 X 8
76	3	3	* 90602	5/16 X 5 (NC) GR.5 CAPSCREW
77	1	-	90054	5/16 X 1-1/2 (NC) GR. 5 CAPSCREW
78	4	3	* 90042	5/16 X 1 (NC) GR.5 CAPSCREW
79	6	7	* 90360	5/16 LOCKWASHER
80 81	7 4	3 3	* 90332 * 90313	5/16 (NC) NUT
82	4	J	. 90313	5/16 FLATWASHER
83				
84	1		90614	1/4 X 1-1/4 (NC) GR.5 CAPSCREW
85 86	1 1		90359 90330	1/4 LOCKWASHER 1/4 (NC) NUT
87	1	1	* 90103	3/8 X 1 (NC) GR.5 CAPSCREW
88		2	* 90361	3/8 LOCKWASHER
89		2	* 90334	3/8 (NC) NUT
90		1	* 90315	3/8 FLATWASHER
91		1	* 90502	3/4 X 6 (NF) GR.5 CAPSCREW
92		1	* 90170	3/8 X 6 (NC) GR.5 CAPSCREW
93 94				
ノマ				

1989 VEHICLES MUST HAVE AUTO TRANSMISSION

1. CYLINDER AND CYLINDER HOSE ASSEMBLY

- A. USING BENCH VISE TO HOLD LIFT CYLINDER (10), REMOVE CLOSURE FROM PORT. SCREW 90 DEGREE SWIVEL ADAPTOR (46) INTO PORT. PLACE LIFT CYLINDER WITH INSTALLED ADAPTOR BETWEEN EARS ON UNDERSIDE OF LIFT ARM AND LOWER HEADGEAR EARS. ATTACH CYLINDER TO EARS USING CLEVIS PINS (12) AND COTTER PINS (15).
- USING BENCH VISE TO HOLD 32" H.P. HOSE (20), INSTALL FEMALE HALF OF HOSE DISCONNECT ASSEMBLY (42) DIRECTLY TO HOSE. THEN, HOLDING 36" H.P. HOSE (21), INSTALL BRASS BAR STREET ELL (50) AND MALE HALF OF HOSE DISCONNECT ASSEMBLY (42) ON THE SAME HOSE END.
- USING BENCH VISE TO HOLD ANGLE CYLINDERS (11), REMOVE CLOSURES FROM PORTS AND SCREW BRASS FORGED STREET ELLS (51) INTO PORTS SO THAT ELLS ARE PARALLEL WITH CYLINDER AND POINT TOWARD LIVE END. INSTALL 32" H.P. HOSE WITH FEMALE DISCONNECT HALF TO DRIVER'S SIDE ANGLE CYLINDER STREET INSTALL OTHER H.P. HOSE WITH MALE DISCONNECT HALF TO PASSENGER SIDE ANGLE CYLINDER STREET ELLS. INSTALL ANGLE CYLINDERS TO "A" FRAME ON THEIR RESPECTIVE SIDES SO THAT ELLS ARE BETWEEN CYLINDERS AND "A" SECURE CYLINDERS WITH ANCHOR PINS (13) AT PORT END AND RAM END. SECURE ANCHOR PINS WITH COTTER PINS (15).

2. CONTROL HEAD AND CONTROL CABLES

NOTE: DASH BRACKET, HARDWARE, DRILLING GUIDE AND MOUNTING INSTRUCTIONS WILL BE FOUND IN PECULIAR ATTACHING BOX.

- A. DRILL THREE 5/8" HOLES IN FIREWALL FOR CONTROL CABLES AND WIRING HARNESS USING DRILLING GUIDE AS A REFERENCE ONLY. BE SURE BOTH SIDES OF FIREWALL ARE CLEAR OF OBSTRUCTIONS BEFORE DRILLING. DRILL 1/2" HOLE IN UNDERSIDE OF DASH AS SHOWN IN DASH ILLUSTRATION.
- В. INSTALL DASH BRACKET AS PER DASH BRACKET INSTRUCTIONS.
- C. LOOSEN JAM NUTS ON CONTROL HEAD END OF CABLES (9) AND INSTALL INTO SLOTS IN CONTROL HEAD (8). (RAISE CABLE CENTERS IN BEGINNING OF LOWER SNAP CABLE ENDS ONTO BALL STUDS AND TIGHTEN JAM NUTS TO SECURE CABLES TO CONTROL HEAD. REMOVE THE NUTS AND WASHERS FROM THE VALVE END OF THE CABLES. ROUTE THE CABLES OUT THROUGH THE FIREWALL UP TO THE TOP OF THE DRIVER SIDE FENDERWELL. ATTACH CONTROL HEAD TO DASH BRACKET AS PER DASH BRACKET INSTRUCTIONS. INSTALL RUBBER GROMMETS (73) AROUND CABLES WHERE THEY PASS THROUGH FIREWALL.

3. VALVE AND VALVE PLATE

A. USING BENCH VISE TO HOLD CONTROL VALVE ASSEMBLY (2) REMOVE CLOSURES FROM VALVE PORTS. SCREW 90 DEGREE SWIVEL ADAPTOR UNIONS (47) INTO "IN" AND "OUT" PORTS. SCREW QUILL (55) INTO INSTALLED ADAPTOR IN "OUT" PORT.

NOTE: VALVE FITTINGS ARE INSTALLED AS DESCRIBED TO INSURE PROPER INSTALLATION. FIRST INDICATION OF INCORRECT INSTALLATION IS FAILURE OF PLOW TO LIFT ALTHOUGH PLOW WILL ANGLE.

- B. ATTACH VALVE PLATE BRACE (30) TO VALVE PLATE (29) AS SHOWN ON ILLUSTRATION WITH A 5/16 X 1 CAPSCREW (78), LOCKWASHER (79) AND NUT (80). MOUNT VALVE TO VALVE PLATE USING TWO 1/4 X 1-1/4 CAPSCREWS, LOCKWASHERS AND NUTS FROM VALVE BAG. CONNECT CONTROL CABLES TO VALVE PLATE BEFORE FASTENING VALVE PLATE TO VEHICLE. BEGIN BY REINSTALLING JAM NUTS AND WASHERS ON CABLES. PLACE CONTROL CABLES IN RESPECTIVE SLOTS OF VALVE PLATE BULKHEAD WITH ONE NUT AND ONE WASHER ON EACH SIDE OF BULKHEAD. CENTER CABLES IN SLOTS SO THAT THEY ARE EXACTLY IN LINE WITH VALVE SPOOL CENTERS. ATTACH CABLE CLEVIS (3) TO CABLES USING SQUARE NUTS (4). SLIP CABLE CLEVISES OVER SPOOLS. INSTALL CLEVIS PIN (5) THROUGH CLEVIS AND SPOOL AND SECURE WITH PUSHNUT (6) ON CLEVIS PIN. TEMPORARILY ADJUST CABLES SO THAT CONTROL LEVER IS SOMEWHERE NEAR CENTERED IN CONTROL HEAD.
- WITH CABLES ATTACHED, LOCATE VALVE PLATE ON TOP OF FENDERWELL SO THAT VALVE IS STRAIGHT AND LEVEL AND CABLES RUN AS STRAIGHT AS POSSIBLE WITH NO SHARP KINKS. USING THE TWO WIDEST SPACED HOLES ON THE FENDER SIDE OF VALVE PLATE AND THE HOLE IN THE FREE END OF VALVE PLATE BRACE AS GUIDES, DRILL THREE 11/32" HOLES. FASTEN PLATE AND BRACE WITH THREE 5/16 X 1 CAPSCREW (78), FLATWASHERS (81), LOCKWASHERS (79) AND NUTS (80).
- WITH VALVE PLATE FASTENED TO INNER FENDER, READJUST CONTROL CABLES SO THAT CONTROL HEAD LEVER IS CENTERED BETWEEN BOTH ANGLE AND RAISE/LOWER POSITIONS. IF CABLE CLEVIS DOES NOT ALLOW ENOUGH ADJUSTMENT, REPOSITION CABLE AT VALVE PLATE BULKHEAD. AFTER CHECKING TO SEE THAT THE VALVE SPOOLS ARE IN THE CENTERED POSITION, TIGHTEN CABLE CLEVIS NUTS.

CAUTION: VALVE SPOOLS MUST BE FREE AND SELF CENTERING WHEN CABLES AND CONTROL HEAD ARE ATTACHED. FAILURE TO CENTER SPOOLS WILL RESTRICT FLUID FLOW THROUGH VALVE. THIS MAY CAUSE HYDRAULIC FLUID TO OVERHEAT RESULTING IN PUMP DAMAGE AND OR HYDRAULIC HOSE FAILURE. HOSE FAILURES CAN CAUSE ENGINE FIRES.

WHEN ADJUSTED, THE CONTROL LEVER MUST BE IN THE NEUTRAL POSITION TO ALLOW ENOUGH SPOOL TRAVEL EACH WAY FOR PROPER VALVE ACTUATION.

DRIVE SHEAVE INSTALLATION

- REMOVE AND DISCARD 3/4" CAPSCREW AND WASHER FROM CENTER OF CRANKSHAFT PULLEY. REMOVE AND DISCARD EVERY OTHER 5/16" CAPSCREW FROM INSIDE OF CRANKSHAFT PULLEY. (TOTAL OF THREE 5/16" CAPSCREWS.)
- APPLY "LOCKTITE" ON ALL CAPSCREWS BEFORE INSTALLING DRIVE SHEAVE.
- INSTALL DRIVE SHEAVE (24) WITH ONE 3/4 X 6 (NF) GR.5 CAPSCREW (91) THROUGH CENTER HOLE ONTO CENTER OF CRANKSHAFT PULLEY. INSTALL THREE 5/16 X 5 (NC) GR.5 CAPSCREWS (76) WITH 5/16 LOCKWASHERS (79) THROUGH REMAINING HOLES IN DRIVE SHEAVE AND CRANKSHAFT PULLEY. SNUG-UP THE 3/4 X 6 CAPSCREW FIRST AND THEN SNUG-UP THE THREE 5/16 X 5 CAPSCREW AND TORQUE THEM TO 18 FOOT POUNDS. LASTLY, TORQUE THE 3/4 X 6 CAPSCREW TO 100 FOOT POUNDS.

PUMP TANK AND PUMP BRACKET

1984-86 VEHICLES: UNSCREW FRONT SMOG PUMP PIVOT BOLT APPROXIMATELY 3/8". REMOVE FRONT DRIVER'S SIDE EXHAUST MANIFOLD NUT AND WASHER. DISCARD WASHER.

1987 VEHICLES: REMOVE AND DISCARD SMOG PUMP PIVOT BOLT. WITH A 3/8 X 6 (NC) GR.5 CAPSCREW (92) (DO NOT FASTEN WITH LOCKWASHER AND NUT AT THIS TIME). REMOVE FRONT DRIVER'S SIDE EXHAUST MANIFOLD NUT AND WASHER. DISCARD WASHER.

- 1984-86 VEHICLES: INSTALL SLOT IN PUMP BRACKET (26) UNDER HEAD OF SMOG PUMP PIVOT BOLT. INSTALL END OF PUMP BRACKET BRACE OVER EXHAUST MANIFOLD STUD. FASTEN WITH PREVIOUSLY REMOVED NUT. INSTALL A 3/8 X 1 (NC) CAPSCREW (87) THROUGH THE CENTER HOLE OF THE PUMP BRACKET INTO THE BOTTOM OF THE SMOG PUMP ADJUSTING SLOT. SECURE WITH A 3/8 FLATWASHER (90), LOCKWASHER (88) AND NUT. (89)
- 1987 VEHICLES: INSTALL END OF PUMP BRACKET BRACE OVER EXHAUST MANIFOLD STUD. FASTEN WITH PREVIOUSLY REMOVED NUT. PLACE UNIVERSAL BRACE TAB (38) ONTO PREVIOUSLY INSTALLED 3/8 X 6 CAPSCREW ON THE BACK SIDE OF SMOG PUMP. FASTEN WITH A 3/8 LOCKWASHER (88) AND NUT (89) (DO INSTALL SLOT IN PUMP BRACKET UNDER HEAD OF 3/8 X 6 NOT TIGHTEN). CAPSCREW. TIGHTEN FASTENER. INSTALL A 3/8 X 1 (NC) CAPSCREW (87) THROUGH CENTER HOLE OF PUMP BRACKET INTO THE BOTTOM OF THE SMOG PUMP ADJUSTING SLOT. FASTEN WITH A 3/8 FLATWASHER (90), LOCKWASHER (88) AND NUT (89).
- C. HOLDING PUMP TANK (1) IN BENCH VISE, SCREW STRAIGHT SWIVEL ADAPTOR (49) ONTO PRESSURE PORT OF PUMP AND SCREW QUILL (55) INTO RETURN PORT OF PUMP. INSTALL PUMP SHEAVE (25) ONTO PUMP SHAFT USING LOCKNUT AND KEY SUPPLIED WITH PUMP. REMOVE PUMP FROM VISE AND INSTALL SADDLE BRACKET (35) ON OVER FRONT OF PUMP. SECURE WITH A 5/16 X 1-1/2 GR. 5 CAPSCREW (77), LOCKWASHER (79) AND NUT (80). ATTACH SADDLE BRACKET AND

PUMP TO PUMP BRACKET USING TWO 5/16 X 1 CAPSCREWS (78), FLATWASHERS (81), LOCKWASHERS (79) AND NUTS (80).

D. INSTALL 52" V-BELT (23) ON OVER INSTALLED DRIVE AND PUMP SHEAVES. ALIGN SHEAVES AND TIGHTEN 1-1/2" SADDLE BRACKET FASTENER. ADJUST FOR PROPER TENSION BY PIVOTING SADDLE BRACKET ON DRIVERS SIDE MOUNTING BOLT. INSTALL REAR TANK STRAP (36) ON OVER REAR OF PUMP TANK. ATTACH UNIVERSAL BRACE TAB (38) TO REAR SMOG PUMP PIVOT BOLT. MEASURE OR GAUGE NEEDED LENGTH OF UNIVERSAL BRACE ROD (37) AND CUT TO LENGTH. INSTALL ONE 5/16 NUT (80) AND FLATWASHER (81) ONTO UNIVERSAL BRACE ROD AND INSERT BRACE ROD THROUGH PREVIOUSLY INSTALLED UNIVERSAL BRACE TAB. CONNECT BRACE ROD TO TANK STRAP WITH ONE 1/4 x 1-1/4 CAPSCREW (84), LOCKWASHER (85) AND NUT (86). FASTEN OTHER END OF BRACE ROD TO BRACE TAB WITH A 5/16 FLATWASHER (81), LOCKWASHER (79) AND NUT (80). USE BRACE ROD TO ADJUST ALIGNMENT OF DRIVE AND PUMP SHEAVES. CHECK BELT FOR PROPER TENSION.

6. HYDRAULIC HOSE INSTALLATION

A. ATTACH ONE END OF THE 26" H.P. HOSE (16) TO THE 1/4" SWIVEL ADAPTOR ON THE PUMP TANK AND PUSH ONE END OF THE 26" LP HOSE (17) ONTO THE QUILL ON PUMP TANK. ROUTE THESE HOSES TO THE CONTROL VALVE.

CAUTION: KEEP HOSES AWAY FROM HOT OR MOVING ENGINE COMPONENTS. FAILURE TO DO SO MAY CAUSE HOSE TO BURST RESULTING IN A POSSIBLE ENGINE FIRE.

PUSH L.P. HOSE ONTO QUILL AND SCREW H.P. HOSE INTO 90 DEGREE SWIVEL ADAPTOR. INSTALL 60" H.P. HOSE (18) TO LIFT CYLINDER PORT OF VALVE (SPOOL #1). INSTALL TWO 54" HOSES (19) TO ANGLE PORTS OF VALVE (SPOOL #2). ROUTE THE 60" AND 54" HOSES OUT THROUGH GRILL NEAR CENTER OF VEHICLE. ATTACH 60" HOSE TO PREVIOUSLY INSTALLED 90 DEGREE SWIVEL ADAPTOR ON LIFT CYLINDER.

INSTALL INLINE OIL FILTER AS PER FILTER KIT (7) INSTRUCTIONS AT THE END OF THIS DOCUMENT.

7. DISCONNECT ASSEMBLY

- A. WITH DISCONNECT MOUNTING PLATE (39) HELD IN BENCH VISE, INSTALL DISCONNECT HALVES AS SHOWN IN ILLUSTRATION. BULKHEAD ADAPTOR (44) AND MALE DISCONNECT HALF (42) GO IN BOTTOM HOLE. FEMALE DISCONNECT HALF (42) GOES IN TOP HOLE. SECURE BOTH WITH 7/8" SNAP RINGS (45).
- B. ATTACH MOUNTING PLATE TO BACK OF DRIVERS SIDE HEADGEAR POST WITH TWO 5/16 X 1 CAPSCREWS (78), LOCKWASHERS (79) AND NUTS (80). INSTALL DUST PLUGS (43) OVER ENDS OF HOSES ROUTED TO FRONT OF VEHICLE IN THE PREVIOUS STEP. CONNECT 54" RIGHT ANGLE HOSE (SPOOL #2, CYL. B) TO BACK OF FEMALE DISCONNECT INSTALLED IN TOP HOLE OF DISCONNECT BRACKET. CONNECT 54" LEFT ANGLE HOSE (SPOOL #2, CYL. A) TO BOTTOM (MALE) DISCONNECT. TIGHTEN BY HOLDING HOSES AND ROTATING THE DISCONNECT HALVES IN THE BRACKET.

8. OPERATIONS

- A. CHECK ALL FITTINGS AND FASTENERS FOR TIGHTNESS. SECURE HOSES WITH NYLON TIE WRAPS (75). PLACE SAFETY DECAL (72) ON DASH BESIDE CONTROL HEAD.
- B. FILL RESERVOIR WITH TYPE "A" AUTOMATIC TRANSMISSION FLUID. START ENGINE, LIFT AND ANGLE BLADE.

NOTE: IF BLADE ANGLES OPPOSITE FROM CONTROL LEVER POSITION, REVERSE THE TWO H.P. HOSE CONNECTIONS ON THE BACK OF THE DISCONNECT BRACKET.

RAISE FRONT END OF VEHICLE UNTIL PLOW IS CLEAR OF GROUND WITH THE LIFT CYLINDER FULLY RETRACTED. CHECK RESERVOIR OIL LEVEL. ANGLE BLADE (WITH LIFT CYLINDER RETRACTED) TO REMOVE AIR FROM SYSTEM. RECHECK RESERVOIR OIL LEVEL.