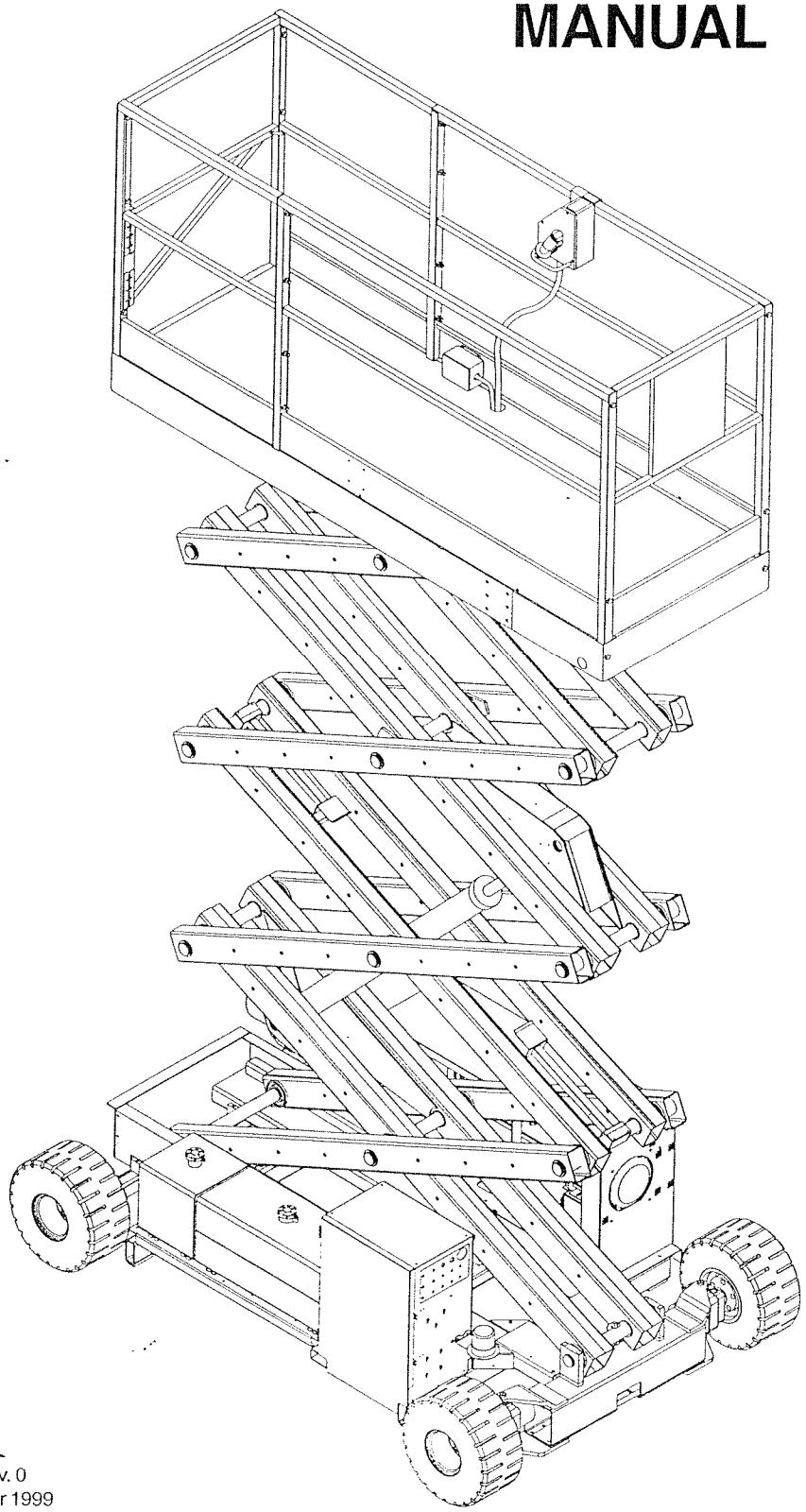
2558DF

SERVICE & PARTS MANUAL



90162

Part # ~~90145~~ Rev. 0
Issued November 1999

MAINTENANCE

INSPECTION AND LUBRICATION

1. Structural Inspection

a. Check machine for bent structural members. (Beams, main frame, platform, pivot pins, ect.) Machine which have been overloaded could have bent members and fatigued pivot pins. Replace all bent members and pins to insure a safe operating machine.

b. Check bushings in scissor beams for broken or cracked welds. Replace beams if bushing welds are cracked or bushing elongated.

2. Lubrication

⚠ WARNING

All pivot areas of scissors and lift cylinder must be checked for wear. A loud scraping noise means the D.U. bearings are damaged and need replacing. Failure to do so will result in extensive damage to structural members and bushings which would create a hazardous condition and could result in injury or death to personnel.

a. The Hite-Master series scissor lift is almost lubrication free. All pivot pins or rollers come with D.U. bearings which do not require any kind of lubrication.

b. The only areas that need lubrication (EP 90 or equivalent) are the steering cylinders on both pivot pins and the brake linkage (Figures 1-1 and 1-2).

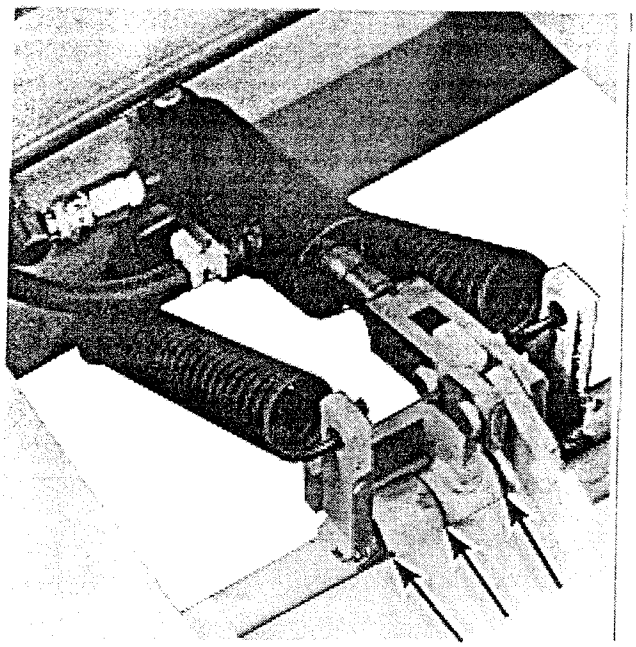


FIG. 1-1 Brake Linkage

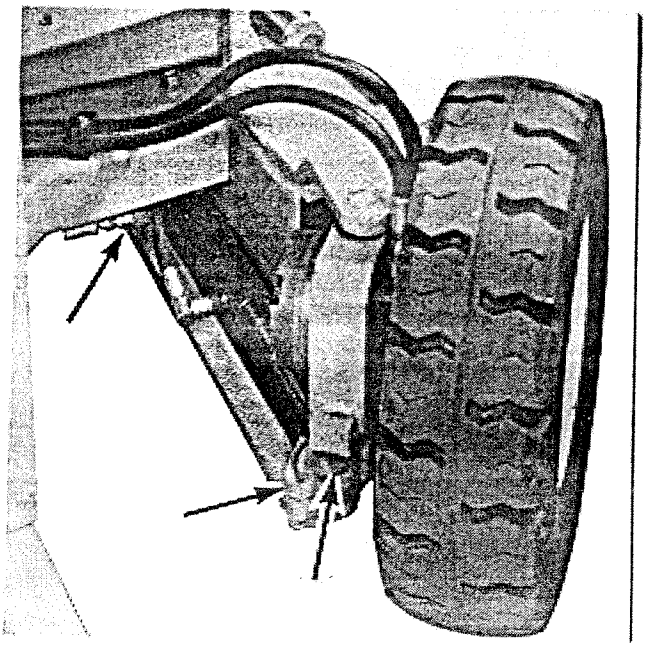


FIG. 1-2 Steering Linkage

CHECKLISTS

Frequent Inspection Checklist

Some of the components may or may not affect your particular machine. Check all that apply.

	Legible, Operational and/or Physically Correct	Not Legible, Operational and/or Physically Correct	Corrected or Repairs Made to Unit
Wheels Rims - Corrosion, Cracks, Bends etc.			
Tires Excessive Wear/Damage			
Tire Pressure			
Battery Check Wiring			
Check Fluid Level			
Inspect Commutator and Brushes			
Hydraulics Check Hoses			
Check Fittings			
Replace Oil Filter			
Scissors Check for Damage ie: Corrosion, cracks, Bends etc.			
Maintenance Locks			
Drive and Lift Mechanism Oil Steering Pivot Pins			
Oil Brake Pivot PIns			
Grease Rear Spindles			
Main Frame Check Structure ie: corrosion, cracks, bends etc.			
Check Pivot Pins			
Check All Fasteners			
Control System Damage to Switches, Indicators and Guards			
Check Terminals and Plugs			
Check Cords			
Safety Decals Decals in Place and Legible			

Frequent Inspection Checklist Cont'd

	Legible, Operational and/or Physically Correct	Not Legible, Operational and/or Physically Correct	Corrected or Repairs Made to Unit
Platform			
Rear Closure			
Railing Secure in Pockets			
All Fasteners Secure			
Railings Not Bent			
Proper Written Materials in Case			
Fuel System			
Check for Leaks (LPG or Gasoline)			
Check Hoses			
Functions			
Base/Upper Control Box			
Steer: Left/Right			
Drive: Forward/Reverse			
Hi Torque/High Speed			
Fast Speed Cut Out When Platform is Elevated			
Emergency Down			
Platform Raises to Full Extension			
Brakes Operational			
Emergency Stop			
Pothole System Operational			

Comments:

Signature/Inspectors **Date:**

Reproduce Form as Needed. Save completed forms for future reference.

SERVICING, REPLACEMENT & ADJUSTMENTS

This section contains three basic maintenance fuctions:

SERVICING describes items to be checked and serviced when necessary, on a daily basis, or prior to using the unit after it has been out of service for a period of time.

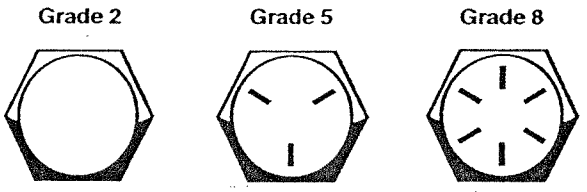
REPLACEMENT describes the proper method for removal and installation of replaceable components in case of failure.

ADJUSTMENT describes any adjustments necessary to ensure proper operation of the unit or adjustments required after the replacement of components, if necessary.

NOTE

CAPSCREW REPLACEMENT: Any capscrew replacement should be of same grade or greater than original. Any questions, call the factory for verification.

Grade markings for Capscrews grades 2, 5, and 8 are based on SAE J429. Markings may be raised or depressed (Manufacturer's opinion).



1. Battery

⚠WARNING

NEVER SMOKE OR USE OTHER COMBUSTIBLES NEAR BATTERY WHILE SERVICING BATTERY OR OTHER COMPONENTS. PROVIDE PLENTY OF VENTILATION. PRESENCE OF HYDROGEN FUMES COULD LEAD TO EXPLOSION!

Battery wiring and water level should be checked daily. Do not overfill. When the cells are filled too full, the battery fluid will expand as it becomes warm from charging causing fluid to seep out. Each time this happens, the solution weakens by adding water. Loss of ampere hour capacity will result. Do not run battery dead. Put battery on charge when approximately 80% discharged. (Hydrometer reading of 1.100 at 80°F or 26.4°C). If there is any dirt or corrosion on battery, wash with solution of 5 teaspoons baking soda per quart of warm water. (Do not get any of this solution in battery cells). Remove battery caps and check fluid. Fill, if needed, as follows (use distilled water). Before charging, fluid must be above plates in battery. After charging, fill to split ring. Coat terminals with petroleum jelly or equivalent. The surrounding temperature has a great effect on the power in a battery.

A battery 100% charged at 80°F (26.4°C)

--- drops to 65% at 32°F (0°C)

--- drops to 40% at 0°F (-17.6°C)

A battery 46% charged at 80°F (26.4°C)

--- drops to 32% at 31°F (-0.6°C)

--- drops to 21% at 0°F (-17.6°)

When battery reaches 125°F (51.2°C), battery should be taken off charge and cooled to room temperature or the charging rate should be lowered. Lead plates in discharged batteries become hardened and sulfated. The battery eventually will not deliver its rated capacity or come up to a full charge. Several long slow charges and quick discharge must be given.

⚠ WARNING

MAINTENANCE LOCKS MUST BE INSTALLED when maintaining or servicing machine with platform fully or partially extended.

Working through beams on scissors lifting device creates a hazardous situation which could cause death or personal injury.

2. Hydraulic System

a. Hydraulic System Bleeding

The Hite Master hydraulic system is self bleeding. After the system has been drained, such as during the replacement of a hydraulic system component, actuate the platform full up and down for six cycles and recheck the reservoir fluid level between each cycle. Fill as required.

b. Spin-On Oil Filter Replacement

The spin-on oil filter in the hydraulic system should be changed yearly. Replace filter with part (#6156) only. (Figures 1-5 and 1-6)

c. Electric Motor Servicing

Common maintenance on DC motor is brush replacement. It is recommended that brushes be checked and replaced if necessary, along with commutator inspection, approximately every six months. The time element will greatly vary depending on how the machine is being used.

d. Check and Fill Hydraulic Reservoir

Inspect oil level in hydraulic reservoir by unscrewing reservoir filler cap. Oil level should be 2 inches below the top of the tank. Fill reservoir with hydraulic oil conforming to MIL. SPEC. 0-5606.

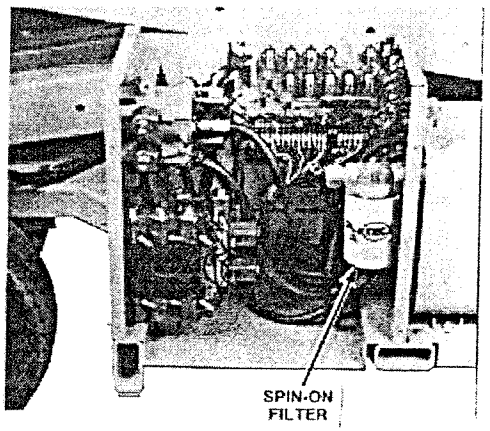


FIG 1-5 Oil Filter
Dual Fuel Series

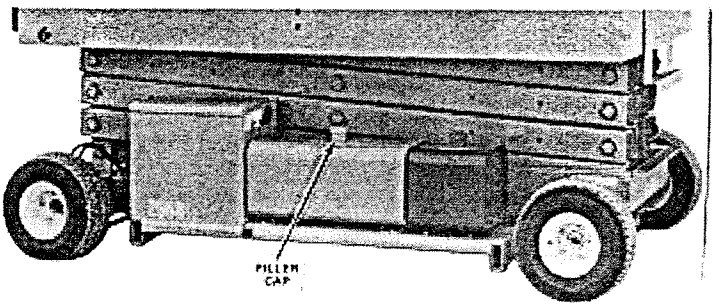


FIG. 1-7 Hydraulic Oil Fill Cap
Dual Fuel Series

f. Hydraulic Pump Replacement

(1) Remove hydraulic hoses from pump.

NOTE:

In the following step, the high pressure hydraulic line may still be under pressure and fluid will squirt out when line is disconnected. Do not reuse fluid, as it may become contaminated.

(2) Remove capscrews securing pump to engine (Figure 1-9).

(3) Remove pump from engine.

NOTE:

When reinstalling pump, grease spline with a high pressure grease.

(4) Reinstall pump and hose.

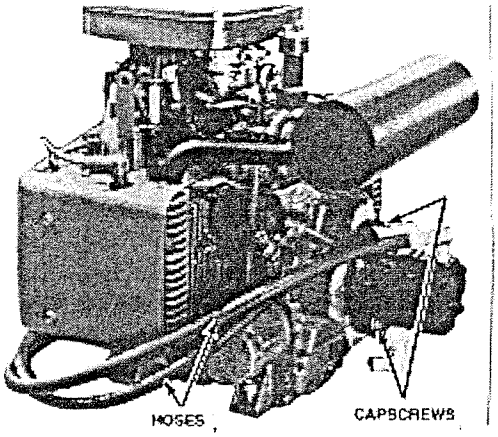


FIG 1-9 Pump
Dual Fuel Series

3. Slow Speed Switch Adjustment

a. Raise platform approximately four (4) feet. (Switch is located at right- rear underside of platform.)

b. Adjust switch in or out to activate circuit at this height (Figure 1-11). Slow-speed valve will then be energized when platform reaches this height, allowing machine to travel in slow speed only.

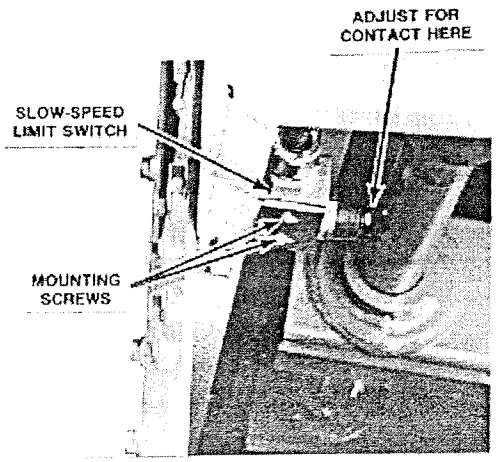


FIG. 1-11 Slow Speed Limit Switch

4. Brake Adjustment

NOTE:

Adjust brakes so that parking brake holds machine on an incline which it is capable of climbing. The machine is designed to have the brake on whenever it is not being driven.

a. Release tension from brake rod by pulling the brake manual release ring out or by activating drive and lifting the bar until the bar locks in the base (Figure 1-12).

b. Raise rear of machine enough that the tires are not touching the floor. NOTE: Both rear wheels are independently applied. Both have to be adjusted the same.

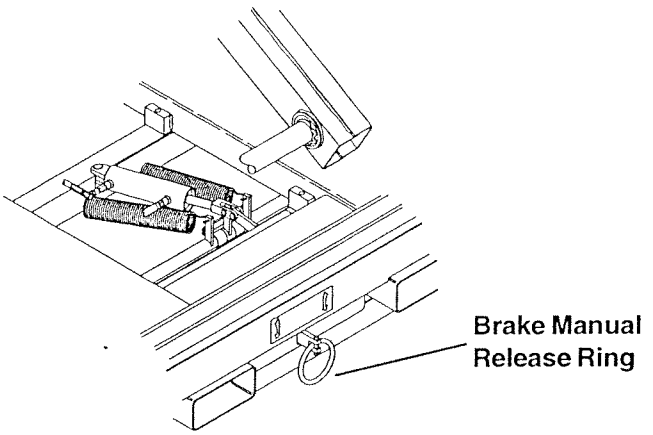


FIG. 1-12 Brake Locked

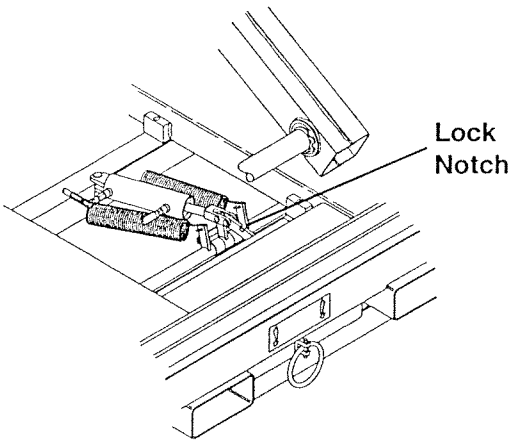


FIG. 1-13 Brake Released

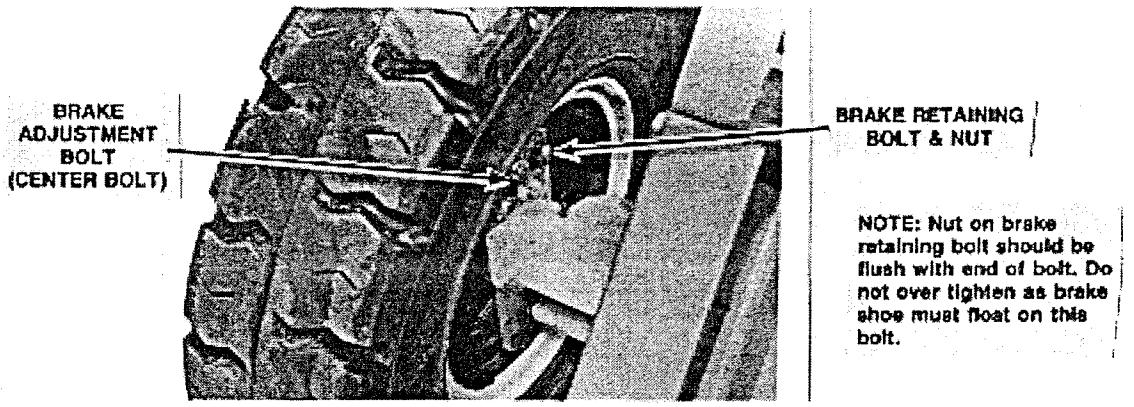


FIG. 1-14 Brake Adjustment

c. Loosen lock nut from brake adjustment bolt (Figure 1-14). If wheels turn freely, move adjustment bolt towards inside of mounting bracket until wheel becomes tight.

d. Back off on adjustment bolt until wheel turns with some amount of drag.

e. Retighten adjustment lock nut and check if wheel turns the same. (Do this to both sides.)

f. Lower machine to floor and test by driving to see if brakes are adjusted correctly. (See NOTE preceding step a)

5. Hydraulic Lift Cylinder Replacement

⚠ WARNING

MAINTENANCE LOCKS MUST BE INSTALLED when maintaining or servicing machine with platform fully or partially extended.

Working through beams on scissors lifting device creates a hazardous situation which could cause death or personal injury.

a. Raise platfrom.
b. Engage maintenance locks (Figure 1-15).
c. Lower platform until beam assemblies touch maintenance locks.
d. Remove cylinder pin retaining plates on both sides of cylinder mounting (top and bottom) (Figure 1-16)
e. Wrap a self-tightening strap around center of the cylinder (Figure 1-16).
f. With the help of a lifting device apply upward pressure.
g. Remove low-pressure hose and high-pressure hose from lower end of cylinder and emergency down assembly.
h. Remove top cylinder pin and bottom cylinder pin.
i. Raise cylinder up and out of machine.
j. Replace cylinder and reassemble in reverse order.
k. Bleed air from system bt raising and lowering platfrom 6 times.
l. Recheck fluid level in down position. (See Hydraulic System)

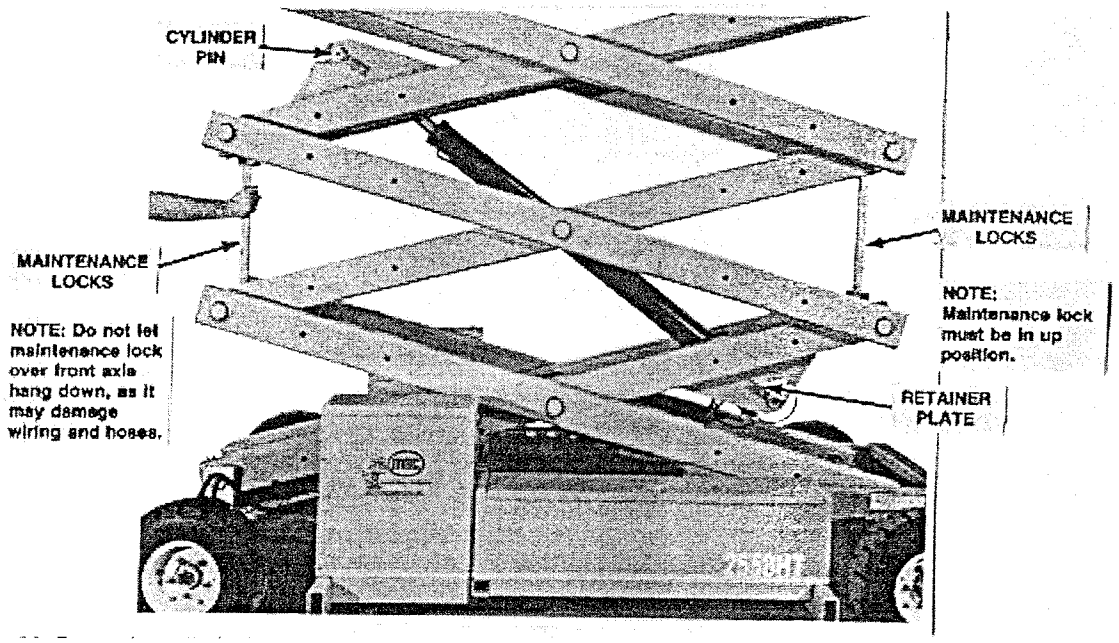


FIG. 1-15 Removing Lift Cylinder Pins and Retainers.

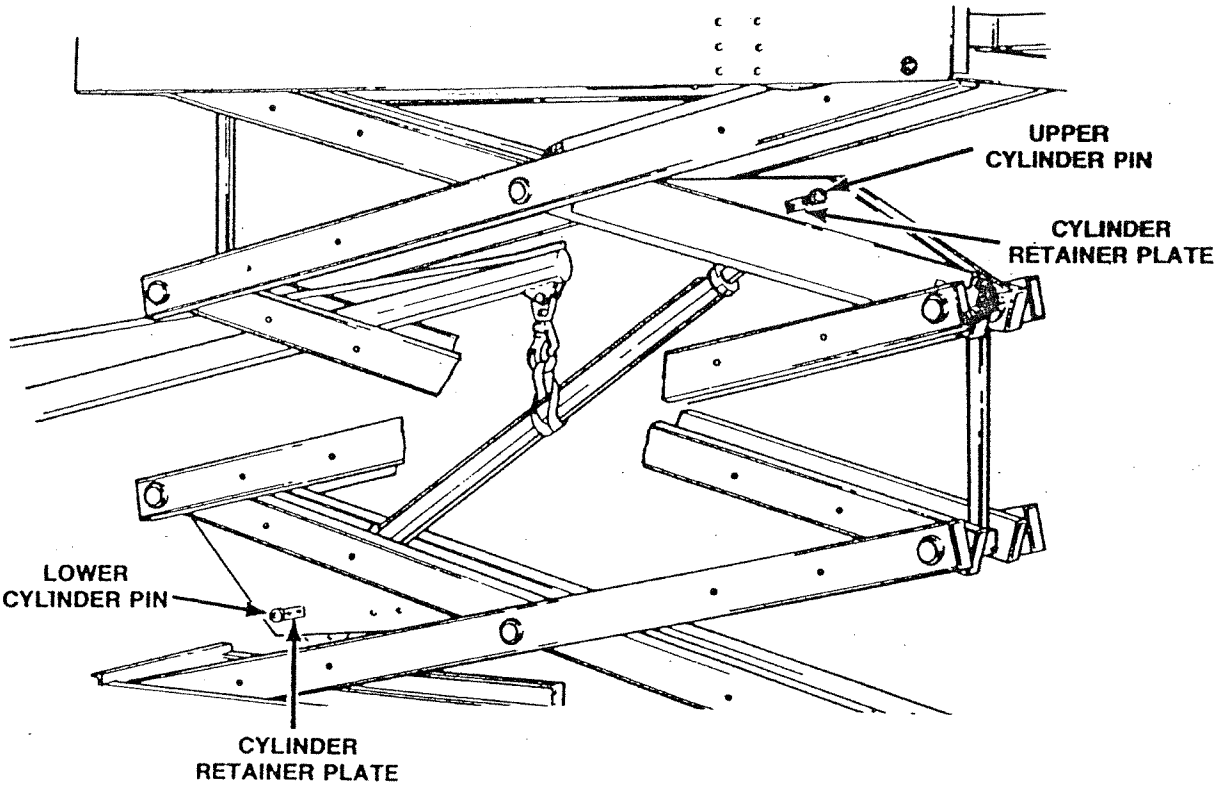


FIG. 1-16 Removing Lift Cylinder

6. Outer Beams and Inner Beam Assembly Replacement

NOTE:
When replacing damaged or worn scissor lift beams, care must be taken to assemble beams so that outer beam washer reinforcements face toward inner beam assemblies ( ).

a. The inner beam assembly to which the upper end of the lift cylinder is attached has a diamond shaped reinforcing plate at the center pivot shaft. The outer beams having a similar reinforcement at the center pivot must be assembled to this inner beam. Be sure reinforcement faces toward inner beam ( ).
b. The outer beams are made with steel of two different thicknesses. One thickness is 7 ga. (0.179 in.), the other is 10 ga. (0.134 in.). Assemble the outer beams as shown ( ).

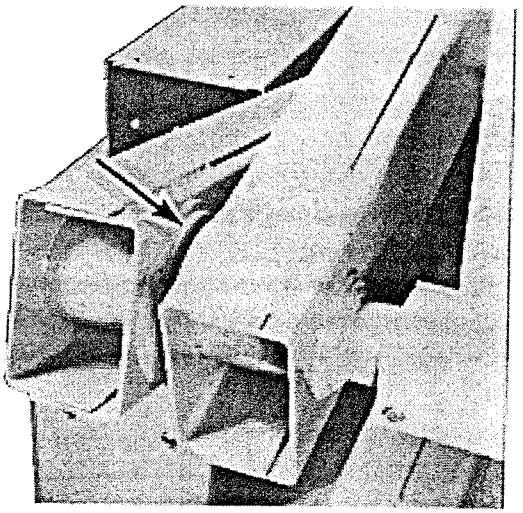


FIG. 1-17 Washer Reinforcing

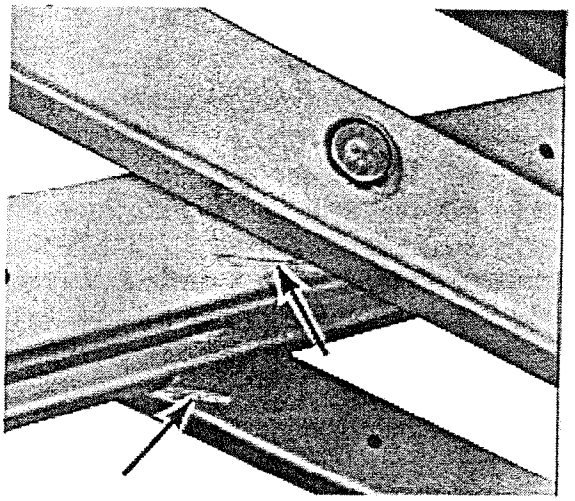


FIG. 1-18 Reinforcing Plates

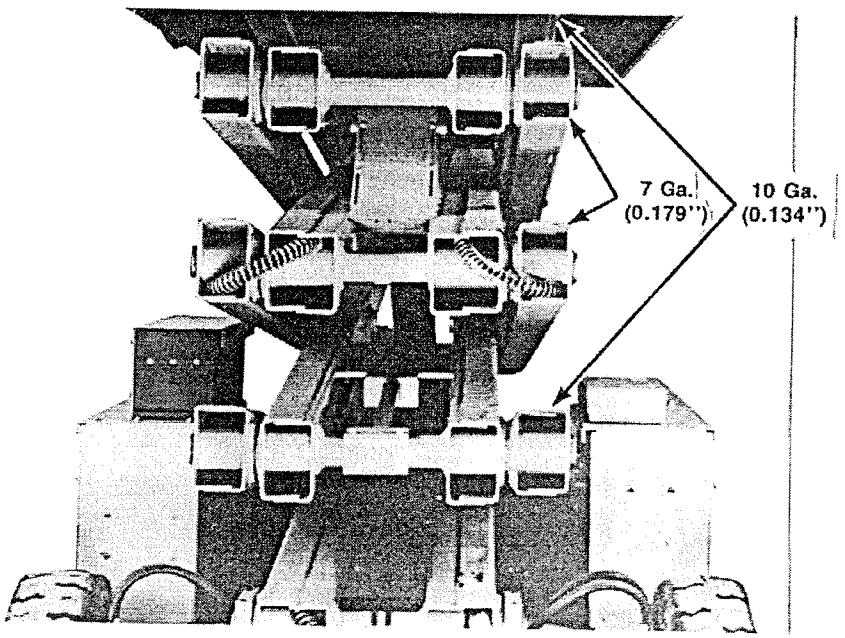


FIG. 1-19 Beam Replacement

7. **Electric Generator (Dual Fuel Series)**

a. Belt Replacement

(1) Loosen idler bracket bolts.
(2) Run belt off pulleys.
(3) Replace belt part #6879.
(4) Tighten idler pulley so that belt can be depressed 1/2" between generator pulley and engine pulley.
(5) Tighten idler bracket bolts.

b. Belt Tightness Adjustment (Figure 1-20)

(1) Loosen idler bracket bolts.
(2) Tighten idler pulley so that the belt can be depressed 1/2" between generator pulley and engine pully.
(3) Tighten idler bracket bolts.
(4) Inspect pulley alignment.

c. Pulley Alignment (Figure 1-20)

(1) Loosen idler bracket bolts.
(2) Loosen setscrew on pulley(s) that is out of alignment.
(3) Slide pulley(s) on shaft until it is aligned with idler pulley.
(4) Tighten setscrew(s).
(5) Tighten idler pulley so that the belt can be depressed 1/2" between generator pulley and engine pulley.
(6) Tighten idler pulley bracket bolts.
(7) Recheck alignment.

d. Generator Service and Alignment

Refer to GENERATOR OPERATING MANUAL.

e. Generator Replacement (Figure 1-20)

(1) Loosen idler bracket bolts and run belt off pulleys.
(2) Loosen generator pulley setscrew and remove pulley.
(3) Remove nut and bolt from generator support bracket.
(4) Remove four bolts on inside of motor housing from generator mounting rods.
(5) Remove generator from motor housing.
(6) Reverse procedure to reinstall generator. Check pulley alignment and adjust if necessary.

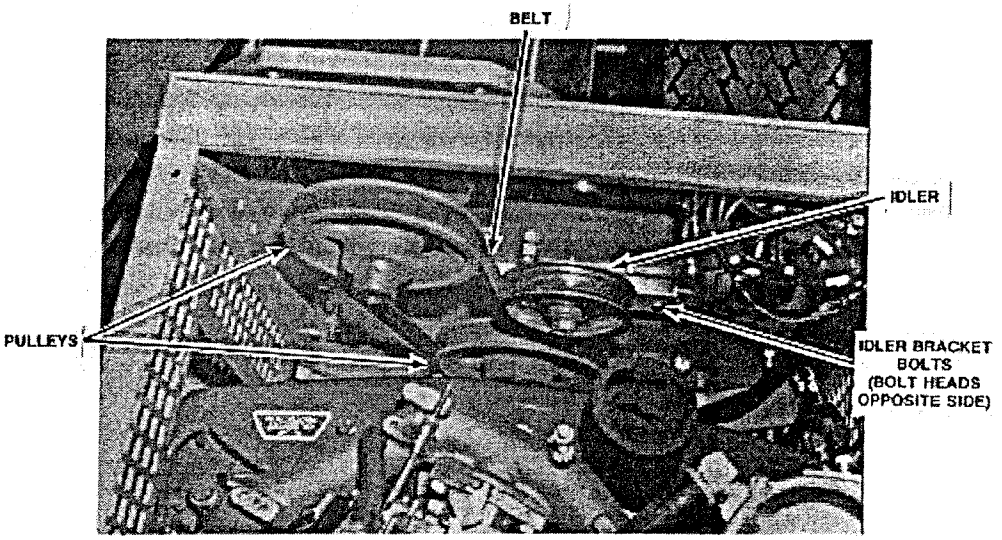


FIG. 1-20 Generator Belt, Idler and Pulleys

Limited Owner Warranty

Mayville Engineering Company, Inc. (MEC) warrants its equipment to the original purchaser against defects in material and/or workmanship under normal use and service for one (1) year from date of registered sale or date the unit left the factory if not registered. MEC further warrants the structural weldments of the main frame and scissor arms as defined in MEC's current Warranty Policy & Procedures, to be free from defects in material or workmanship for five (5) years from date of registered sale or date unit left the factory if not registered. Excluded from such warranty is the battery(s) which carries a ninety (90) day warranty from described purchase date and prorated thereafter up to one (1) year. Warranty claims within such warranty period shall be limited to repair or replacement, at MEC's option, of the defective part in question and labor to perform the necessary repair or replacement based on MEC's then current flat rate, provided the defective part in question is shipped prepaid to MEC and is found upon inspection by MEC to be defective in material and/or workmanship. Mayville Engineering Company, Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever. Use of other than factory authorized parts, misuse, improper maintenance or modification of the equipment voids this warranty. The foregoing warranty is exclusive and in lieu of all other warranties, express or implied. All such other warranties, including implied warranties of merchantability and of fitness for a particular purpose, are hereby excluded. No Dealer, Sales Representative, or other person purporting to act on behalf of MEC is authorized to alter the terms of this warranty, or in any manner assume on behalf of MEC any liability or obligation which exceeds MEC's obligations under this warranty.

Relay Board Description (Dual Fuel)

The relay circuit board interfaces the control console switches with the hydraulic components on the Dual Fuel Series Hite-Master. Each function, except down, is routed through a relay. Power is supplied from two fused circuit.

* The control console circuit is fused at 15 amps. This circuit power to console switches which energize their respective relay coils and LED's. This circuit also provides power to engine control functions.

* The power buss circuit is fused at 20 amps. This circuit supplies power via CR1 to the board relay contacts. The relay contacts energize their respective hydraulic solenoids. This circuit also powers the engine throttle time delay circuit CR6.

The board's input terminal strip is located on its bottom, and its output strip is located on its left side. Each relay circuit is separately fused at 7 amps. Buss power is supplied to the board only when the engine is running and the CR1 circuit has been energized by the oil pressure switch.

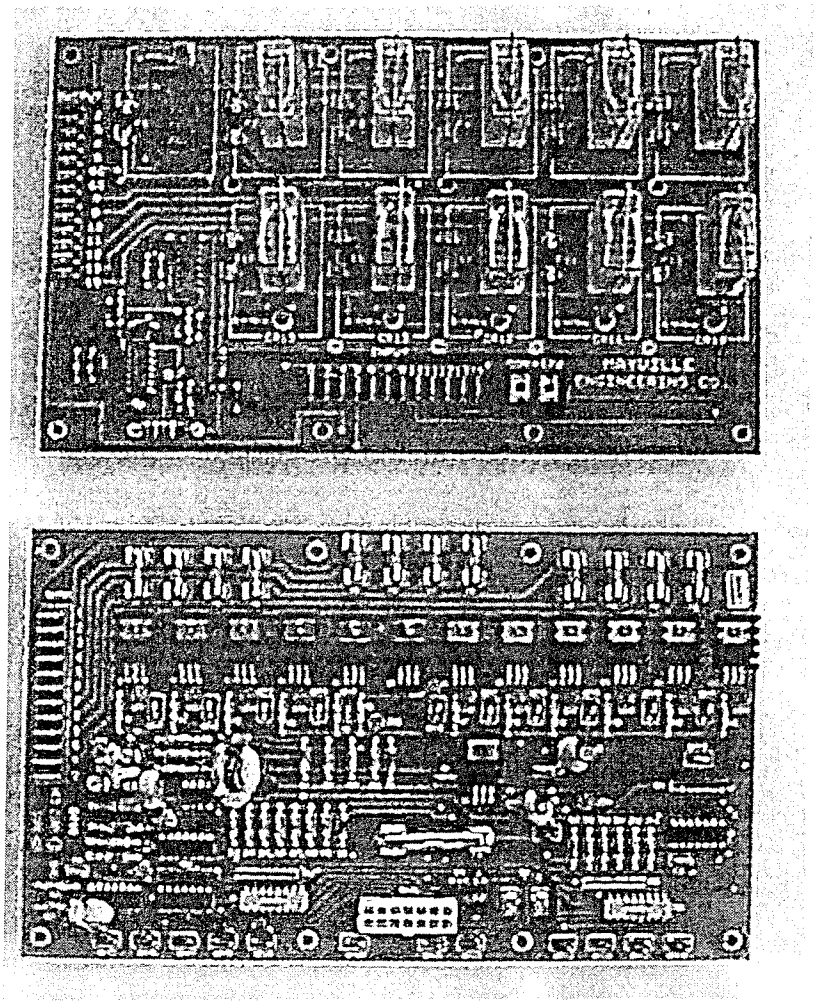


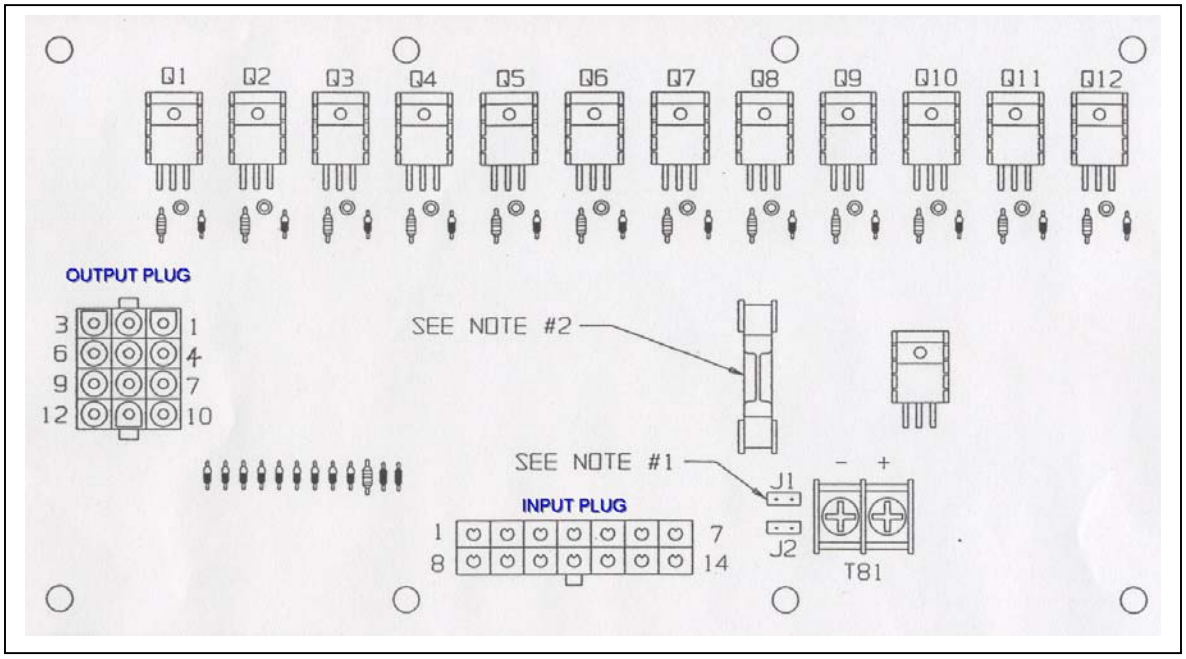
FIG. 1-21 Circuit Boards

Aerial Work Platforms

9021 Relay Board (new style)

When replacing (p/n **9021**) circuit board on **Quadrex 25/33 RT** series or **3072** series or **2558DF** (Kawasaki eng), it will be necessary to pull jumper J1 (note 1 on diagram). Jumper J1 programs the throttle and choke control circuits. Leave jumper in place for **2558D** w/Kohler engine only.

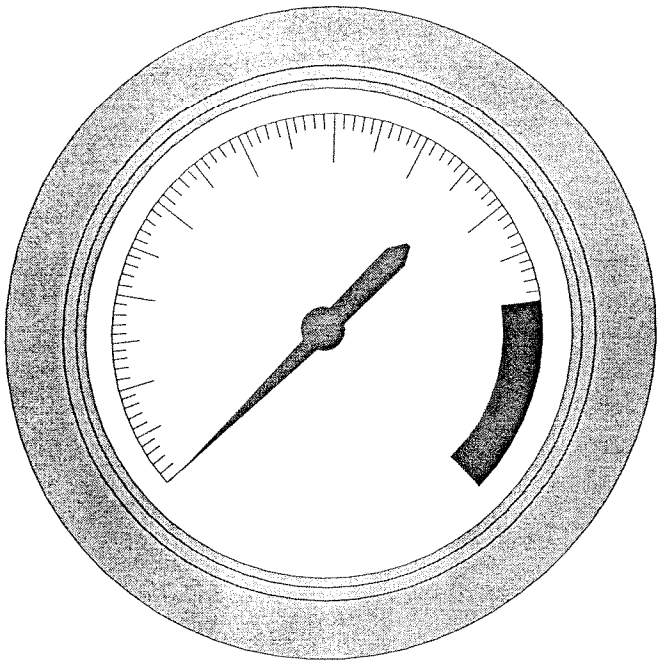
NOTE: J1 is very small, use needle-nosed pliers to pull it from the board.



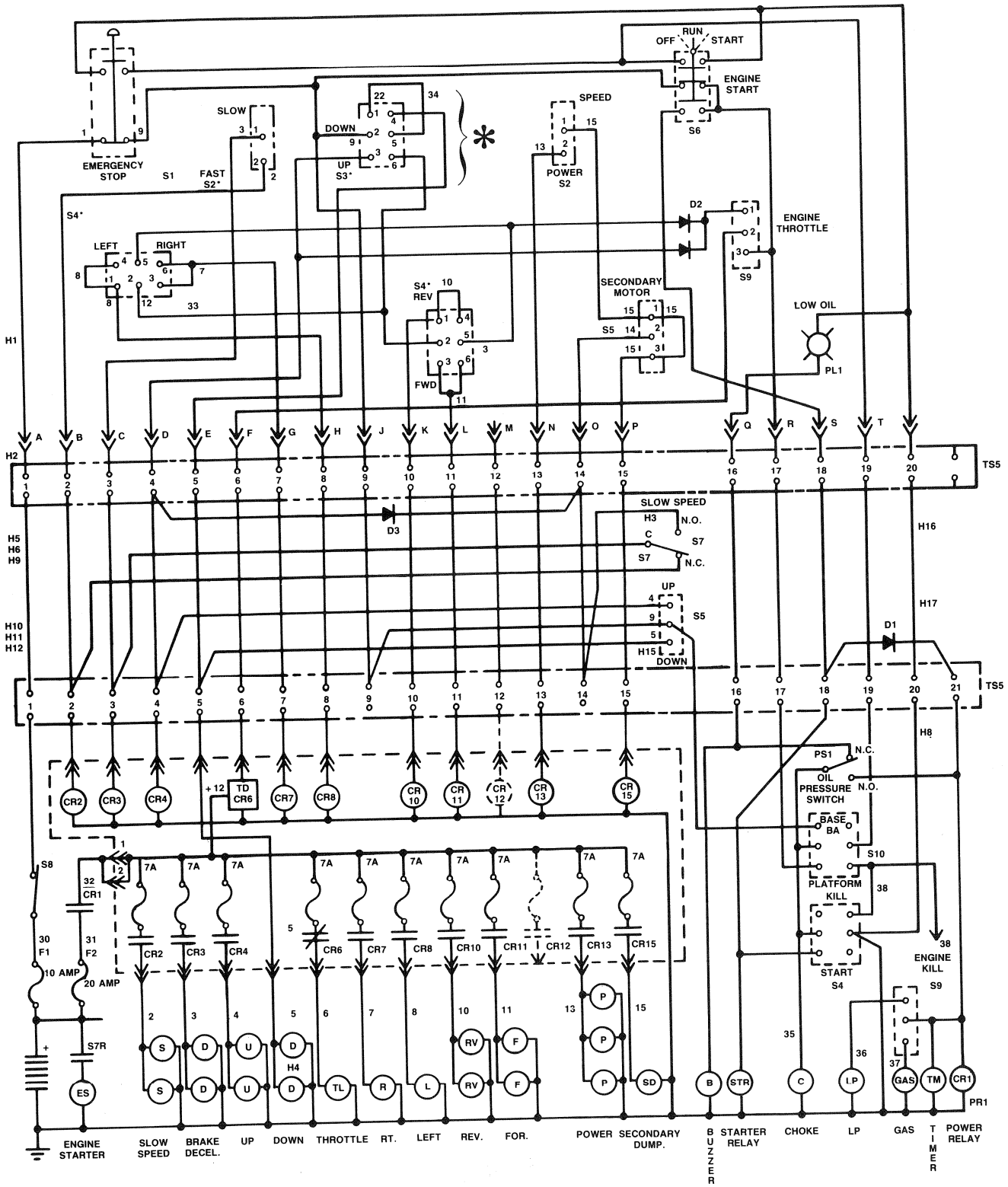
For diagnostic purposes, the chart below lists the input and output terminals, and LED for the respective function. Match the column on the chart with your specific model.

INPUT	LED	OUTPUT	FUNCTION 25, 33 RT	FUNCTION 25,33 SRT	FUNCTION 3072	FUNCTION 2558D	FUNCTION 2558DF
1	1	1	Up	Not used	Up to 9200486 - Start From 9200487- Not used	Not used	Not used
2	2	2	Down	Slow Speed	Slow	Slow	Slow
3	3	3	Bypass – Decel	Brake - Decel	Decel – Pri. Dump	Brake – Decel	Brake – Decel
4	4	4	Torque	Up	Up	Up	Up
5	5	5	Throttle	Not used	Throttle	Not used	Throttle
6	6	6	Choke Pre-heat (diesel)	Throttle	Choke Pre-heat (diesel)	Throttle	Choke
7	7	7	Forward	Right	Right	Right	Right
8	8	8	Reverse	Left	Left	Left	Left
9	9	9	Steer Left	Sec. Dump	Sec. Dump	Sec. Dump	Sec. Dump
10	10	10	Steer Right	Reverse	Reverse	Reverse	Reverse
11	11	11	Steer Bypass	Forward	Forward	Forward	Forward
12	12	12	A.C. Generator (opt)	Torque	Torque	Torque	Torque

Troubleshooting



ELECTRICAL WIRING DIAGRAM
HITE-MASTER (DUAL FUEL SERIES)



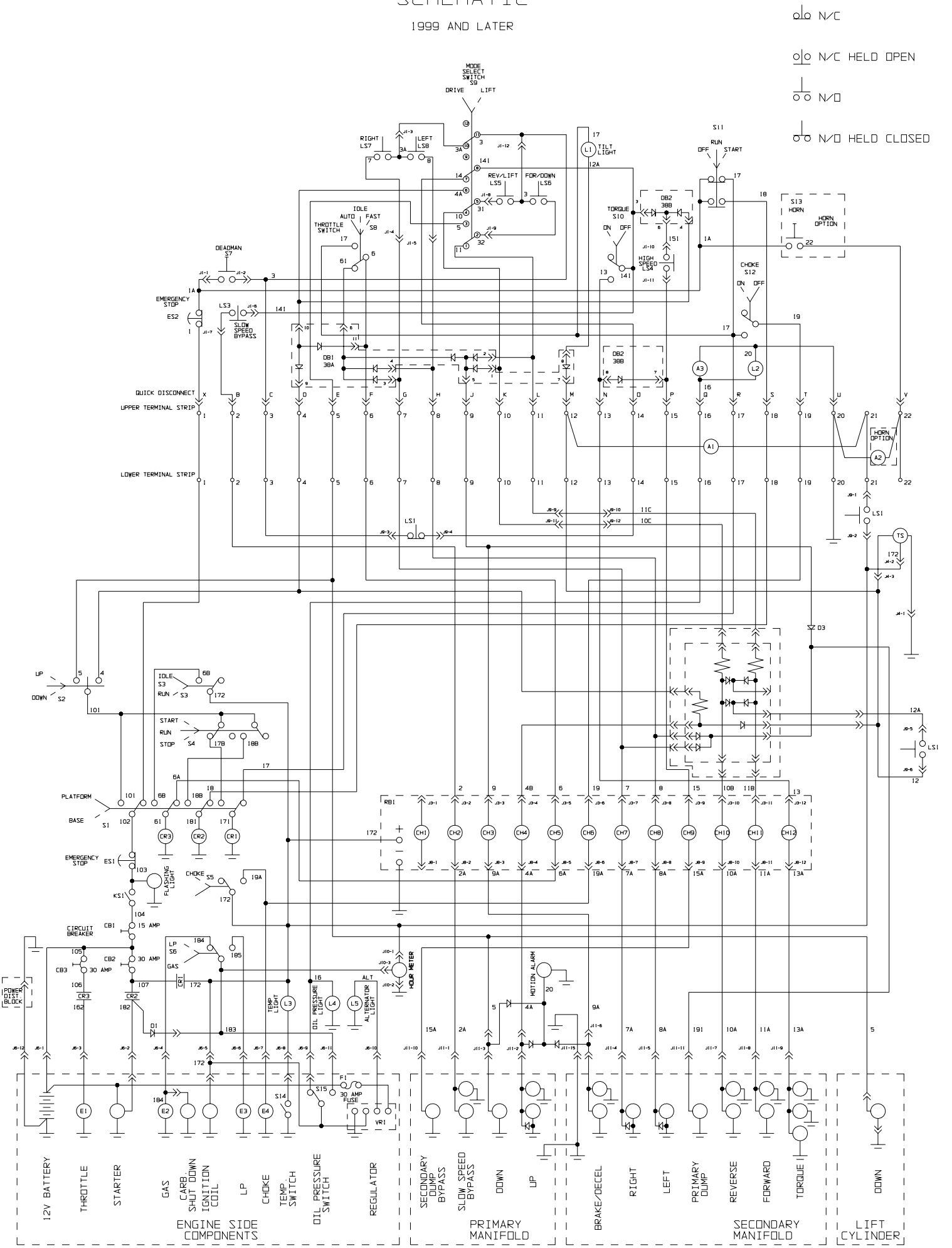
* NOTE: Switch wiring as seen from the rear of switch.

Up/Down Switch at Upper Control Box – Contacts Made With Toggle at Keyway Position 1-2, 4-5 – Center Position 1-2, 5-6 – Opposite Keyway 2-3, 5-6

Figure 38.

2558DF ELECTRICAL SCHEMATIC

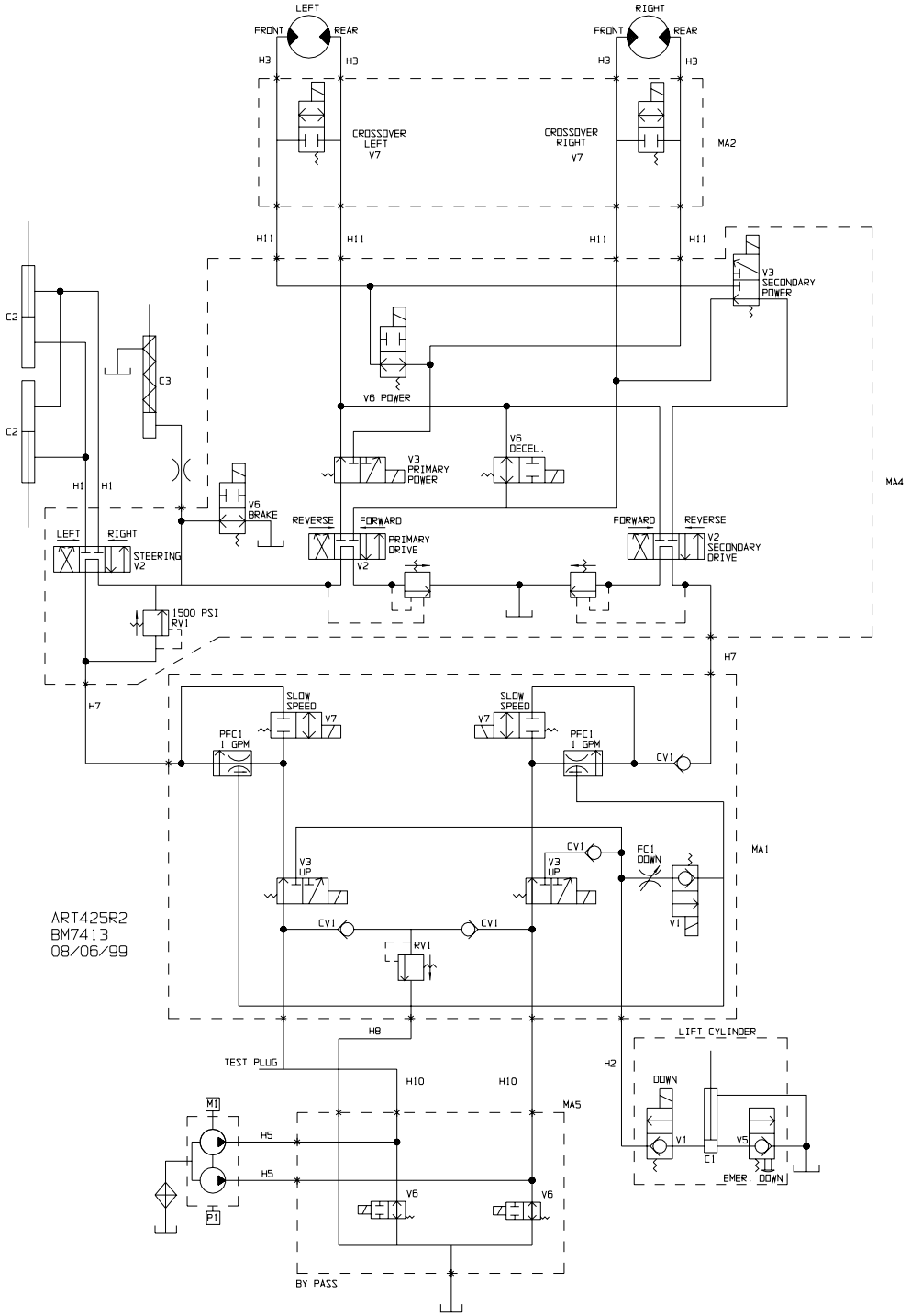
1999 AND LATER



ARI853 R0
BM20466

ITEM	PART NO.	QTY.	DESCRIPTION
C1	3488	1	LIFT CYLINDER
C1	6790	SERV	SEAL KIT
C1	6787	1	WIRE HARNESS, DOWN
C2	2838	2	STEERING CYLINDER ASSYEMBLY
C2	2484	SERV	CYLINDER BARREL
C2	2493	SERV	CYLINDER HEAD
C2	2494	SERV	PISTON
C2	2837	SERV	CYLINDER ROD
C2	6337	SERV	RETAINING RING
C2	6338	SERV	LOCK NUT
C2	5947	SERV	SEAL KIT
C3	2483	1	BRAKE CYLINDER ASSEMBLY
C3	2485	SERV	CYLINDER BARREL
C3	2493	SERV	CYLINDER HEAD
C3	2494	SERV	PISTON
C3	2505	SERV	CYLINDER ROD
C3	6337	SERV	RETAINING ROD
C3	6338	SERV	LOCK NUT
C3	5947	SERV	SEAL KIT
CBV1	6712	2	COUNTERBALANCE VALVE
CBV1	6806		"O" RING KIT
CV1	5434	4	CHECK VALVE
CV1	5475	SERV	"O" RING KIT
F1	6156	1	FILTER ELEMENT
FC1	5963	1	FLOW CONTROL
FC1	5475	SERV	"O" RING KIT
H1	6718	2	HOSE, STEERING
H2	6720	1	HOSE, LIFT
H3	6721	4	HOSE, DRIVE
H4	6722	1	HOSE, BRAKE
H5	6723	1	HOSE
H7	5999	2	PRIMARY TO SECONDARY
H8	6225	2	HOSE
H9	5995	1	HOSE
H10	6237	2	HOSE BYPASS TO PRIMARY
H11	6429	4	HYD. HOSE, SECONDARY TO CROSSOVER
M1	6853	1	4-CYCLE GAS ENGINE
M4	6660P	2	DRIVE MOTOR (HYDRAULIC)
MA1	3595	1	PRIMARY MANIFOLD
MA2	3609	1	MANIFOLD
MA4	3480	1	SECONDARY MANIFOLD PT.
MA5	4336	1	MANIFOLD DOUBLE BYPASS
O1	7044	1	ORIFICE, FITTING ASSEMBLY
O4	2975	1	ORIFICE, FITTING (BRASS)
P1	6855	1	HYDRAULIC PUMP
PFC1		1	PRIORITY FLOW CONTROL
PCF1	5954		1.0 GPM (STD.)
PCF1		SERV	PRIORITY FLOW CONTROL
PCF1	6189		.5 GPM (SPECIAL)
PCF1	5476		"O" RING KIT
RV1	6316	2	RELIEF VALVE
RV1	5475	SERV	"O" RING KIT
V1	6973	2	2-WAY N.C. VALVE ONLY
V1	5475	SERV	"O" RING KIT
V1	6870		COIL ONLY 12V
V2	7976	3	4-WAY 3-POSITION VALVE ONLY
V2	6161	SERV	SPRING AND "O" RING KIT
V2	6870		COIL ONLY 12V
V3	6976	4	3-WAY 2-POSITION VALVE ONLY
V3	5476	SERV	"O" RING KIT
V3	6870		COIL ONLY 12V
V5	5435	1	MANUAL PULL - EMERGENCY DOWN
V5	5475	SERV	"O" RING KIT
V6	6975	5	2-WAY N.O. SPOOL VALVE ONLY
V6	5475	SERV	"O" RING KIT
V6	6870		COIL ONLY 12V
V7	7151	4	VALVE 2 WAY N.C. SPOOL

MODEL	PRESSURE RELEASE VALVE SETTING	LIFT CAPACITY
19480	2,150 PSI	1,750#
25580	2,250 PSI	1,250#



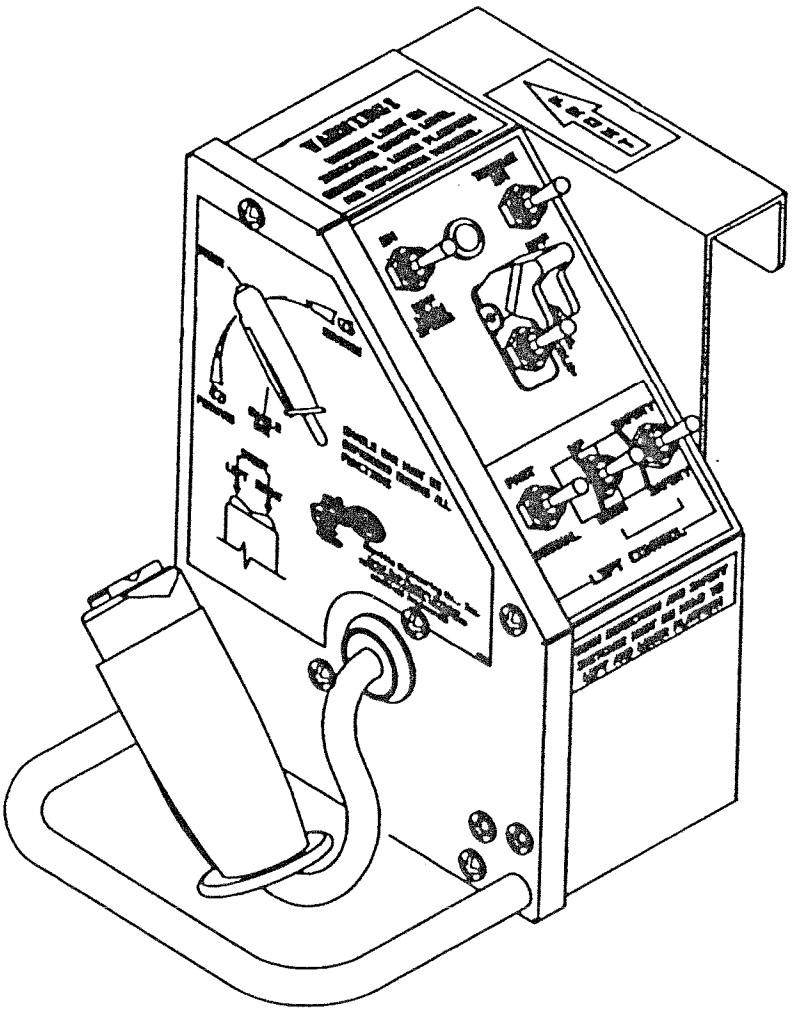
DENOTES CRITICAL DIMENSION

TOLERANCE
(UNLESS OTHERWISE SPECIFIED)
REF. WORK INSTRUCION ENG-56-022

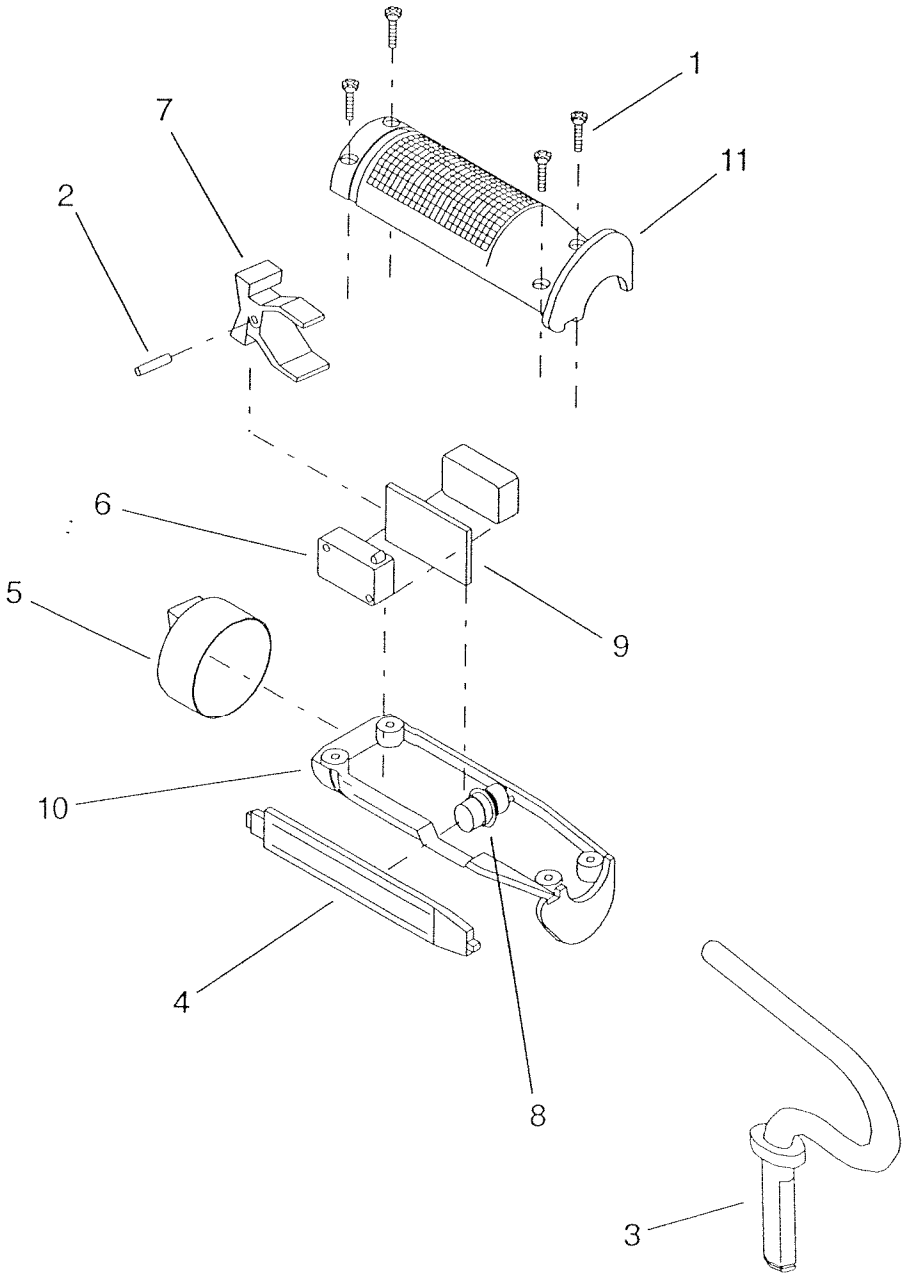
CUSTOMER NUMBER AND PROJECT NAME

3+ PLACE (.XXX)

HITE-MASTER
2558DF
Control Boxes



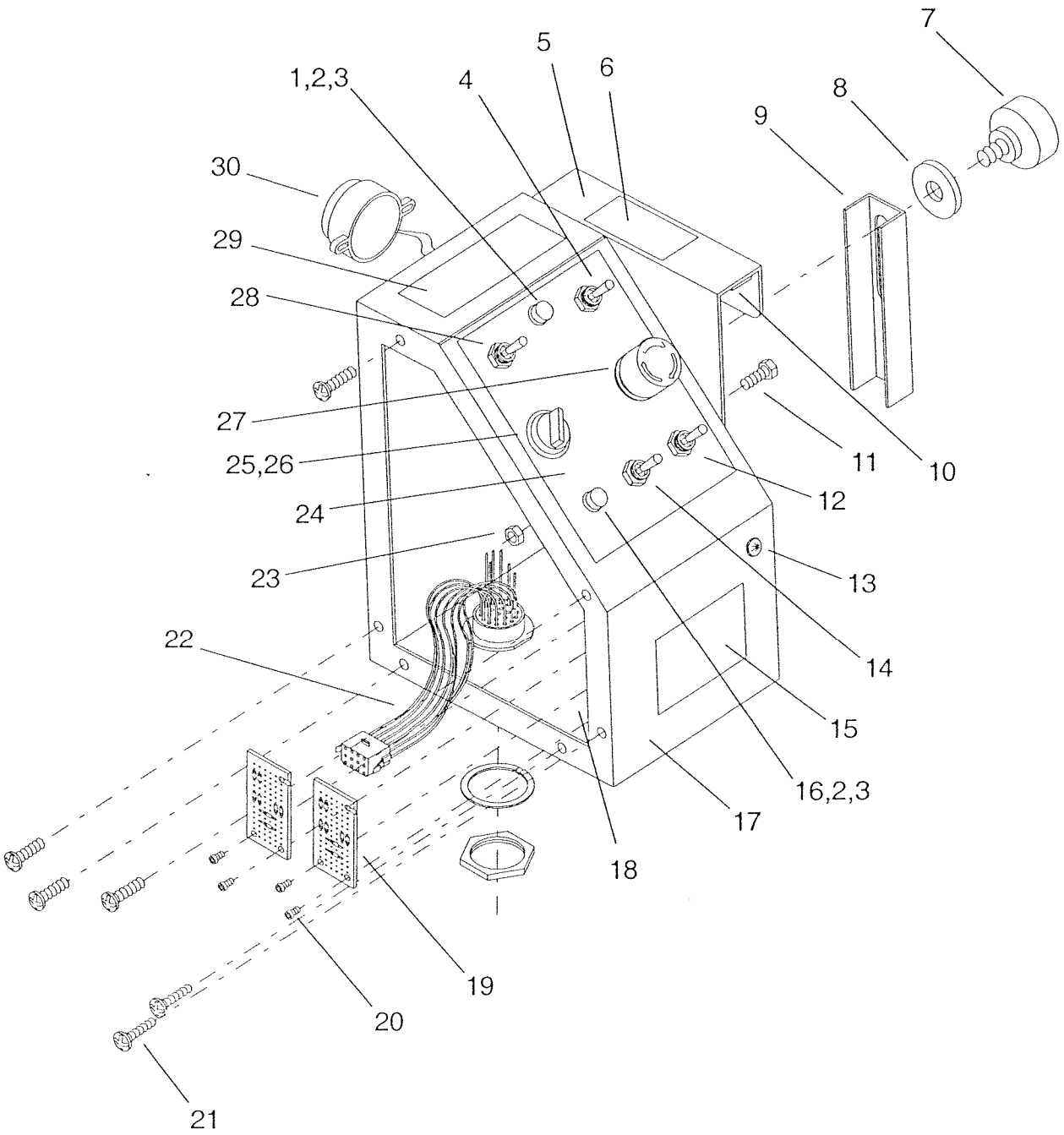
NOTES:



ART188 R3
BM15040
1/4/99

FIG. 3-1 Control Arm Joystick Assembly

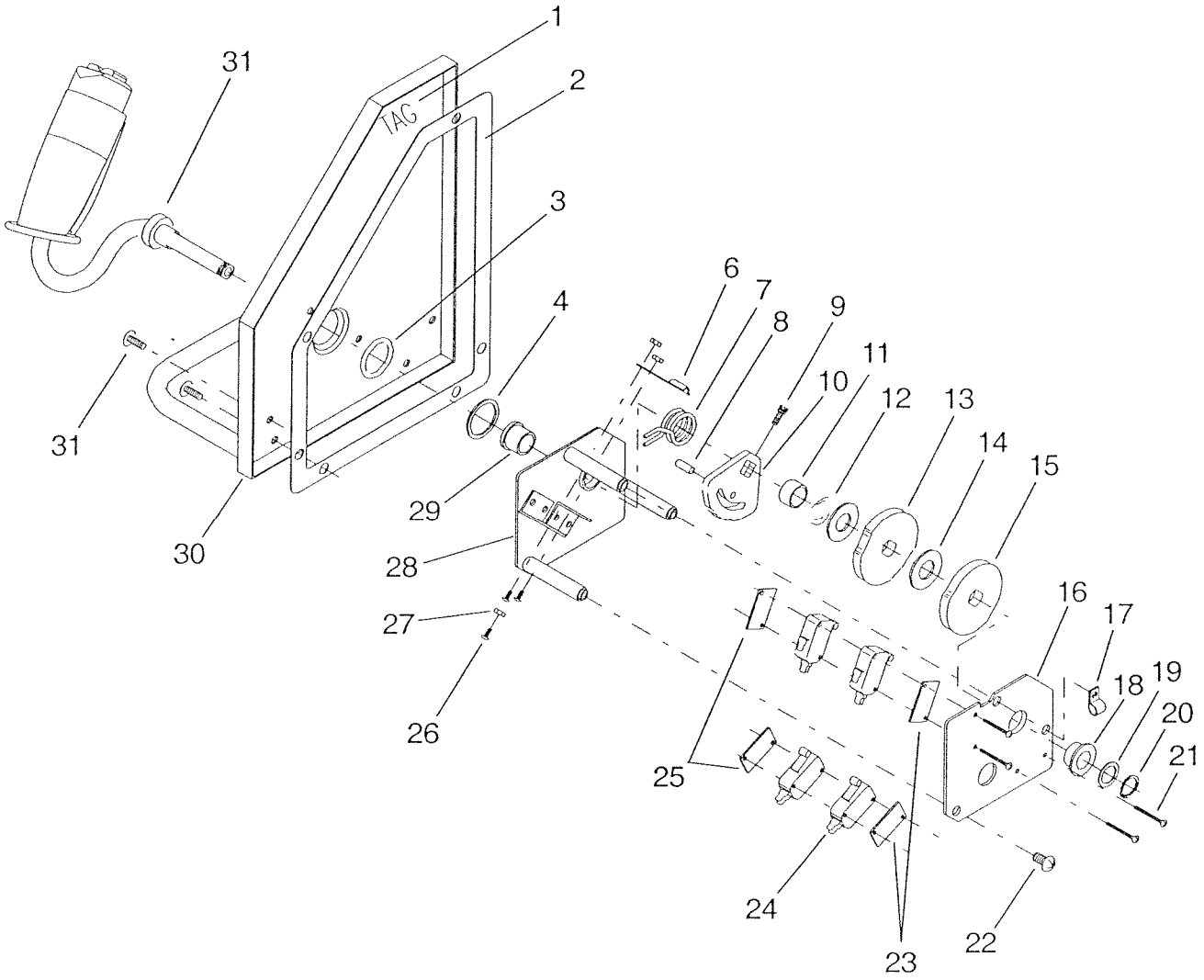
ITEM	PART NO.	QTY	DESCRIPTION
13647 - CONTROL ASSEMBLY, JOYSTICK			
1	HDW8455	4	SCREW, 6 X 1/2" TAPTITE
2	8750	1	PIN
3	13638	1	CONTROL ARM WITHOUT WIRE
4	8748	1	TRIGGER
5	8456	1	ROCKER BOOT
6	8448	2	SWITCH - V3 P-Q
7	8453	1	SWITCH ACTUATOR
8	8753	1	MOTION SWITCH, ON-OFF
9	8447	1	SWITCH SEPARATOR
10	8751	1	GRIP - BOTTOM HALF
11	8752	1	GRIP - TOP HALF
	8761	1	SWITCH ASSEMBLY - INCLUDES WIRING AND ITEMS 6,8, & 9



ART749 R1
BM16299
7/15/98

FIG. 3-2 Upper Control Box Assembly

ITEM	PART NO.	QTY	DESCRIPTION
20197 - CONTROL BOX ASSEMBLY WITH HORN			
1	9184	1	LIGHT LENS - YELLOW
2	9188	2	LIGHT BAYONET, 14 VOLT
3	9179	2	SOCKET, INDICATOR LIGHT
4	5630	1	SWITCH, TOGGLE, 2 POSITION MAINTAINED
5	13865	1	BRACKET, CONTROL BOX HOLDER
6	7156	1	DECAL, FRONT
7	8826	1	SCREW, 5/16" - 18 FLOWER THUMBSCREW
8	HDW8294	1	WASHER, FLAT
9	13864	1	BRACKET, CONTROL BOX LOCK
10	6350	.5	TAPE, FOAM
11	HDW5724	1	SCREW, 5/16" - 18, 3/4" LONG
12	.6905	1	SWITCH, TOGGLE, 3 POSITION MAINTAINED, CENTER OFF
13	8044	1	SWITCH, HORN
14	7423	1	SWITCH, TOGGLE-1 POLE, 2 POSITION, MOMENTARY
15	9239	1	DECAL, CONTROL BOX ID
16	9183	1	LIGHT LENS - RED
17	20134	1	WELDMENT, CONTROL BOX, JOYSTICK
18	8066	1	TAG, INSPECTION
19	7451	2	CIRCUIT BOARD
20	HDW5978	4	SCREW, #6-32, 1/4" LONG
21	HDW7888	6	SCREW, #10-32, 1/2" LONG
22	9210	1	WIRE HARNESS, CONTROL BOX
23	HDW7120	1	NUT, 5/16" - 18
24	8517	1	DECAL, JOYSTICK CONTROL BOX
25	8075	1	SWITCH, SELECTOR 3 POSITION
26	8076	1	BASE, MOUNTING WITH 2 CONTACT BLOCKS
27	7800	1	SWITCH, EMERGENCY STOP
	9345	1	BLOCK-CONTACT N.C. (ABB) OR
	8083	1	BLOCK CONTACT N.C. (TELEMECANIQUE)
28	8638	1	SWITCH, TOGGLE, 4 POLE, 2 POSITION
29	7827	1	DECAL, WARNING LIGHT
30	9173	1	BUZZER, 10-48 VOLT

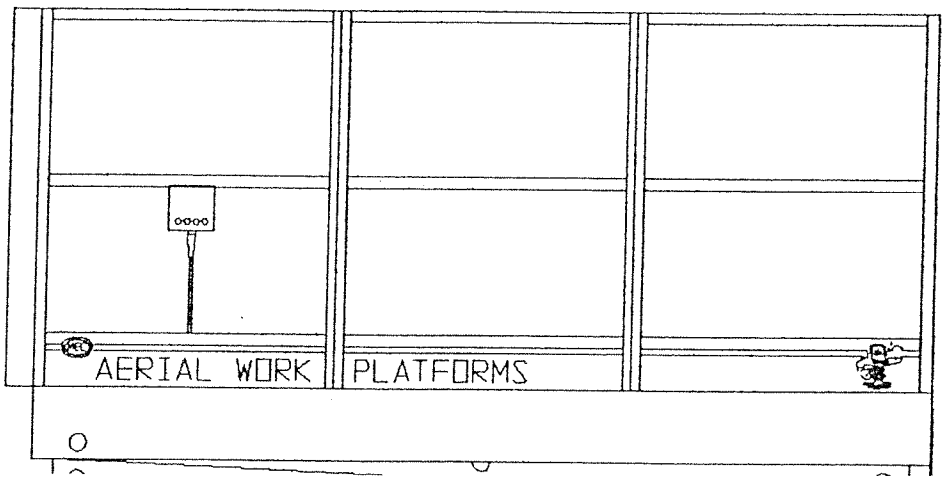


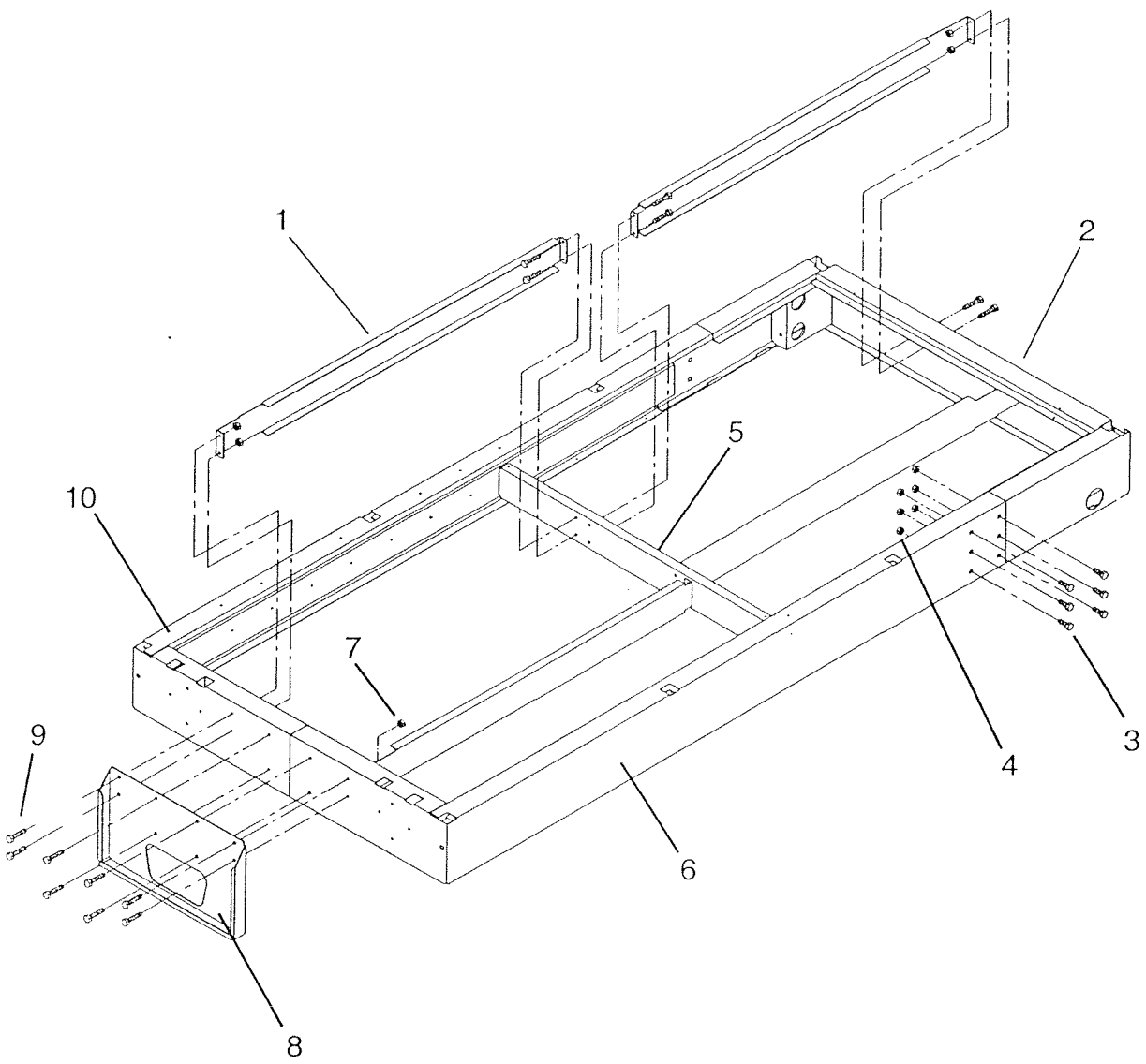
ART587 R4
BM13040
4/1/99

FIG. 3-3 Control Box Cam Assembly

ITEM	PART NO.	QTY	DESCRIPTION
14504 - COVER ASSEMBLY			
1	8066	1	TAG, INSPECTION LINE
2	7875	1	GASKET, JOYSTICK
3	7882	1	O-RING, 7/8" ID, 1 1/8" OD
4	HDW3768	1	WASHER, FLAT
5	7914	2	CABLE TIE
6	3770	1	SPRING, SPEED LEVEL
7	8435	1	SPRING, TORSION
8	100/8348	1	PIN, HOLD DOWN
9	HDW7887	1	SCREW, #6-32 X 1/2" LONG
10	13502	1	BRACKET, CENTERING
11	3763	1	STEP SPACER
12	HDW7881	1	WASHER, BEVEL
13	3781	1	CAM, SPEED CONTROL
14	HDW8531	2	WASHER, FLAT
15	3782	1	CAM, DIRECTIONAL
16	3759	1	PLATE, TOP
17	6917	1	CABLE CLAMP 1/4"
18	7818	1	BEARING
19	HDW3771	1	WASHER, FLAT
20	5736	1	RING, RETAINING, 1/2" SHAFT
21	HDW7884	4	SCREW, #4-40, 1 1/4" LONG
22	HDW7888	12	SCREW, #10-3, 1/2" LONG
23	3764	2	PLATE, SPACER
24	8696	4	LIMIT SWITCH
25	3765	2	PLATE, STRAP
26	HDW7885	3	SCREW, #4-40, 1/4" LONG
27	HDW7886	3	NUT, #4-40
28	3766	1	TOP PLATE WELDMENT
29	7819	1	BEARING
30	3772	1	COVER WELDMENT
31	13647	1	CONTROL ARM ASSEMBLY
32	8859	1	HARNESS, JOYSTICK CONTROL BOX

HITE-MASTER
2558DF
Platform & Rails





ART 627 R0
BM13850
6/27/97

FIG. 4-1 58" Platform Assembly

ITEM	PART NO.	QTY	DESCRIPTION
1	3046	4	REINFORCEMENT - END
2	3499	1	PLATFORM WELDMENT - WIDE
3	HDW6750	12	SCREW, 3/8" - 16, 3/4" LONG
4	HDW5039	12	NUT, 3/8" - 16
5	3397	1	REINFORCEMENT, CROSS - LONG
6	3507	1	PLATFORM WELDMENT, RIGHT - WIDE
7	HDW5005	24	NUT, 5/16" - 18
8	3716	1	STEP, REAR
9	HDW5204	24	SCREW, 5/16" - 18, 1" LONG
10	3506	1	PLATFORM WELDMENT, LEFT - WIDE
	6703	1	BOARD, PLATFORM, 3/4" X 50 3/4" X 95" (NOT SHOWN)

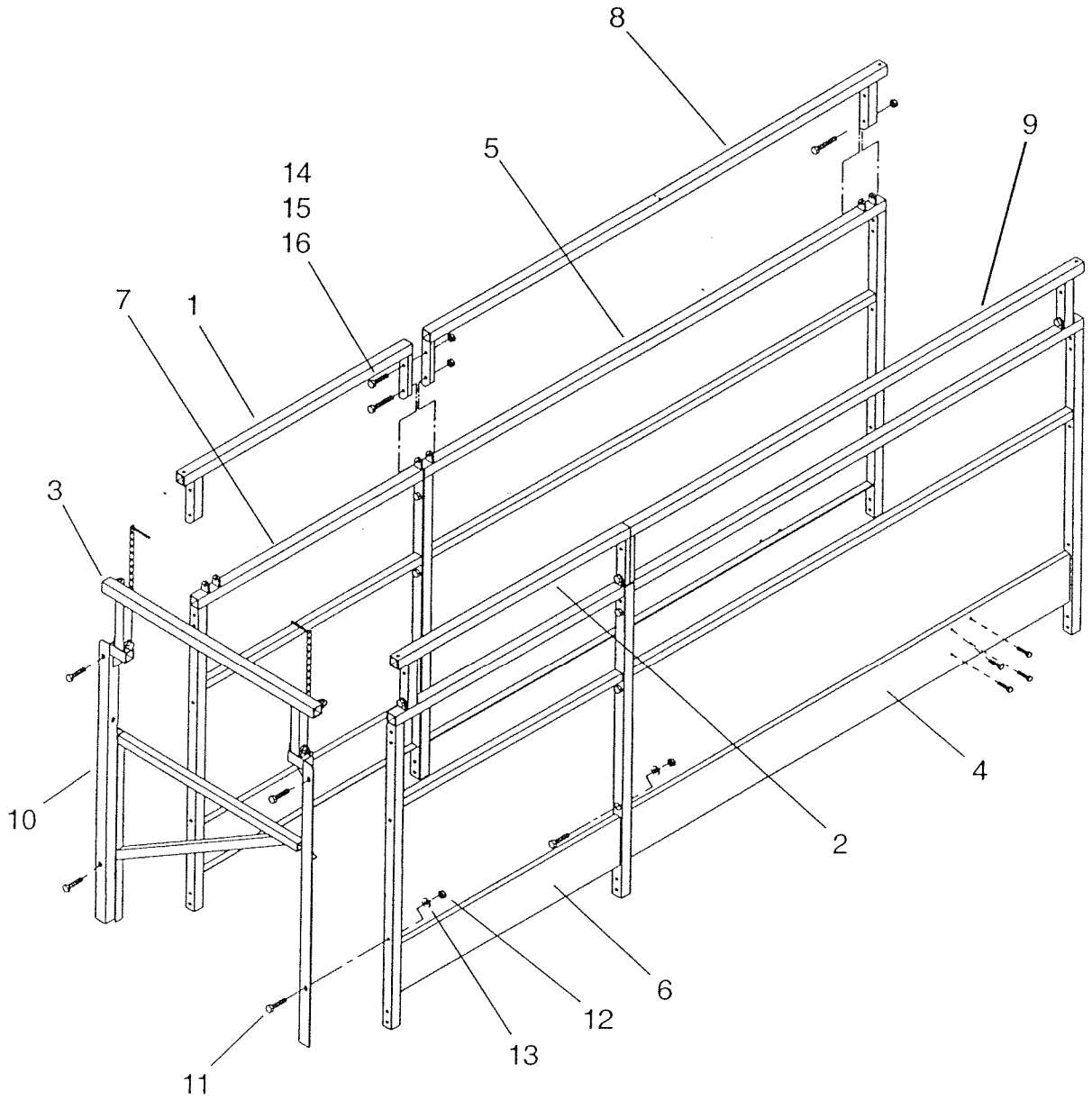
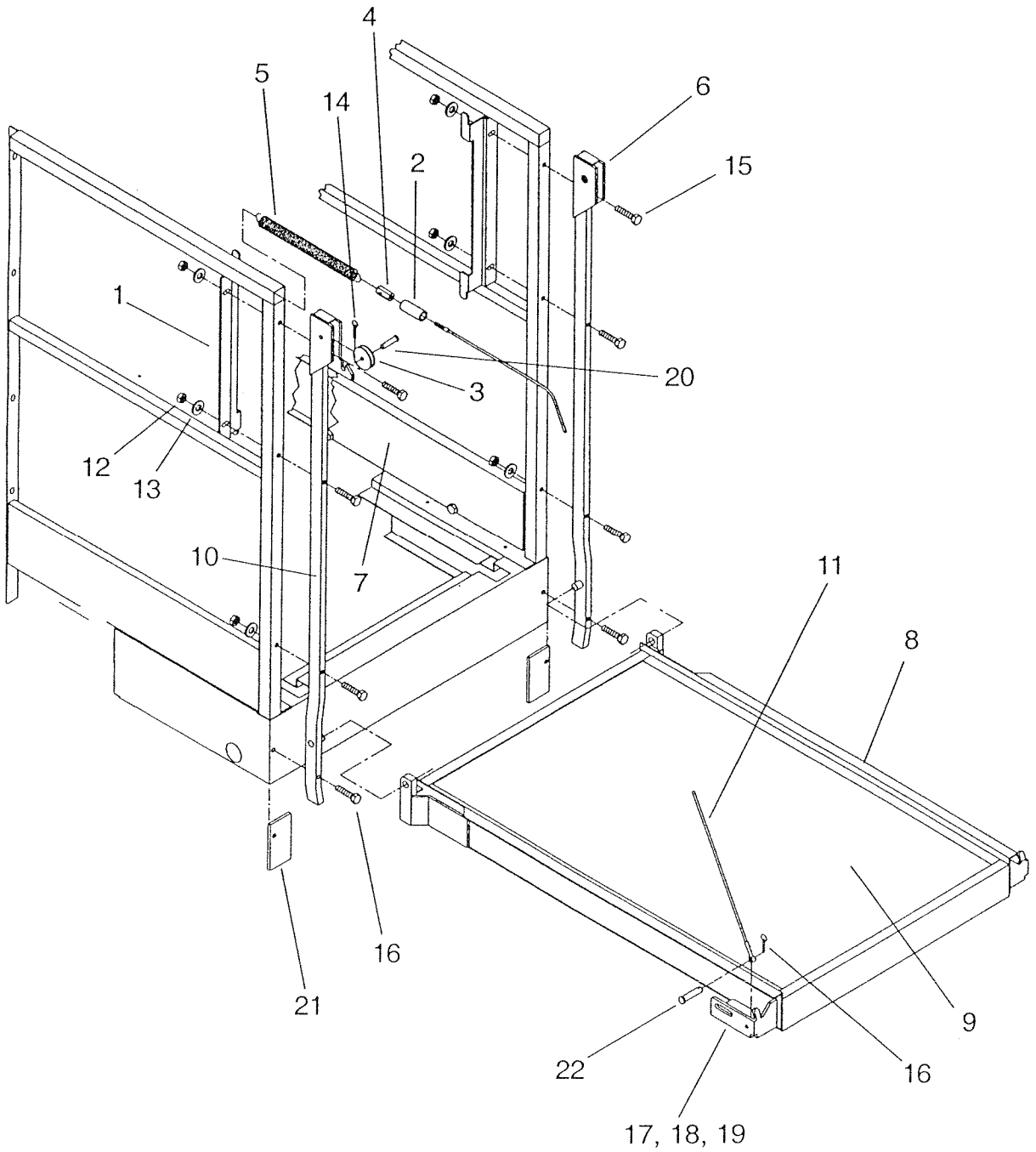


FIG. 4-2 58" Railing Assembly

ART 914 R0
BM21309
11/1/99

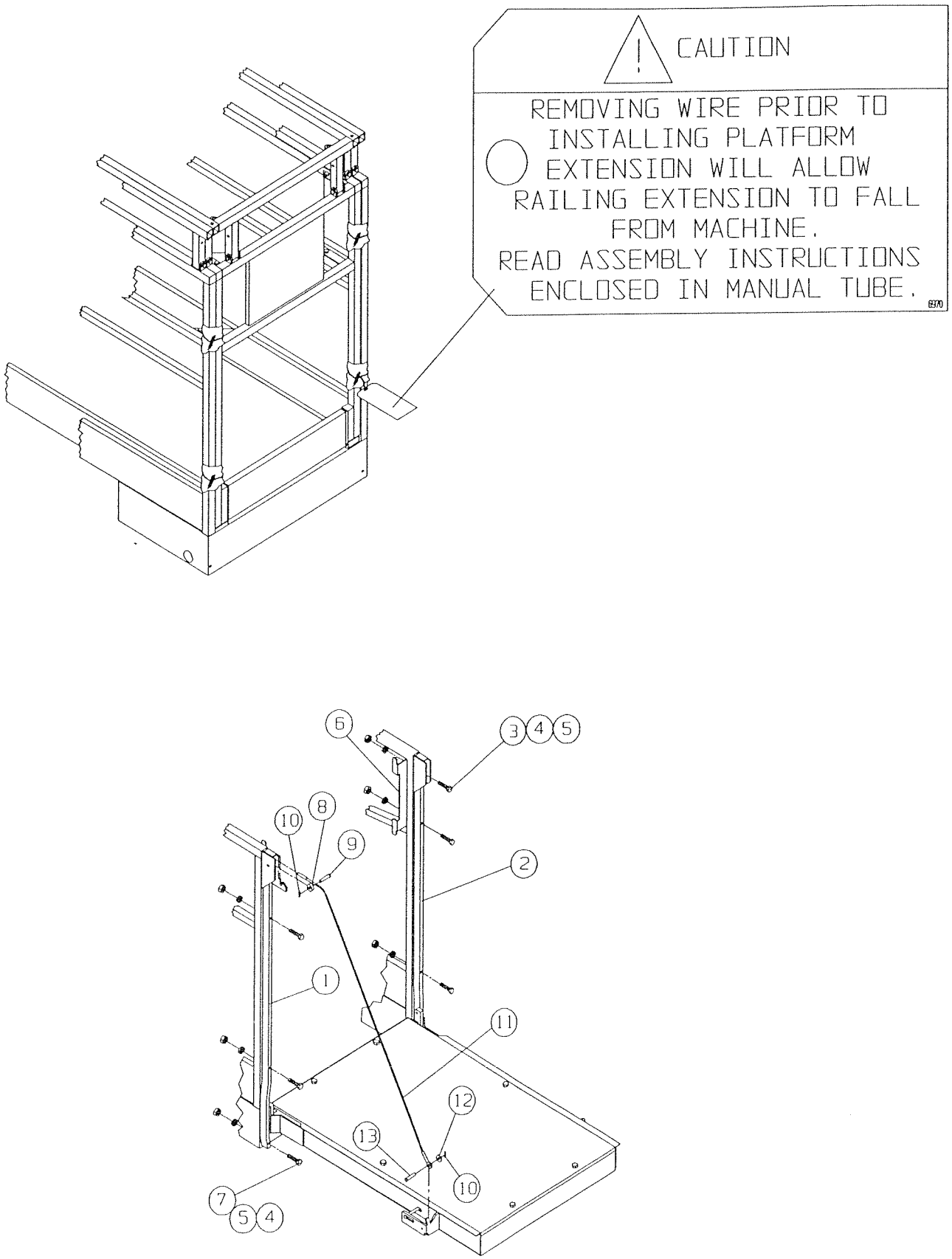
ITEM	PART NO.	QTY	DESCRIPTION
1	3547	1	RAIL -TOP LEFT, REAR
2	3549	1	RAIL - TOP RIGHT, REAR
3	3552	1	RAIL - TOP
4	3696	1	RAIL - RIGHT SIDE, FRONT
5	3697	1	RAIL - LEFT SIDE, FRONT
6	3700	1	RAIL - RIGHT SIDE, REAR
7	3701	1	RAIL - LEFT SIDE, REAR
8	3702	1	RAIL - TOP LEFT, FRONT
9	3703	1	RAIL - TOP RIGHT, FRONT
10	3626K2	1	GATE, 58" REQUIRES 1 - 4802 SPRING KIT
11	6434	14	SCREW, 3/8" - 16, 2" LONG
12	5355	28	WASHER, FLAT
13	5039	14	NUT, 3/8" -16
14	.7119	10	SCREW, 5/16" - 18, 2 1/4" LONG
15	7120	12	NUT, 5/16" - 18
16	7123	2	SCREW, 5/16" - 18, 1 3/4" LONG
	8909	1	ENCLOSURE, LITERATURE (NOT SHOWN)
	HDW6455	4	SCREW, 1/4" - 20, 1/2" LONG (NOT SHOWN)
	HDW8294	4	WASHER, FLAT (NOT SHOWN)
	HDW6461	4	NUT, 1/4" - 20 (NOT SHOWN)



ART 914 R0
BM21309
11/1/99

FIG. 4-3 Fold Down Extension Deck

ITEM	PART NO.	QTY	DESCRIPTION
1	3344	2	BRACKET, STOP
2	3343	1	BLOCK, ATTACHING CABLE
3	2747	2	PULLEY
4	3366	1	PIN, SPRING CONNECTING
5	6781	1	SPRING, RETRACTING
6	3316	1	BRACKET & BAR WELDMENT, LEFT PULLEY
7	3346	1	PANEL, INNER KICK
8	3311	1	EXTENDING PLATFORM WELDMENT
9	6779	1	FLOORBOARD, PLATFORM 58"
10	3317	1	BRACKET & BAR WELDMENT, RIGHT PULLEY
11	6821	1	CABLE ASSEMBLY
12	HDW5039	6	NUT, 3/8" - 16
13	HDW5355	4	WASHER
14	HDW5920	6	COTTER PIN
15	HDW6777	6	SCREW, 7/8" - 16, 3 1/4" LONG
16	HDW6434	2	SCREW, 3/8" - 16, 2" LONG
17	HDW6431	1	WASHER
18	HDW6962	1	PIN, CLEVIS, 5/16" X 3 1/2"
19	3597	1	SPACER
20	HDW6450	1	PIN, CLEVIS
21	3971	2	PLATE



ART 485 R2
BM10643
7/7/97

FIG. 4-4 Fold Down Extension Deck Assembly Instructions

ITEM	QTY	PART NO. 58"	DESCRIPTION
1	1	3521	BAR, PULLEY BRACKET, RIGHT
2	1	3522	BAR, PULLEY BRACKET, LEFT
3	6	6777	SCREW, 3/8" - 16, 3 1/4" LONG
4	8	5355	WASHER, FLAT
5	8	5039	NUT, 3/8" - 16
6	2	3517	STOP BRACKET
7	2	6434	SCREW, 3/8" - 16, 2" LONG
8	2	2747	PULLEY
9	2	6450	PIN, CLEVIS
10	2	5920	PIN, COTTER
11	2	3833	CABLE ASSEMBLY
12	2	5217	WASHER, FLAT
13	2	7163	PIN, CLEVIS

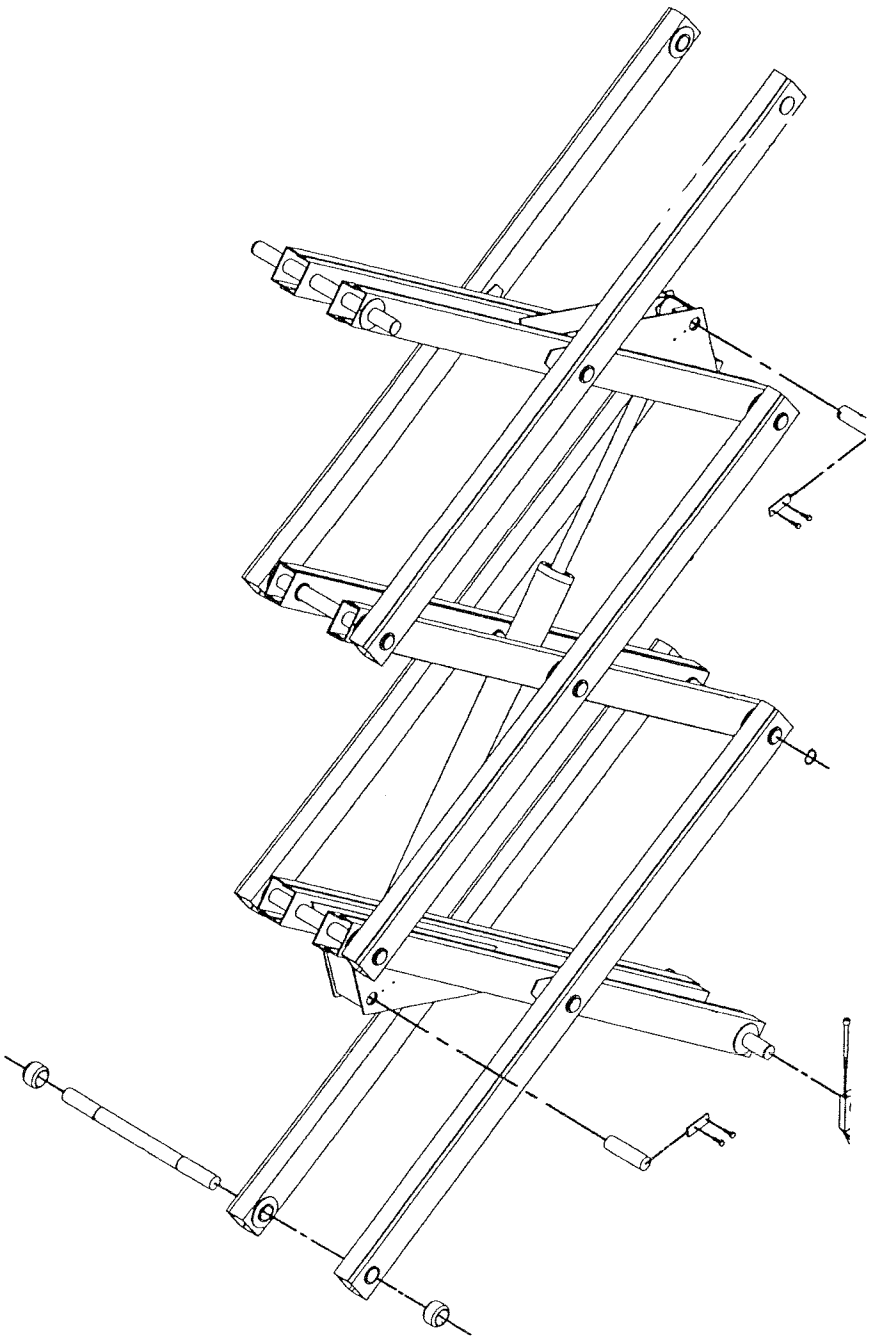
EXTENDING PLATFORM ASSEMBLY INSTRUCTIONS

INITIAL UPON COMPLETION	
	ATTACH PULLEY BRACKET BARS, ITEMS 1 & 2, AND STOP BRACKETS, ITEM 6, WITH HARDWARE, ITEMS 3, 4, & 5.
	GREASE ROLLERS ON PULLEY BRACKET BARS & SLIDE PLATFORM INTO PLACE.
	ATTACH BOTTOM BOLTS, ITEMS 7, 4, & 5, TO PULLEY BRACKET BARS.
	PULL DOWN CABLE, HOLDING IT SECURELY TO PREVENT IT FROM SNAPPING BACK.
	MOUNT PULLEY, ITEM 8, WITH ITEMS 9 & 10.
	ATTACH CABLE, ITEM 11, TO PLATFORM WITH ITEMS, 10, 12, & 13.
	TIGHTEN STOP BRACKET AND ALL BOLTS CONNECTING PULLEY BRACKET BARS.
	LIFT PLATFORM INTO UPRIGHT POSITION. PLATFORM SHOULD FALL INTO PLACE SMOOTHLY AND EASILY.
	CHECK THAT PLATFORM RAILS EXTEND FULLY OVER PLATFORM AND THAT RAIL LOCKS.
	TIRE INSTALLATION: LUG NUTS TO BE TORQUED TO 75 - 85 FT. LBS. AND CHECKED WEEKLY.

CUSTOMER: PLEASE COPY & RETAIN FOR YOUR RECORDS.

NOTES:

HITE-MASTER
2558DF
Scissors & Lift Mech.



NOTES:

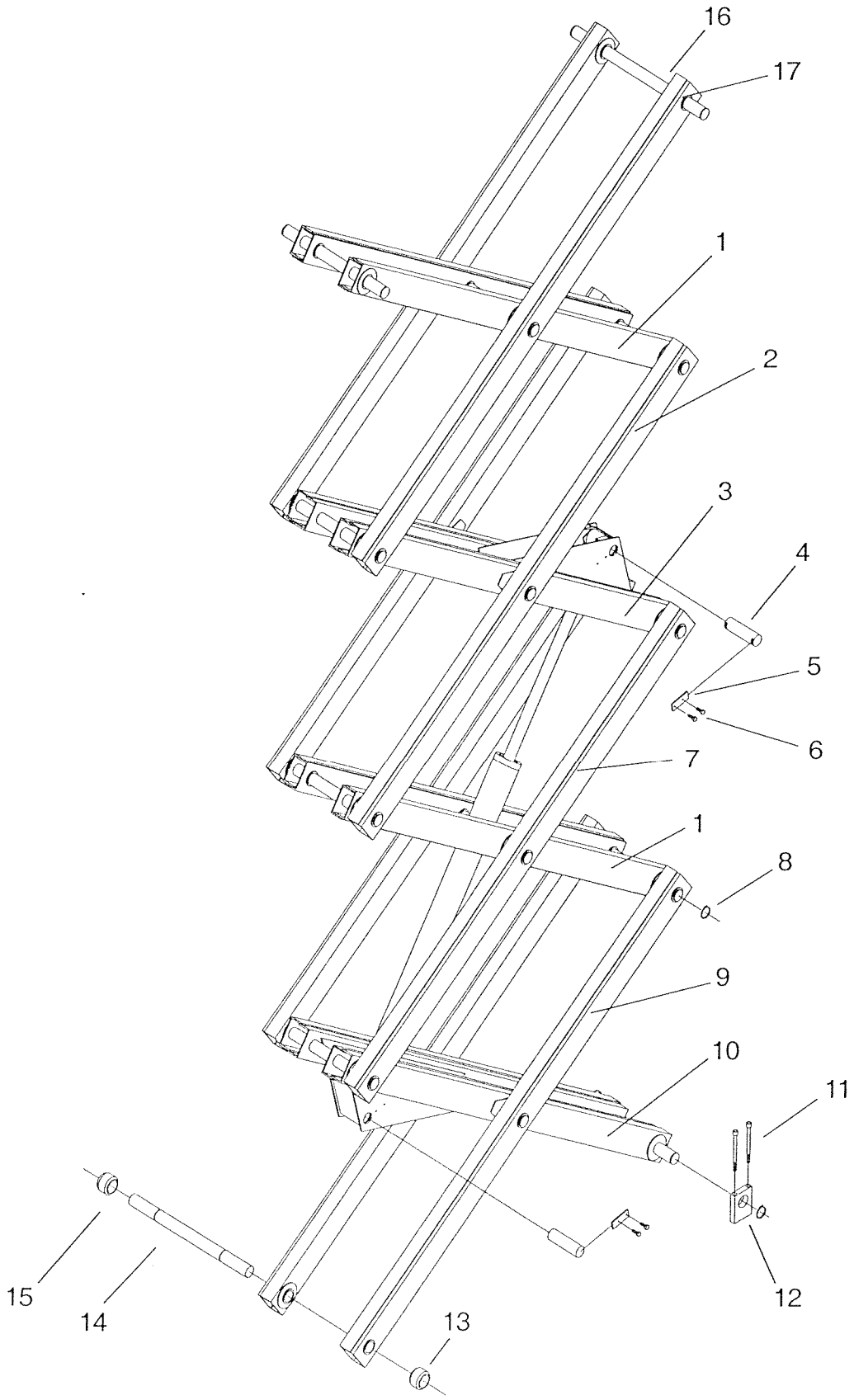
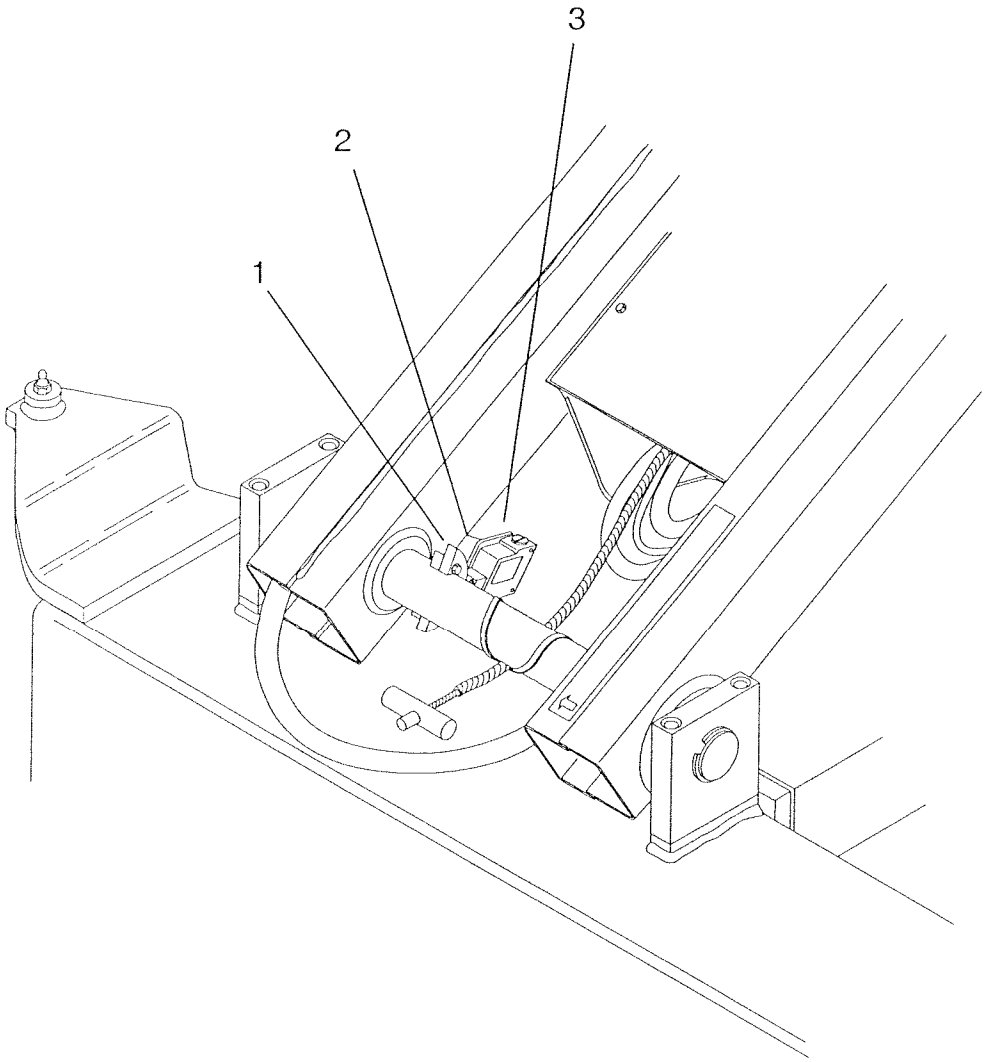


FIG. 5-1 Scissor Assembly

ART 275 R2
BM4995
12/26/97

ITEM	PART NO.	QTY	DESCRIPTION
1	3007	2	BEAM, INNER
2	3049	2	BEAM, NARROW
3	3000	1	CYLINDER MOUNT, UPPER, INNER BEAM
4	8341	2	PIN, CYLINDER RETAINING
5	3150	4	BAR, RETAINING, CYLINDER PIN
6	HDW5723	8	SCREW, 1/4" - 20, 3/4" LONG
7	3050	2	BEAM, NARROW
8	6701	22	RING, RETAINING, 2" SHAFT
9	3018	4	BEAM, NARROW
10	4396	1	CYLINDER MOUNT, LOWER, INNER BEAM
11	HDW6663	4	SCREW, 1/2" - 13, 5 1/2" LONG
12	3075	2	BLOCK, PIVOT
13	3110	2	ROLLER, BASE
14	8342	1	PIN, BASE, ROLLER
15	6688	2	KLIP RING - 2" SHAFT
16	3209	1	TRAY
17	3210	1	COVER, HOSE



ART 916 R0
BM21477
11/18/99

FIG. 5-2 Limit Switch Assembly

ITEM	PART NO.	QTY	DESCRIPTION
1	20982	1	CAM, SLOW SPEED
2	4388	1	BRACKET, LIMIT SWITCH
3	8932	1	SWITCH, LIMIT, TWO POLE

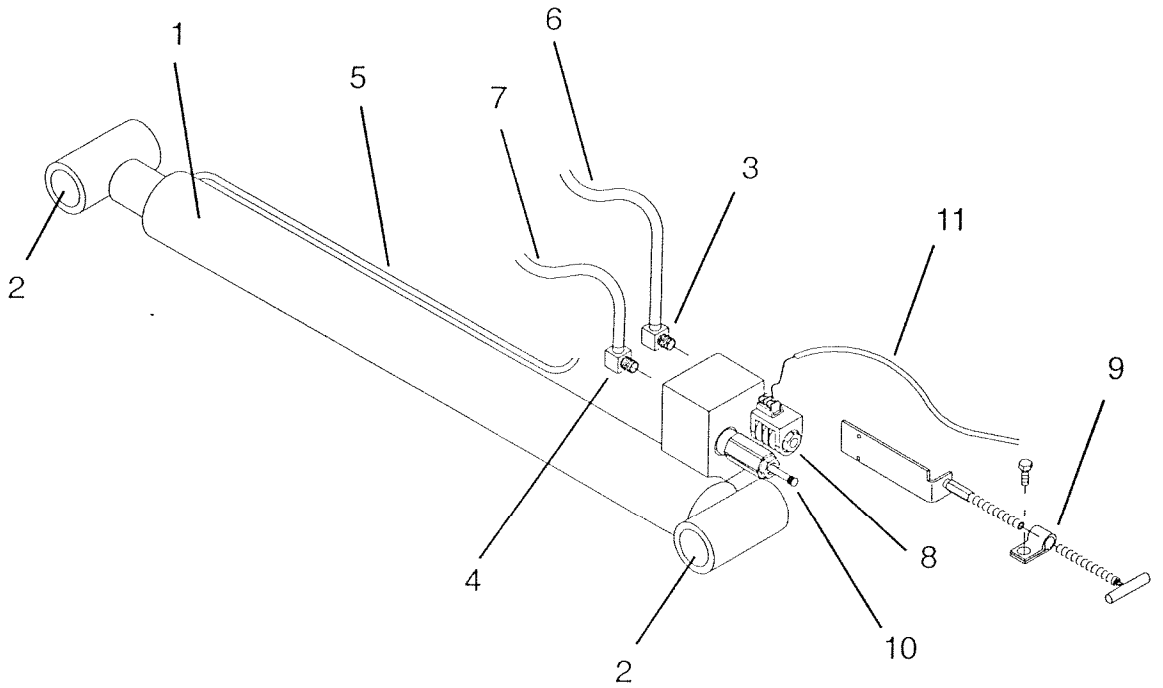
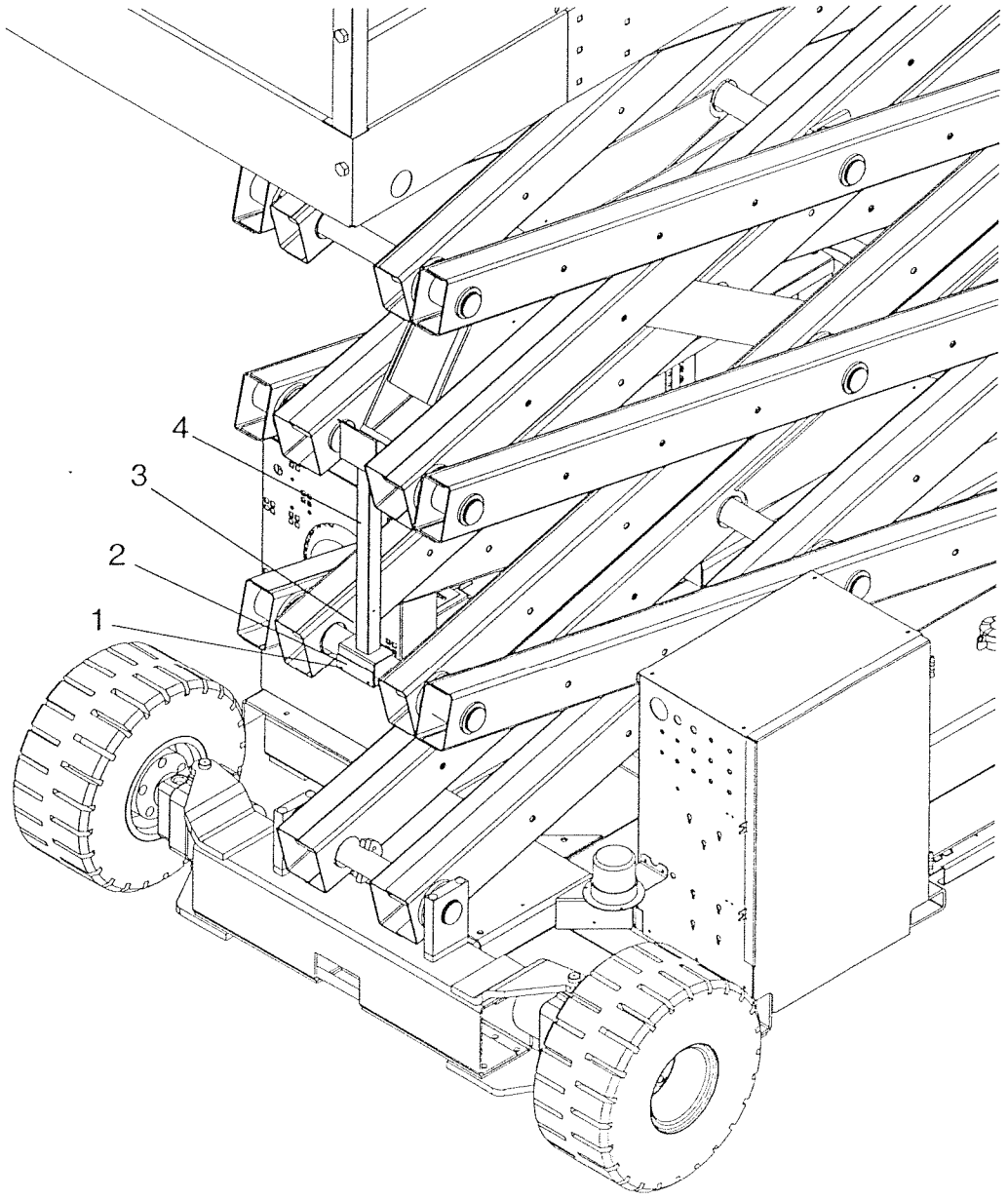


FIG. 5-3 Lift Cylinder Assembly

ART 647 R1
BM14035
12/04/97

ITEM	PART NO.	QTY	DESCRIPTION
1	3488	1	CYLINDER, LIFT, 3 1/2" X 50"
	7216	1	CYLINDER, NON-DOMESTIC
	6790	1	SEAL KIT, CYLINDER
2	6669	4	BEARINGS, - 32DU32
3	HDW5472	1	FITTING, ELBOW 90°, MALE 3/8", FEMALE 3/8"
4	HDW6727	1	FITTING, ELBOW 90°, MALE 5/16" HOSE BARB, MALE 1/4"
5	6458	1	HOSE, VENT
6	6720	1	HOSE, LIFT
7	6458	1	HOSE, RETURN LINE
8	6973	1	VALVE, 2 WAY N.C.
	6870	1	COIL, 12VDC
9	3251	1	TUBE ASSEMBLY, EMERGENCY DOWN
	2170	1	HANDLE, PULL
	2171	1	CONNECTOR, EMERGENCY DOWN
	3262	1	BRACKET, EMERGENCY DOWN
	4056	1	STOP, SLEEVE
	6691	1	TUBE, EMERGENCY DOWN
	6800	1	CABLE, EMERGENCY DOWN
10	5435	1	VALVE, MANUAL PULL
	5475	1	O-RING KIT
11	6787	1	WIRE HARNESS

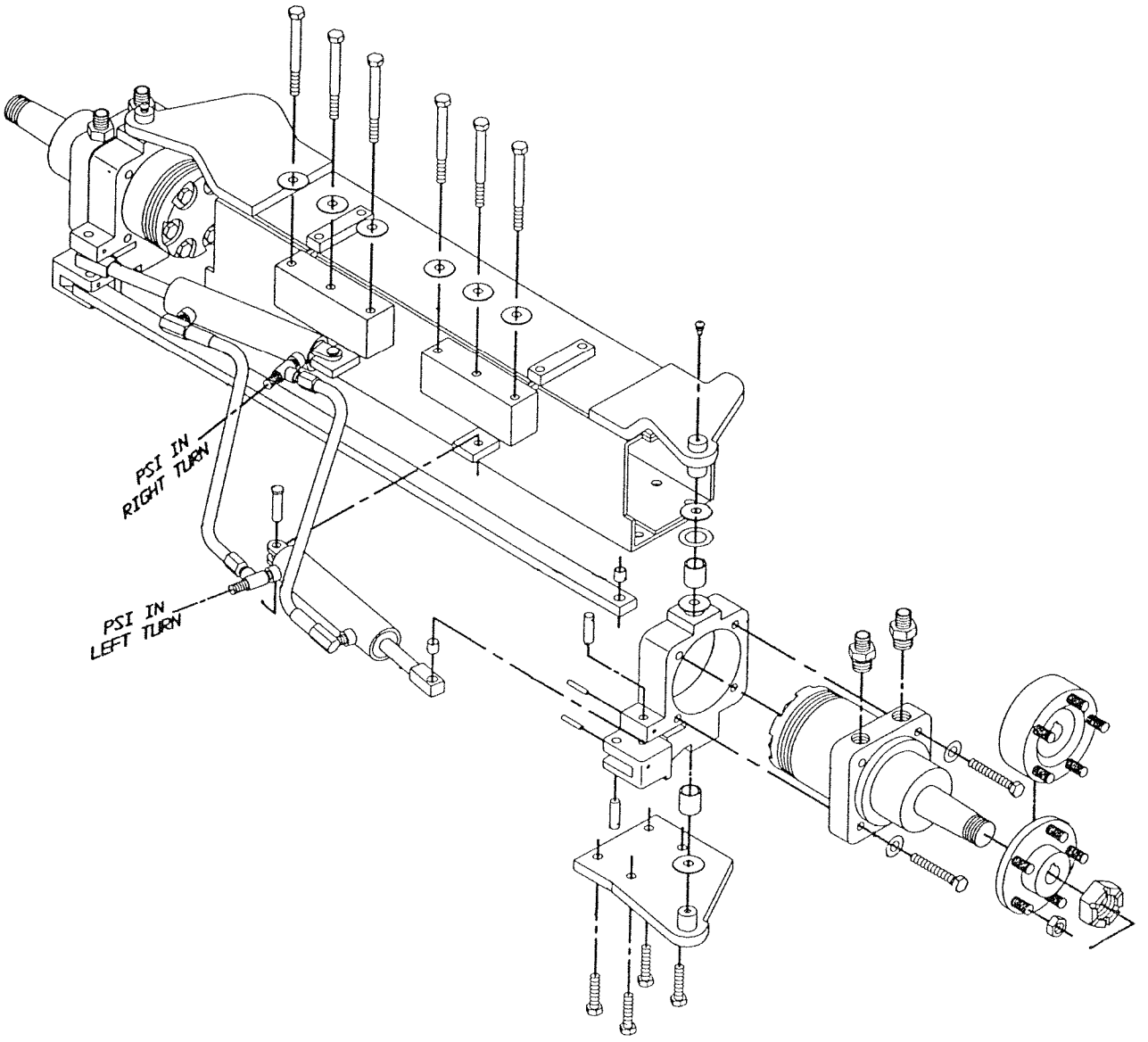


ART 917 R0
BM21478
11/18/99

FIG. 5-4 Maintenance Lock Assembly

ITEM	PART NO.	QTY	DESCRIPTION
1	HDW6455	8	SCREW, 1/4" - 20, 1/2" LONG
2	3219	2	BRACKET, LOWER MAINTENANCE LOCK
3	3646	1	CABLE, FRONT MAINTENANCE LOCK ASSEMBLY
	3647	1	CABLE, REAR MAINTENANCE LOCK ASSEMBLY
4	3221	2	MAINTENANCE LOCK WELDMENT
	3218	2	BAR, MAINTENANCE LOCK (NOT SHOWN)

HITE-MASTER
2558DF
AXLE ASSEMBLIES



NOTES:

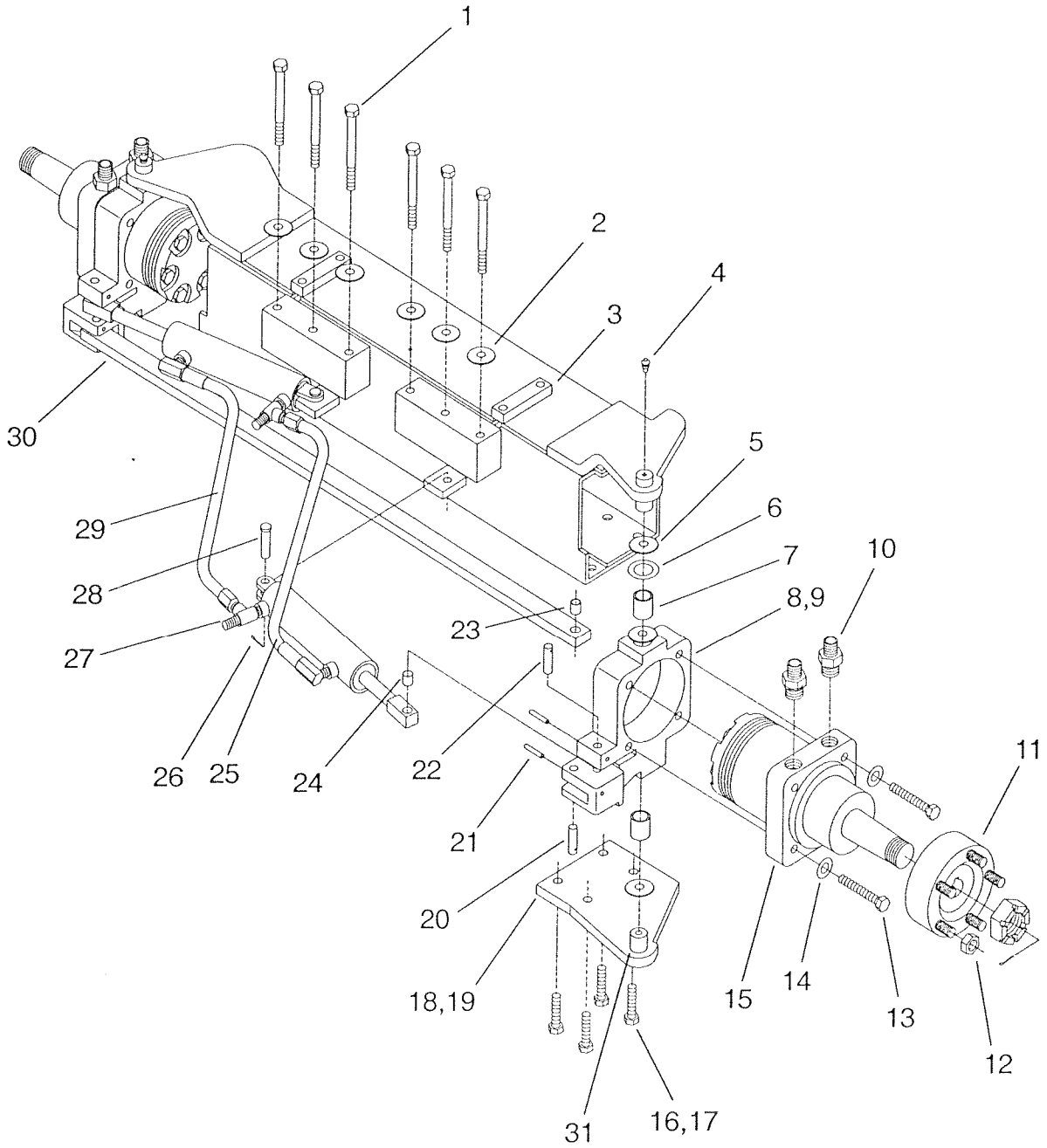
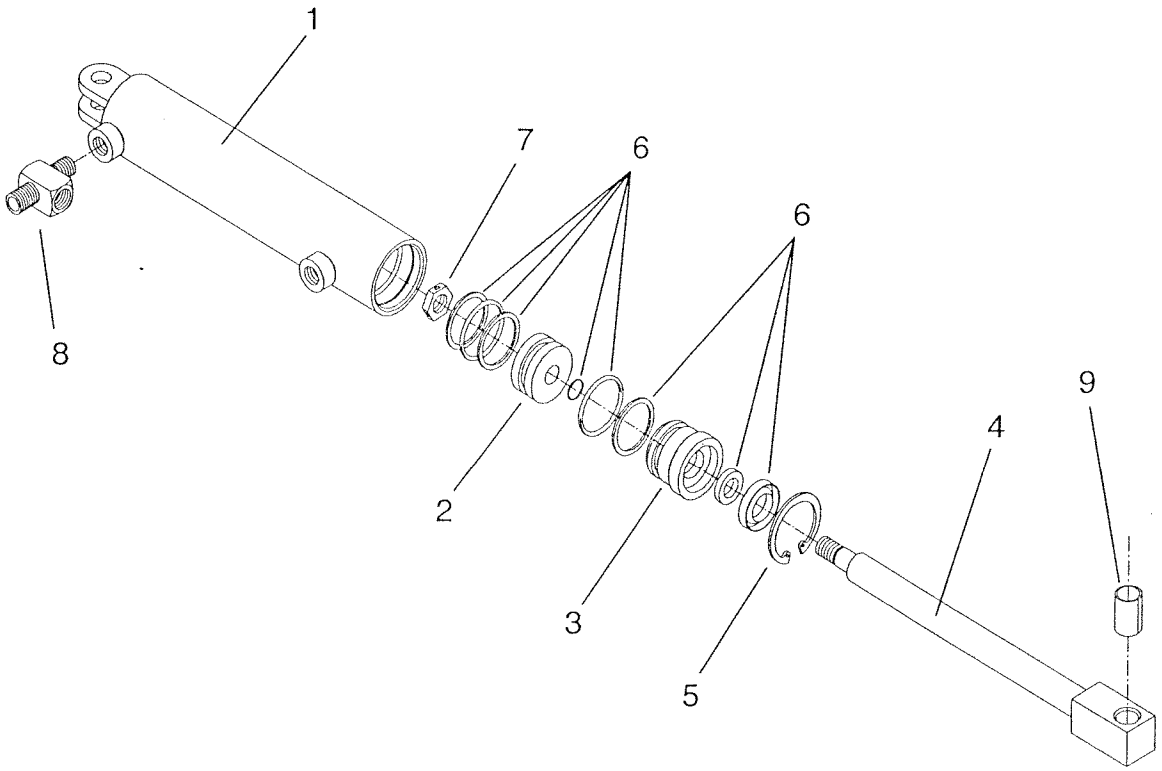


FIG. 6-1 Front Axle Assembly

ART 624 R2
BM13844
6/4/98

ITEM	PART NO.	QTY	DESCRIPTION
1	7990	12	SCREW, 1/2" - 13, 1 1/4"
2	HDW5012	12	WASHER, SPLIT
3	3141	1	AXLE WELDMENT, FRONT
4	5432	4	FITTING, GREASE
5	HDW4332	6	WASHER, NYLON
6	HDW3080	2	WASHER, FLAT
7	6543	4	BEARING, 16DU16
8	3073F	1	BRACKET, MOTOR, RIGHT
9	3074F	1	BRACKET, MOTOR, LEFT
10	HDW6725	4	FITTING, ADAPTOR, MALE 1/2", MALE 5/8", O-RING
11	3356	2	HUB, FRONT, FLOTATION TIRE
12	HDW6677	5	NUT, LUG, 1/2" - 20
13	HDW6435	8	SCREW, 1/2" - 13, 2 1/2" LONG
14	HDW5012	8	WASHER, SPLIT LOCK
15	6660P	2	WHEEL MOTOR, HEAVY, PAINTED
16	HDW5215	8	SCREW, 1/2" - 13, 1 3/4" LONG
17	HDW8457	8	NUT, 1/2" - 13
18	3143	1	PIVOT PLATE WELDMENT, LOWER, RIGHT
19	3144	1	PIVOT PLATE WELDMENT, LOWER, LEFT
20	3184	2	PIN, TIE ROD, PIVOT PLATE
21	HDW6416	4	PIN, SLOTTED SPRING, 2 1/4" LONG
22	3185	2	PIN, STEERING PIVOT
23	6700	2	BEARING, 8DU10
24	7019	2	BEARING, 8DU12
25	3722	2	CYLINDER ASSEMBLY, STEERING
26	HDW5920	2	PIN, COTTER, 1/8" X 1" LONG
27	6655	2	TEE, STREET, 1/4"
28	HDW5710	2	PIN, CLEVIS, 1/2" X 1 1/4" LONG
29	6716	2	HOSE ASSEMBLY, CROSSOVER, STEERING CYLINDER
30	3176	1	ARM, STEERING, LONG
31	3081	SERV	PIN, PIVOT



ART 166 R2
BM11182
7/7/97

FIG. 6-2 Steering Cylinder Assembly

ITEM	PART NO.	QTY	DESCRIPTION
3722 - STEERING CYLINDER ASSEMBLY			
1	3719	1	CYLINDER, STEERING
2	2494	1	PISTON
3	2493	1	HEAD
4	2837	1	ROD WITH BEARING, STEERING CYLINDER
5	6337	1	RING, RETAINING, INTERNAL
6	5947	1	SEAL KIT
7	HDW6338	1	NUT, LOCK, 1/2" - 20
8	HDW5106	1	FITTING, 90° ELBOW, MALE 1/4", FEMALE 1/4"
9	7019	1	BEARING, 8DU12

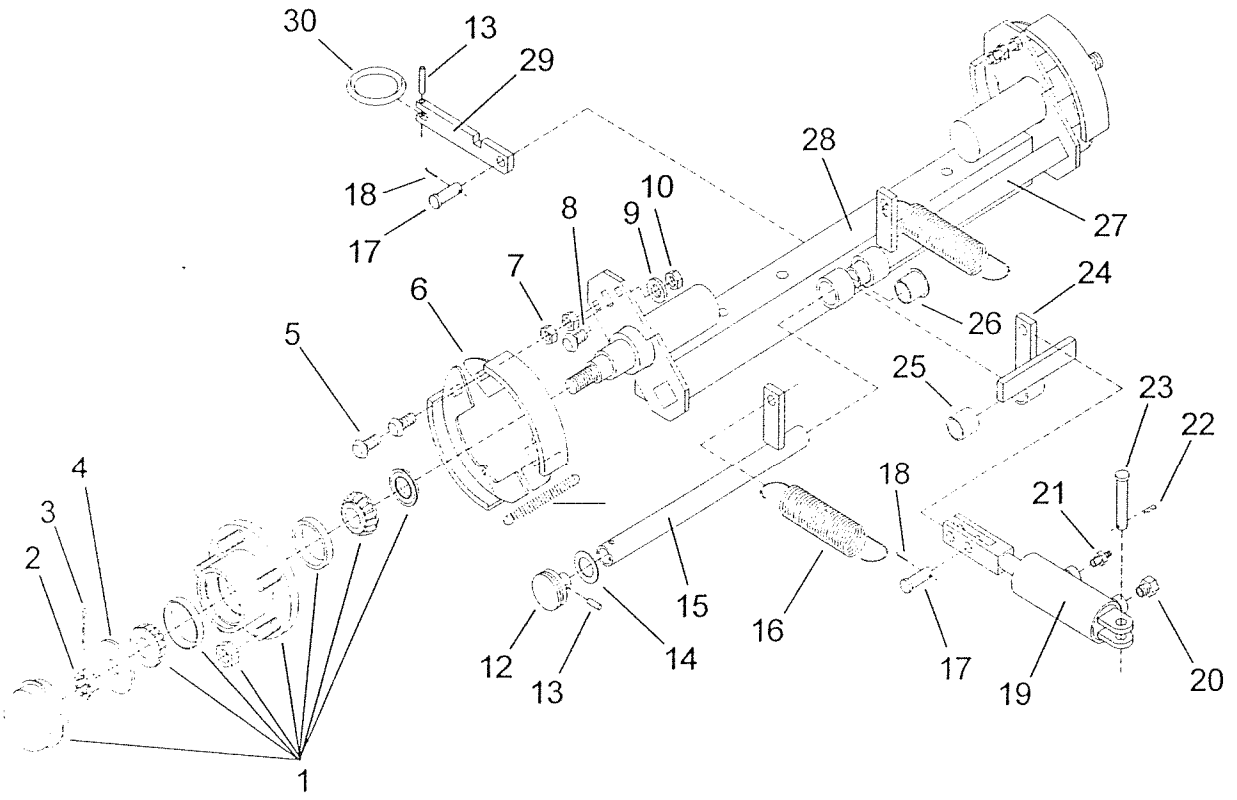
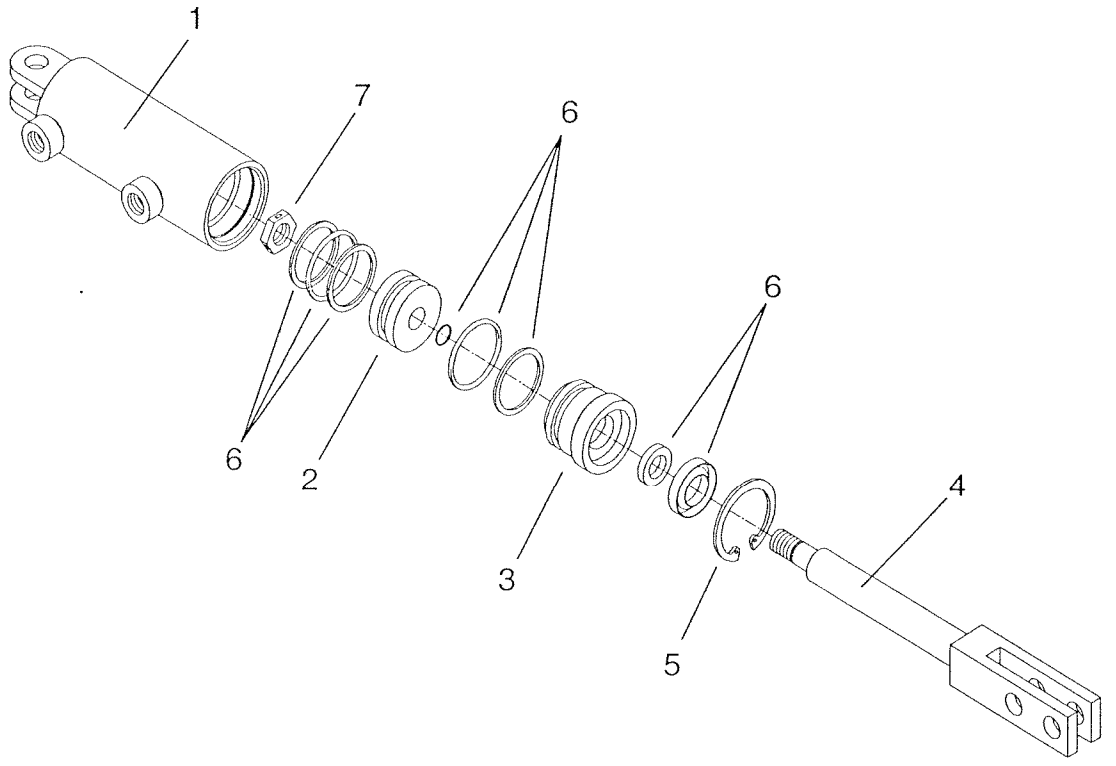


FIG. 6-4 Rear Axle Assembly

ART 756 R0
BM16541
5/14/99

ITEM	PART NO.	QTY	DESCRIPTION
1	3884	2	HUB ASSEMBLY
2	HDW5737	2	NUT, CASTLE
3	HDW5787	2	COTTER PIN, 1/8" X 1 1/2" LONG
4	HDW3799	2	WASHER, THRUST, OUTER
5	HDW6750	4	SCREW, 3/8" - 16, 3/4" LONG
6	3102	4	BRAKE PAD WELDMENT
7	HDW6281	4	NUT, 3/8" - 16
8	3104	2	PIN, BRAKE ADJUSTMENT
9	HDW5216	2	WASHER, 1/2"
10	HDW8457	2	NUT, 1/2 - 13
11	7952	2	SPRING, BRAKE RELEASE
12	3114	2	CAM, BRAKE ACTUATING
13	HDW6729	3	PIN, EXPANSION
14	HDW5901	2	WASHER, THRUST, CAM
15	3097	1	ROD, BRAKE, RIGHT
16	5941	2	SPRING, BRAKE
17	HDW5710	2	PIN, CLEVIS, 1/2" - 1 1/4"
18	HDW5920	1	PIN, COTTER, 1/8" X 1"
19	2483	1	BRAKE CYLINDER ASSEMBLY
20	HDW7044	1	FITTING, UNION, MALE 1/4", FEMALE 1/4"
21	HDW6727	1	FITTING, ELBOW 90°, MALE 5/16" HOSEBARB, MALE 1/4"
22	HDW6808	1	HAIRPIN, 3/8" SHAFT
23	HDW5921	1	PIN, CLEVIS, 1/2" X 1 1/2"
24	3103	1	ACTUATOR, BRAKE
25	3648	1	BEARING, ACTUATOR
26	5866	2	BEARIING, BRAKE ROD, 1" X 1 1/8"
27	3142	1	ROD, BRAKE, LEFT
28	4363	1	AXLE WELDMENT, REAR
29	3216	1	LATCH, BRAKE RELEASE
30	6733	1	RING

ITEM 9 - HDW5216, ROUNDED EDGE OF WASHER MUST FACE TOWARD AXLE BRAKE. THE FLAT EDGE FACES TOWARDS THE NUT.

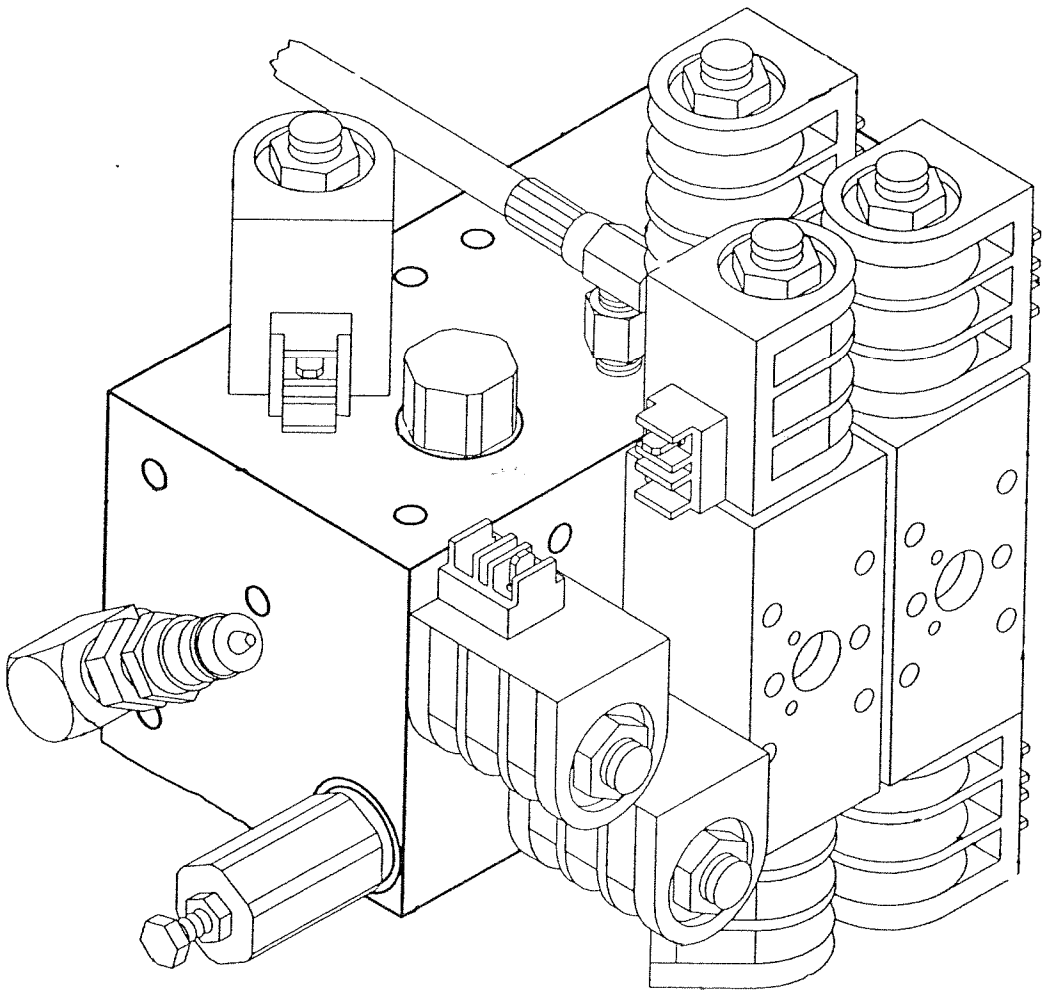


ART 164 R3
BM5043
7/7/97

FIG. 6-5 Brake Cylinder Assembly

ITEM	PART NO.	QTY	DESCRIPTION
2483 - BRAKE CYLINDER ASSEMBLY			
1	2485	1	CYLINDER, BRAKE
2	2494	1	PISTON
3	2493	1	HEAD
4	2504	1	ROD, WITH BEARING, BRAKE CYLINDER
5	6337	1	RING, RETAINING, INTERNAL
6	5947	2	SEAL KIT
7	HDW6338	1	NUT, LOCK, 1/2" - 20

HITE-MASTER
2558DF
HYDRAULICS



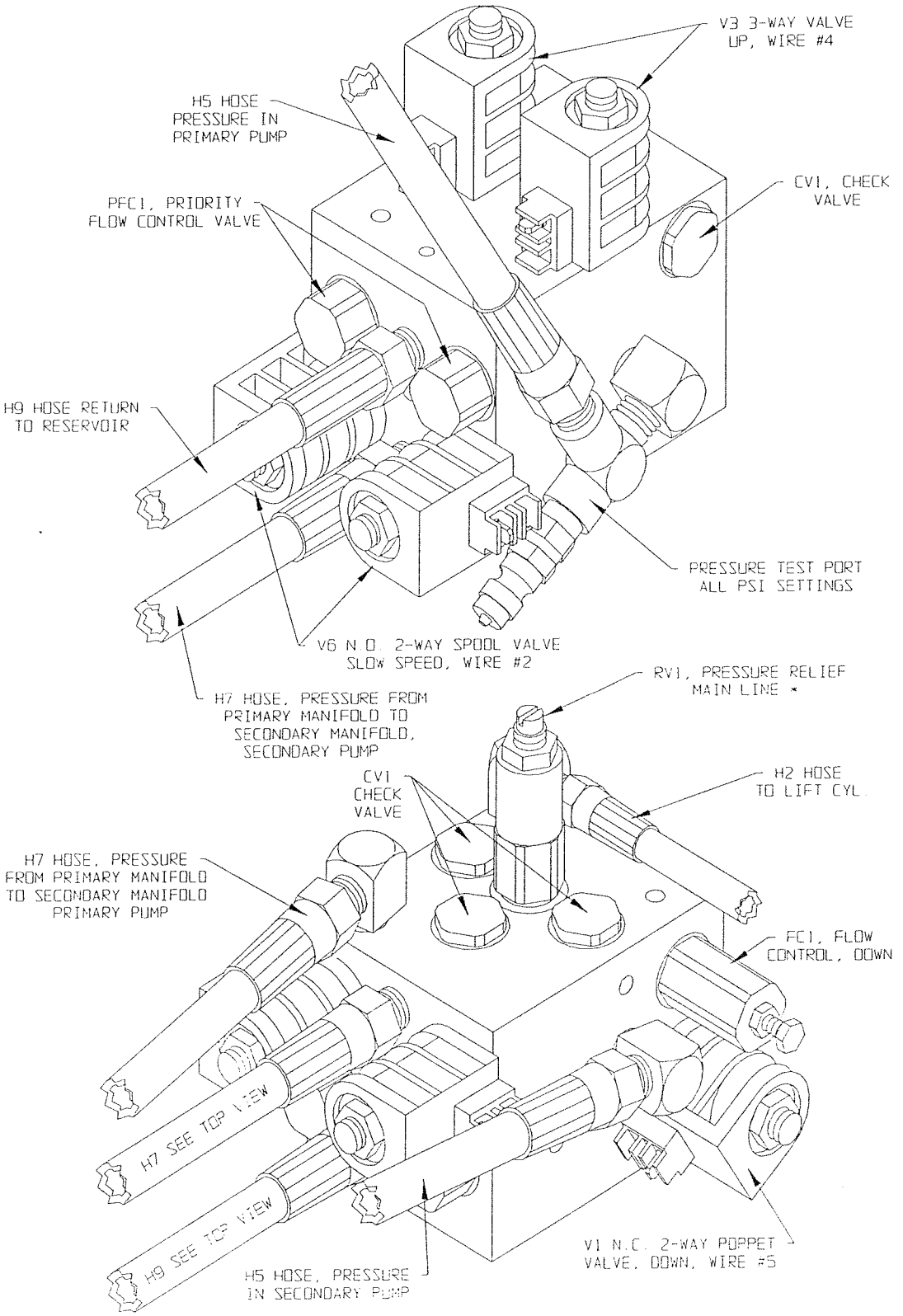


FIG. 7-1 Primary Manifold Assembly #3906

ART 181 RO

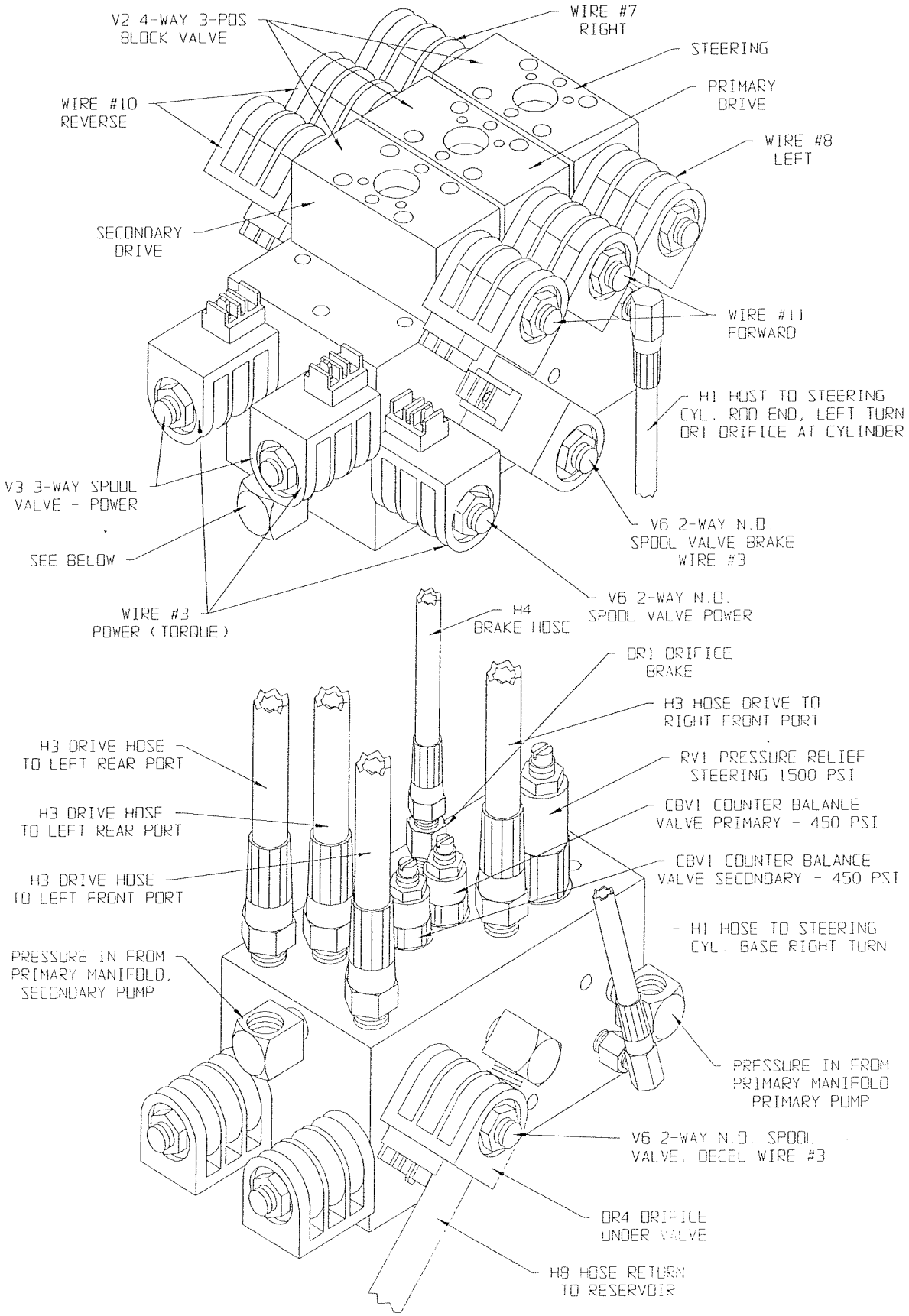


FIG. 7-2 Secondary Manifold Assembly #3907

ART 182 RO

SYMBOL IDENTIFICATION FOR MANIFOLD
HITEMASTER DUAL FUEL SERIES

Symbol	Quantity	Part Number	Description
C1	1	3488	Lift Cylinder w/bearings
	Service	6790	Seal Kit
C2	2	2838	Steering Cylinder Assembly
	Service	2484	Cylinder Barrel Weldment
	Service	2493	Cylinder Head
	Service	2494	Piston
	Service	2837	Cylinder Rod
	Service	6338	Nut ½ - 20 Lock
	Service	6337	Internal Retaining Ring
	Service	5947	Seal Kit
C3	1	2483	Brake Cylinder Assembly
	Service	2485	Cylinder Barrel Weldment
	Service	2493	Cylinder Head
	Service	2494	Piston
	Service	2505	Cylinder Rod
	Service	6337	Internal Retaining Ring
	Service	6338	Nut ½ - 20 Lock
	Service	5947	Seal Kit
CBV1	2	6712	Counter Balance Valve
	Service	6806	O-Ring Kit
CV1	4	5434	Check Valve
	Service	5475	O-Ring Kit
F1	1	6156	Filter
FC1	1	5963	Flow Control
	Service	5475	O-Ring Kit
H1	2	6718	Steering Hose
H2	1	6720	Lift Hose
H3	4	6721	Drive Hose
H4	1	6722	Brake Hose
H5	2	6723	Hose Pump to Bypass Manifold
H7	2	5999	Hose Primary to Secondary
H8	2	6225	Hose Return to Tank
H9	1	5995	Hose
H10	2	6237	Hose Bypass to Primary Manifold
H11	4	6429	Hose Secondary to Crossover Manifold
M1	1	6853	Kohler M18 Engine
M4	2	6660P	Wheel Motor
MA1	1	3595	Primary Manifold
MA2	1	3609	Crossover Manifold
MA4	1	3480	Secondary Manifold
MA5	1	4336	Bypass Manifold
O1	1	7044	Orifice Fitting
O4	1	2975	Orifice (brass)
P1	1	6855	Pump
PFC1	2	5954	Priority Flow Control (1.0 GPM)
	Option	6189	Priority Flow Control (.5 GPM)
	Service	5476	O-Ring Kit
RV1	2	6316	Relief Valve
	Service	5475	O-Ring Kit

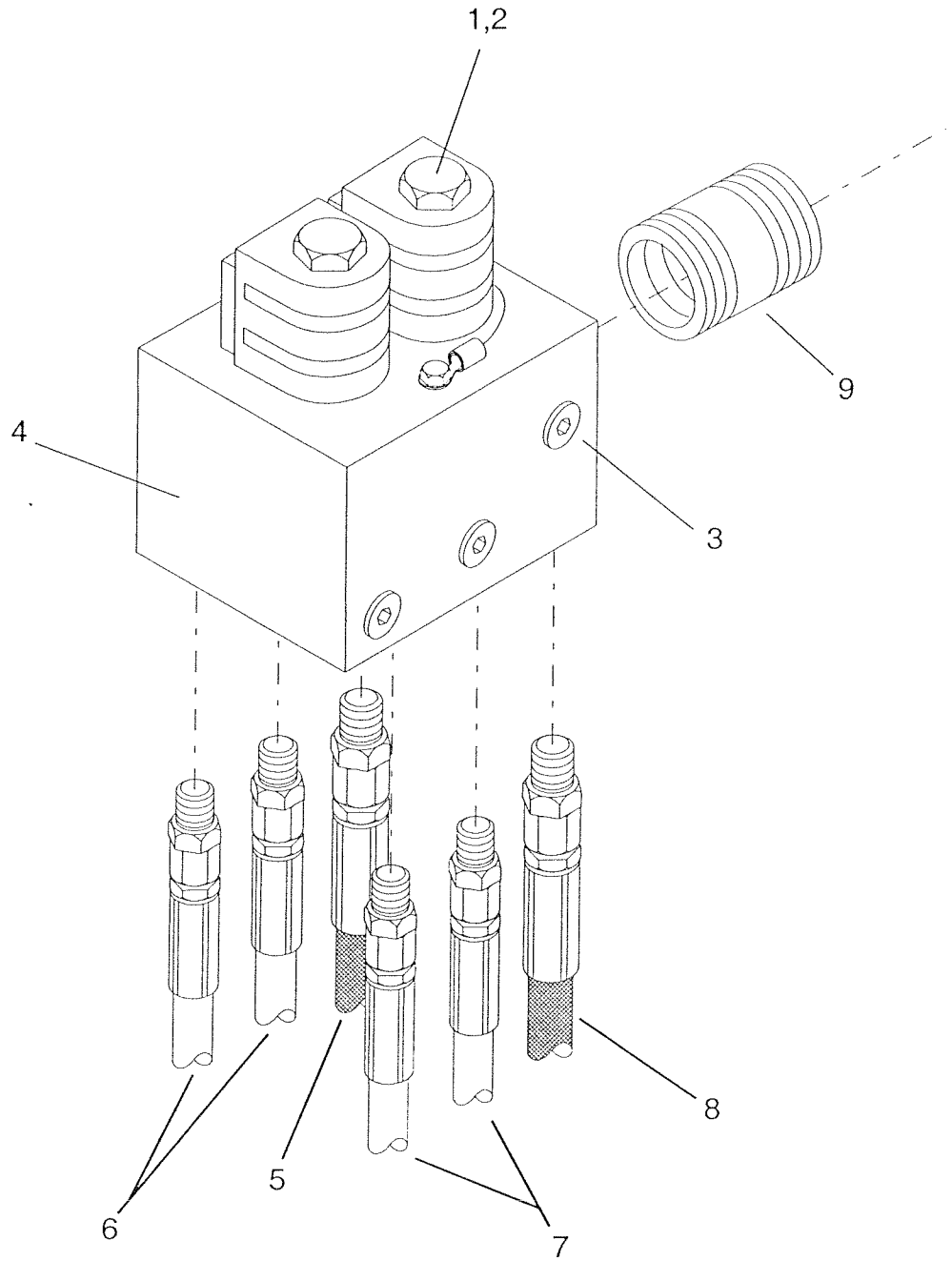
SYMBOL IDENTIFICATION FOR MANIFOLD HITEMASTER DUAL FUEL SERIES CONT'D

Symbol	Quantity	Part Number	Description
V1	2	6973	2-Way N.C. Valve
	@	6870	12v Coil
	Service	5475	O-Ring Kit
V2	3	7976	4-Way 3-Position Valve
	@	6870	12v Coil
	Service	6161	Spring & O-Ring Kit
V3	4	6976	3-Way 2-Position Valve
	@	6870	12v Coil
	Service	5476	O-Ring Kit
V5	1	5435	Manual Pull Valve
	Service	5475	O-Ring Kit
V6	5	6975	2-Way N.O. Valve
	@	6870	12v Coil
	Service	5475	O-Ring Kit
V7	2	7151	2-Way N.C. Spool Valve
	@	6870	12v Coil
	Service	5475	O-Ring Kit

@ = 17 Coils Total

** Refer To Hydraulic Schematic For Relief Valve Setting

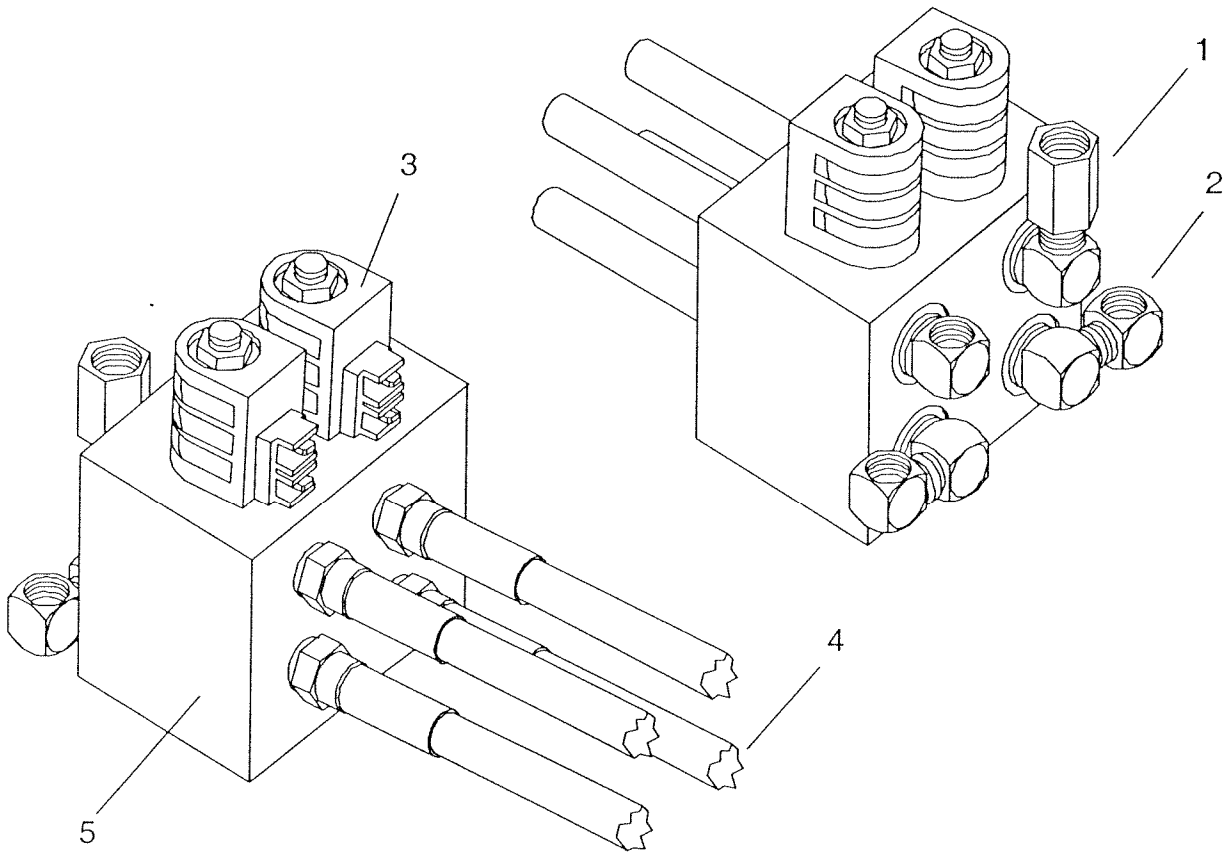
NOTES:



ART 918 R0
BM21479
11/09/99

FIG. 7-3 Bypass Manifold Assembly

ITEM	PART NO.	QTY	DESCRIPTION
3909 - BYPASS MANIFOLD ASSEMBLY			
1	6975	2	VALVE, N.O. SPOOL
2	6870	2	COIL, 12 VOLT, 1 SPADE
3	HDW7314	3	FITTING, PLUG, MALE 7/16" O-RING
4	4336	1	MANIFOLD
5	6225	1	HOSE ASSEMBLY, 1/2" X 24"
6	9916	2	HOSE - PUMP
7	6723	2	HOSE ASSEMBLY - 3/8" DIA, 68" LONG
8	5995	1	HOSE ASSEMBLY - 1/2" DIA, 15" LONG
9	6925	1	PIPE NIPPLE, 3/4" NPT X 2"



ART 37 R0
BM13952
6/27/97

FIG. 7-4 Steering Manifold For Foam Filled Tires

ITEM	PART NO.	QTY	DESCRIPTION
3908 - STEERING MANIFOLD ASSEMBLY			
1	HDW5808	1	FITTING, UNION, MALE 3/8", FEMALE 3/8"
2	HDW5472	6	FITTING, 90° ELBOW, MALE 3/8", FEMALE 3/8"
3	6870	2	COIL, 12 VOLT, 1 SPADE
	7151	2	VALVE, 2 WAY, N.C. SPOOL
4	6721	4	HOSE ASSEMBLY, DRIVE, 3/8" DIA. X 68" LONG
5	3609	1	MANIFOLD

HITE-MASTER DUAL FUEL SERIES
PART NO. 3659
CROSSOVER ADD ON KIT

1. Drill (2) 1/4" holes for mounting the manifold, use the Block for Locations (see picture).

2. Remove the drive hoses from the secondary manifold block and connect to the crossover block. Match right rear to right rear, and so on (see picture and drawing).

3. Connect hoses on crossover block to secondary manifold. Again connect right rear to the right rear and so on (see picture and drawings).

4. Hook wires to their terminals. Wire No 7 to terminal 7, No. 8 to terminal 8.

5. Test the unit for operation. Steer the unit left then right then left. The unit should move backwards about 6 or 7 inches.

6. Test drive function to be sure the hoses are properly connected.

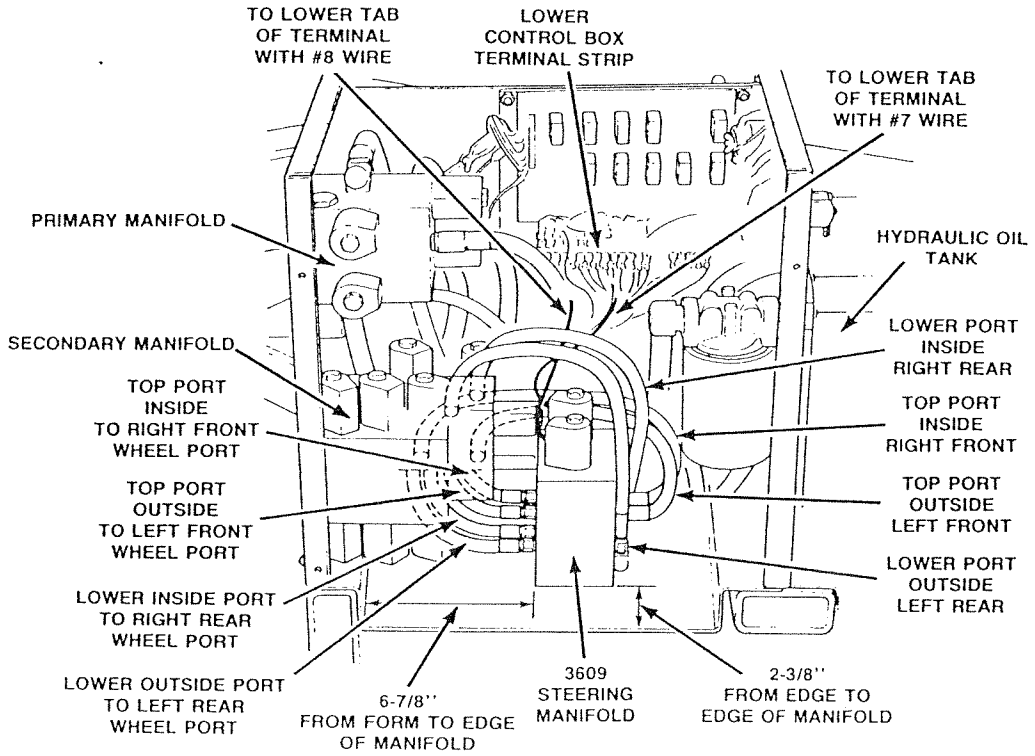
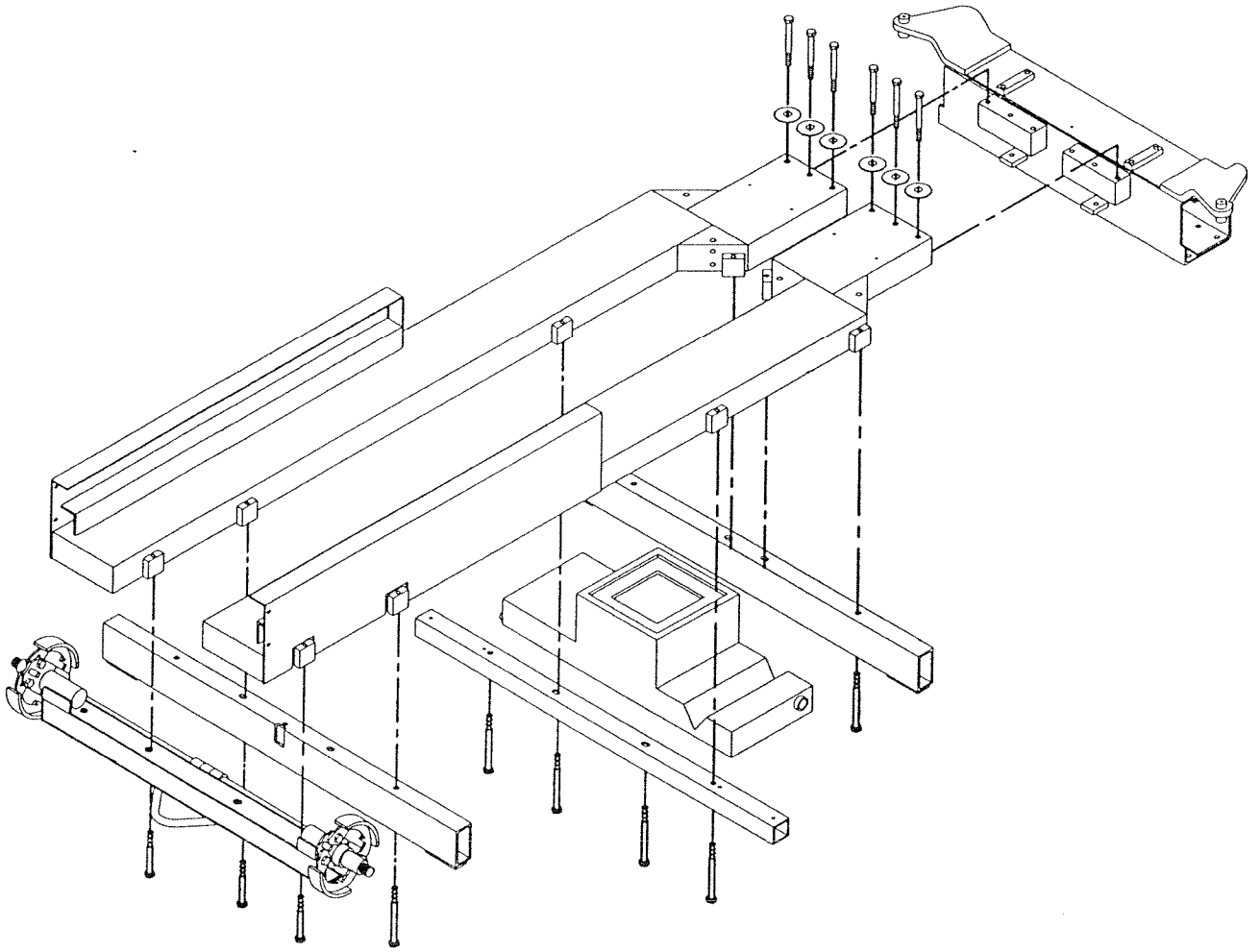
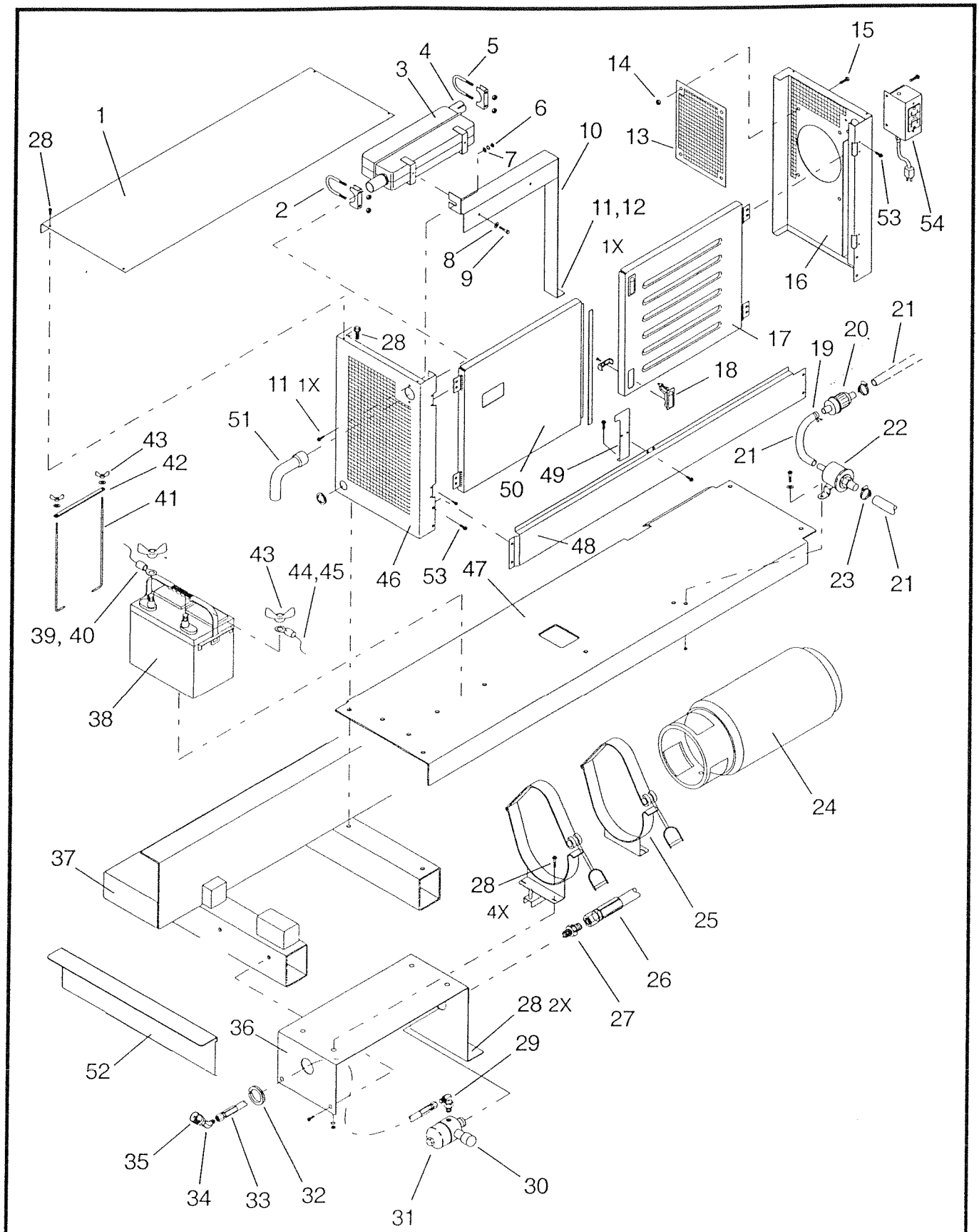


FIG. 7-8 Crossover Manifold Installation

HITE-MASTER
2558DF
BASE



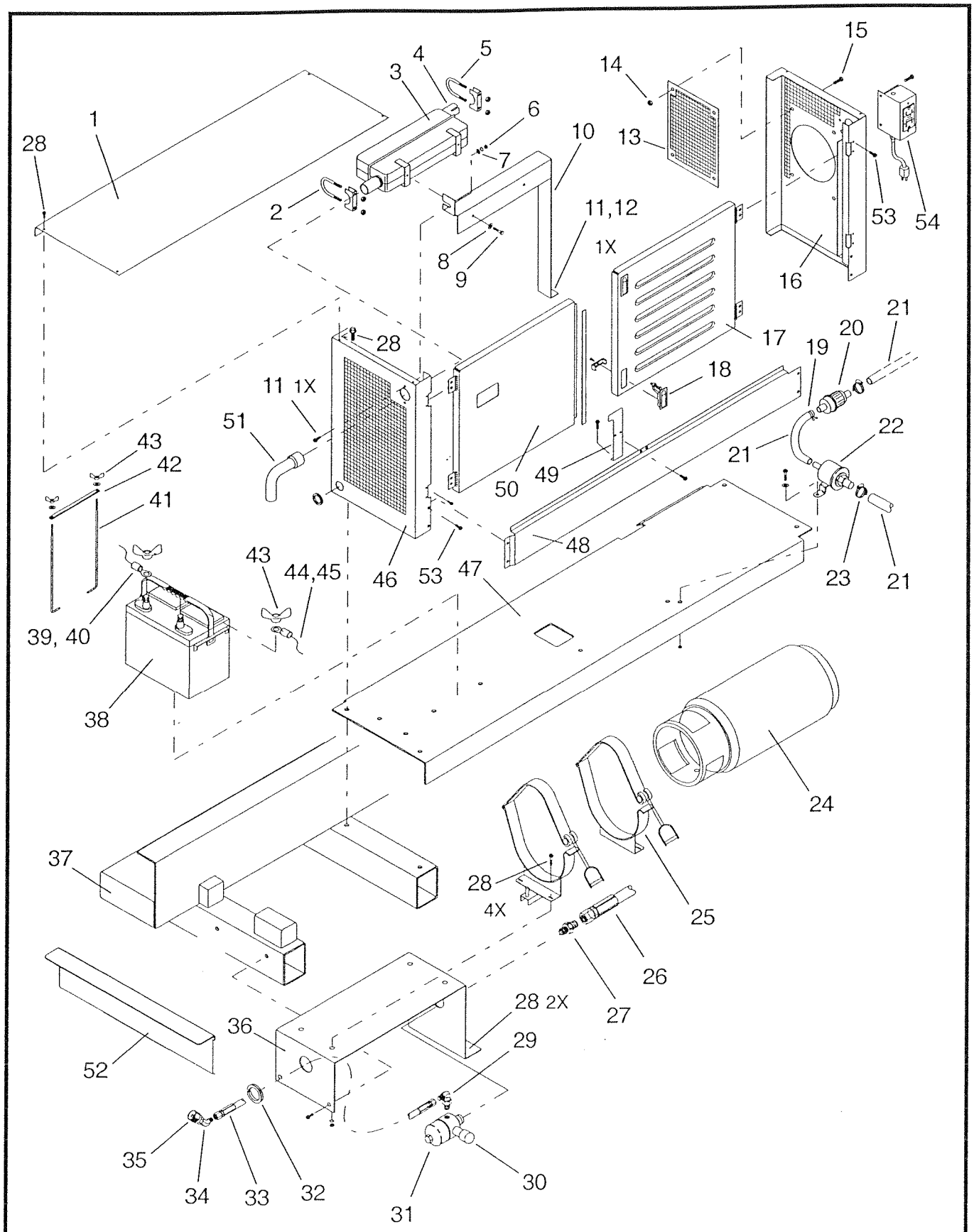
NOTES:



ART919 R0
BM21480
11/10/99

FIG. 8-1 2558DF Base Assembly - Right

ITEM	PART NO.	QTY	DESCRIPTION
1	3995	1	PANEL, TOP/INTAKE WELDMENT
2	9273	1	CLAMP, EXHAUST, 1 1/4"
3	9084	1	MUFFLER
4	3977	1	MANIFOLD, EXHAUST
5	9205	1	CLAMP, EXHAUST, 1 1/8"
6	HDW5039	1	NUT, 3/8" - 16
7	HDW5355	2	WASHER, FLAT
8	HDW5217	2	WASHER, FLAT
9	HDW19M7881	2	SCREW, M8 - 1.25mm, 20mm LONG
10	3993	1	BRACKET, MUFFLER
11	HDW6432	2	SCREW, 3/8" - 16, 3/4" LONG
12	HDW5355	1	WASHER, FLAT
13	4390	1	COVER, CABINET
14	HDW8264	4	NUT, 3/8" - 16
15	HDW8276	4	SCREW, 3/8" - 16, 1 1/4"
16	3989	1	PANEL, FRONT
17	20667	1	DOOR, RIGHT SIDE, ENGINE
18	8386	2	LATCH, TRIGGER, FLUSH
19	7164	2	CLAMP, HOSE, 5/16"
20	9201	1	FILTER, FUEL
21	6458	A/R	HOSE, RETURN LINE
22	90190	1	PUMP, FUEL
23	7788	2	CLAMP, HOSE
24	6859	1	TANK, PROPANE
25	6860	2	BRACKET, MOUNT, LPG TANK
26	9776	1	HOSE ASSEMBLY - LP GAS
27	HDW6896	1	FITTING, ADAPTER, MALE 3/8", 45° , MALE 1/4"
28	HDW5724	14	SCREW, 5/16" - 18, 3/4" LONG
29	HDW6894	1	FITTING, 90° ELBOW, MALE 3/8", MALE 1/4"
30	6938	1	VALVE, RELIEF, LP GAS
31	6861	1	FILTER, BULKHEAD
32	5863	1	GROMMET, 3/16" X 1 1/2" X 1 3/4"
33	6890	1	HOSE ASSEMBLY
34	HDW6895	1	FITTING, 45° ELBOW, MALE 3/8", MALE 1/4"



ART919 R0
BM21480
11/10/99

FIG. 8-1 2558DF Base Assembly - Right

ITEM	PART NO.	QTY	DESCRIPTION
35	6868	1	QUICK DISCONNECT
36	3981	1	BRACKET, LP TANK
37	3139	1	BASE WELDMENT - RIGHT
38	6854	1	BSTTERY, STARTER, 12 VOLT
39	8135	1	BOOT, TERMINAL, BLACK
40	6207	1	CABLE, BATTERY, UL1283 - #2 BLACK, 23" LONG
41	2987	2	ROD, HOLD DOWN
42	3436	1	BAR, HOLD DOWN
43	HDW6110	4	NUT, WING, 1/4" - 20
44	8127	1	CABLE, BATTERY, UL1283 - #2 RED, 23" LONG
45	8136	1	BOOT, TERMINAL, RED
46	3990	1	PANEL, REAR
47	3982	1	PAN, FLOOR
48	3984	1	PANEL, KICK
49	4378	1	BRACKET, DOOR LATCH
50	20668	1	DOOR WELDMENT, LEFT
51	3976	1	PIPE, TAIL, EXHAUST
52	3198	1	PANEL, REAR
53	HDW8273	8	SCREW, 1/4" - 20, 1" LONG
54	3903	1	KIT, 110 OUTLET
	4319	1	BOX, GROUND FAULT
	4333	1	BOX, RECEPTACLE DUPLEX
	5381	1	RECEPTACLE, DUPLEX
	6456	2	CORD GRIP, STEEL
	7263	1	RECEPTACLE, DUPLEX GROUND FAULT
	7617	49'	WIRE BULK, 14 GAUGE
	8006	2	NUT, CONNECTOR 1/2" CONDUIT
	8208	1	CONDUIT, FLEXIBLE 3/8", 18" LONG
	8209	1	CONDUIT, FERRULE 3/8"
	HDW5229	4	SCREW, #6 - 32, 3/8" LONG
	HDW8501	2	NUT, #6 - 32
	4389	1	COVER, HOSE TRAY (NOT SHOWN)

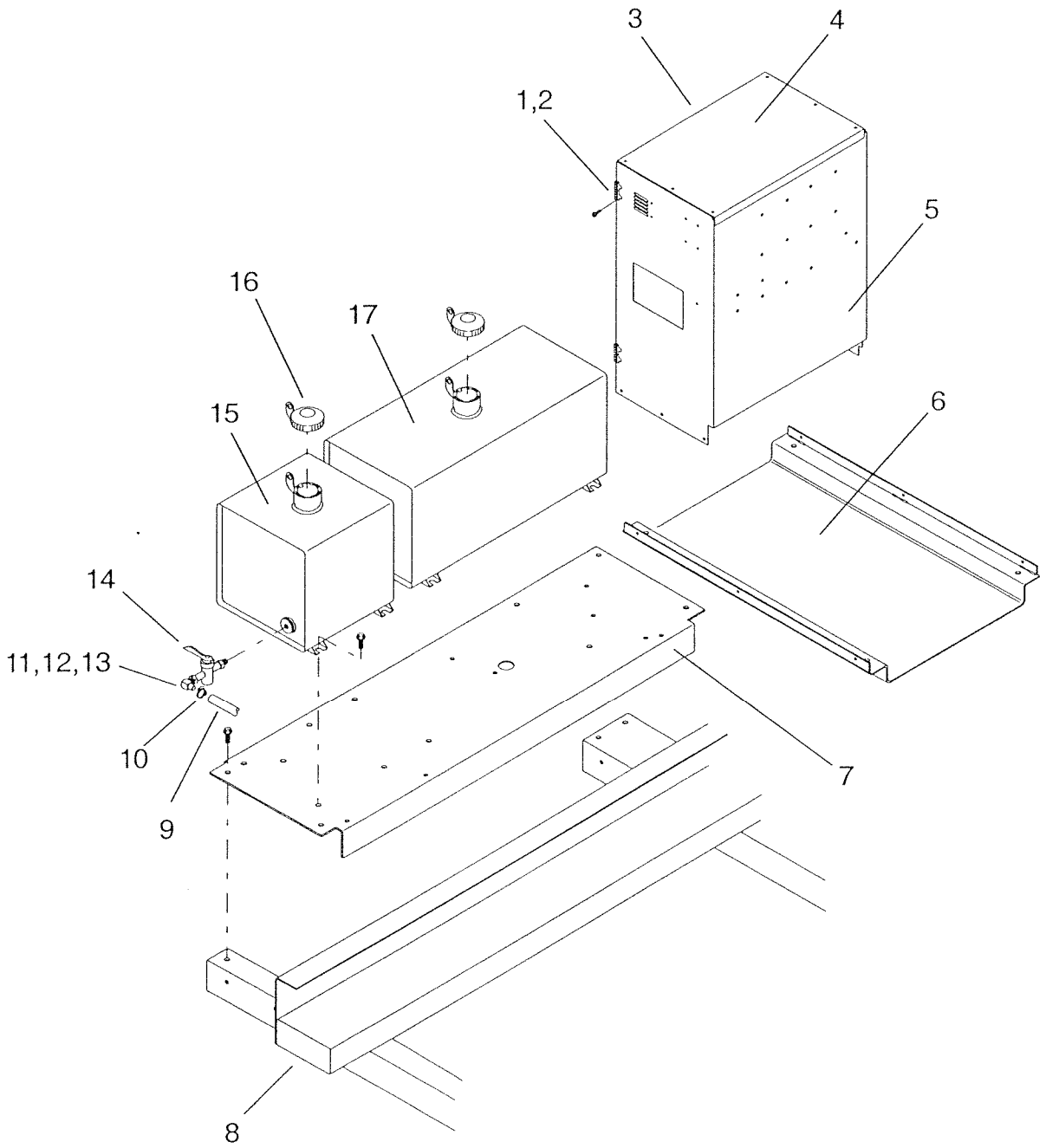


FIG. 8-2 2558DF Base Assembly - Left

ART920 R0
BM21481
11/11/99

ITEM	PART NO.	QTY	DESCRIPTION
1	4378	2	BRACKET, DOOR LATCH
2	7966	2	HANDLE, T-LATCH
3	4385	1	DOOR WELDMENT, VALVE HOUSING
4	4382	1	COVER, VALVE HOUSING
5	3991	1	WRAPPER, VALVE HOUSING
6	3392	1	TRAY, HOSE CROSSOVER
7	3414	1	TRAY, TANK & BATTERY
8	3138	1	BASE WELDMENT, LEFT
9	6458	A/R	HOSE, RETURN LINE
10	7164	1	CLAMP, HOSE, 5/16" HOSE
11	HDW7509	1	FITTING, UNION, MALE 1/8", MALE 1/8"
12	6863	1	ELBOW, MALE 1/8"
13	HDW7508	1	FITTING, FEMALE 1/8", HOSEBARB 5/16"
14	6919	1	VALVE, SHUT OFF, GAS LINE
15	9835	1	TANK, GAS
16	9962	1	CAP, VENTED WITH LOCK AND DIPSTICK
17	6856	1	RESERVOIR
	9716	1	HORN, 12-48 VOLT, ELECTRONIC (NOT SHOWN)
	HDW5723	2	SCREW, 1/4" - 20, 3/4" LONG - FOR MOUNTING HORN

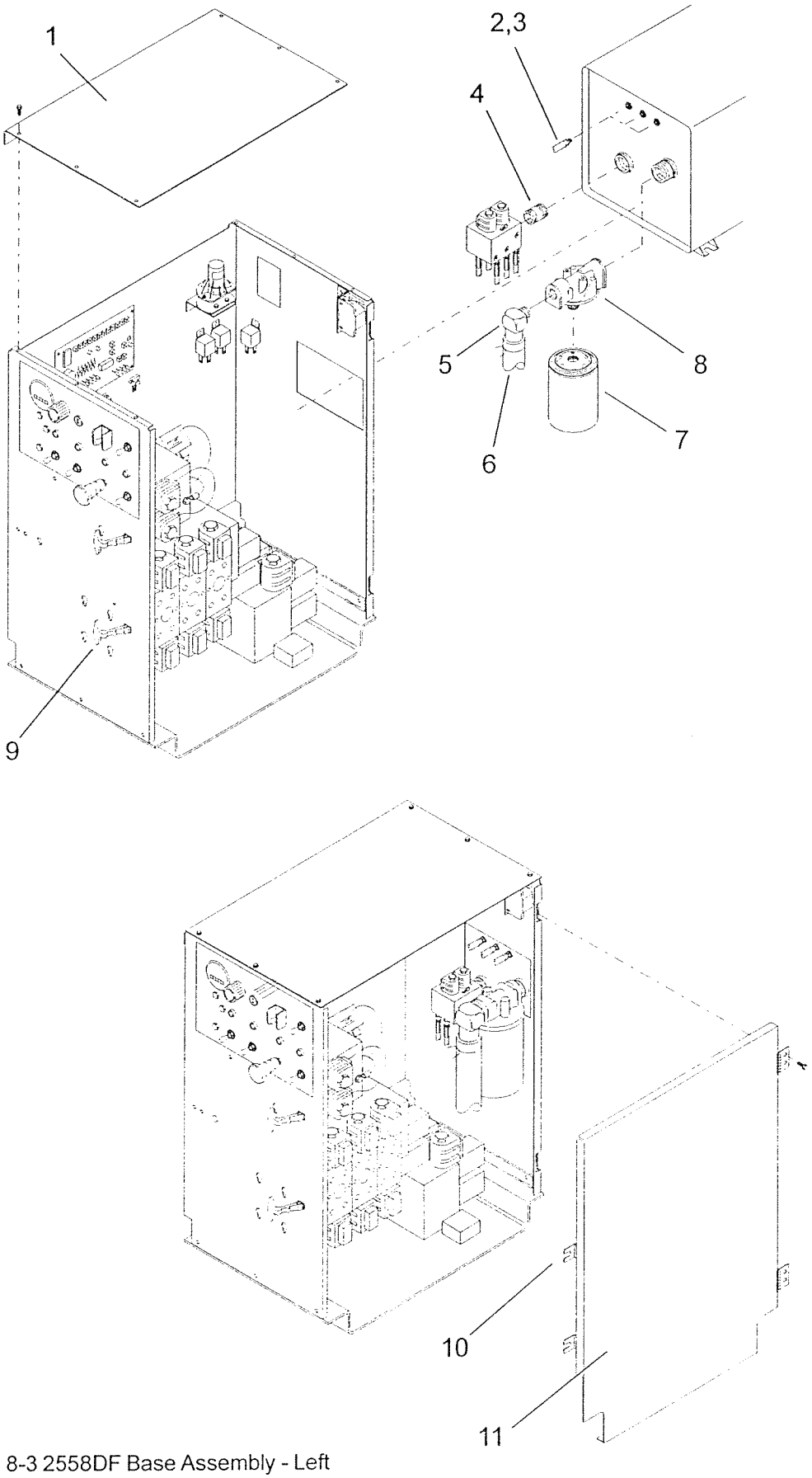
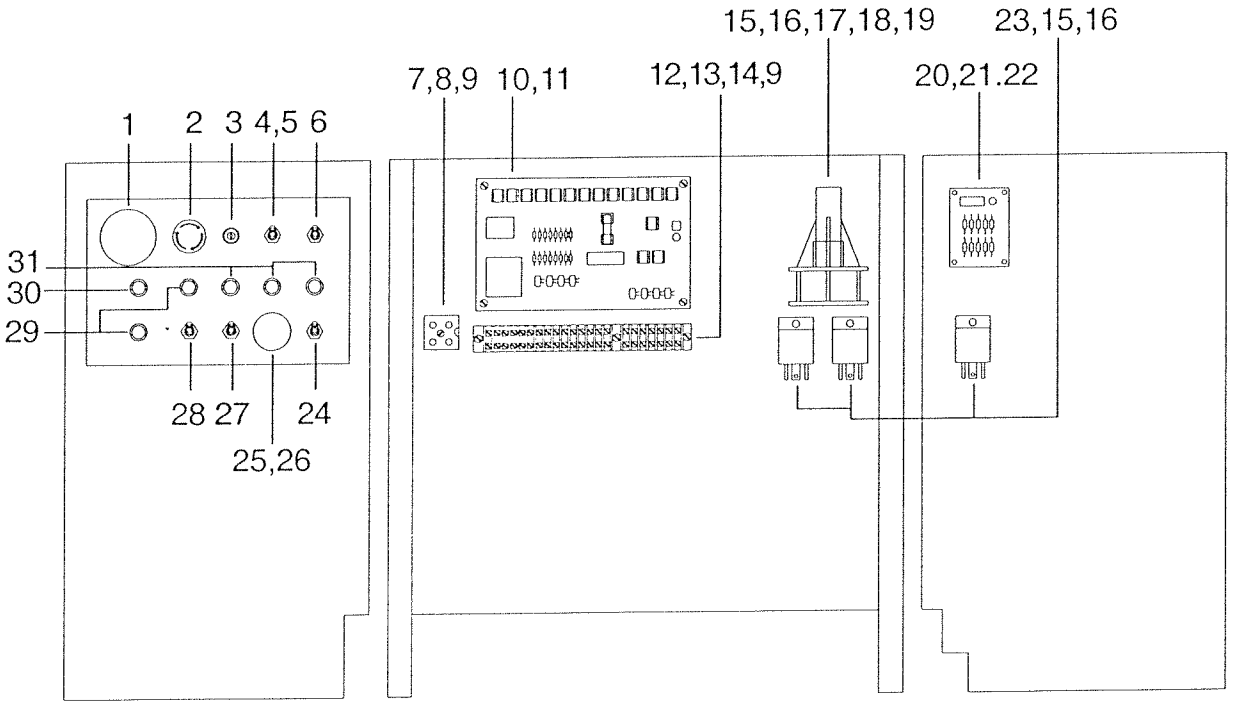


FIG. 8-3 2558DF Base Assembly - Left

ART920 R0
BM21481
11/15/99

ITEM	PART NO.	QTY	DESCRIPTION
1	4382	1	COVER, VALVE HOUSING
2	7164	3	CLAMP, HOSE, 5/16"
3	6458	A/R	HOSE, RETURN LINE
4	6925	1	PIPE, NIPPLE, 3/4" X 2"
5	6865	1	ELBOW, 3/4"
6	6225	2	HOSE ASSEMBLY, 1/2" X 24"
7	6156	1	FILTER, OIL, CARTRIDGE
8	6714	1	FILTER, HEAD
9	7966	2	HANDLE, T-LATCH
10	4378	2	BRACKET, DOOR LATCH
11	4385	1	DOOR, VALVE HOUSING



ART921 R0
BM21482
11/11/99

FIG. 8-3 Base Control Cabinet Components

ITEM	PART NO.	QTY	DESCRIPTION
1	7909	1	METER, HOUR, 12-48 VOLT
2	7800	1	SWITCH STOP, ASSEMBLY
	9345	1	BLOCK-CONTACT N.C. (ABB)
3	5936	1	SWITCH, KEY
	6117	1	KEY
4	5230	1	SWITCH, TOGGLE, 3 POSITION MOMENTARY, CENTER OFF
5	1313	1	GUARD, SWITCH
6	8638	1	SWITCH, TOGGLE, 4 POLE, 2 POSITION
7	7492	1	BLOCK, TERMINAL
8	HDW7231	4	SCREW, #6-32, 1 1/4" LONG
9	HDW5364	7	NUT, #6-32
10	HDW7561	8	SCREW, #6-32, 3/4" LONG
11	9021	1	BOARD, RELAY
12	7970	1	MARKER, STRIP
13	6947	1	STRIP, TERMINAL
14	HDW5363	3	SCREW, #6-32, 1" LONG
15	HDW6455	7	SCREW, 1/4" - 20, 1/2" LONG
16	HDW5276	7	NUT, 1/4" -20
17	9327 OR	1	SENSOR, TIP, 12 VOLT, 2°
	9324	1	SENSOR, TIP, 12 VOLT, 4.5°
18	HDW5723	2	SCREW, 1/4"-20, 3/4" LONG (BRACKET TO CABINET)
19	13683	1	BRACKET, MOUNTING TILT SENSOR
20	9193	1	BOARD, CIRCUIT
21	HDW8732	4	SCREW, #4, 1" LONG
22	HDW7886	4	NUT, #4-40
23	9278	3	RELAY, 12 VOLT, N/O WITH SUPPRESSION
24	9149	1	SWITCH, TOGGLE, 2 POLE, 3 POSITION
25	9887	1	CHOKE, CONTROL ASSEMBLY
26	9775	1	LINKAGE, CHOKE
27	5630	1	SWITCH, TOGGLE, 2 POSITION MAINTAINED
28	6234	1	SWITCH, TOGGLE, 1 POLE, 2 POSITION MAINTAINED
29	7447	2	CIRCUIT BREAKER, 30 AMP
30	7235	1	CIRCUIT BREAKER, 15 AMP
31	6906	3	LIGHT, INDICATOR

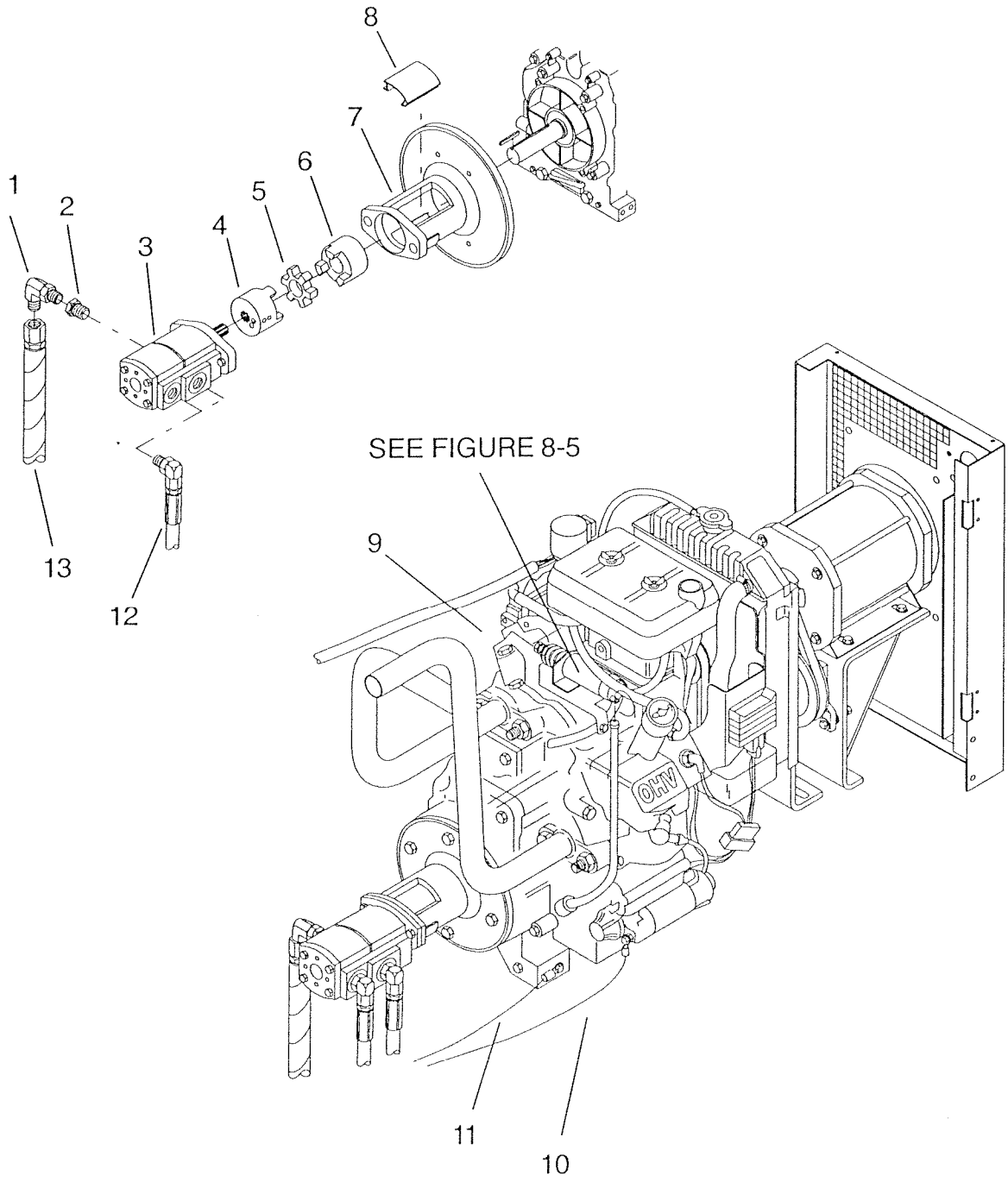


FIG. 8-4 Kawasaki Engine

ART924 R0
BM21490
11/18/99

ITEM	PART NO.	QTY	DESCRIPTION
1	6865	1	ELBOW, 3/4"
2	6864	1	ADAPTER, PUMP, 3/4" X 5/8"
3	6855	1	PUMP, HYDRAULIC
4	9004	1	COUPLING, SPLINE, 16/32
5	7287	1	COUPLING, SPIDER, LOVEJOY
6	7286	1	COUPLING, LOVEJOY, 1 1/8" X 1/4"
7	8973	1	BRACKET, MOUNTING PUMP
8	8978	1	COVER, MOUNTING BRACKET, PUMP
9	8987	1	ENGINE, KAWASAKI 20HP
10	8127	1	CABLE, BATTERY, UL1283, #2 - RED, 23" LONG
11	6207	1	CABLE, BATTERY, UL1283, #2 - BLACK, 23" LONG
12	9916	1	HOSE, PUMP
13	9909	1	HOSE, SUCTION
	6887	1	SWITCH, OIL PRESSURE (NOT SHOWN)
	HDW5217	4	WASHER, FLAT (ENGINE TO FLOOR PLAN, NOT SHOWN)
	HDW7482	4	SCREW, M8 - 1.25mm, 20mm LONG (ENGINE TO FLOOR PLAN, NOT SHOWN)

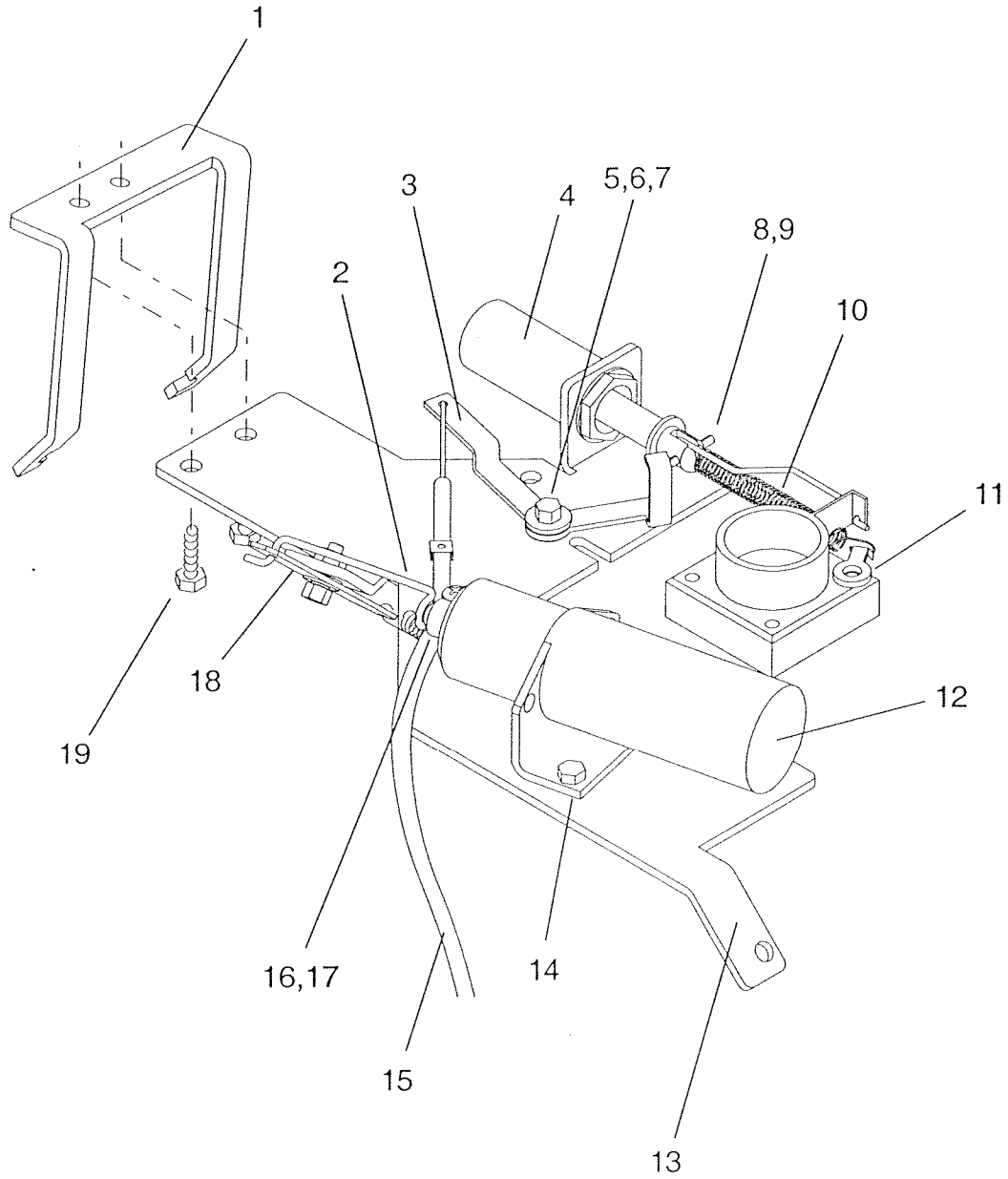
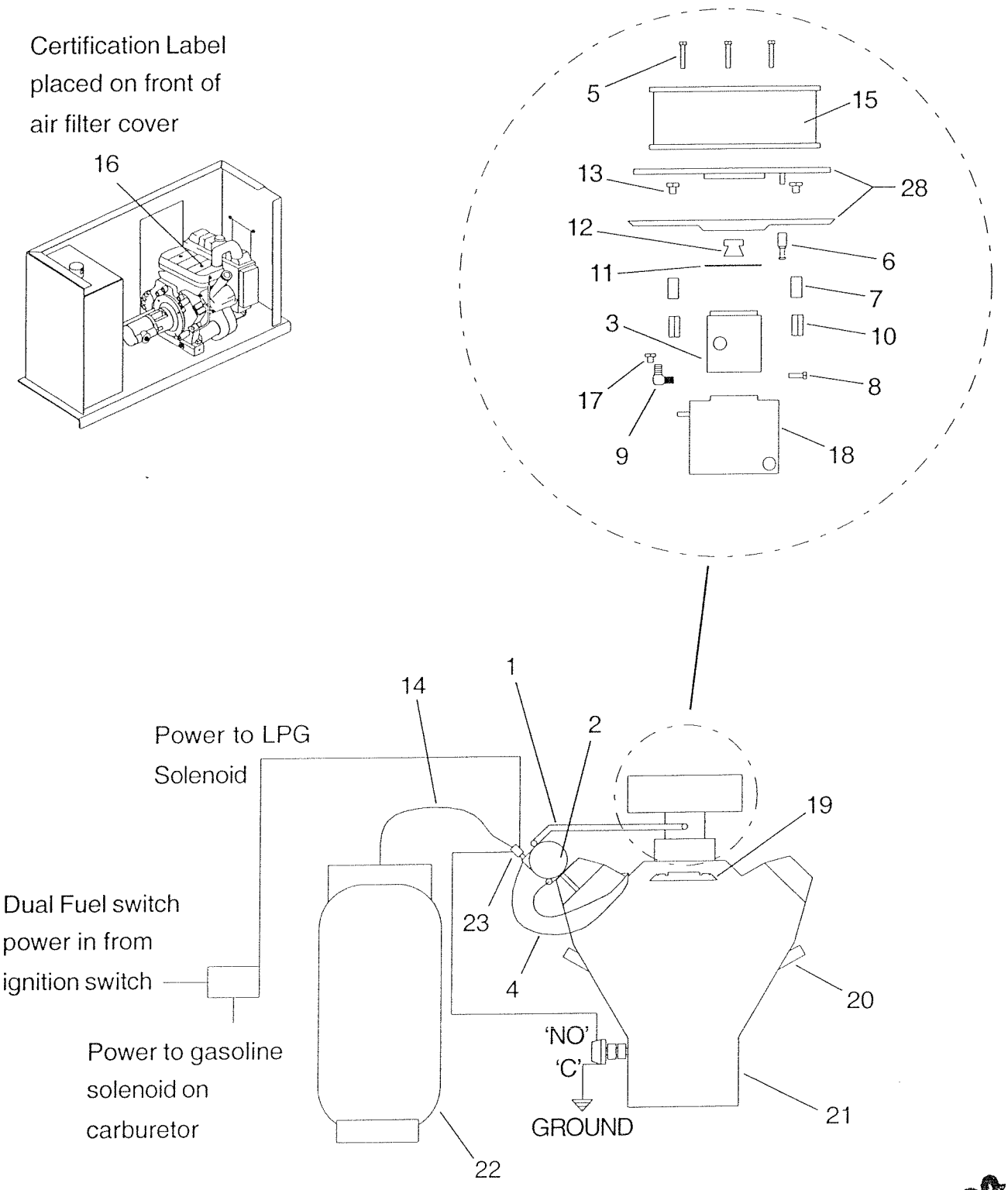


FIG. 8-5 Manual Choke Assembly

ART847 R1
BM19773
11/19/99

ITEM	PART NO.	QTY	DESCRIPTION
1	14788	1	BRACKET, LP REGULATOR
2	9171	1	LINK, THROTTLE
3	40151	1	BRACKET, CHOKE ACTUATOR
4	7397	1	SOLENOID, CHOKE
5	HDWN153834	2	WASHER, FLAT
6	HDW14875	1	SCREW
7	HDW304J	1	NUT, #10 - 24
8	9775	1	LINKAGE, CHOKE
9	HDW7454	1	PIN, SPRING, 1/8" DIA, 1" LONG
10	8981	1	SPRING, EXTENSION
11	9246	1	MOUNT STATIONARY
12	7398	1	SOLENOID
13	14789	1	BRACKET, THROTTLE/LINKAGE
14	HDW6455	2	SCREW, 1/4" - 20, 1/2" LONG
15	9887	1	CHOKE CONTROL ASSEMBLY
16	HDW7475	1	NUT, 1/4" - 28
17	HDW9247	1	SCREW, 1/4" - 28, 1" LONG
18	14803	1	THROTTLE, LIFT LEVER
19	HDW5723	2	SCREW, 1/4" - 20, 3/4" LONG



TBA

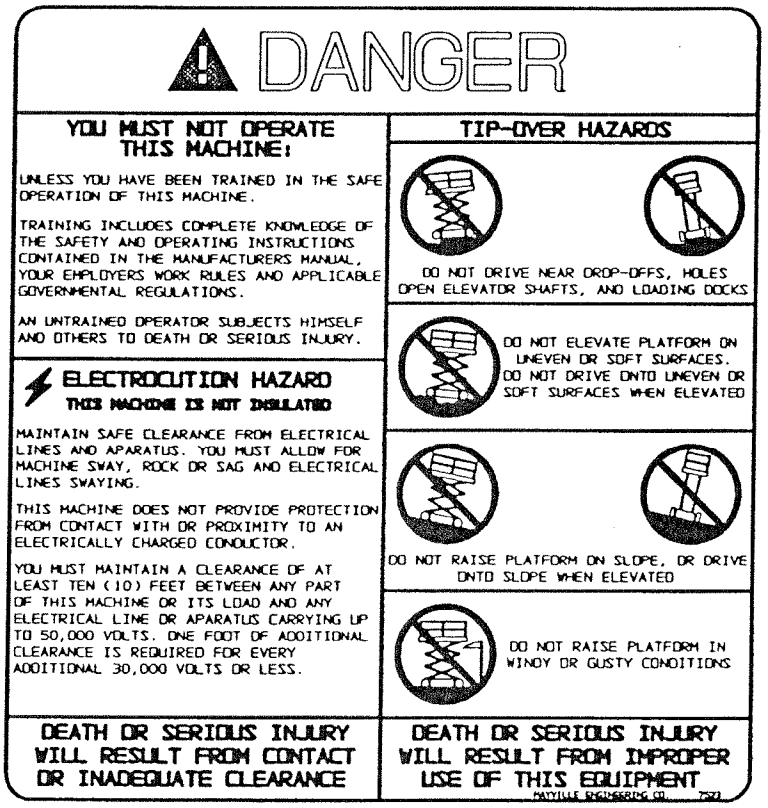
ARTXXX R0
BMXXXXX
11/11/99

FIG. 8-6 Kawasaki Dual Fuel Conversion

ITEM	PART NO.	QTY	DESCRIPTION
8986 - LP ADAPTER KIT, ITEMS 1-13			
1	9077	1	HOSE ASSEMBLY, LOW PRESSURE
2	9076	1	REGULATOR, LP, BEAM T60, TAMPERPROOF
3	9079	1	ADAPTER, LP
4	9078	2	HOSE, COOLANT, LP
5	N/A	3	SCREWS
6	N/A	1	EXTENSION, VENT TUBE
7	N/A	2	EXTENDERS
8	N/A	1	SCREW, VENTURI
9	N/A	1	ORIFICE, ELBOW
10	N/A	2	SPACERS
11	N/A	1	O-RING
12	N/A	1	VENTURI
13	N/A	2	SCREWS
14	6890	1	HOSE ASSEMBLY
15	9081	1	AIR FILTER ASSEMBLY
16	9286	1	LABEL, CERTIFICATION
17	14846	1	ORIFICE, METERING, LP (FIXED)
18	9097	1	CARBURETOR
19	9321	1	MANIFOLD, INTAKE
20	9080	2	SPARK PLUG
21	8987	1	ENGINE, KAWASAKI
22	6859	1	TANK, LP
23	6867	1	VALVE, LOCK OFF
	N/A	1	BRACKETS
	9284	1	WIRE HARNESS #1 (NOT SHOWN)
	9285	1	WIRE HARNESS #2 (NOT SHOWN)
	9098	1	IGNITER, MODULE (NOT SHOWN)
	9282	1	COIL, IGNITION (NOT SHOWN)
	9283	1	COIL, PULSATING (NOT SHOWN)

HITE-MASTER

Decals

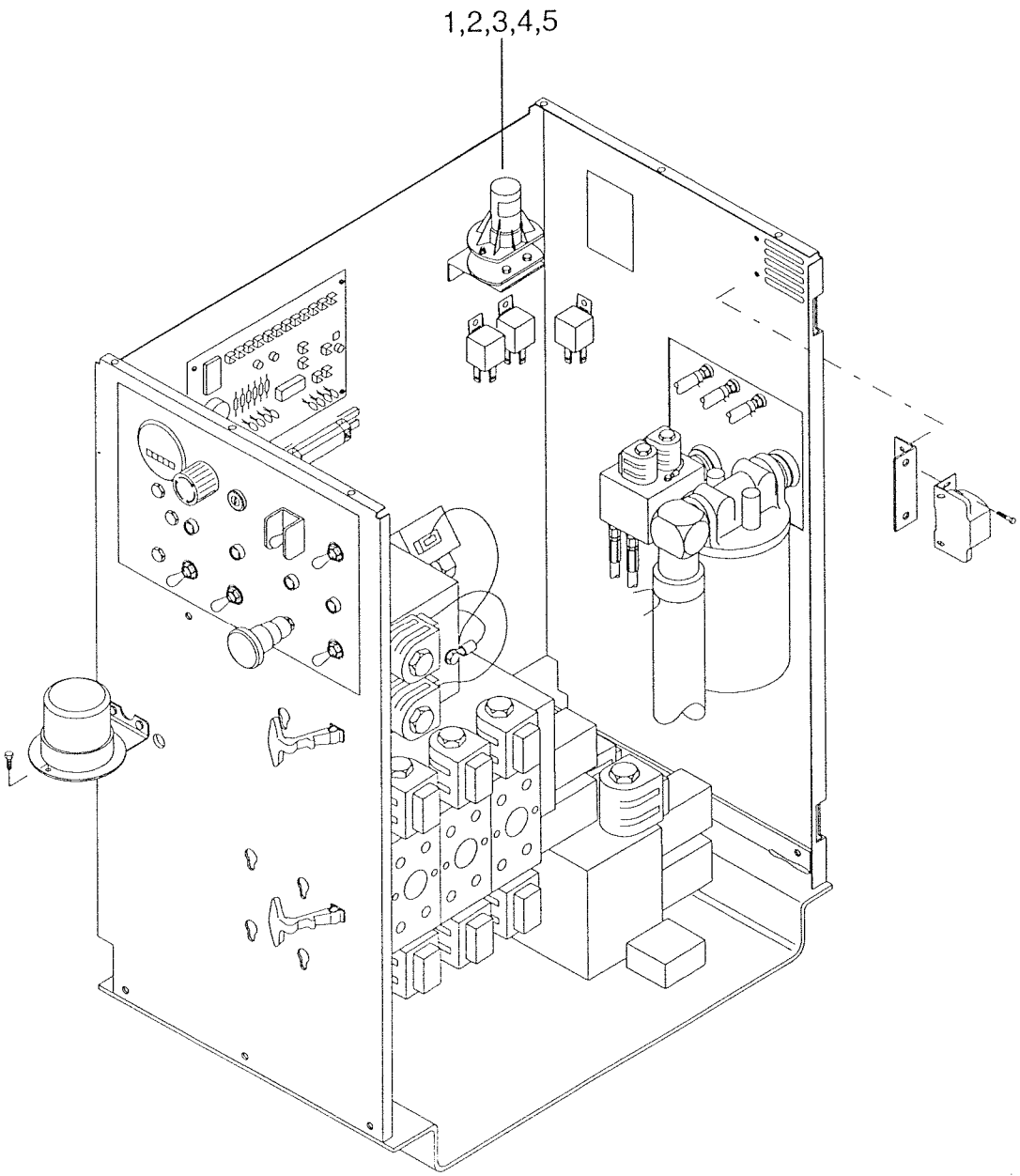


HITE-MASTER

Options

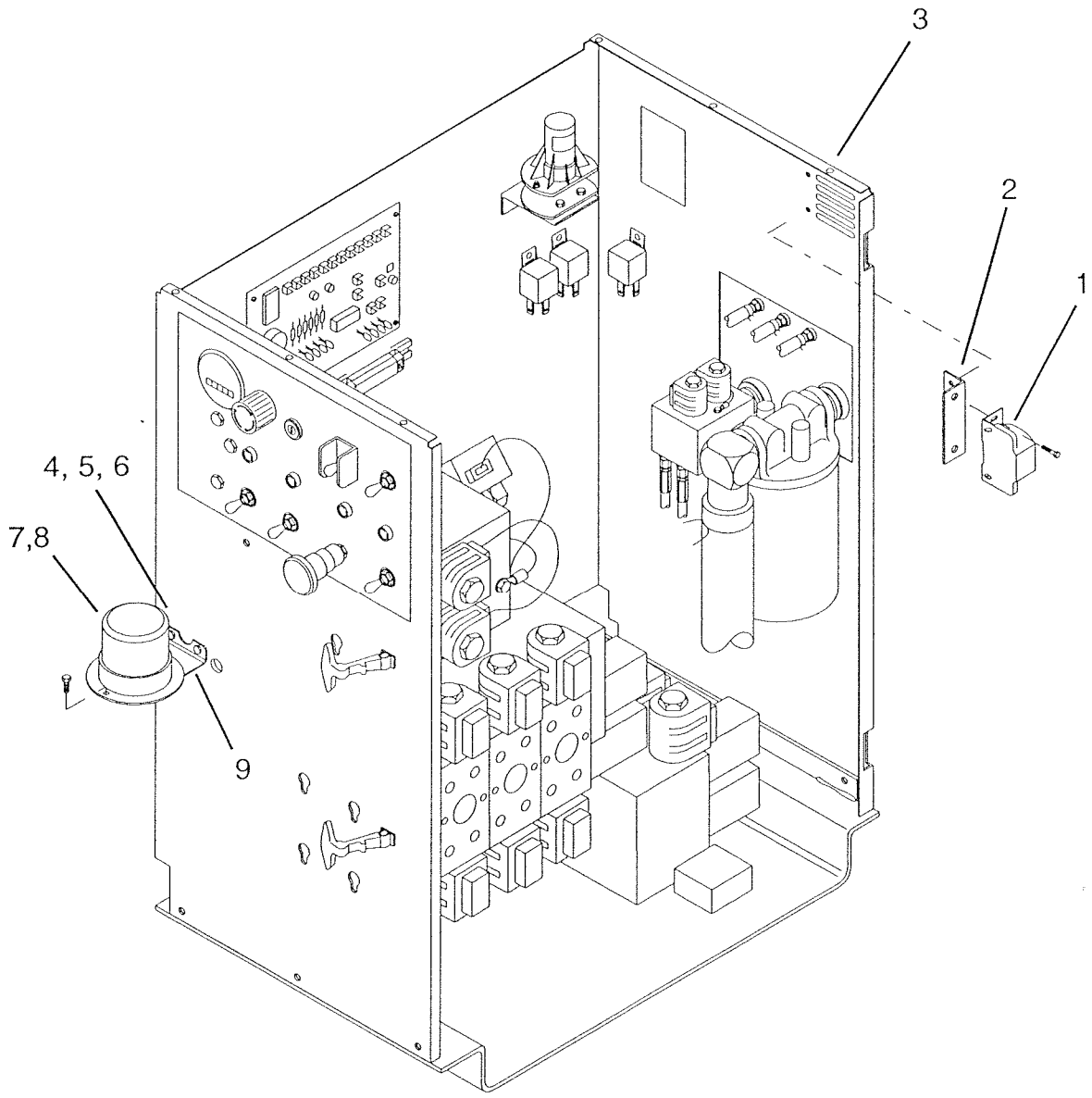
ITEM	PART NO.	QTY	DESCRIPTION
2558DF TILT SENSOR OPTION - 20052			
1	13683	1	BRACKET, MOUNTING, TILT SENSOR
2	9324	1	SENSOR, TIP, 4.5°, 12 VOLT
3	HDW5276	4	NUT, 1/4" - 20
4	HDW5723	2	SCREW, 1/4" - 20, 3/4" LONG (BRACKET TO CABINET)
5	HDW6455	4	SCREW, 1/4" - 20, 1/2" LONG
2558DF TILT SENSOR OPTION - 20053			
1	13683	1	BRACKET, MOUNTING, TILT SENSOR
2	9327	1	SENSOR, TIP, 2°, 12 VOLT
3	HDW5276	4	NUT, 1/4" - 20
4	HDW5723	2	SCREW, 1/4" - 20, 3/4" LONG (BRACKET TO CABINET)
5	HDW6455	4	SCREW, 1/4" - 20, 1/2" LONG
2558DF AIRLINE TO PLATFORM OPTION - 3912 (NOT SHOWN)			
	5351	1	TIE, CABLE
	8548	46'	HOSE, 1/4" AIR LINE
	8557	1	CLAMP, 1 HOLE
	8559	2	CLAMP, HOSE, TWO EAR
	HDW6455	1	SCREW, 1/4" - 20, 1/2" LONG
2558DF DIAMOND DECK OPTION - 4229 (NOT SHOWN)			
	3493	1	PLATE, PLATFORM
	3494	1	PLATE, EXTENDED PLATFORM
	HDW5276	16	NUT, 1/4" - 20
	HDW7117	16	SCREW, 1/4" - 20, 1 1/2" LONG
2558DF HOUR METER OPTION - 14581 (NOT SHOWN)			
	7909	1	METER, HOUR, 12-48 VOLT
	8783	1	HARNESS, HOUR METER

ITEM	PART NO.	QTY	DESCRIPTION
	2558DF MOTION ALARM OPTION - 11545		
1	8698	1	ALARM, MOTION
2	4391	1	BRACKET, MOTION ALARM
3	HDW5723	2	SCREW, 1/4" - 20, 3/4" LONG
	8709	1	TERMINAL, INSULATOR, RED (NOT SHOWN)
	8710	1	TERMINAL, INSULATOR, BLACK (NOT SHOWN)
	9304	1	HARNESS, MOTIONS ALARM (NOT SHOWN)
	2558DF FLASHING LIGHT OPTION - 14975		
4	HDW5217	4	WASHER, FLAT
5	HDW6461	2	NUT, 1/4" - 20
6	HDW8273	2	SCREW, 1/4" -20, 1" LONG
7	7101	1	LIGHT, FLASHING, 12 VOLT
8	8933	1	BULB, XENON STROBE - #5001
9	14981	1	BRACKET, FLASHING LIGHT
	6492	1	BUSHING, SNAP (NOT SHOWN)
	8086	1	TERMINAL, 1/4" PUSH ON (NOT SHOWN)



ART923 R0
BM21485
11/17/99

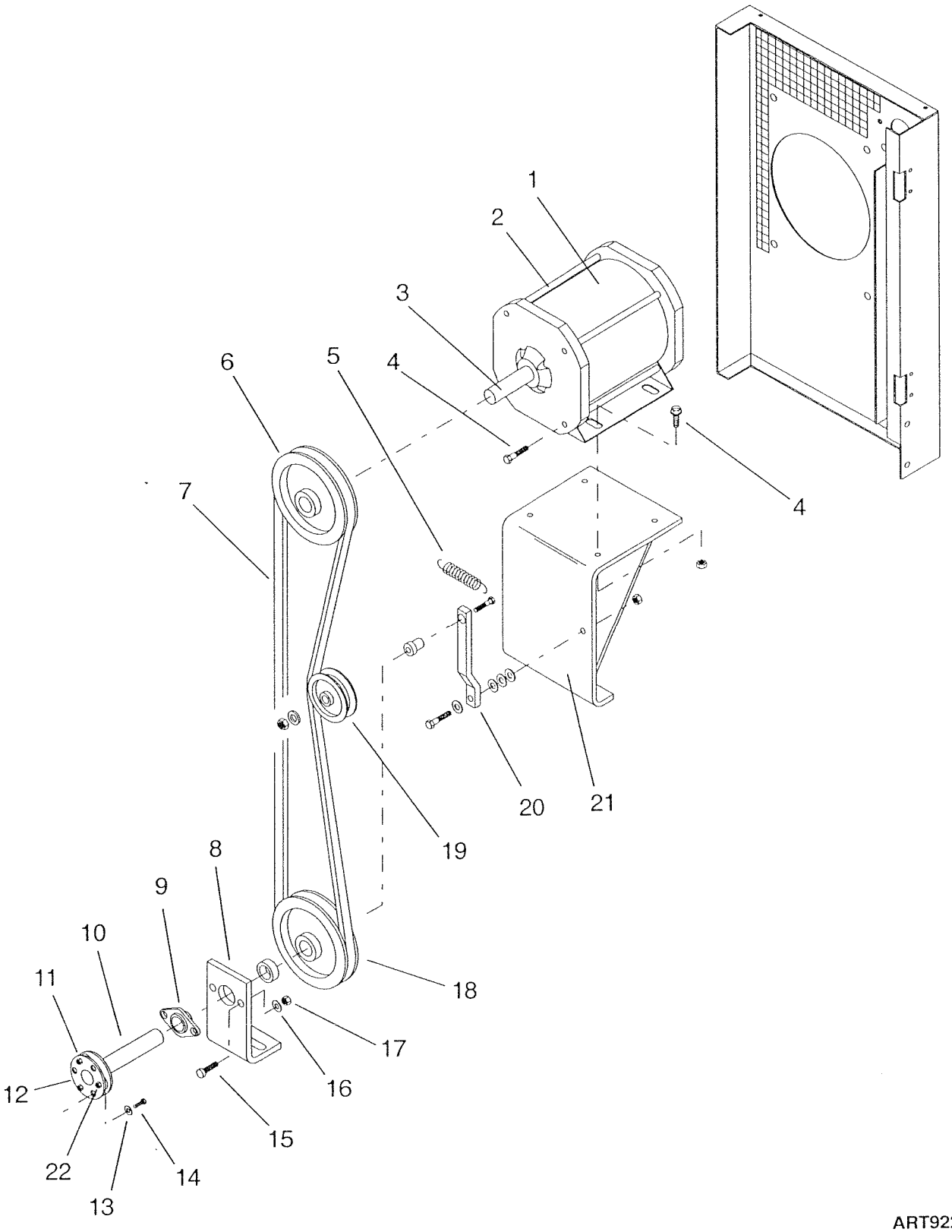
FIG. 10-4 Options Cont'd



ART923 R0
BM21485
11/16/99

FIG. 10-3 Motion Alarm & Flashing Light Options

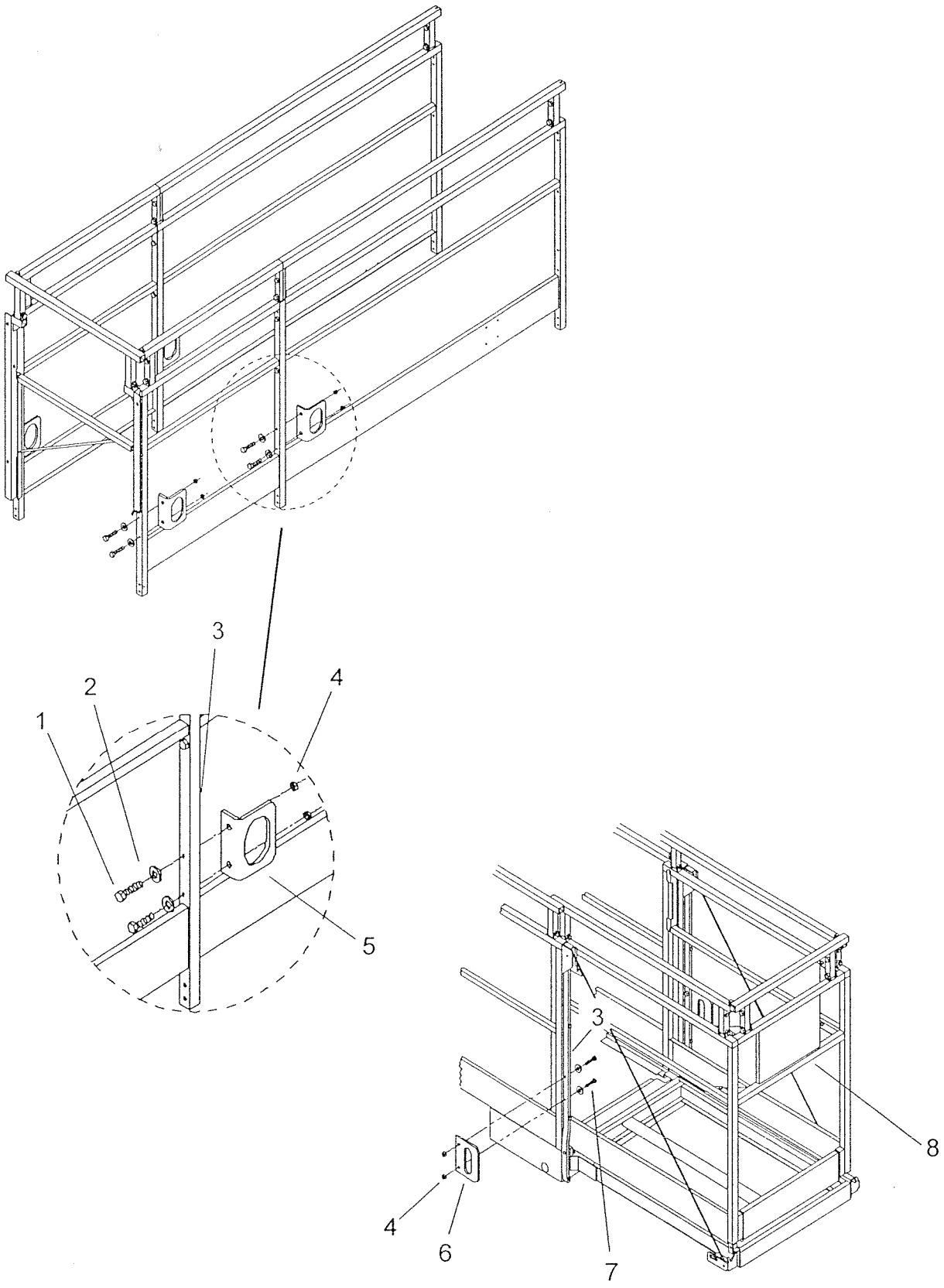
NOTES:



ART922 R0
BM21483
11/11/99

FIG. 10-1 Generator

ITEM	PART NO.	QTY	DESCRIPTION
2558DF GENERATOR OPTION - #3441			
1	3470	1	GENERATOR
2	3457	4	ROD, GENERATOR MOUNTING
3	6910	2	KEY, 1/4" X 1/4" X 1 1/4"
4	HDW6433	8	SCREW, 3/8" - 16, 1" LONG
5	9027	1	SPRING, TENSION, 1" X 5" LONG
6	6877	1	PULLEY, 4", 1 1/8" BORE
7	9911	1	BELT, 21/32" X 36"
8	20128	1	PLATE, PILOT BEARING
9	9178	1	BEARING, FLANGE, 1" DIA.
10	20131	1	SHAFT, PILOT
11	9265	3	ISOLATOR, VIBRATION
12	14925	1	COUPLING, ENGINE HALF
13	HDW11467	3	WASHER, FLAT
14	HDW6788	3	SCREW, 3/8" - 16, 1 1/2" LONG
15	HDW9195	2	SCREW, 5/16" - 18, 1" LONG
16	HDW5006	2	WASHER, SPLIT
17	HDW8304	2	NUT, 5/16" - 18
18	6878	1	PULLEY, 4 1/2", 1" BORE
19	9202	1	PULLEY, IDLER
20	4383	1	BRACKET, TENSIONER
21	4387	1	SUPPORT
22	HDW8268	3	NUT, 3/8" - 16



BUL0031 R0
BM21484
11/11/99

FIG. 10-2 Lanyard Option

ITEM	PART NO.	QTY	DESCRIPTION
	2558DF LANYARD OPTION - #3952		
1	HDW8279	8	SCREW, 3/8" - 16, 2 1/2" LONG
2	HDW5355	12	WASHER, FLAT
3	8605	6	DECAL, LANYARD ATTACHMENT
4	HDW8268	4	NUT, 3/8" - 16
5	3923	4	BRACKET, ATTACH POINT (90°)
6	4211	2	BRACKET, ATTACH POINT (FLAT)
7	HDW8276	4	SCREW, 3/8" - 16, 1 1/4" LONG
8	8606	1	DECAL, WARNING POSITION RESTRAINTS