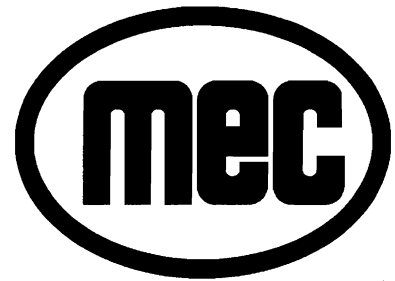
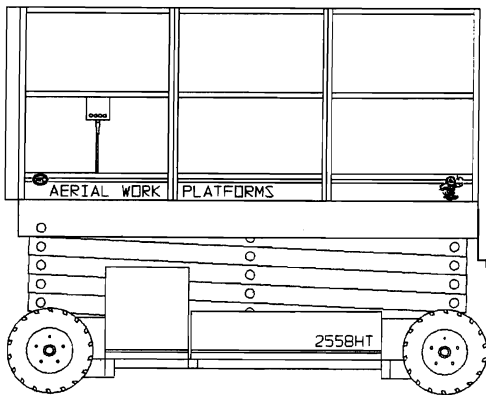
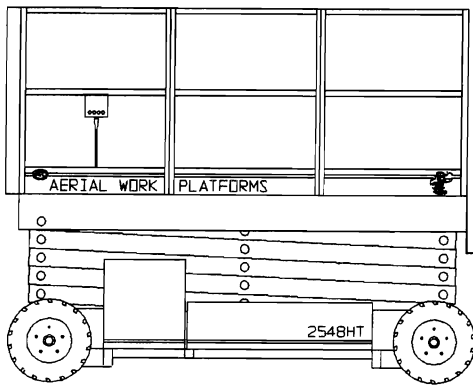


Hite-Master ***Series***

1948, 1948HT, 2548, 2548HT, 1958, 1958HT
2558, 2558HT, 1958D, 2558D



Aerial Work Platforms

Mayville Engineering Co.

715 South Street
Mayville, Wisconsin 53050 USA

(920) 387-4500
1-800-387-4575
FAX (920) 387-5817

Parts & Service Manual

Part Number 8927

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.

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. 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).

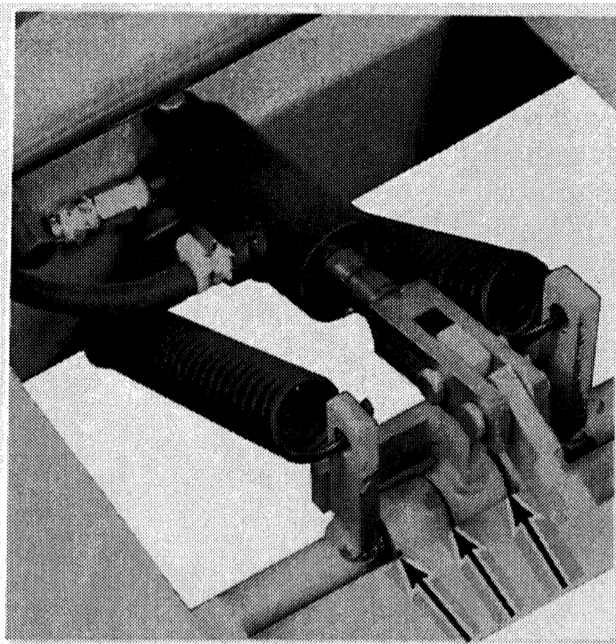


FIG. 1-1 Brake Linkage

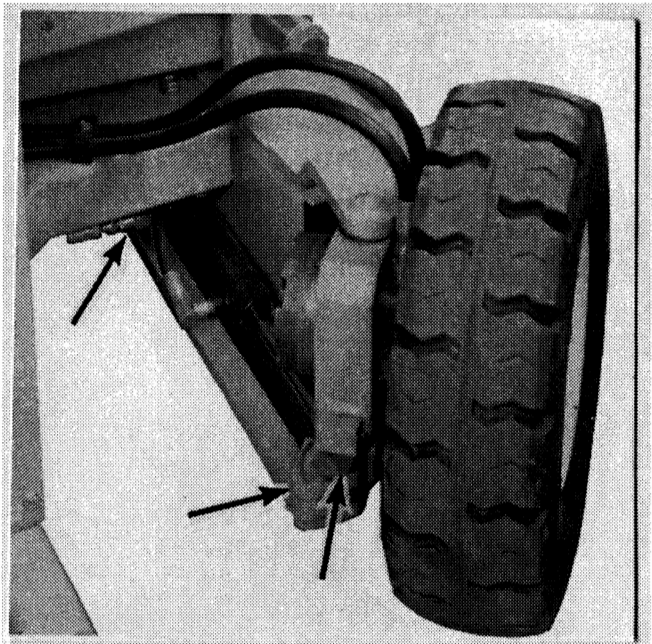


FIG. 1-2 Steering Linkage

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

	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			

CHECKLISTS

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.

Maintenance

Hitemaster

SERVICING, REPLACEMENT & ADJUSTMENTS

This section contains three basic maintenance functions:

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.

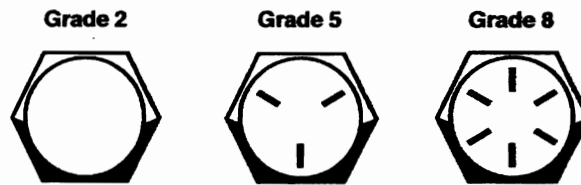
REPLACEMENT describes the proper method for removal and installation of replaceable components in case of failure.

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 (Electric Series)

⚠ 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!

Hite-Master battery models are supplied with heavy-duty deep-cycle batteries. The care and maintenance of your batteries has much to do with how well your Hite-Master functions. Battery wiring and water level should be checked daily. After using the Hite-Master continuously for a period of time, it is recommended that the batteries be brought to a full charge as soon as possible. If the batteries are allowed to remain discharged, the lead plates will harden and become sulfated. This will shorten their life as much as overcharging. In this sulfated condition the battery fails to deliver its rated capacity or come up to full charge. Several long, slow charges and fast discharges are then necessary to correct the sulfation and hardened plates. It is recommended that once a month the batteries be given an equalizing charge of 25% over the regular charge. The equalizing charge must always be given at a low rate to eliminate excessive gassing. Whenever battery temperature reaches 120°F (48.4°C), the charging rate should be reduced or the battery taken off charge and allowed to cool to room temperature.

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)

- a. **Charging Battery Packs.** The Hite-Master has removeable battery packs. A different battery pack can be used by removing the existing case and installing a different pack. Be sure to change both packs when a new power pack is needed.
- b. **To Change Battery Packs**
 - (1) Lower platform completely.
 - (2) Disconnect battery packs' power supply.
 - (3) Lift cover and remove mounting bolts on both sides (Figure 1-3).
 - (4) Lift off battery pack (Figure 1-4) and install new pack (Figure 1-3) in reverse order.
 - (5) Reconnect power supply.
- c. **Checking and Filling (Electric Series)** (Every 15 hours of use or when recharging)
 - (1) Lower platform completely.
 - (2) Lift battery tray cover.
 - (3) 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)
 - (4) Remove battery caps and check fluid.
 - (5) Fill, if needed, as follows (use distilled water):
 - (a) Before charging, fluid must be above plates in battery.
 - (b) After charging, fill to split ring.

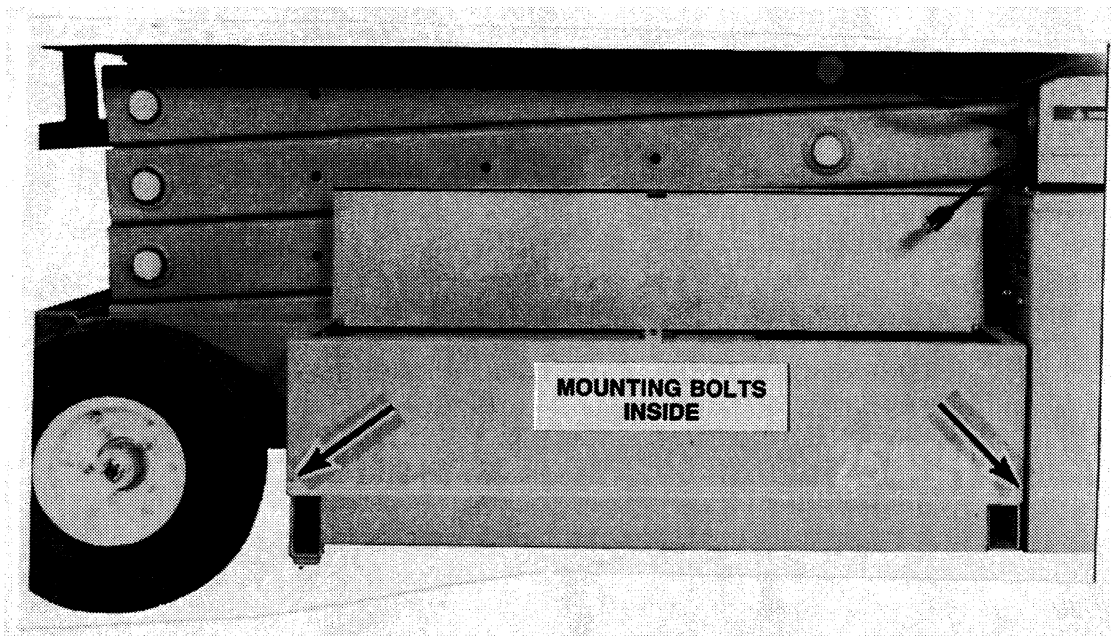


FIG 1-3 Remove Mounting Bolts

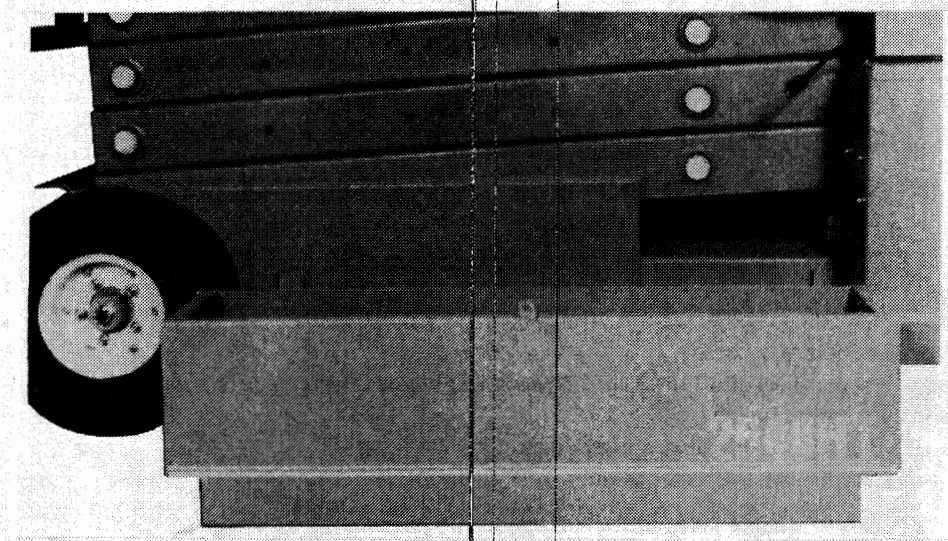


FIG 1-4 Lift Battery Pack Off

⚠ CAUTION

Do not overfill. Fluid will expand as it becomes warm from charging and seep out of the battery. When water is then added, the solution is weakened and a loss of ampere hour capacity results.

Never add acid to battery. The solution is at its proper strength when the battery is manufactured. Use distilled water and keep fluid up to proper level. When required, water should be added to battery *after* charging, unless water level is below the top of the plates.

(6) Coat terminals with petroleum jelly or equivalent.

d. Charging Notes (Electric Series)

(1) The surrounding temperature has a great effect on the power in a battery.

(a) 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)

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

--- drops to 32% at 31°F (-0.6°C)

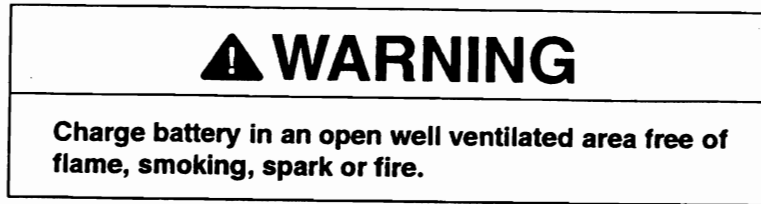
--- drops to 21% at 0°F (-17.6°C)

(2) 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.

(3) Battery should be brought to full charge as soon as possible after continuous use. (Hydrometer reading of 1.265 at 80°F or 26.4°C)

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 discharges must be given.

e. Charging (Electric Series)



- (1) Lower platform completely.
- (2) Open battery tray cover.
- (3) Remove caps, check fluid level and, if needed, fill to cover plates.
- (4) Reinstall caps before charging.
- (5) Plug in charger to a properly grounded circuit.
- (6) Turn timer clockwise to **ON** position.
- (7) Charge until meter reads in finish area or near zero (0). (Charger will turn off automatically when timer runs out.)
- (8) Unplug charger.

NOTE:

After Charging, fill to split rings.

- (9) Check fluid level and reinstall caps.

f. Battery Replacement (Electric Series)

- (1) Completely lower unit.
- (2) Lift battery tray cover.
- (3) Remove nuts from battery hold-down and remove.
- (4) Remove battery cables.
- (5) Remove battery.
- (6) Reverse procedure.

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

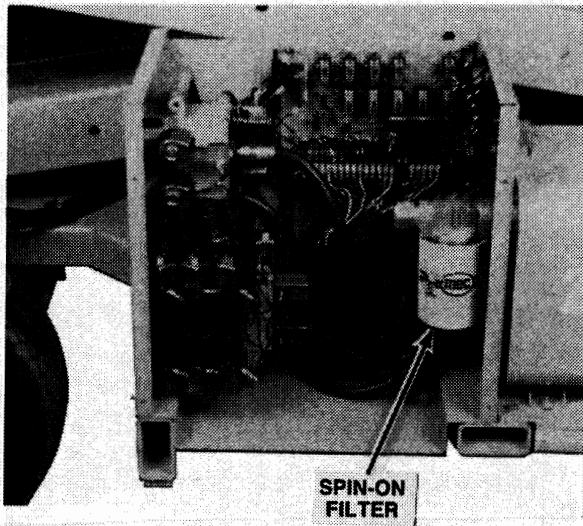
Common maintenance on DC motor is brush replacement. It is recommended that brushes be checked and replaced if necessary, along with commutator inspection, approximately every six months. The time element will greatly vary depending on how the machine is being used and the condition of the battery. It is to your advantage to keep the batteries fully charged and in top condition to eliminate service problems in general, and to extend the life of motor and brushes. (See Battery Servicing.)

d. Check and Fill Hydraulic Reservoir (Dual Fuel Series)

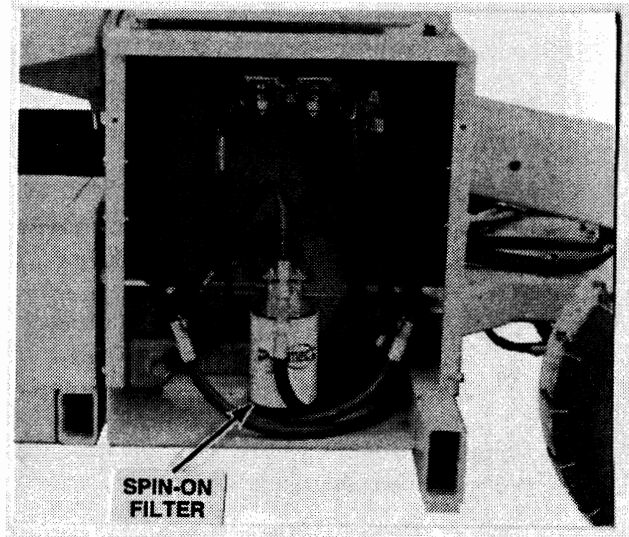
Inspect oil level in hydraulic reservoir by unscrewing reservoir filler cap. Oil level should be 2 inches below the top of the tank. Fill reservoir with hydraulic oil conforming to MIL. SPEC. 0-5606.

e. Check and Fill Hydraulic Reservoir (Electric Series)

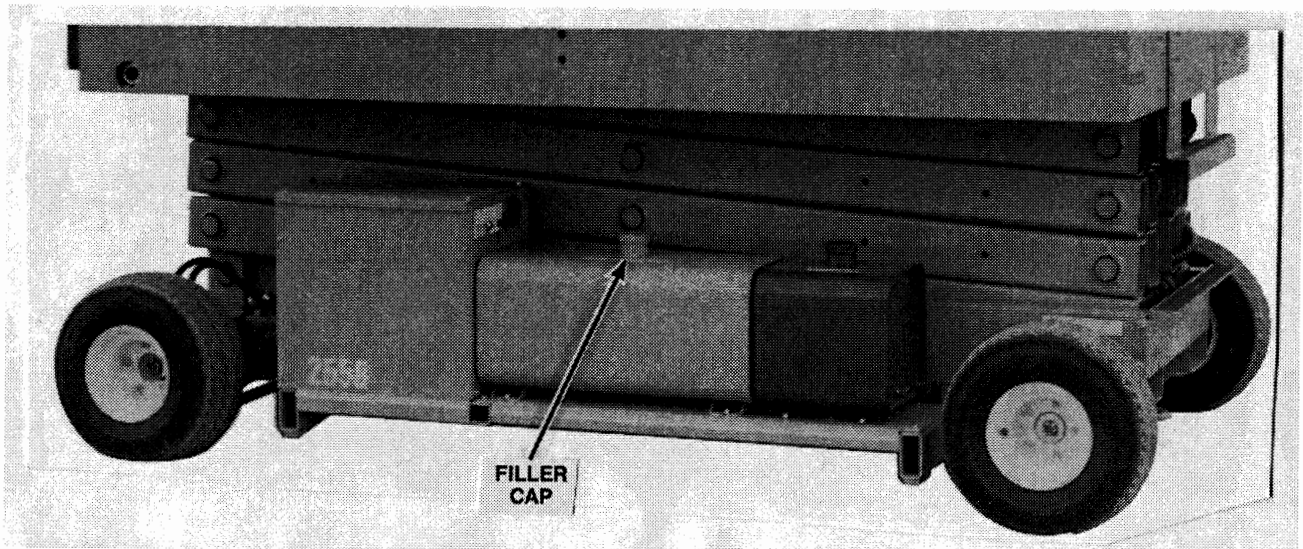
- (1) Lower platform completely.
- (2) Remove load from platform.
- (3) Raise platform high enough to engage maintenance locks.



**FIG 1-5 Oil Filter
Dual Fuel Series**



**FIG. 1-6 Oil Filter
Electric Series**



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

⚠ 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.

- (4) Lower platform so that maintenance locks rest on pivot pins.
- (5) Check fluid in reservoir by removing filler cap (Figure 1-8).
- (6) Fill to proper level.
- (7) Replace cap
- (8) Raise platform slightly and retract maintenance locks

f. Hydraulic Pump Replacement (Dual Fuel Series)

- (1) Remove hydraulic hoses from pump.

NOTE:

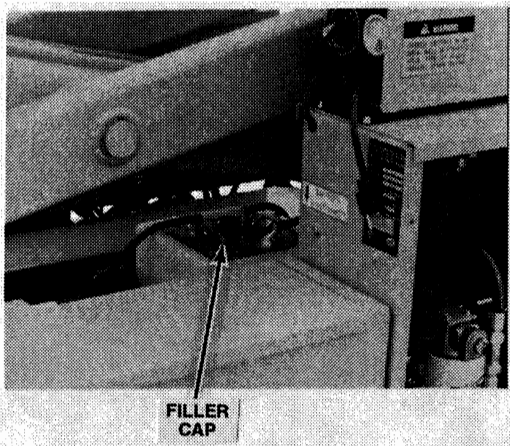
In the following step, the high pressure hydraulic line may still be under pressure and fluid will squirt out when line is disconnected. Do not reuse fluid, as it may become contaminated.

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

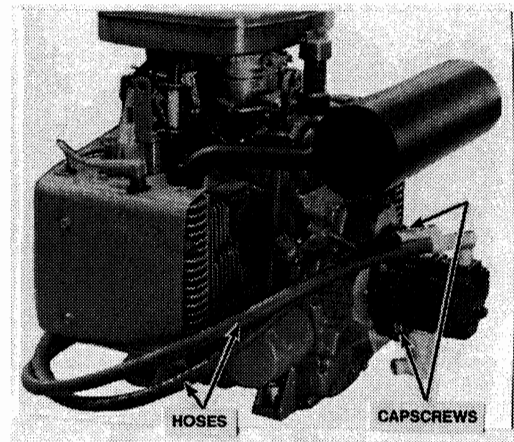
NOTE:

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

- (4) Reinstall pump and hose.



**FIG 1-8 Hydraulic Oil Fill Cap
Electric Series**



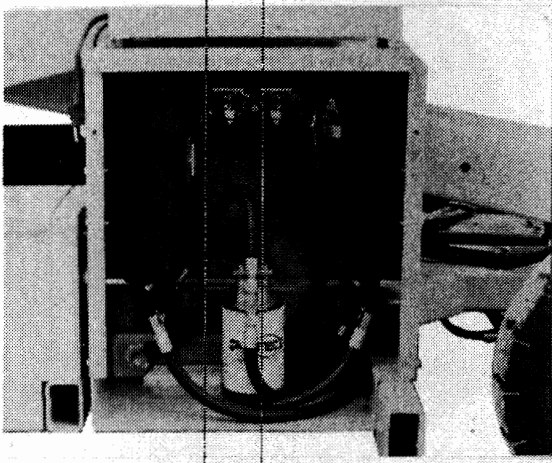
**FIG 1-9 Pump
Dual Fuel Series**

g. Hydraulic Pump and Motor Replacement (Electric Series)

- (1) Disconnect positive and negative battery cables by separating quick disconnect connector located behind both battery trays.
- (2) Tag and remove wires from hydraulic pump and motor assembly (Figure 1-10).
- (3) Remove hydraulic hoses from pump. NOTE: The inlet port of the pump is to the inside and the outlet port is to the outside on the pumps.

NOTE:

In step 3, 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.



**FIG. 1-10 Pump and Motor
Electric Series**

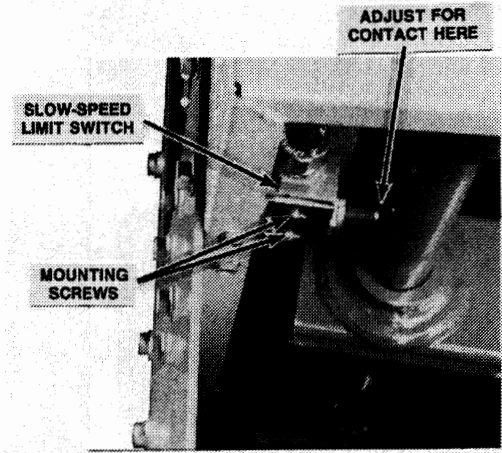


FIG. 1-11 Slow Speed Limit Switch

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.

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.

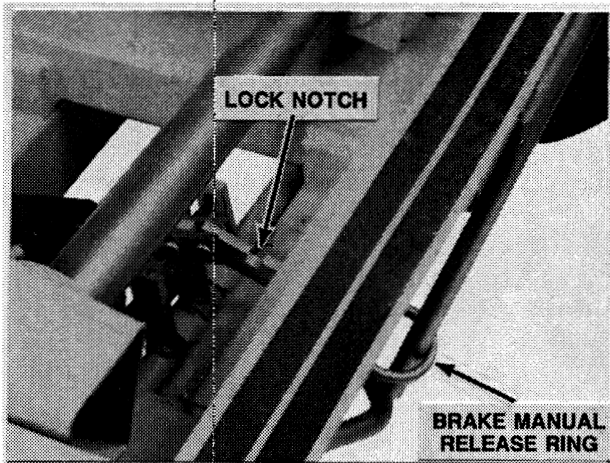


FIG. 1-12 Brake Locked

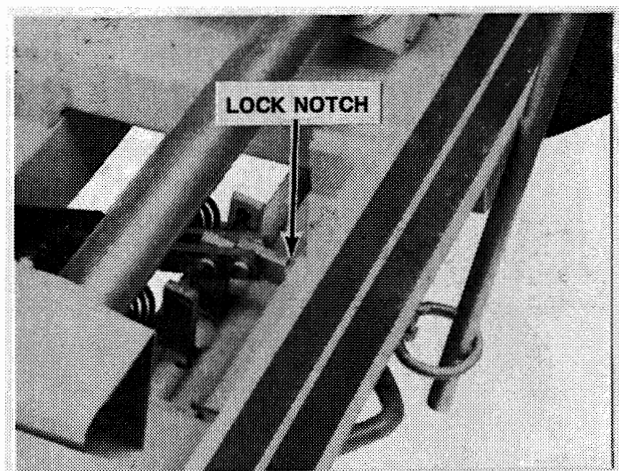


FIG. 1-13 Brake Released

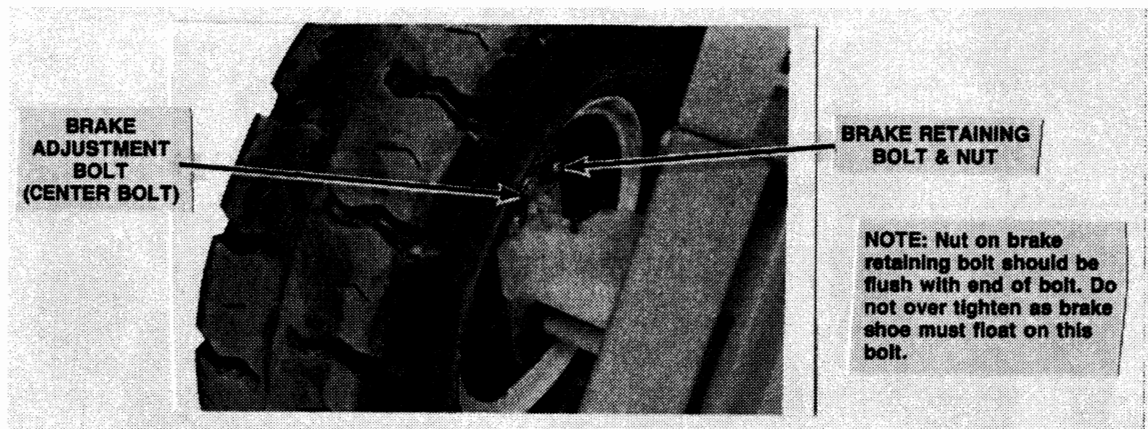


FIG. 1-14 Brake Adjustment

- 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

<p>⚠ WARNING</p> <p>MAINTENANCE LOCKS MUST BE INSTALLED when maintaining or servicing machine with platform fully or partially extended.</p> <p>Working through beams on scissors lifting device creates a hazardous situation which could cause death or personal injury.</p>

- a. Raise platform.
- 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 platform 6 times.
- l. Recheck fluid level in down position. (See Hydraulic System)

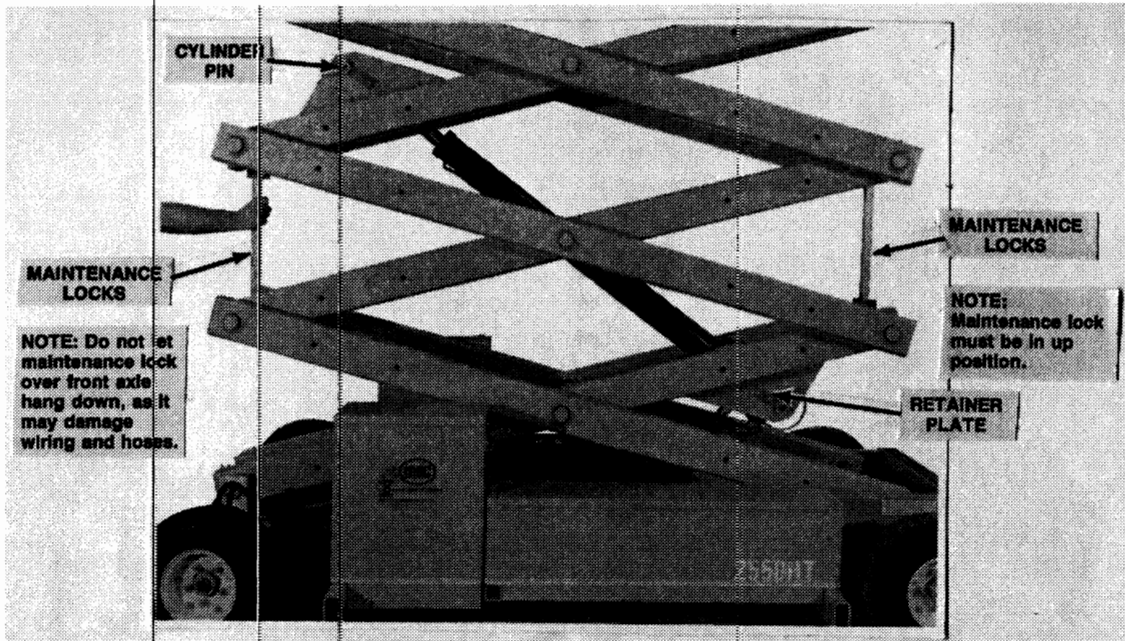


FIG. 1-15 Removing Lift Cylinder Pins and Retainers.

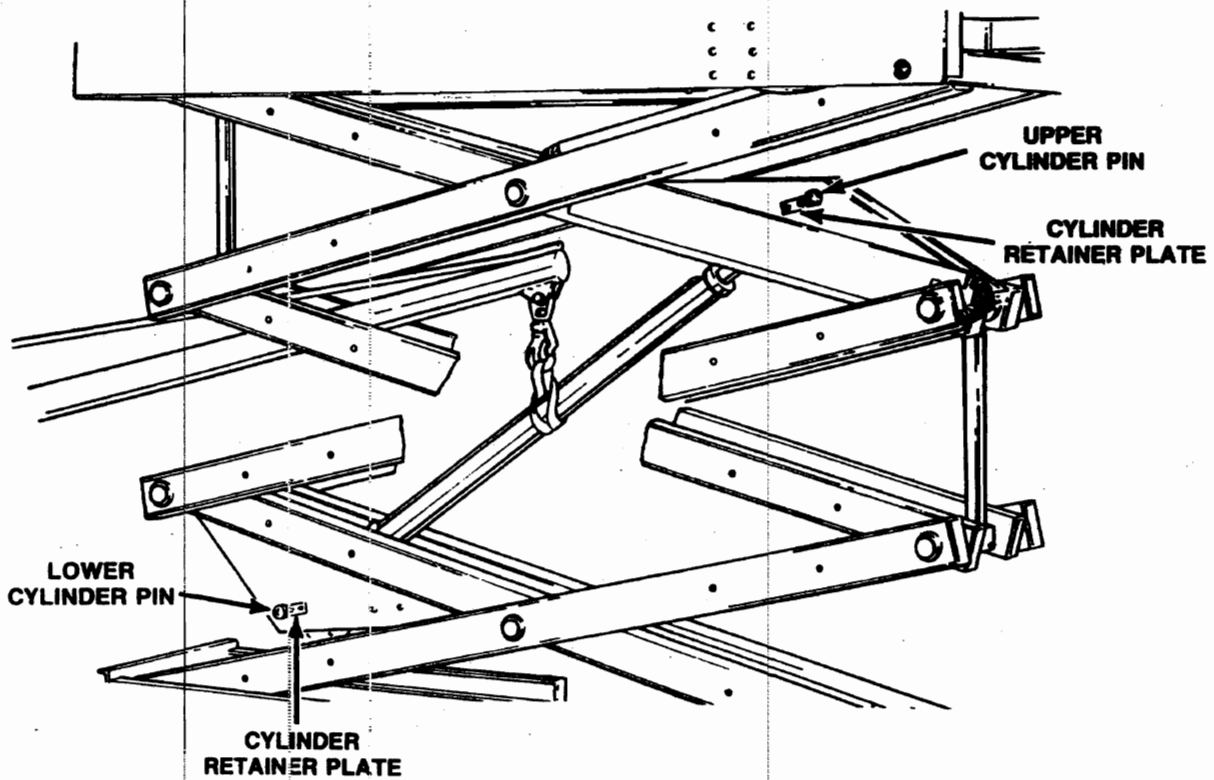


FIG. 1-16 Removing Lift Cylinder

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 ().

- 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 ().
- 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 ().

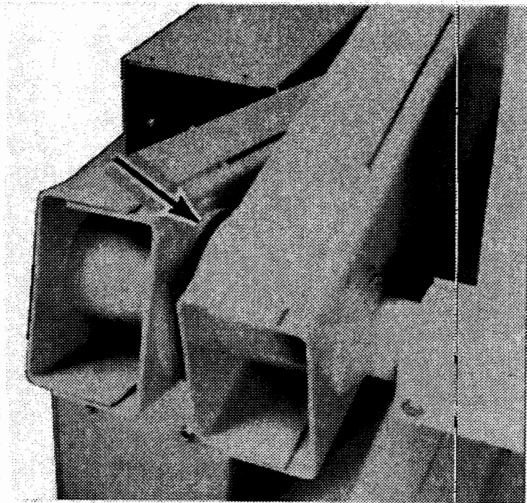


FIG. 1-17 Washer Reinforcing

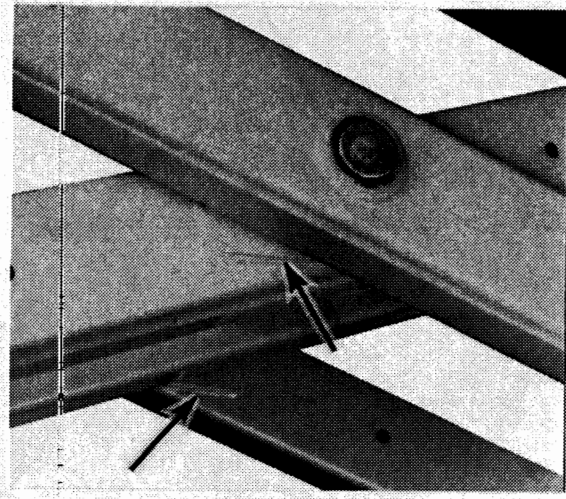


FIG. 1-18 Reinforcing Plates

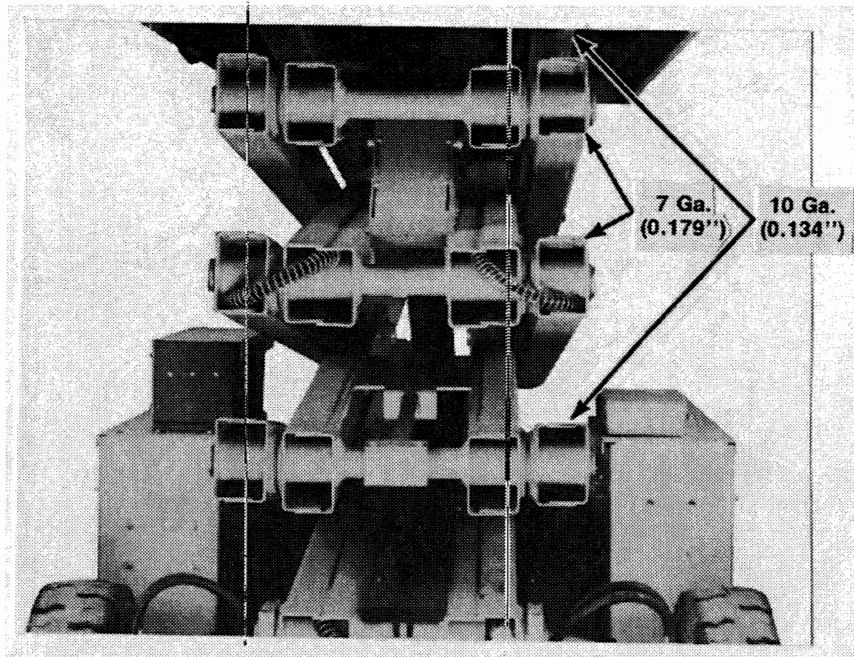


FIG. 1-19 Beam Replacement

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 pulley.
- (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.

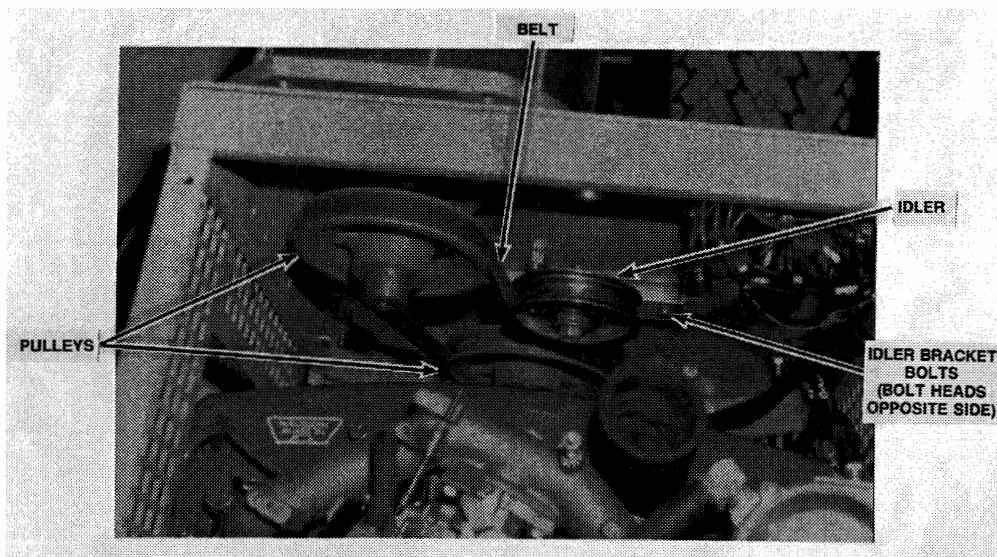


FIG. 1-20 Generator Belt, Idler and Pulleys

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.

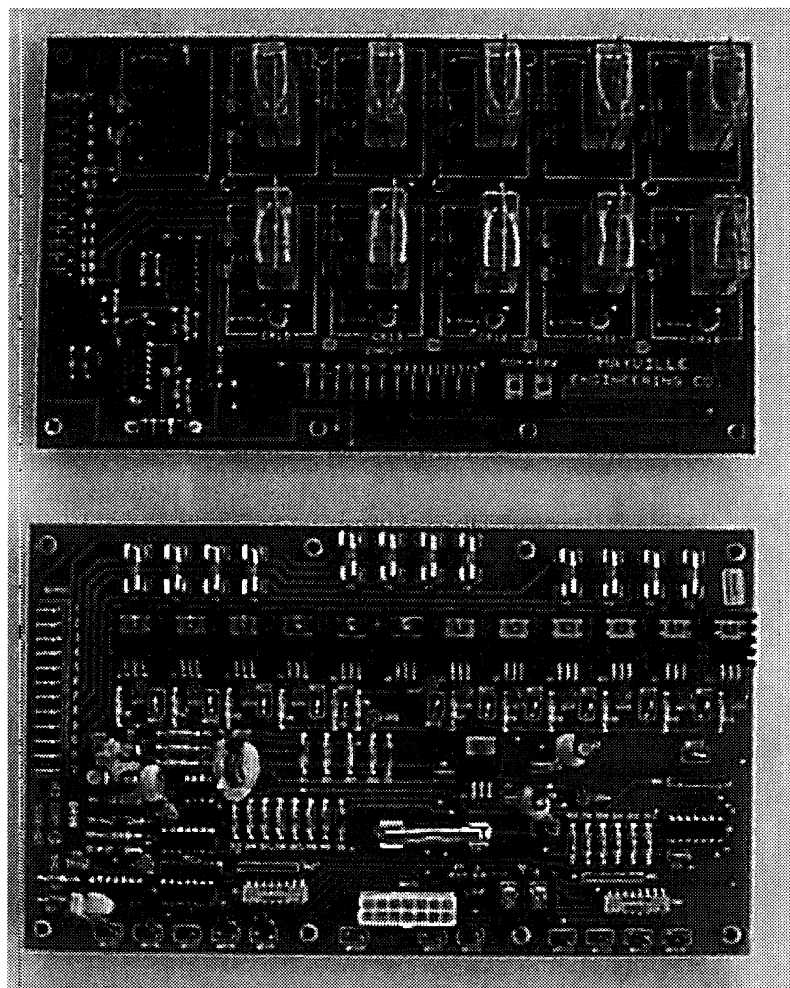
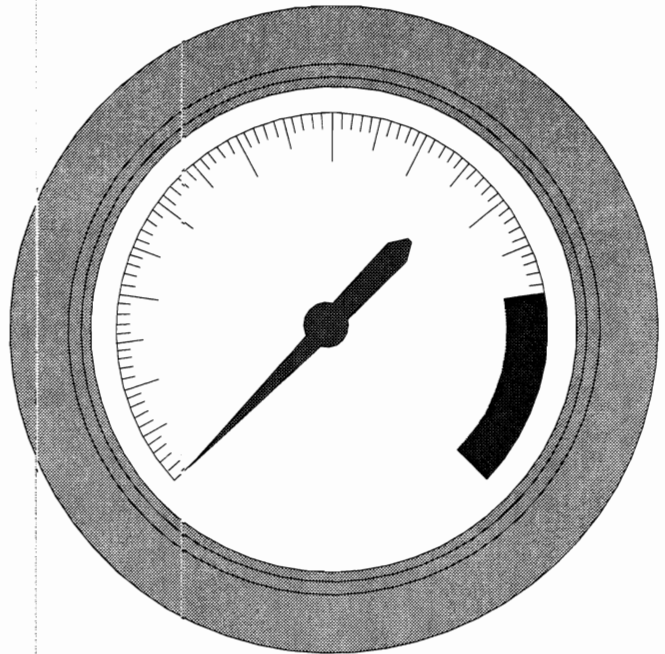


FIG. 1-21 Circuit Boards

Troubleshooting



NOTES:

HITE-MASTER WIRING DIAGRAM
Standard Series Pre-1992

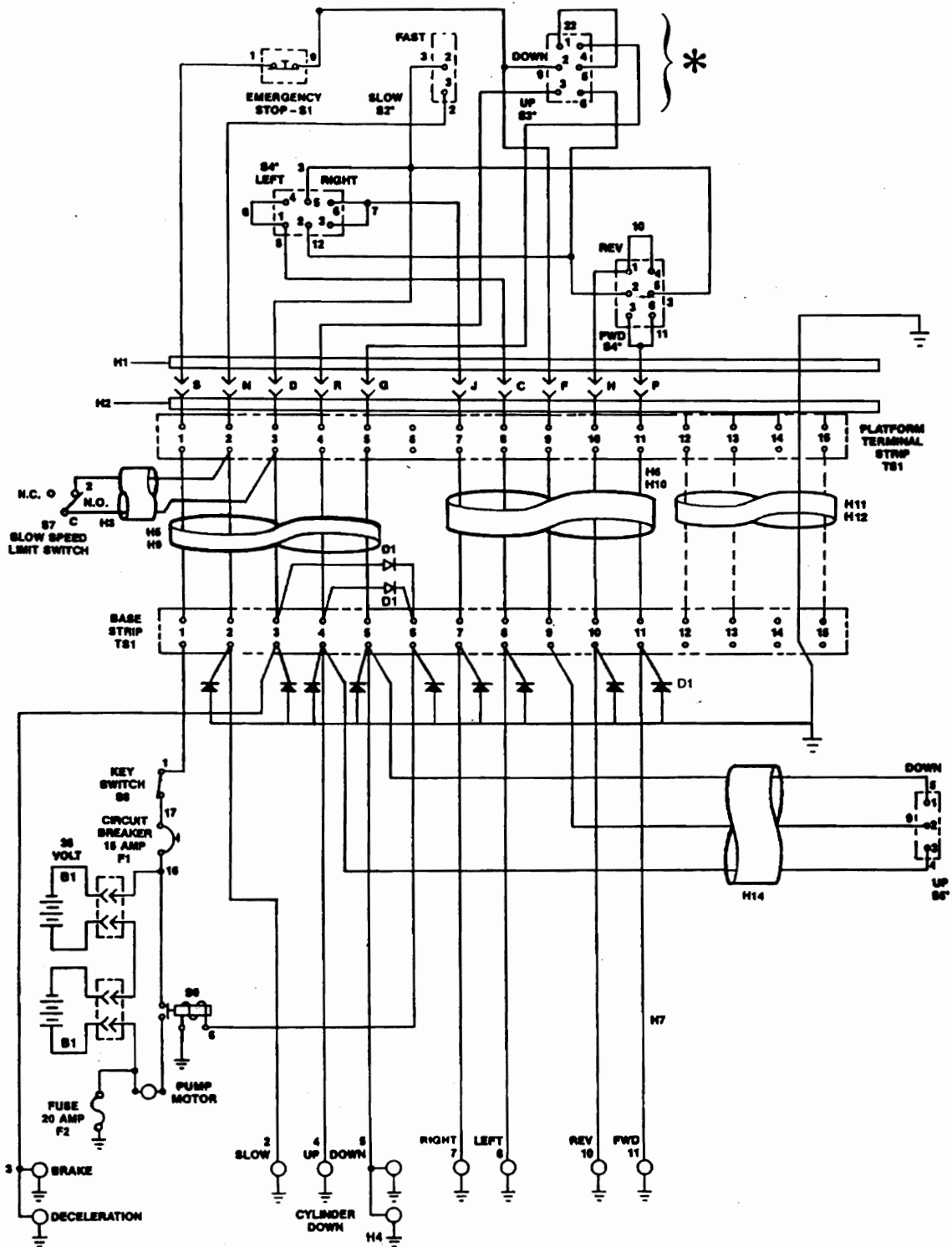


FIG. 2-1 Standard Series Electrical Schematic

TROUBLESHOOTING

HTE-MASTER WIRING DIAGRAM
 Standard Series W/Motion Switch
 1992 and Later

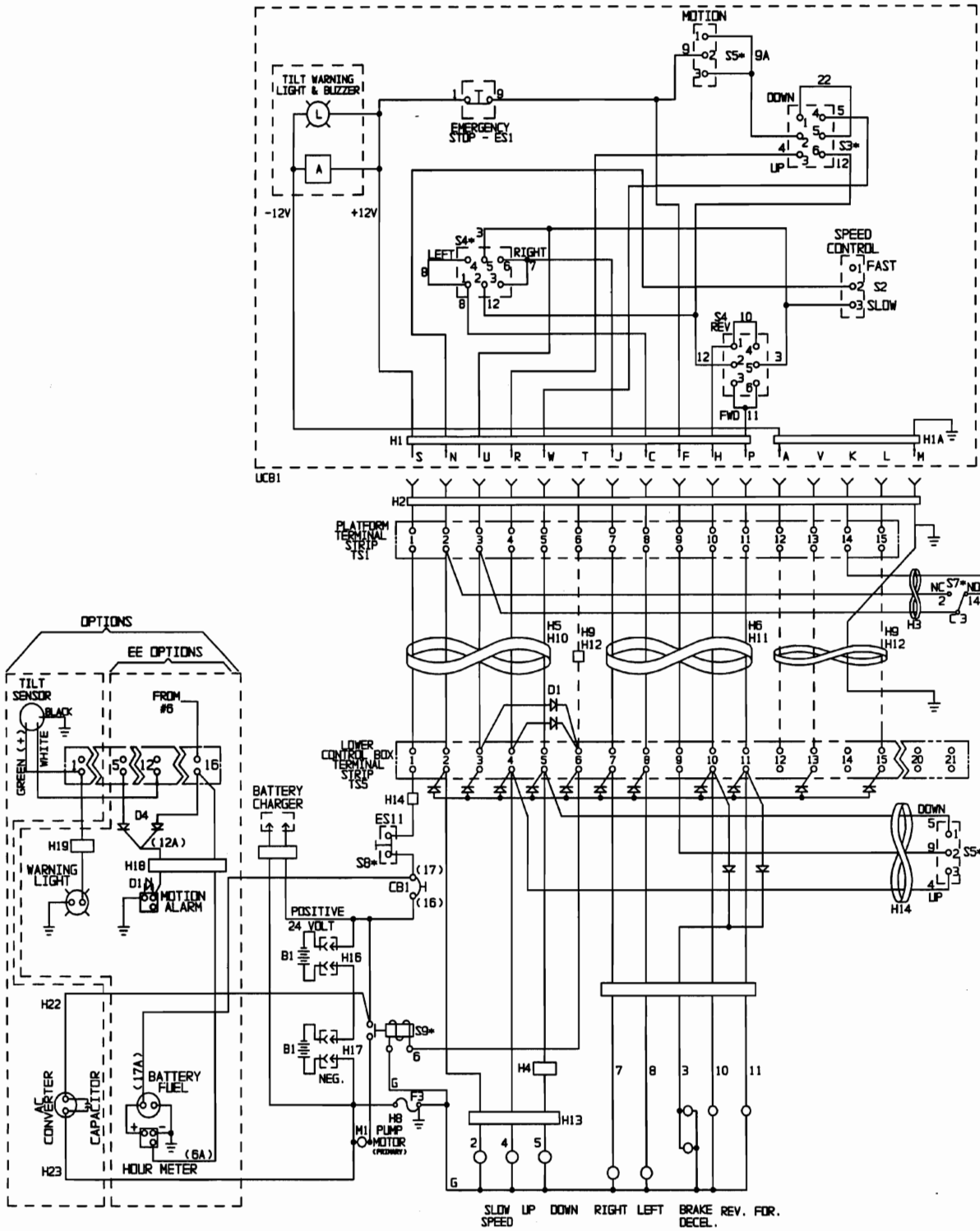
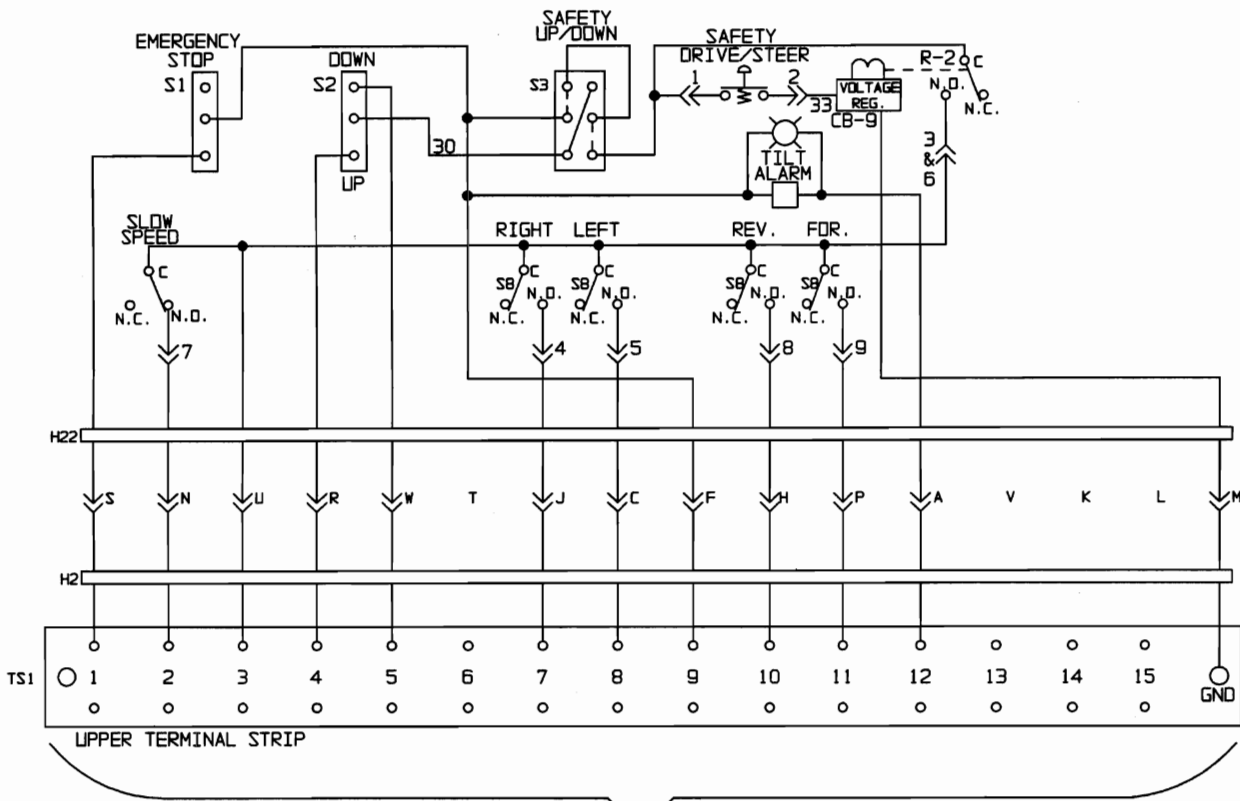


FIG. 2-2 Standard Series Electrical Schematic

TROUBLESHOOTING

HITE-MASTER WIRING DIAGRAM Standard Series Joystick

WIRING DIAGRAM
JOYSTICK CONTROL BDX - STANDARD DRIVE



WIRING IS NOT CHANGED FROM
UPPER TERMINAL STRIP TO BASE

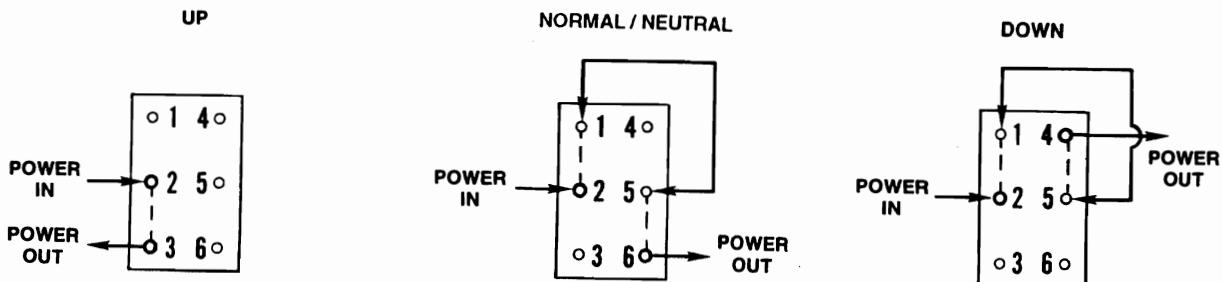
ART-198R1
BM11474

FIG. 2-3 Standard Series Electrical Schematic Joystick

TROUBLESHOOTING

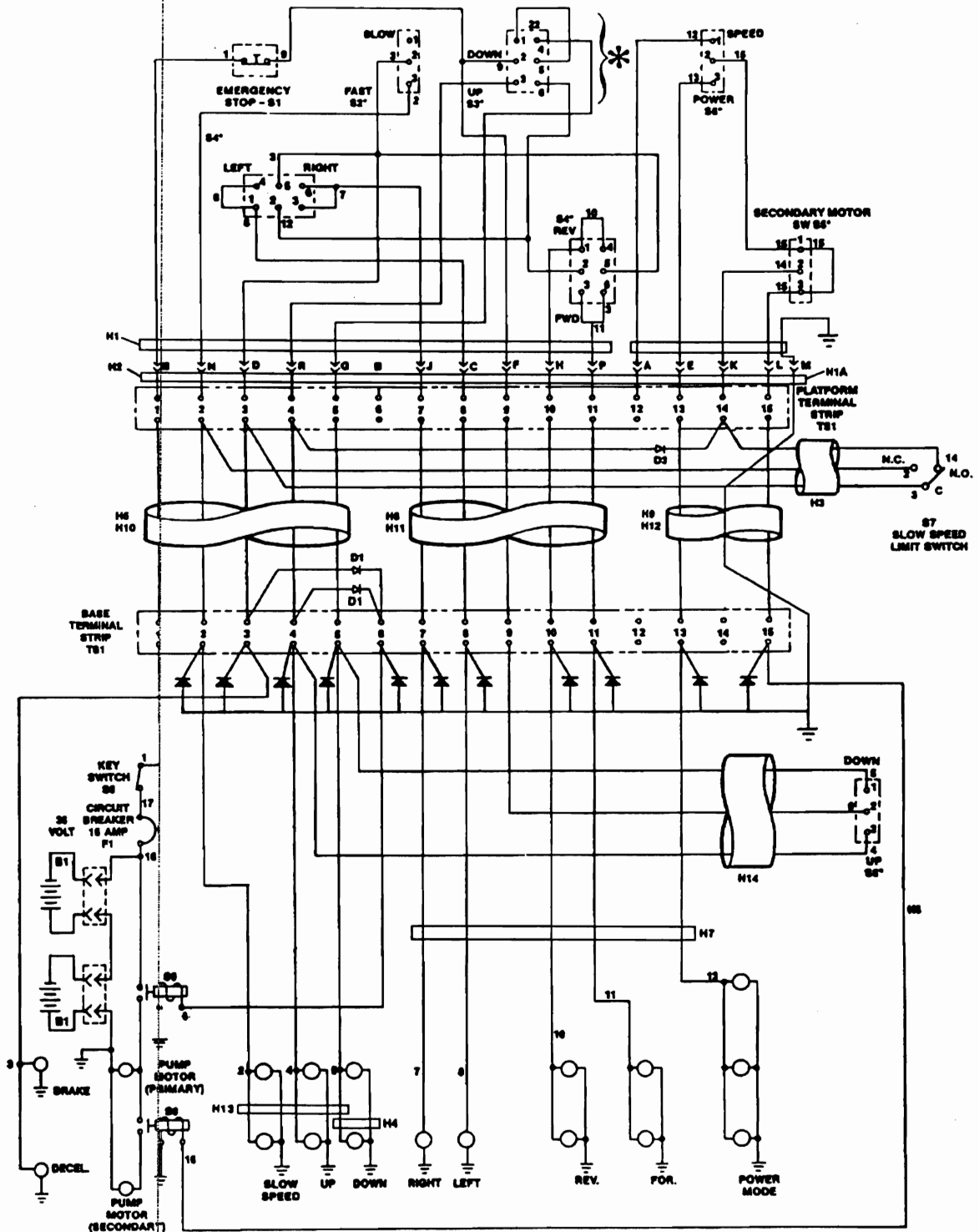
SYMBOL IDENTIFICATION FOR STANDARD SERIES

Symbol	Quantity	Part Number	Description
B1	6	5970	Battery 6 Volt
D1	11	6070	Diode Assembly 2 amp 600 volt PRV
F1	1	7235	15 amp Circuit Breaker
F2	1	7275	20 amp Fuse
H1	1	5982	Harness Control Box Pre-1992
	1	7657	Harness Control Box After 1-1-1992
H2	1	5983	Harness to Control Box Pre-1992
	1	7656	Harness to Control Box After 1-1-1992
H3	1	7070	Harness Limit Switch
H4	1	6787	Harness Down Valve
H5	1	6739	Beam Harness 19ft. #1-#5
H6	1	6740	Beam Harness 19ft. #7-#11
H7	1	6805	Harness Component Tray
H8	1	6809	Harness Crossover
H9	1	6742	Beam Harness 25ft. #1-#5
H10	1	6743	Beam Harness 25ft. #7-#11
H11	1	6741	Beam Harness 19ft. #12-#15
H12	1	6744	Beam Harness 25ft. #12-#15
H14	1	6764	Harness Component Tray
S1	1	7800	Emergency Stop Switch
S2	1	5630	Switch, Slow / Fast
S3	1	5979	Switch, Up / Down
S4	2	5694	Switch, Steering, Forward / Reverse
S5	1	5230	Switch, Lower Control Panel Up / Down
S7	1	6715	Switch, Slow Speed Limit
S8	1	5936	Key Switch with Keys
	Service	6117	Key Only
S9	1	6674	Motor Contactor
TS1	2	5991	Terminal Strip #1-#15
	2	7817	Terminal Strip Backing #1-#15
		6947	Terminal Strip #1-#22
		7970	Terminal Strip Backing #1-#22
UCB2	1	2107	Control Box Pre-1992
	1	4940	Control Box After 1-1-1992



TROUBLESHOOTING

HITE-MASTER WIRING DIAGRAM
High Torque Series Pre-1992



* 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

FIG. 2-4 High Torque Series Electrical Schematic

TROUBLESHOOTING

HITE-MASTER WIRING DIAGRAM
 High Torque Series W/Motion Switch
 1992 and Later

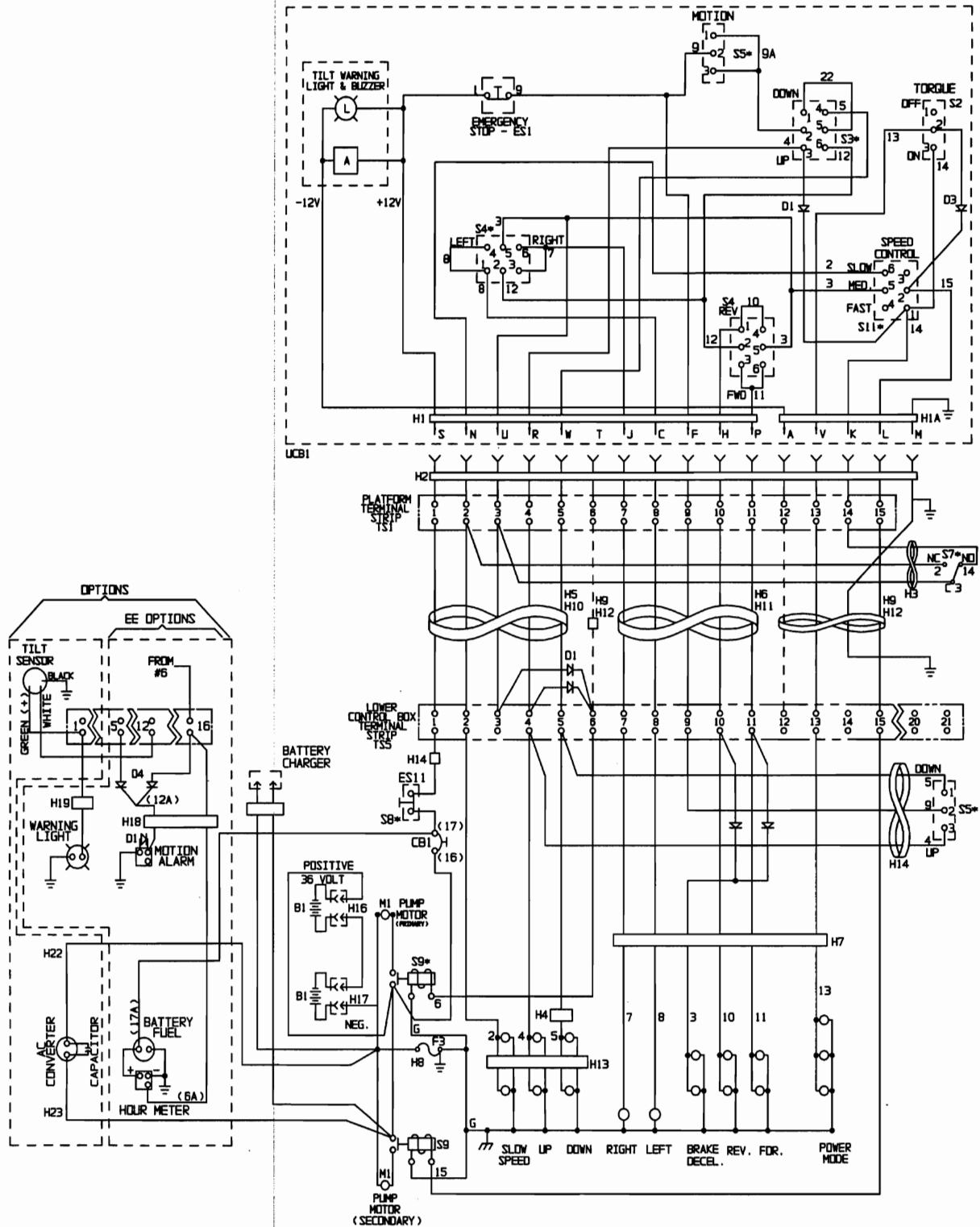


FIG. 2-5 High Torque Series Electrical Schematic

TRUBLESHOOTING

HITE-MASTER WIRING DIAGRAM High Torque Series Joystick

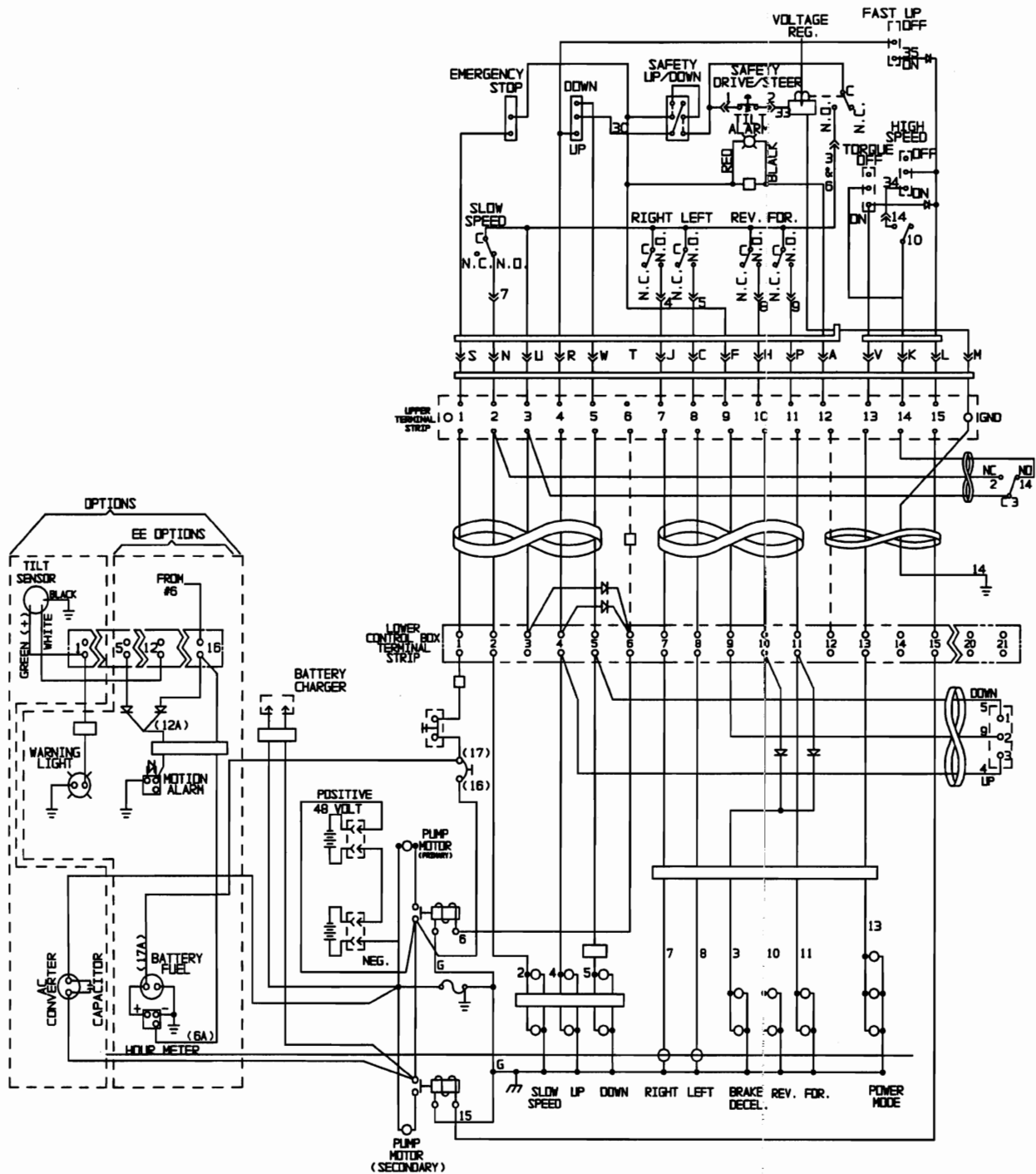
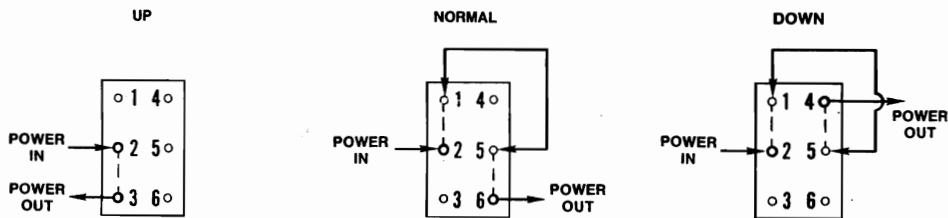


FIG. 2-6 High Torque Series Electrical Schematic Joystick

TROUBLESHOOTING

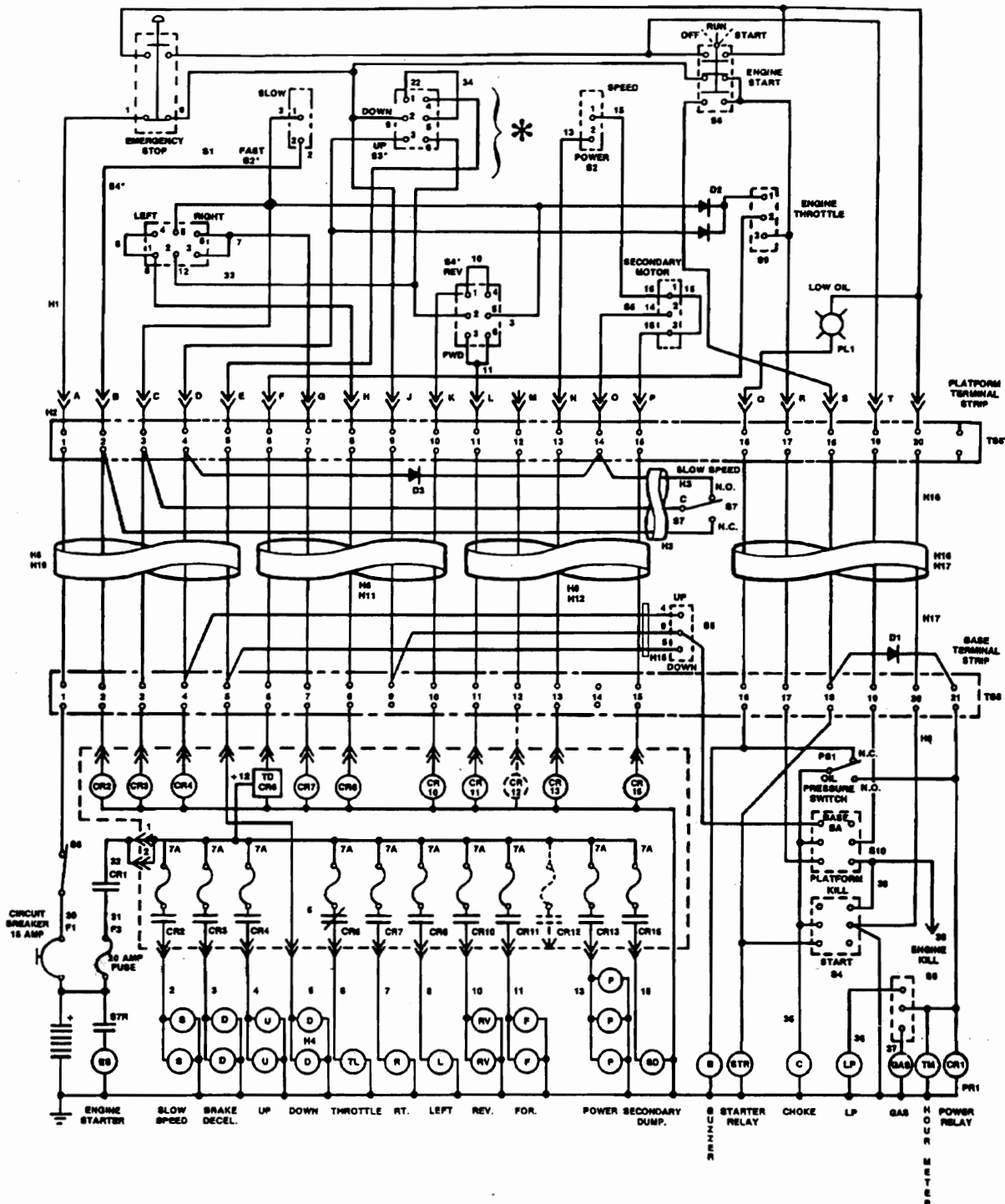
SYMBOL IDENTIFICATION FOR HIGH TORQUE

Symbol	Quantity	Part Number	Description
B1	6	5970	Battery 6 volt Deep Cycle
D1	13	6070	Diode Assembly 3 amp 600 volt PRV
D3	1	6241	Diode Assembly 3 amp 600 volt PRV
F1	1	7235	15 amp Circuit Breaker
F2	1	7275	20 amp Fuse
H1	1	5982	Harness Control Box Pre-1992
	1	7657	Harness Control Box After 1-1-1992
HA1	1	6296	Wire Set (HT Series) Pre-1992
	1	7658	Wire Set (HT Series) After 1-1-1992
H2	1	5983	Harness to Control Box Pre-1992
	1	7656	Harness to Control Box After 1-1-1992
H3	1	7070	Harness, Limit Switch
H4	1	6787	Harness, Down Valve
H5	1	6739	Beam Harness 19ft. #1-#5
H6	1	6740	Beam Harness 19ft #7-#11
H7	1	6765	Harness, Component Tray
H8	1	6763	Harness, Crossover
H9	1	6741	Beam Harness 19ft. #13-#15
H10	1	6742	Beam Harness 25ft. #1-#5
H11	1	6743	Beam Harness 25ft #7-#11
H12	1	6744	Beam Harness 25ft #13-#15
H13	1	6766	Harness, Component Tray
H14	1	6764	Harness, Component Tray Secondary
S1	1	7800	Emergency Stop Switch
S2	1	5630	Switch, Slow / Fast
S3	1	5979	Switch, Up / Down
S4	2	5694	Switch, Steering, Forward / Reverse
S5	2	5230	Switch, Lower Up / Down, Second Motor
S6	1	6234	Switch, Power / Speed
S7	1	6715	Switch, Slow Speed Limit
S8	1	5936	Key Switch
	Service	6117	Key Only
S9	2	6674	Motor Contactor
TS1	2	5991	Terminal Strip #1-#15
	2	7817	Terminal Strip Backing #1-#15
	2	6947	Terminal Strip #1-#22
	2	7970	Terminal Strip Backing #1-#22
UCB1	1	2992	Upper Control Box Pre-1992
	1	4920	Upper Control Box After 1-1-1992



TROUBLESHOOTING

HITE-MASTER WIRING DIAGRAM
Dual Fuel Series Pre-1992



* 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

FIG. 2-7 Dual Fuel Series Electrical Schematic

TROUBLESHOOTING

HITE-MASTER WIRING DIAGRAM
 Dual Fuel Series W/Motion Switch
 1992 and Later

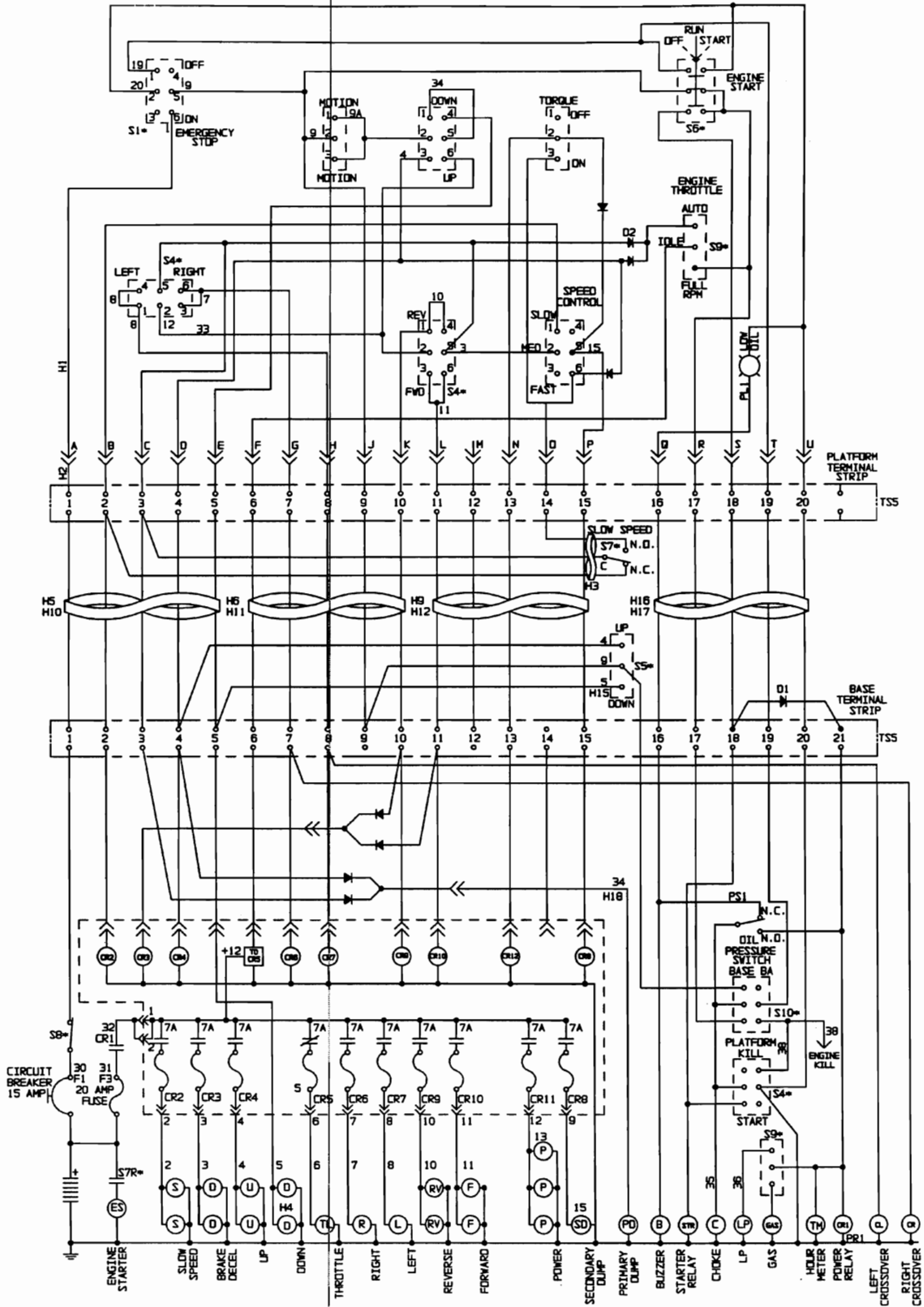


FIG. 2-8 Dual Fuel Series Electrical Schematic

TROUBLESHOOTING

HITE-MASTER WIRING DIAGRAM Dual Fuel Series Joystick

ART586 R1
BM13019
07/07/97

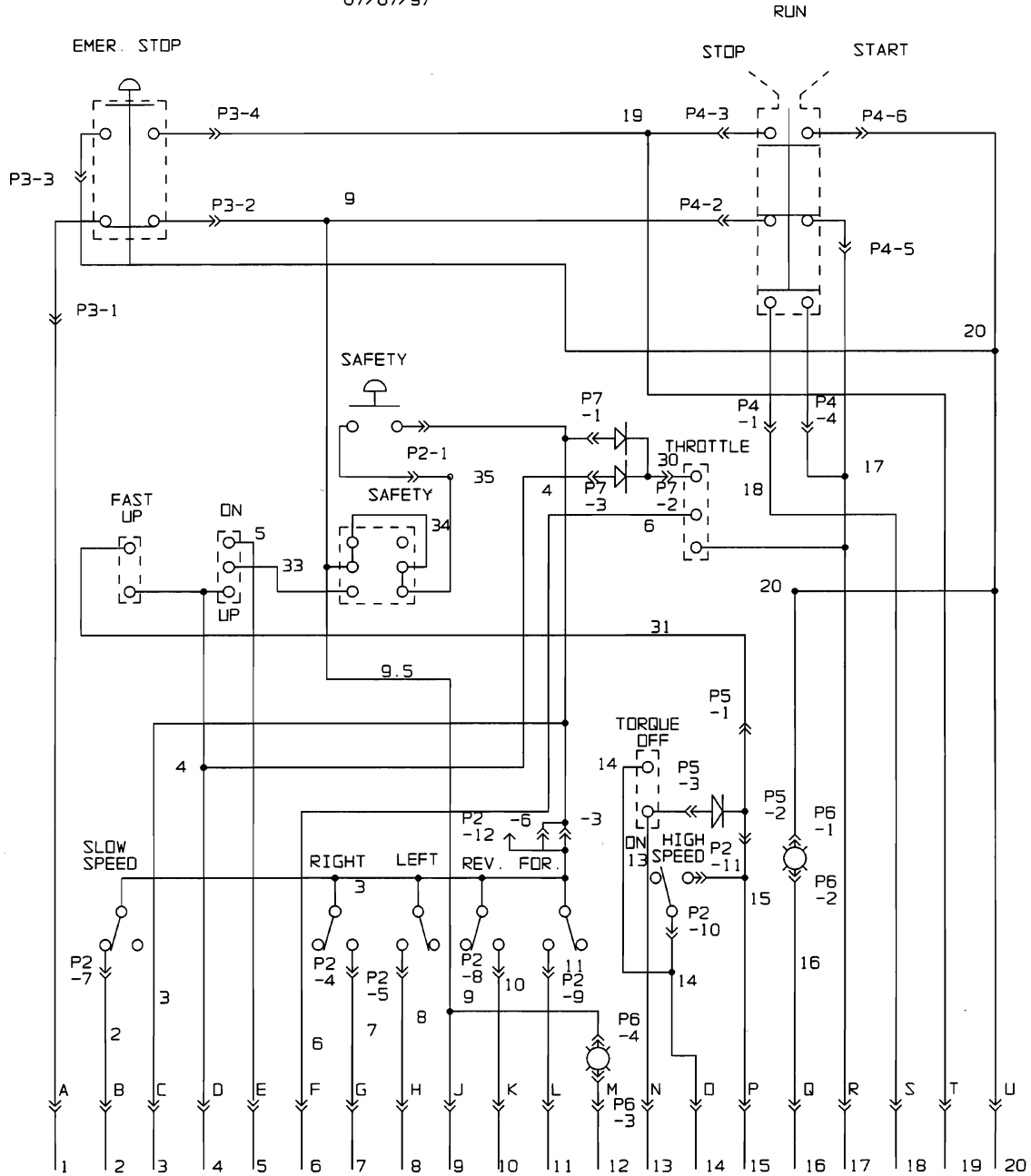


FIG. 2-9 Dual Fuel Series Electrical Schematic Joystick

TROUBLESHOOTING

SYMBOL IDENTIFICATION FOR DUAL FUEL

Symbol	Quantity	Part Number	Description
D1	1	6070	Diode Assembly 3 amp 600 volt
D2	1	6946	Diode Assembly 3 amp 600 volt
D3	1	6241	Diode Assembly 3 amp 600 volt
F1	1	7235	15 amp Circuit Breaker
F3	1	6908	20 amp Fuse
H1	1	8253	Harness, Control Box
H2	1	6882	Harness to Control Box
H3	1	7070	Harness, Limit Switch
H4	1	6787	Harness, Cylinder Down Valve
H5	1	6949	Beam Harness 19ft. #1-#5
H6	1	6950	Beam Harness 19ft. #6-#10
H7	1	6765	Harness, Comp. Tray Sec.Manifold
H8	1	6965	Harness, Base Engine Controls
H9	1	6951	Beam Harness 19ft #11-#15
H10	1	6954	Beam Harness 25ft. #1-#5
H11	1	6955	Beam Harness 25ft. #6-#10
H12	1	6956	Beam Harness 25ft. #11-#15
H13	1	6766	Harness, Comp. Tray Pri.Manifold
H14	1	6764	Harness Comp. Tray Base Controls
H15	1	6966	Harness, Lower Lift Switch
H16	1	6952	Beam Harness 19ft. #16-#20
H17	1	6957	Beam Harness 25ft. #16-#20
PL1	1	6906	Indicator Light
PR1	1	6889	Power Relay
PS1	1	6887	Oil Pressure Switch
STR	1	6979	Start Solenoid
S1	1	7800	Emergency Stop Switch
	Service	8082	Contact Block N.O.
	Service	8083	Contact Block N.C.
S2	1	5630	Switch, Slow / Fast
S3	1	5979	Switch, Up / Down
S4	2	5694	Switch, Steering, Forward/Reverse
S5	2	5230	Switch, Motion, Lower Up / Down
S6	1	8075	Switch, Selector 3 Position
	1	8076	Base Mounting W/2 Contact Blocks
	1	8082	Contact Block N.O.
S7	1	6715	Switch, Slow Speed Limit
S8	1	5936	Key Switch
	Service	6117	Key Only
S9	1	6905	Switch, Fuel Selector
S10	1	5275	Switch, Platform / Base
TS5	2	6947	Terminal Strip #1 - #22
	2	7970	Terminal Strip Backing #1 -

NOTES:

HITE-MASTER HYDRAULIC DIAGRAM
Standard Series

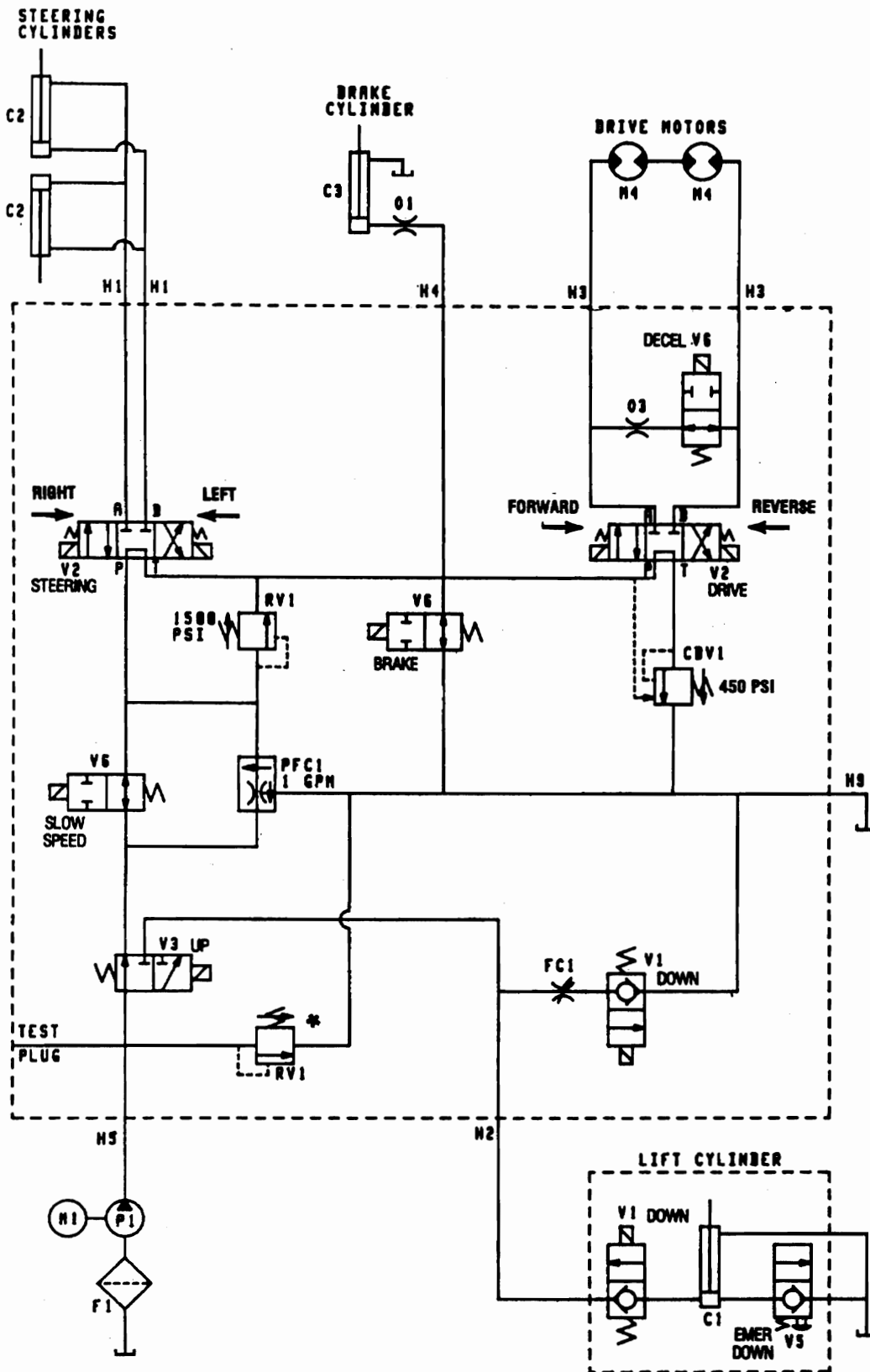


FIG. 2-10 Standard Series Hydraulic Schematic

TROUBLESHOOTING

HITE-MASTER HYDRAULIC DIAGRAM High Torque Series

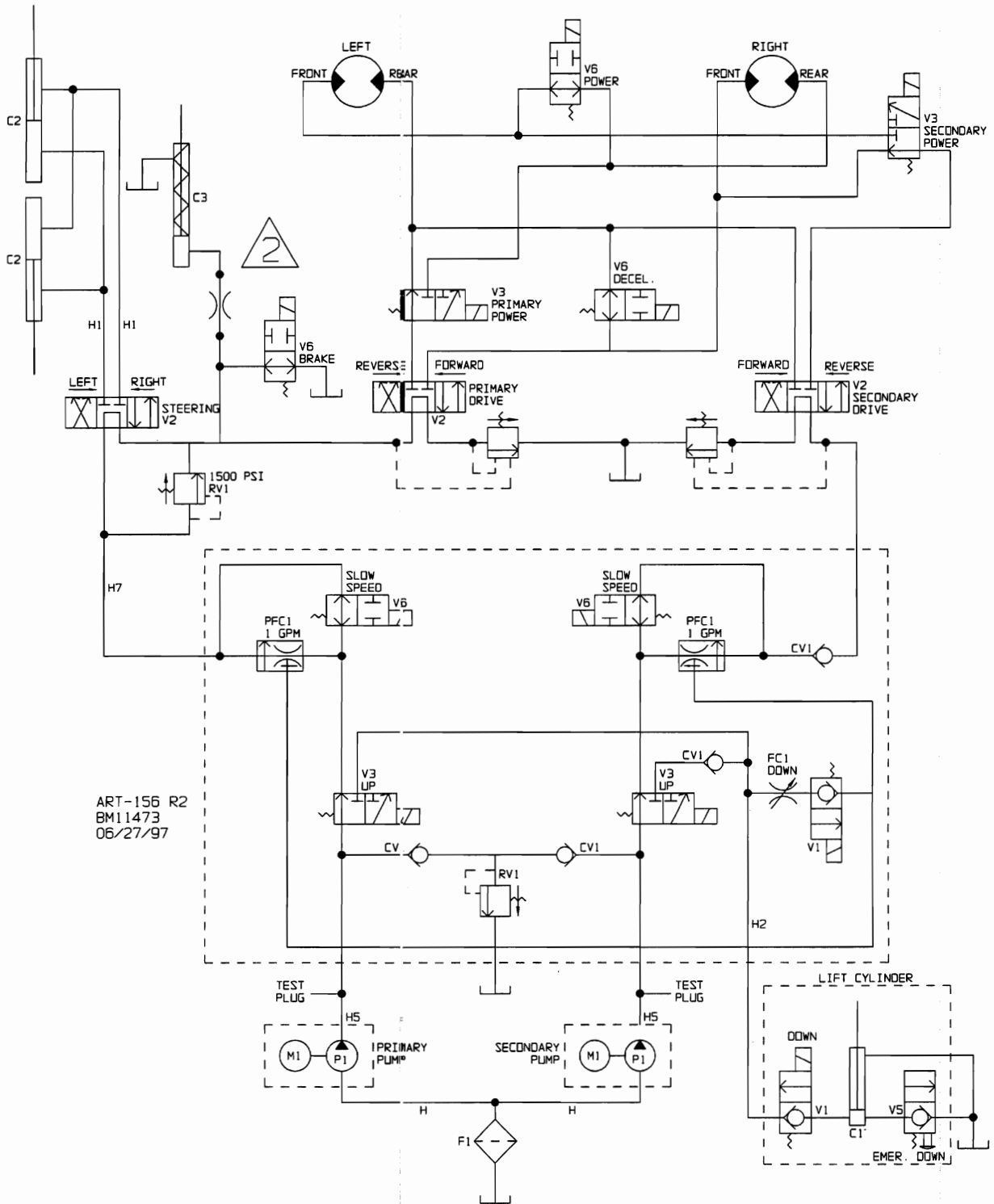


FIG. 2-11 High Torque Series Hydraulic Schematic

TROUBLESHOOTING

HITE-MASTER HYDRAULIC DIAGRAM
High Torque Series

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 ASSYMBLY
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	2	HOSE, DRIVE
H4	6722	1	HOSE, BRAKE
H5	6723	1	HOSE
H7	5999	2	HOSE
H8	6225	2	HOSE
H9	5995	1	HOSE
M1	6661	2	36 DVC MOTOR
M4	6660P	2	DRIVE MOTOR (HYDRAULIC)
MA1	3595	1	PRIMARY MANIFOLD
MA4	3480	1	SECONDARY MANIFOLD PT.
O1	7044	1	DRIFICE, FITTING ASSEMBLY
O4	2975	1	DRIFICE, FITTING (BRASS)
P1	6662	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	6803		COIL ONLY 36 VDC
V2	7976	3	4-WAY 3-POSITION VALVE ONLY
V2	6161	SERV	SPRING AND "O" RING KIT
V2	6803		COIL ONLY 36 VDC
V3	6976	4	3-WAY 2-POSITION VALVE ONLY
V3	5476	SERV	"O" RING KIT
V3	6803		COIL ONLY 36 VDC
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	6803		COIL ONLY 36 VDC

ART-156 R2
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MODEL	PRESSURE RELEASE VALVE SETTING	LIFT CAPACITY
1948	1,800 PSI	1,500#
1948HT	1,800 PSI	1,500#
2548	2,000 PSI	1,000#
2548HT	2,000 PSI	1,000#
1958	2,150 PSI	1,750#
1958HT	2,150 PSI	1,750#
2558	2,250 PSI	1,250#
2558HT	2,250 PSI	1,250#

FIG. 2-11 High Torque Series Hydraulic Schematic

TROUBLESHOOTING

HITE-MASTER HYDRAULIC DIAGRAM

Dual Fuel Series

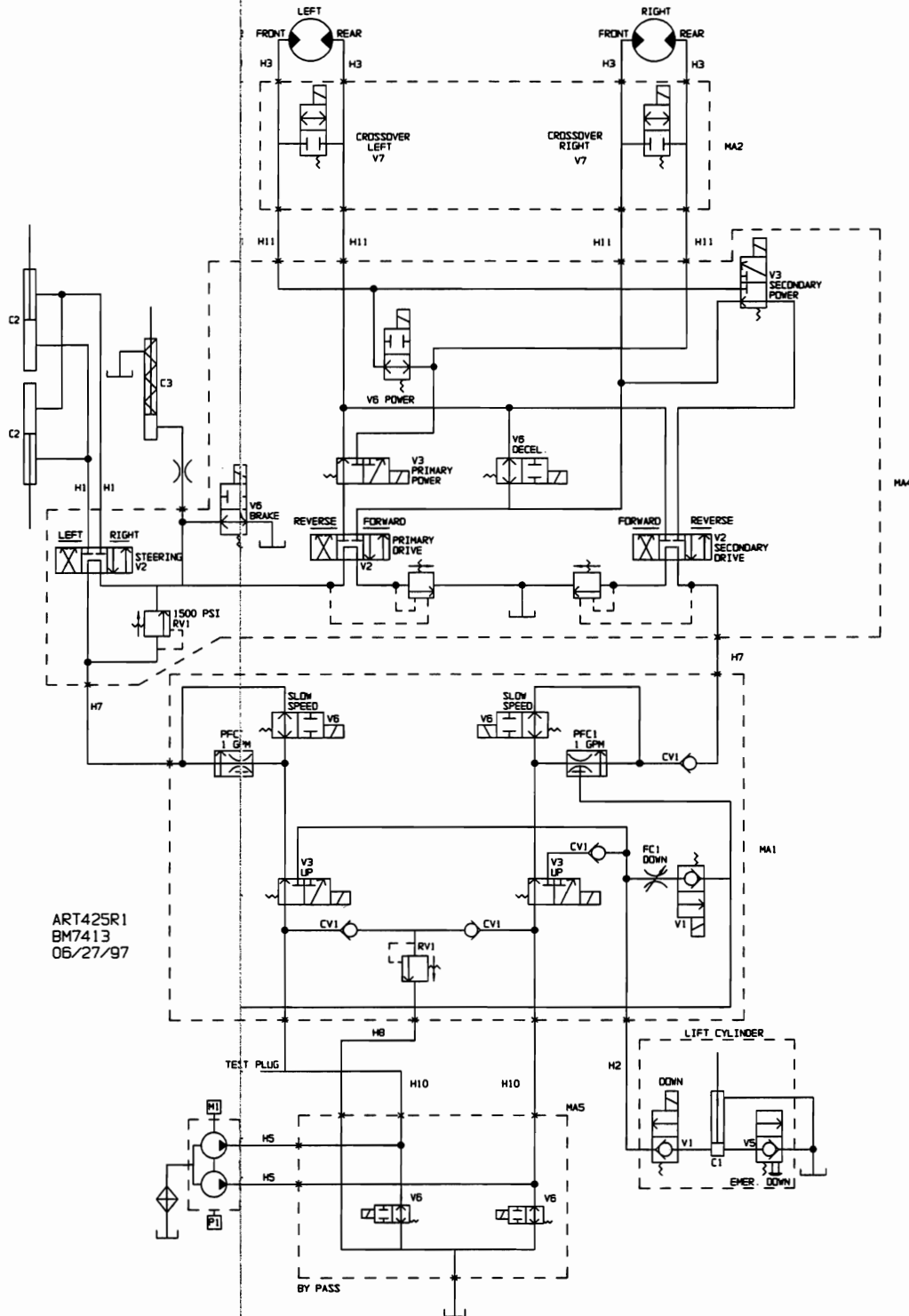


FIG. 2-12 Dual Fuel Series Hydraulic Schematic

TROUBLESHOOTING

HITE MASTER HYDRAULIC DIAGRAM Dual Fuel Series

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 CONTRDL
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
D1	7044	1	DRIFICE, FITTING ASSEMBLY
D4	2975	1	DRIFICE, 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	MANJAL 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		VALVE 2 WAY N.C. SPOOL

MODEL	PRESSURE RELEASE VALVE SETTING	LIFT CAPACITY
1948D	2,150 PSI	1,750#
2558D	2,250 PSI	1,250#

ART425R1
BM7413
06/27/97

FIG. 2-12 Dual Fuel Series Hydraulic Schematic

TROUBLESHOOTING

HITE-MASTER

Standard Series

Troubleshooting Flow Chart

TROUBLESHOOTING

SYMBOL IDENTIFICATION



BEGINNING OR END



DECISION



PROCESS



CONNECTOR



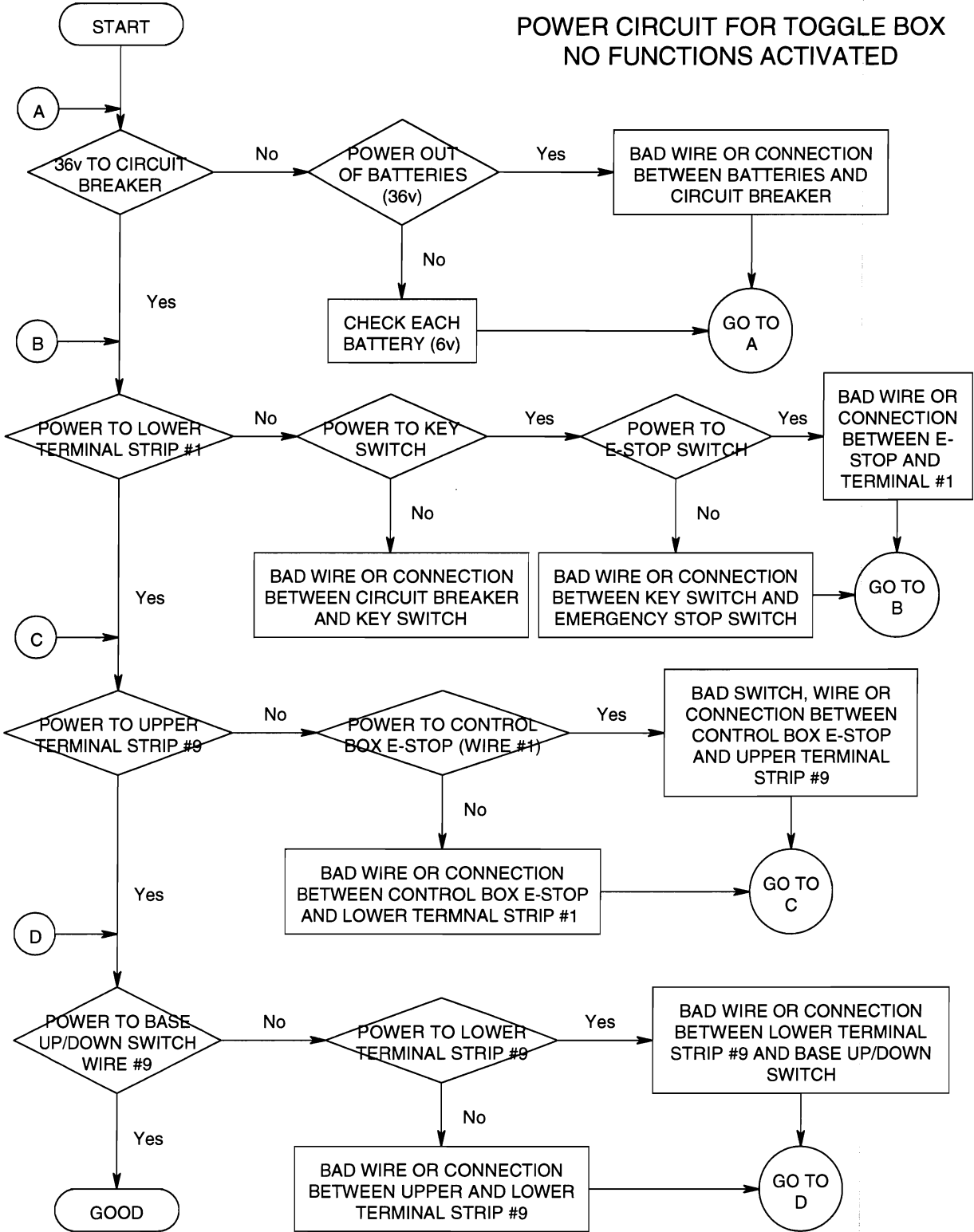
DIRECTION ARROW



PAGE CONNECTOR

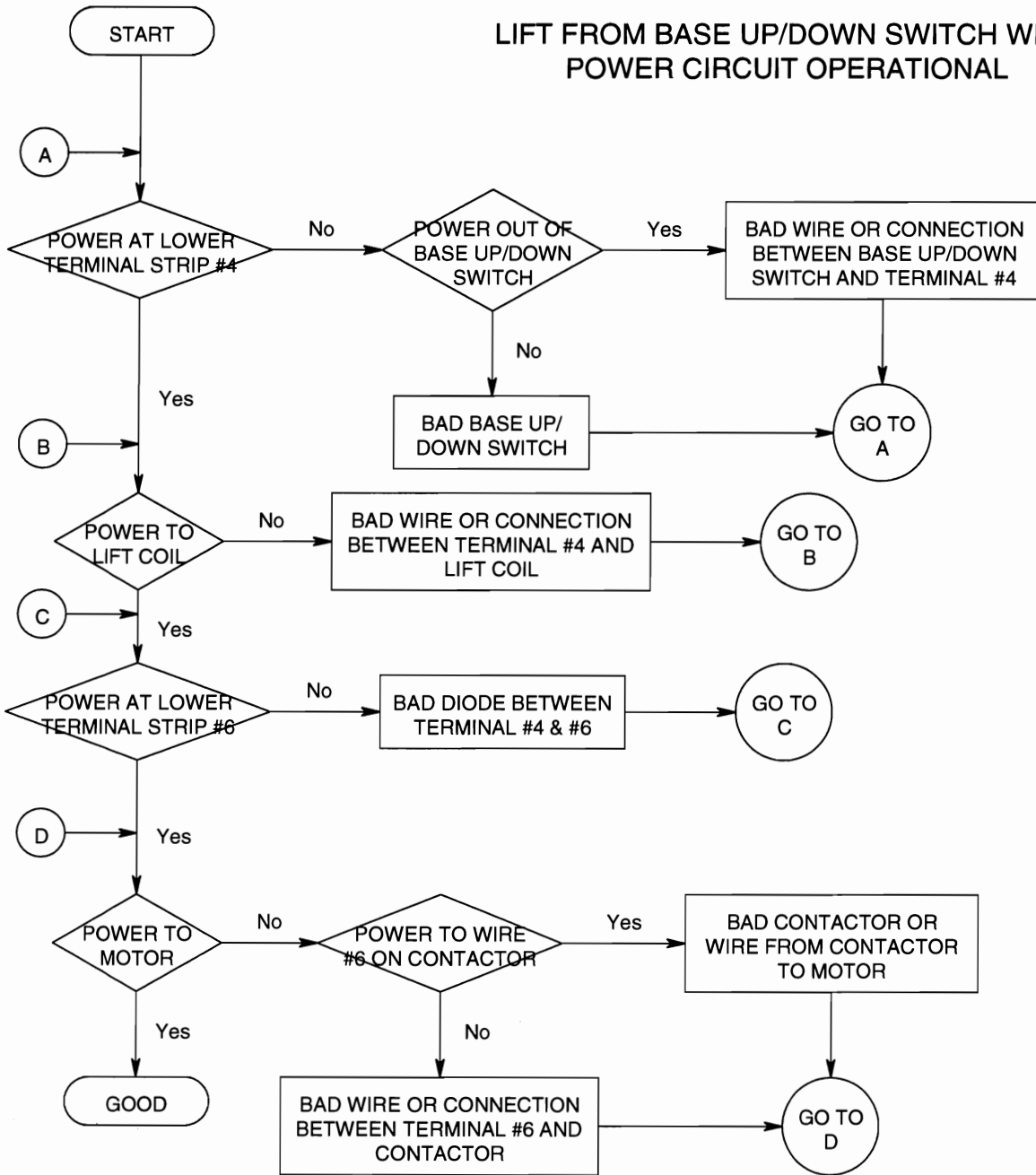
TROUBLESHOOTING

POWER CIRCUIT FOR TOGGLE BOX NO FUNCTIONS ACTIVATED



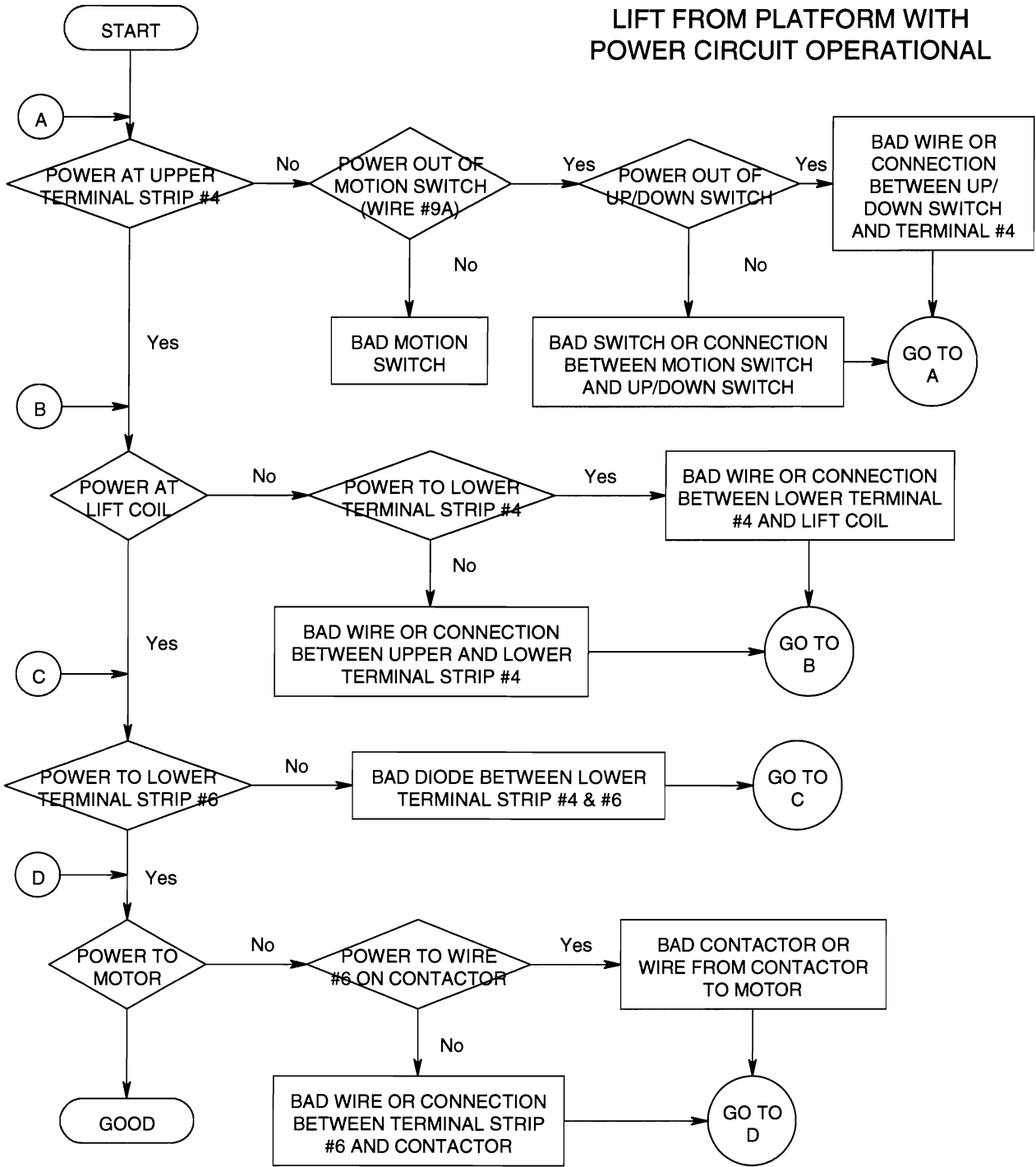
TROUBLESHOOTING

LIFT FROM BASE UP/DOWN SWITCH WITH POWER CIRCUIT OPERATIONAL



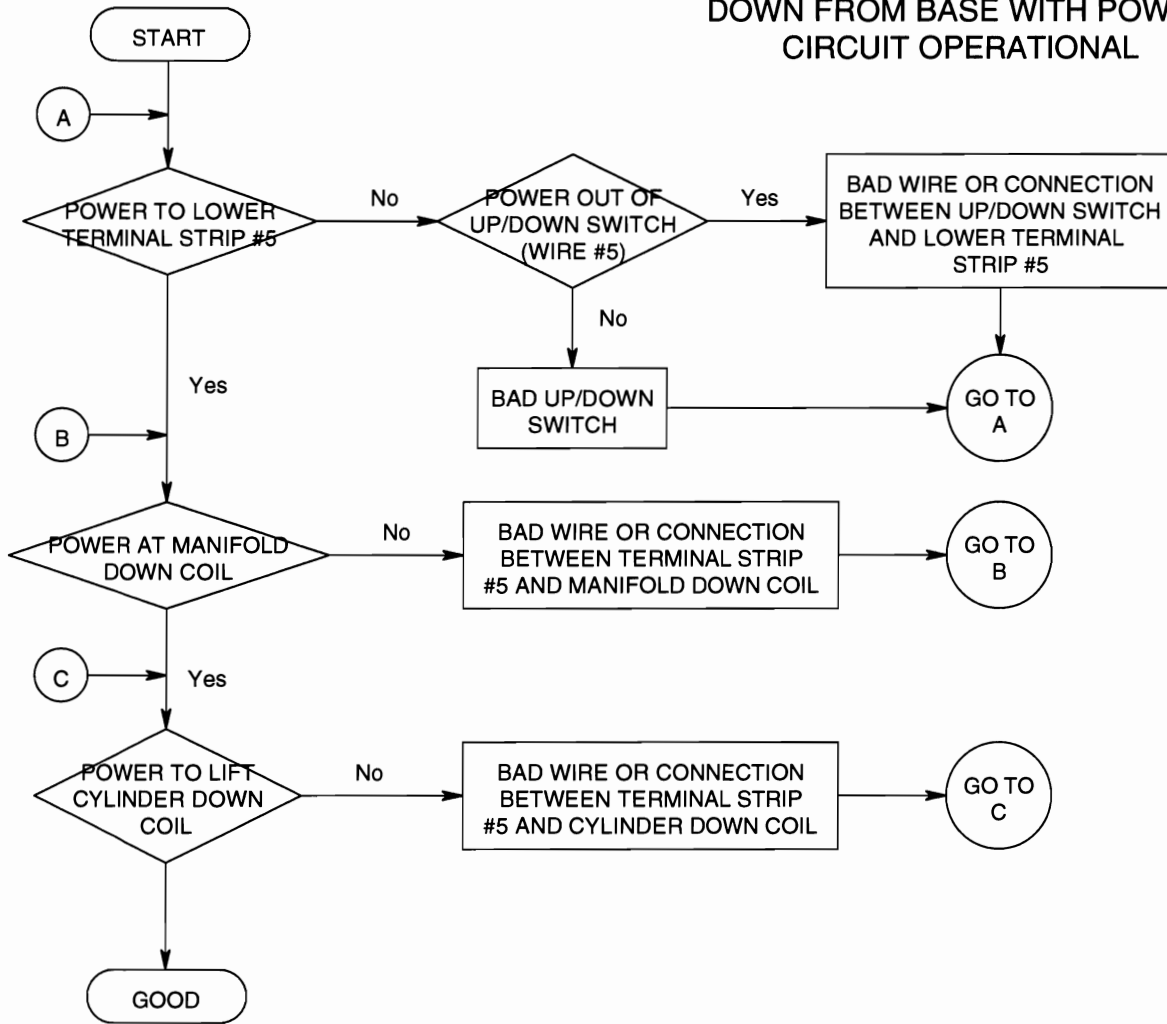
TROUBLESHOOTING

LIFT FROM PLATFORM WITH POWER CIRCUIT OPERATIONAL



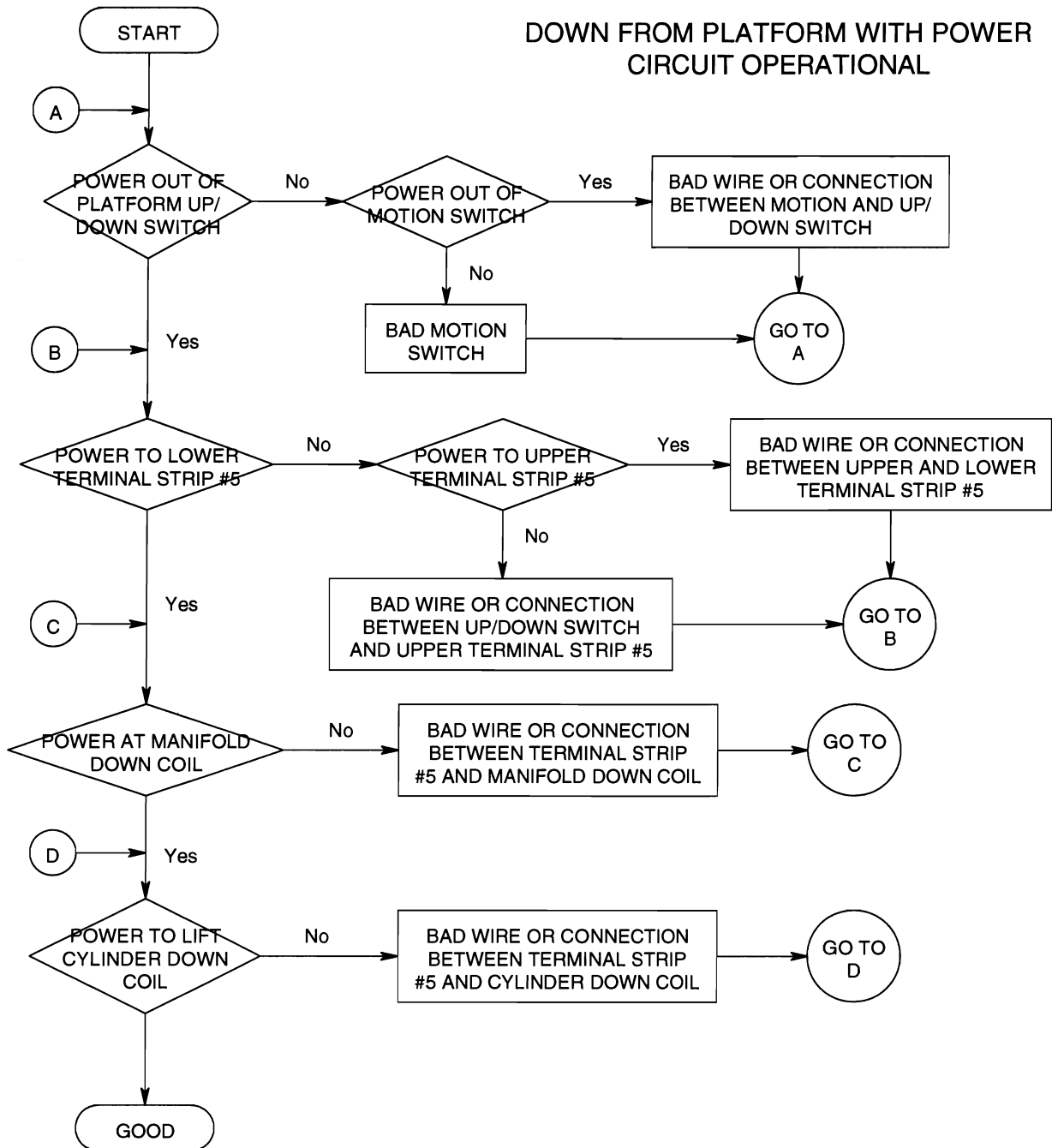
TROUBLESHOOTING

DOWN FROM BASE WITH POWER CIRCUIT OPERATIONAL



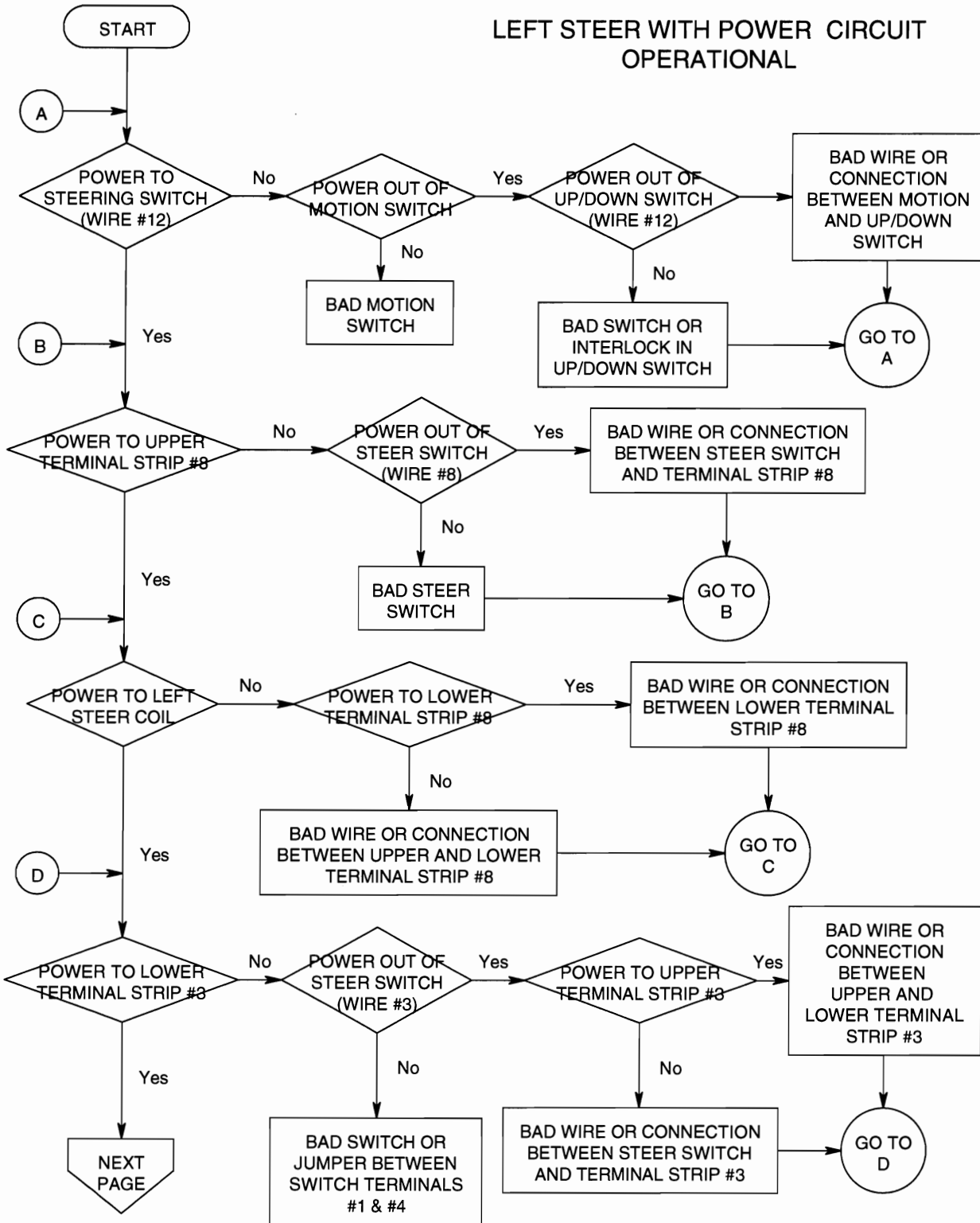
TROUBLESHOOTING

DOWN FROM PLATFORM WITH POWER CIRCUIT OPERATIONAL

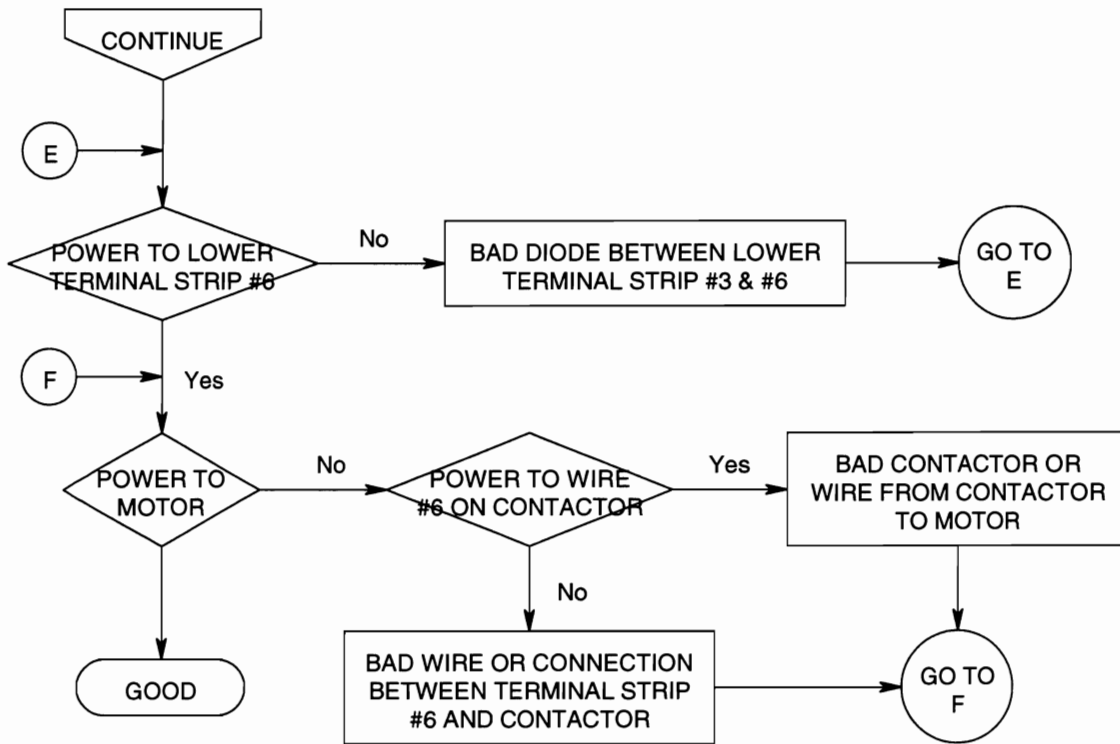


TROUBLESHOOTING

LEFT STEER WITH POWER CIRCUIT OPERATIONAL

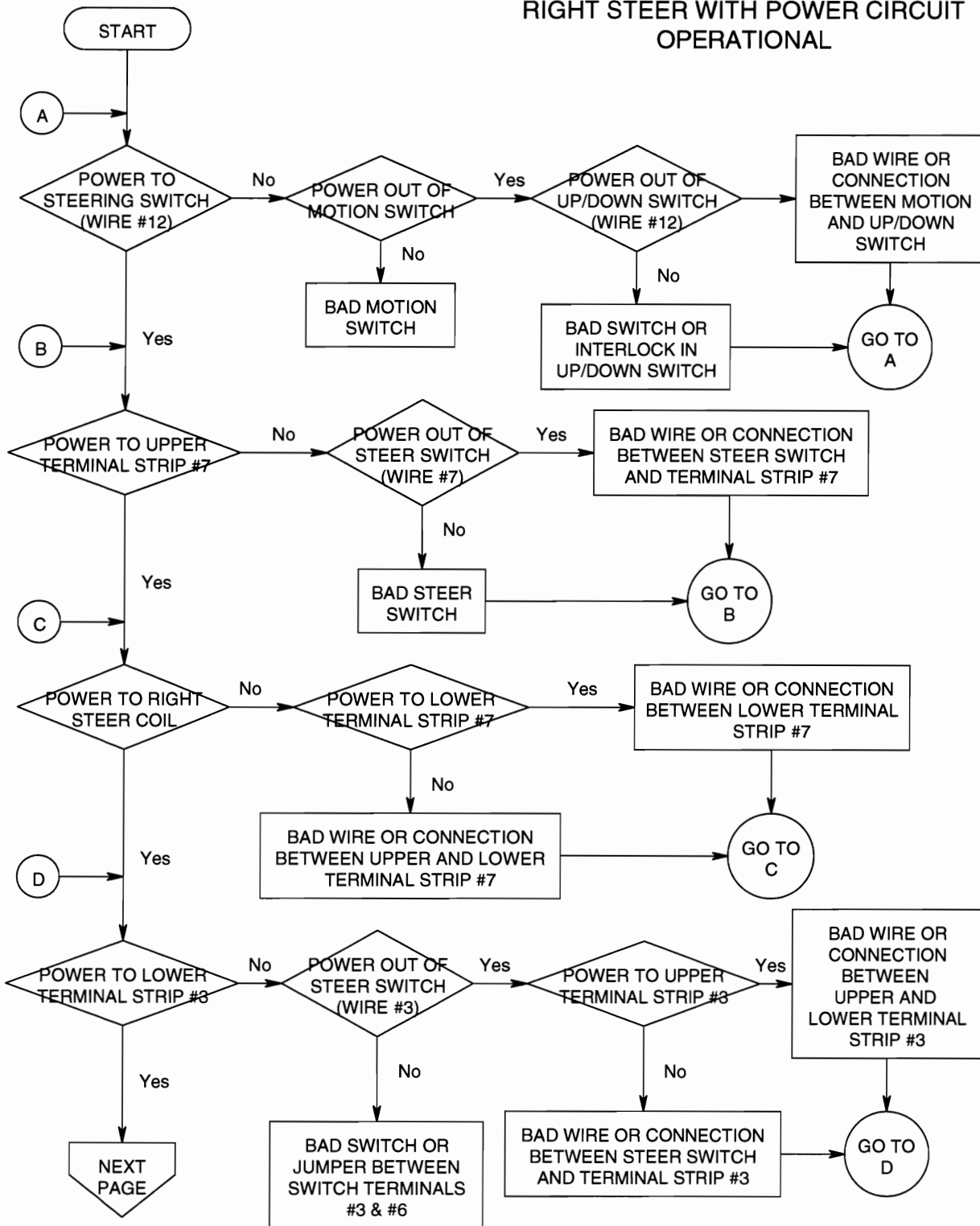


TROUBLESHOOTING

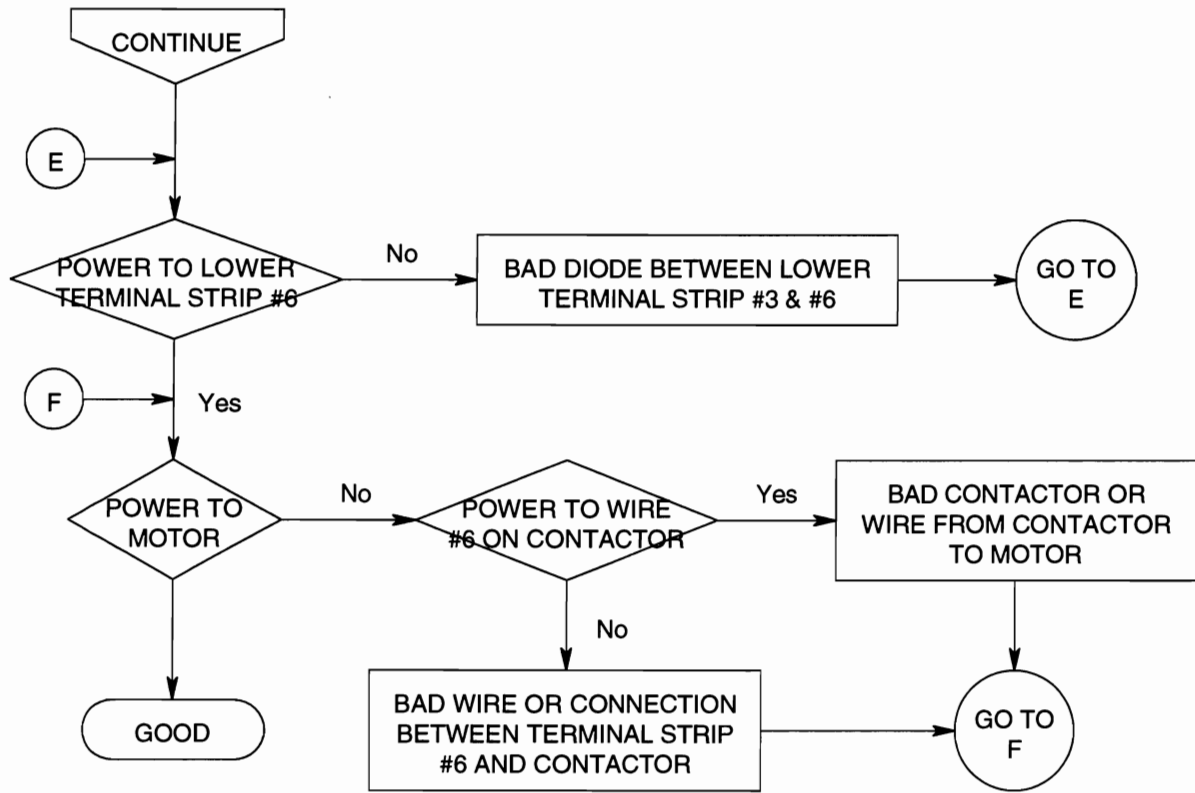


TROUBLESHOOTING

RIGHT STEER WITH POWER CIRCUIT OPERATIONAL

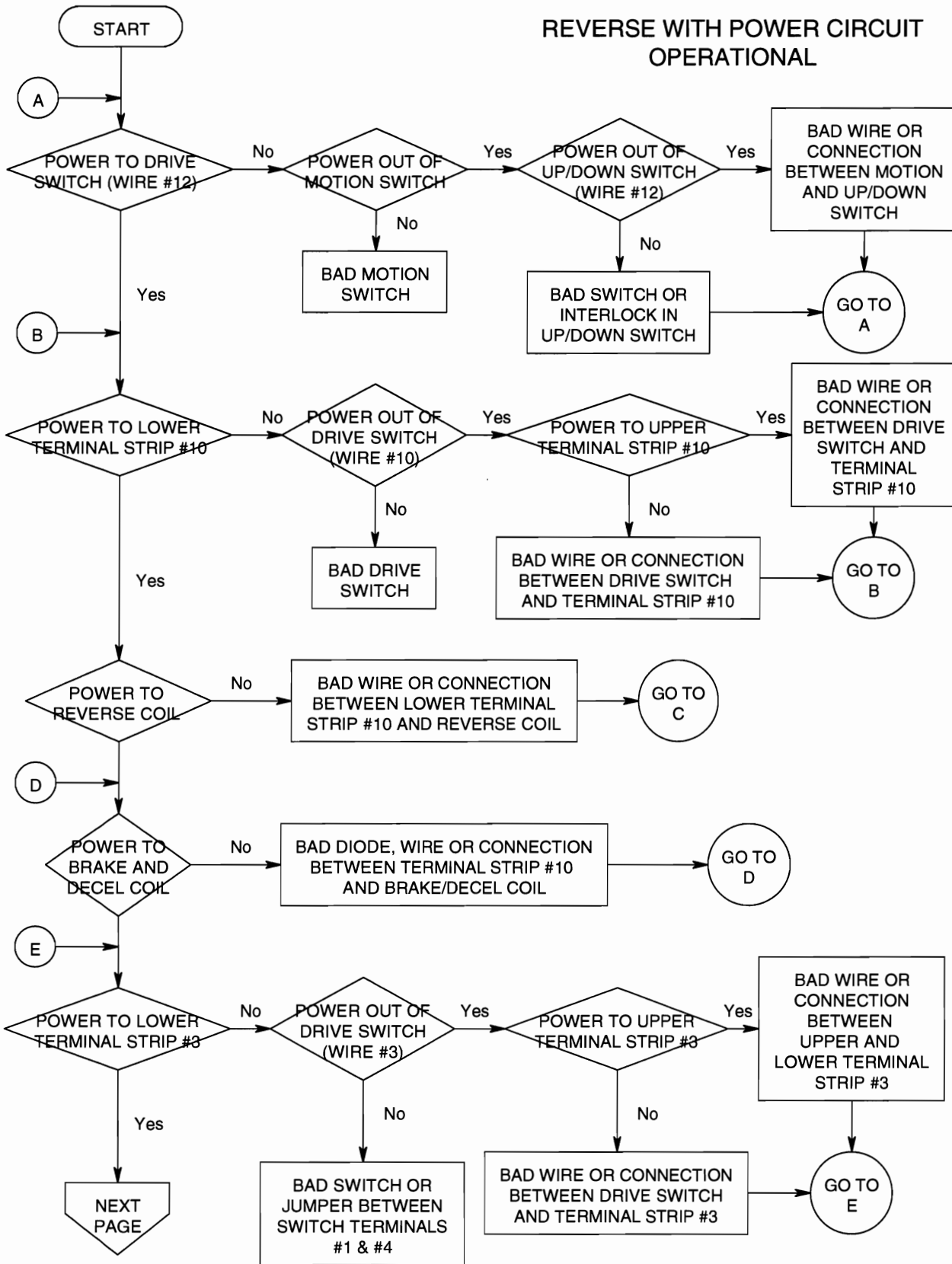


TROUBLESHOOTING

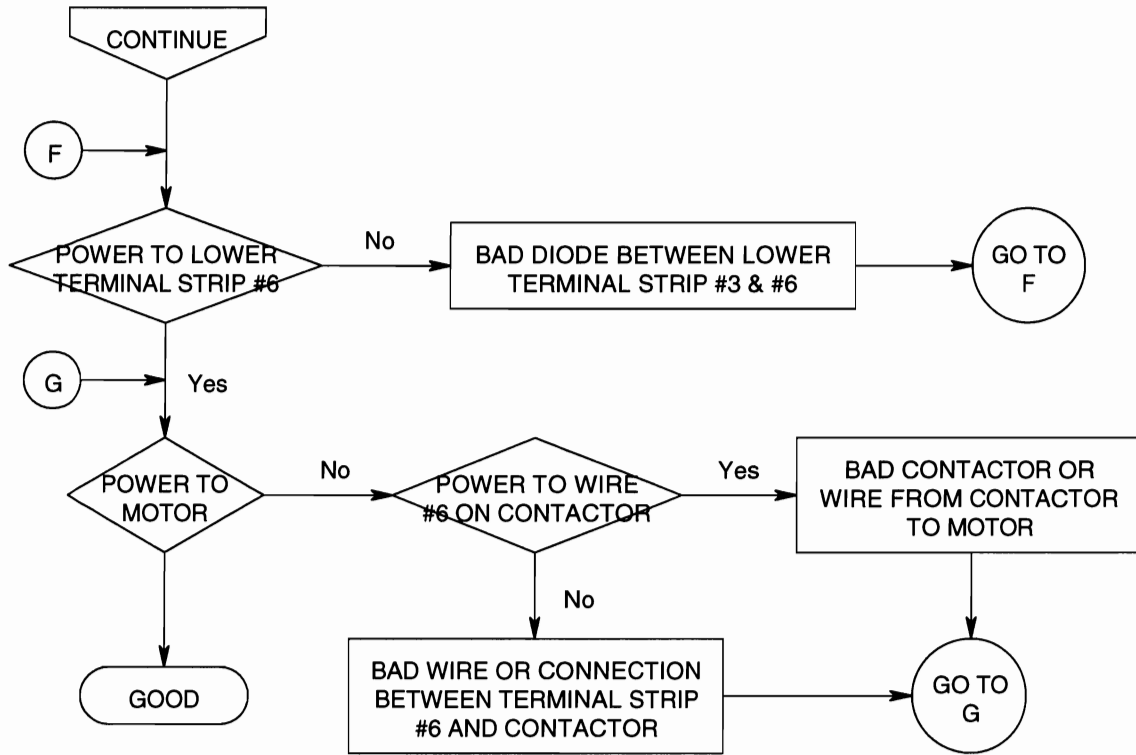


TROUBLESHOOTING

REVERSE WITH POWER CIRCUIT OPERATIONAL

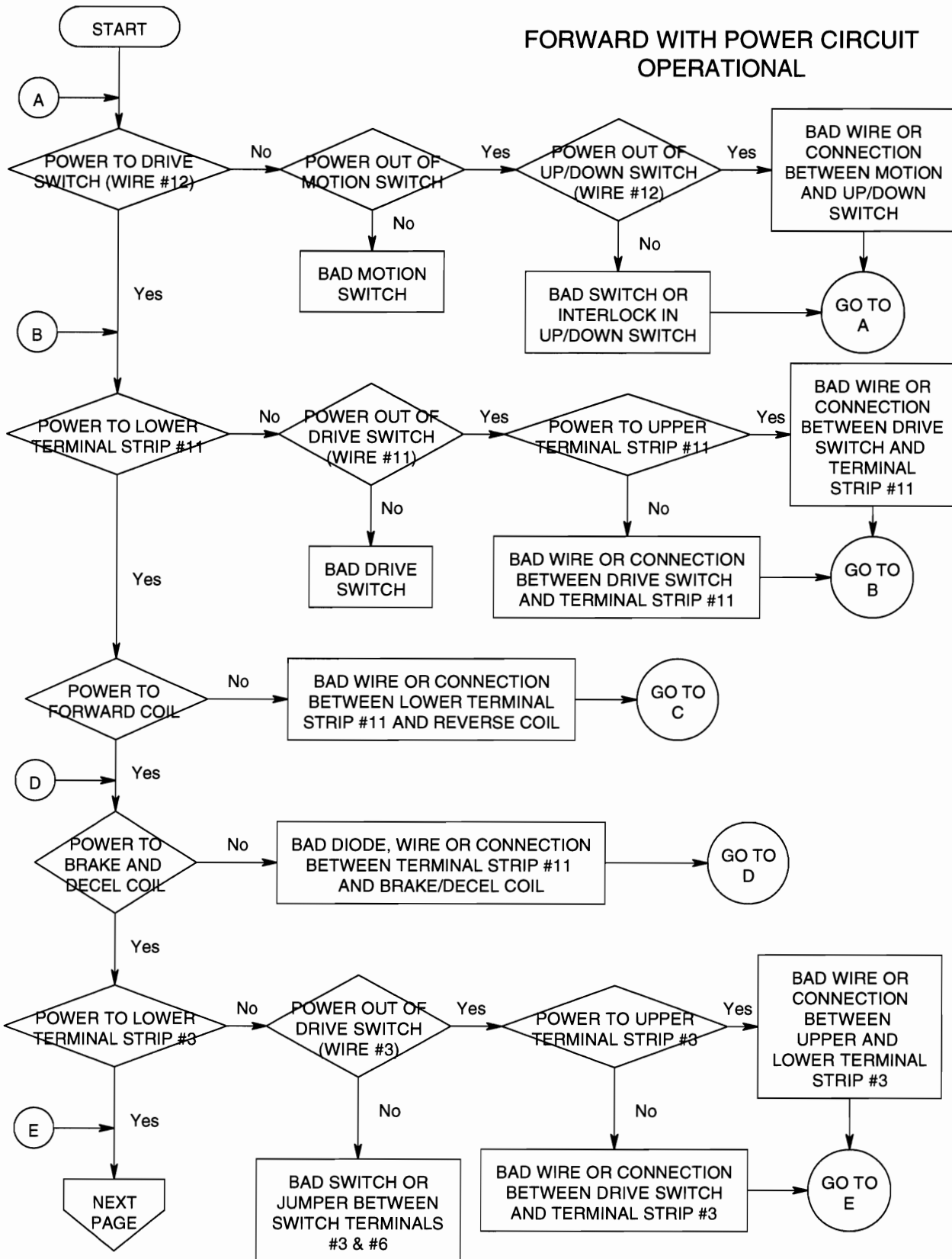


TROUBLESHOOTING

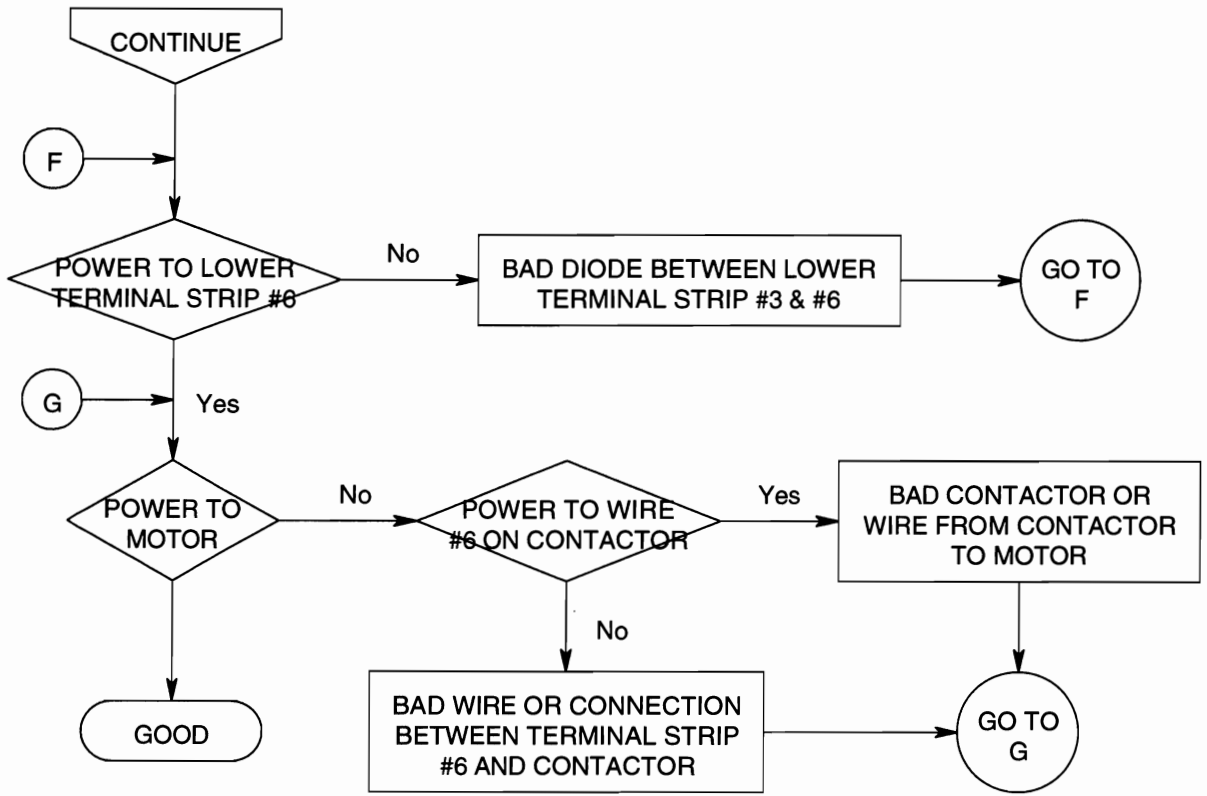


TROUBLESHOOTING

FORWARD WITH POWER CIRCUIT OPERATIONAL

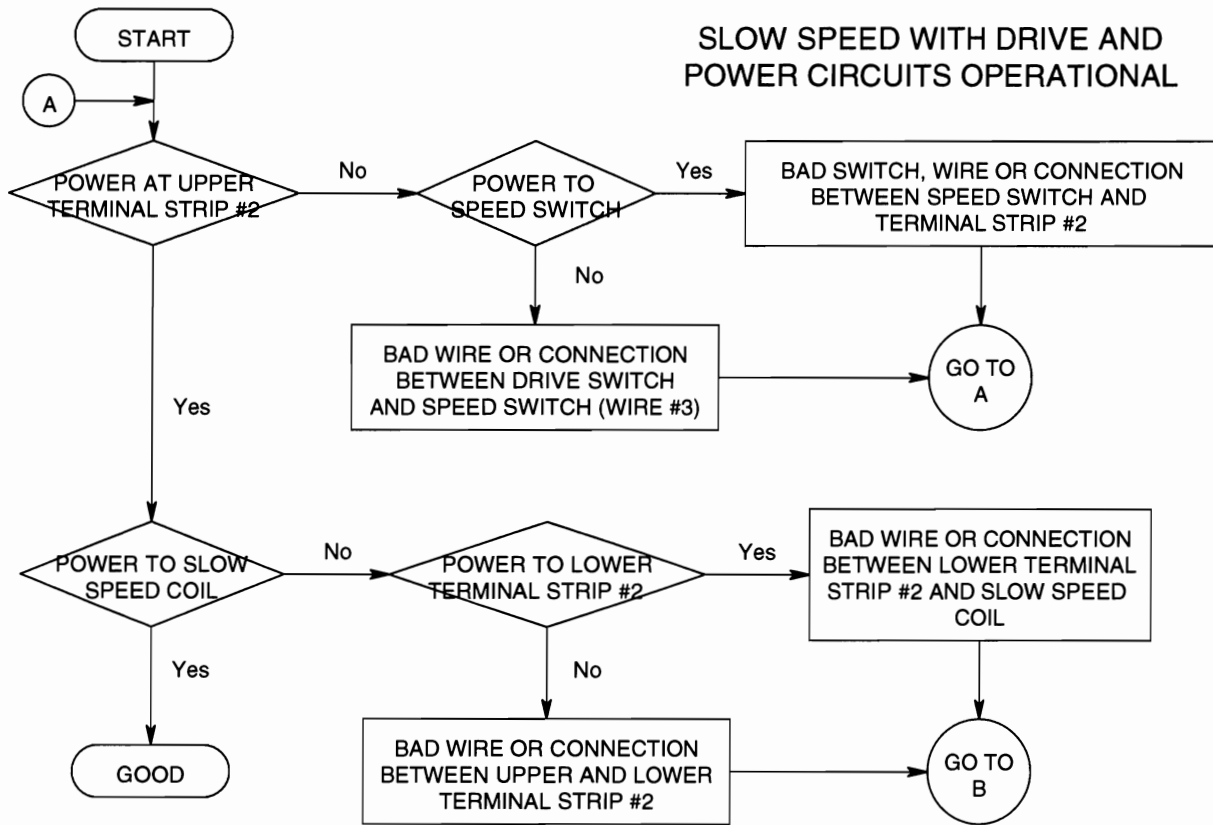


TROUBLESHOOTING



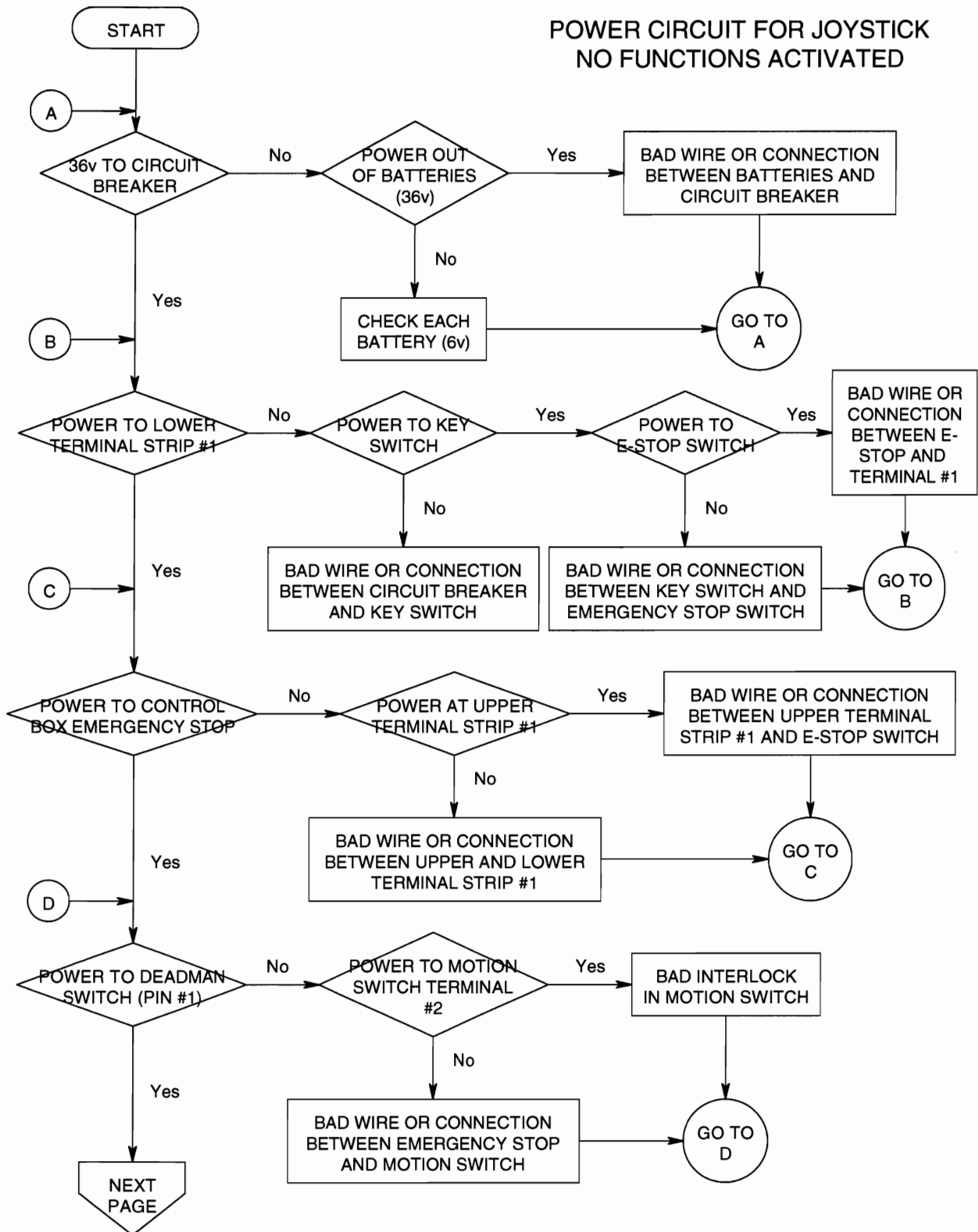
TROUBLESHOOTING

SLOW SPEED WITH DRIVE AND POWER CIRCUITS OPERATIONAL

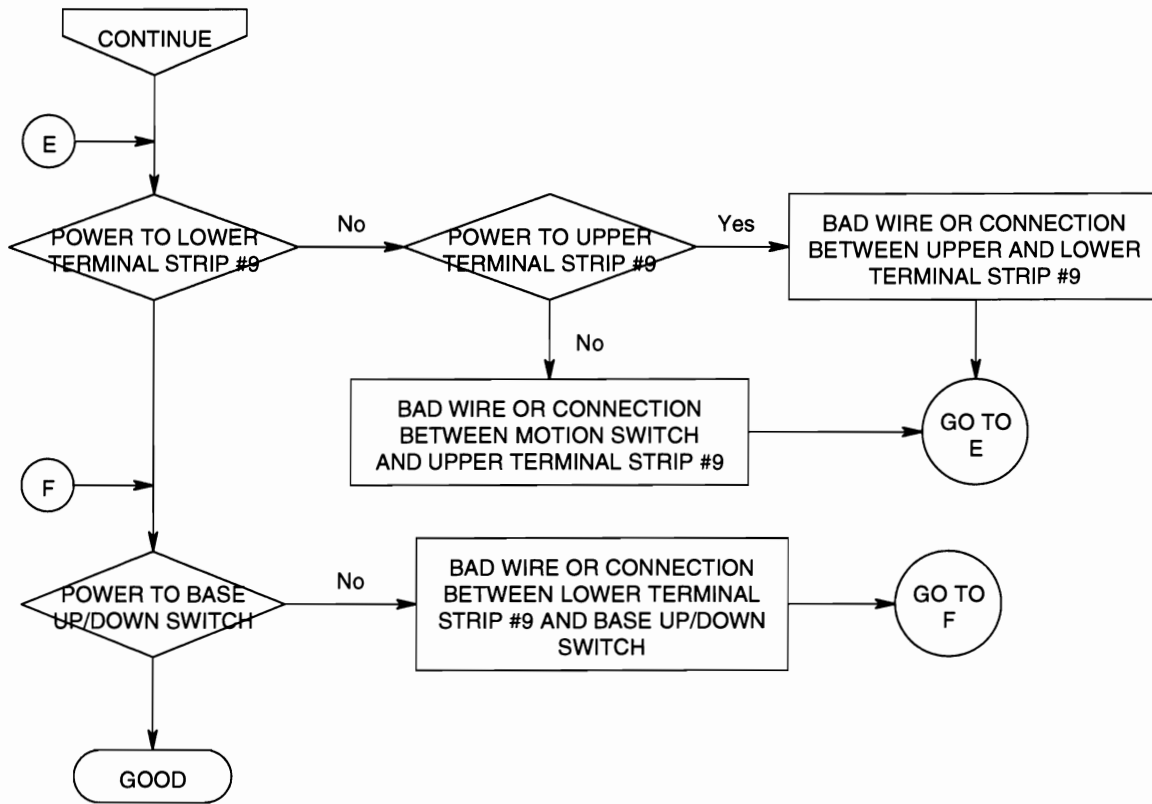


TROUBLESHOOTING

POWER CIRCUIT FOR JOYSTICK NO FUNCTIONS ACTIVATED

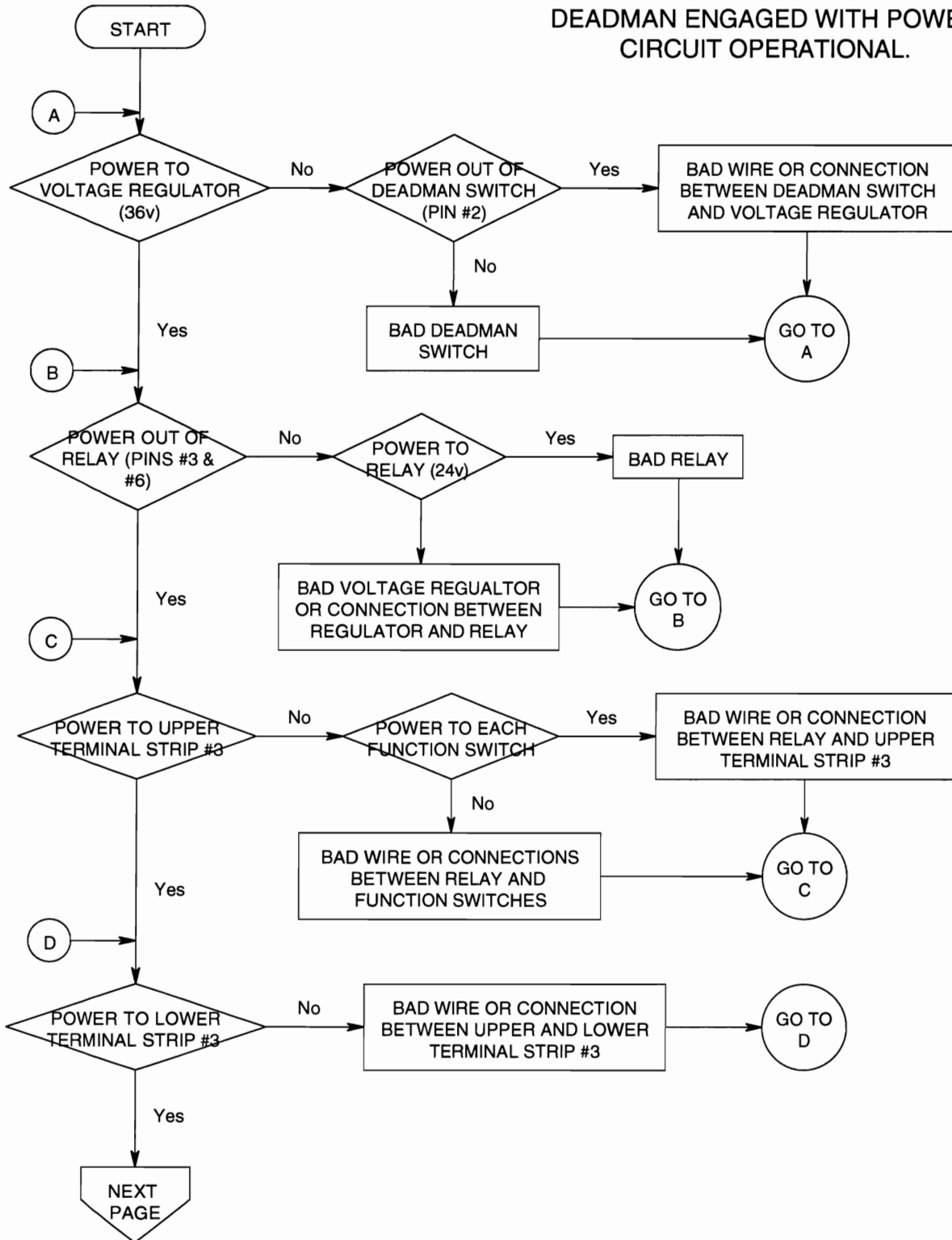


TROUBLESHOOTING

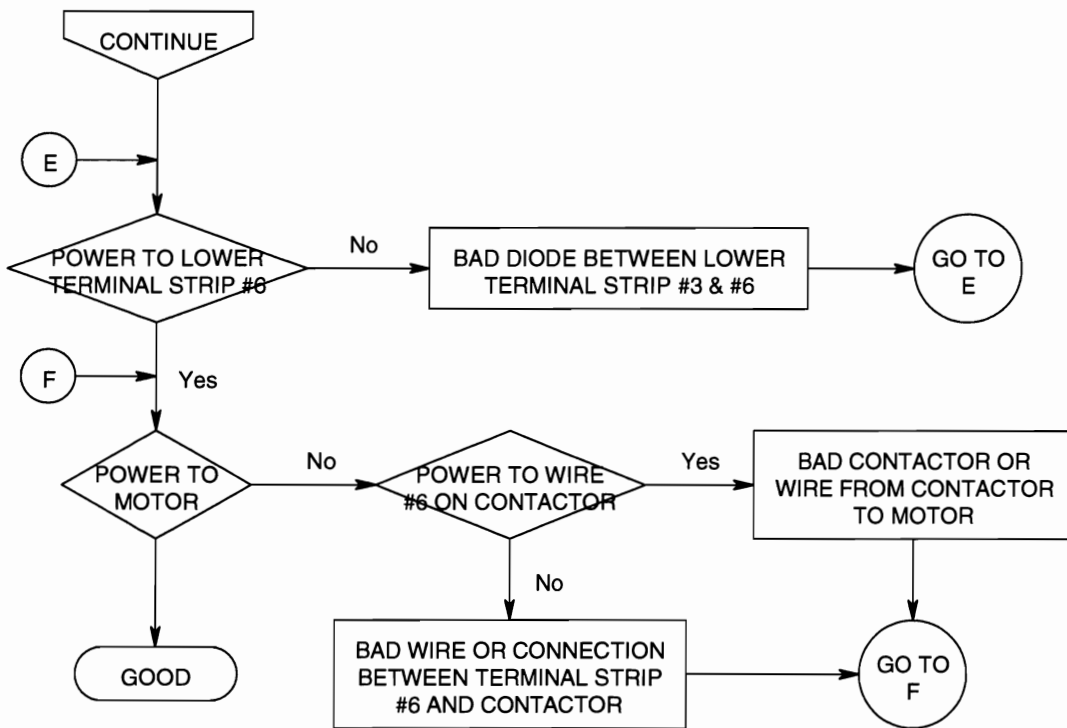


TROUBLESHOOTING

**DEADMAN ENGAGED WITH POWER
CIRCUIT OPERATIONAL.**

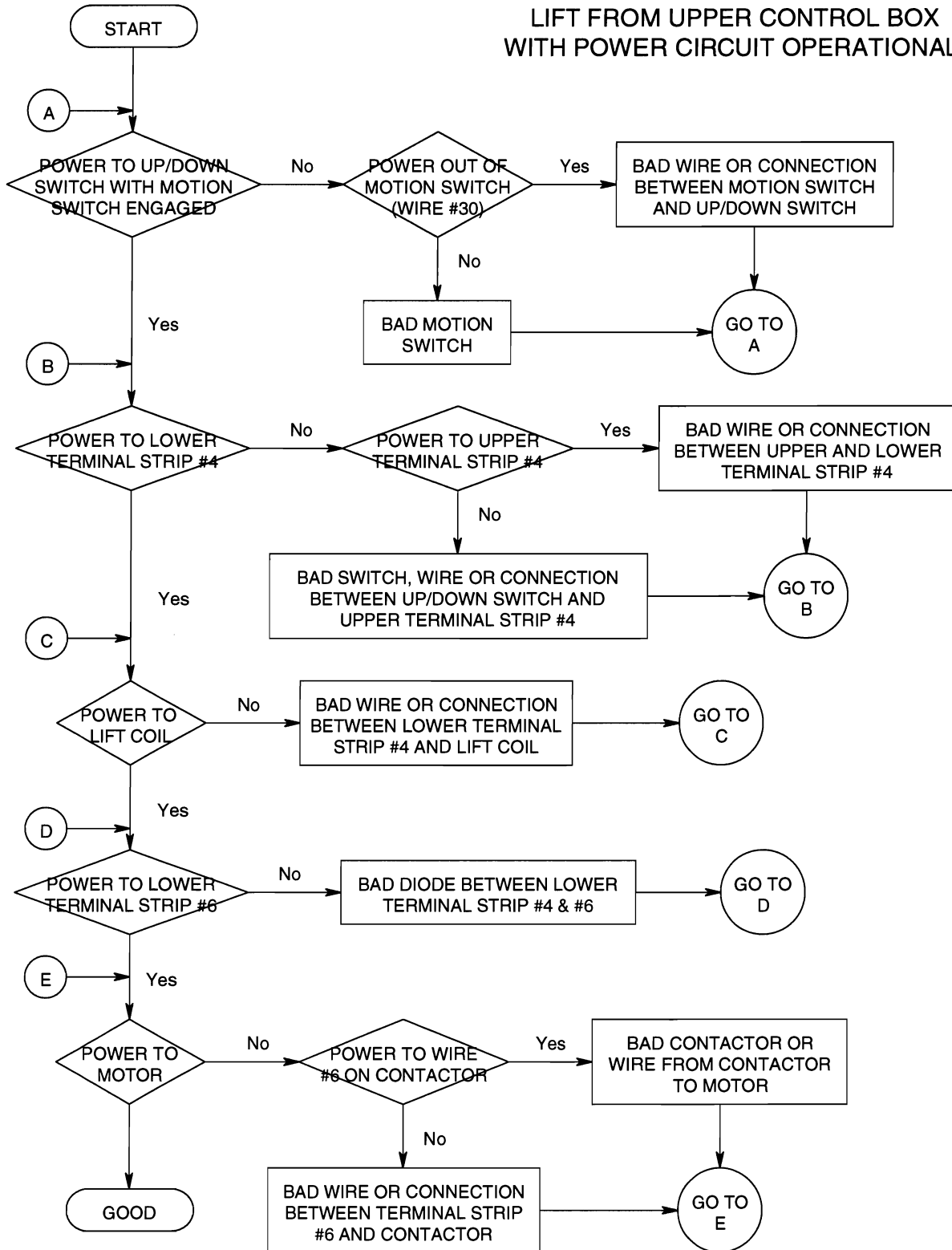


TROUBLESHOOTING



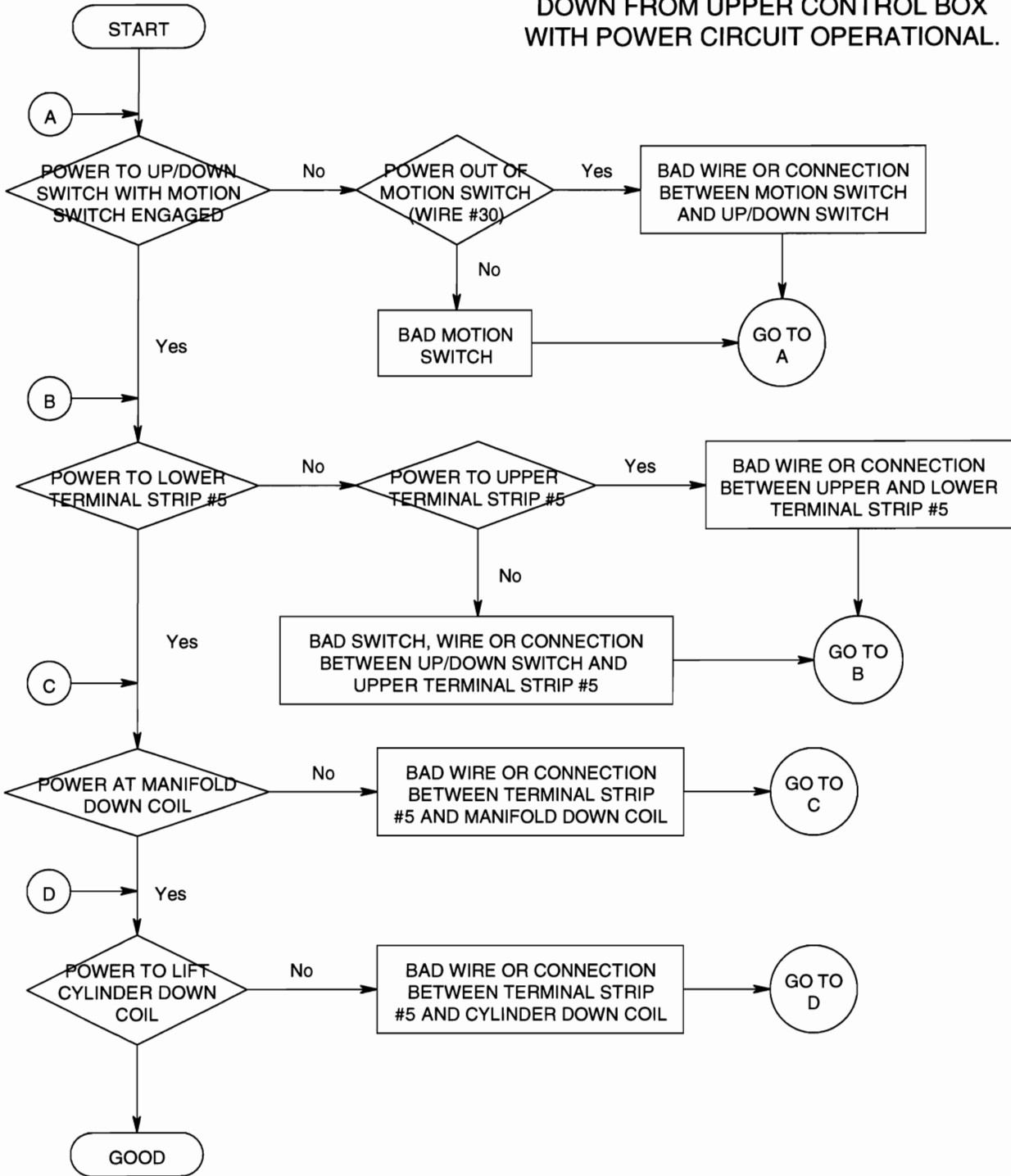
TROUBLESHOOTING

LIFT FROM UPPER CONTROL BOX WITH POWER CIRCUIT OPERATIONAL.



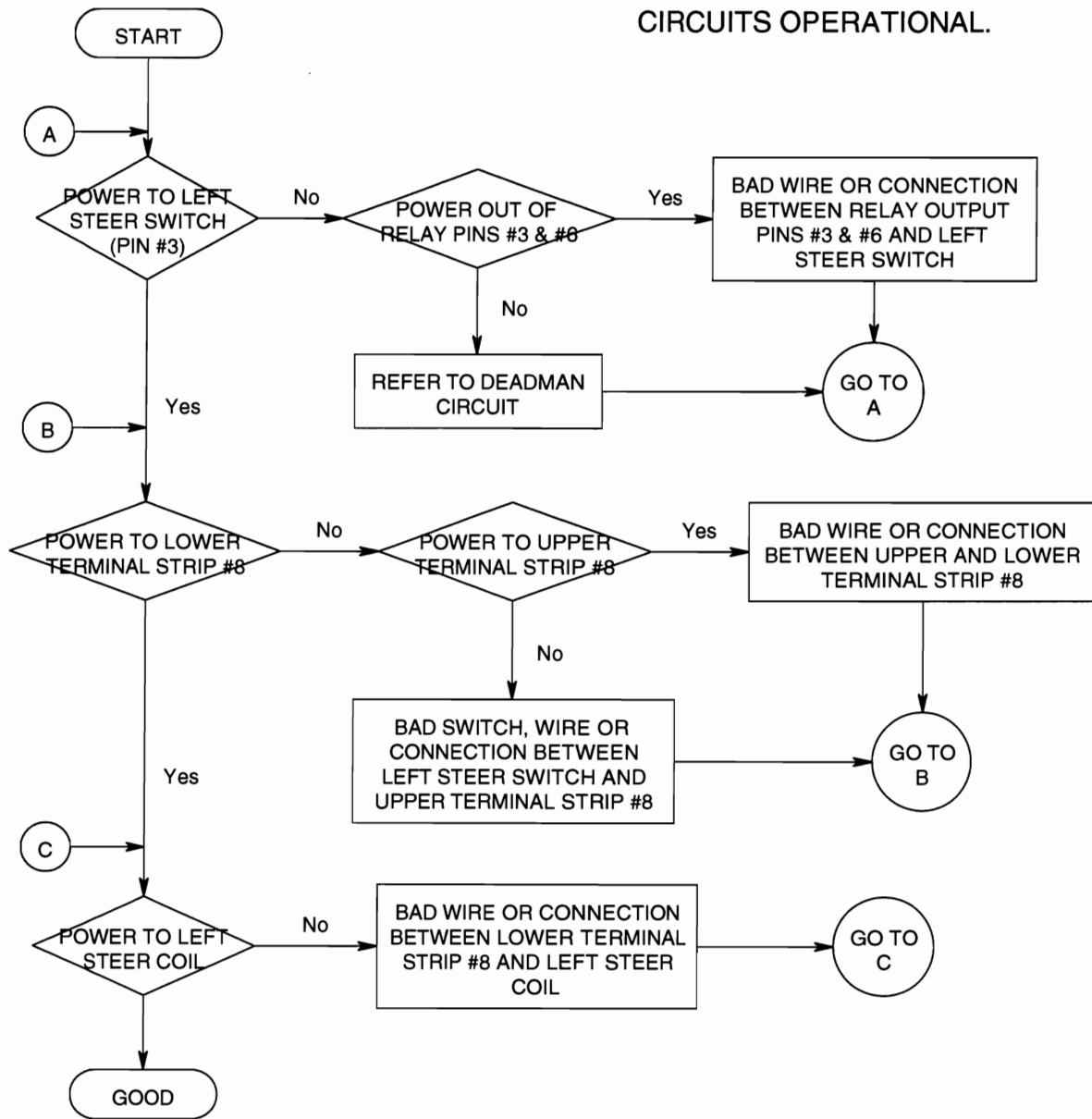
TROUBLESHOOTING

DOWN FROM UPPER CONTROL BOX WITH POWER CIRCUIT OPERATIONAL.



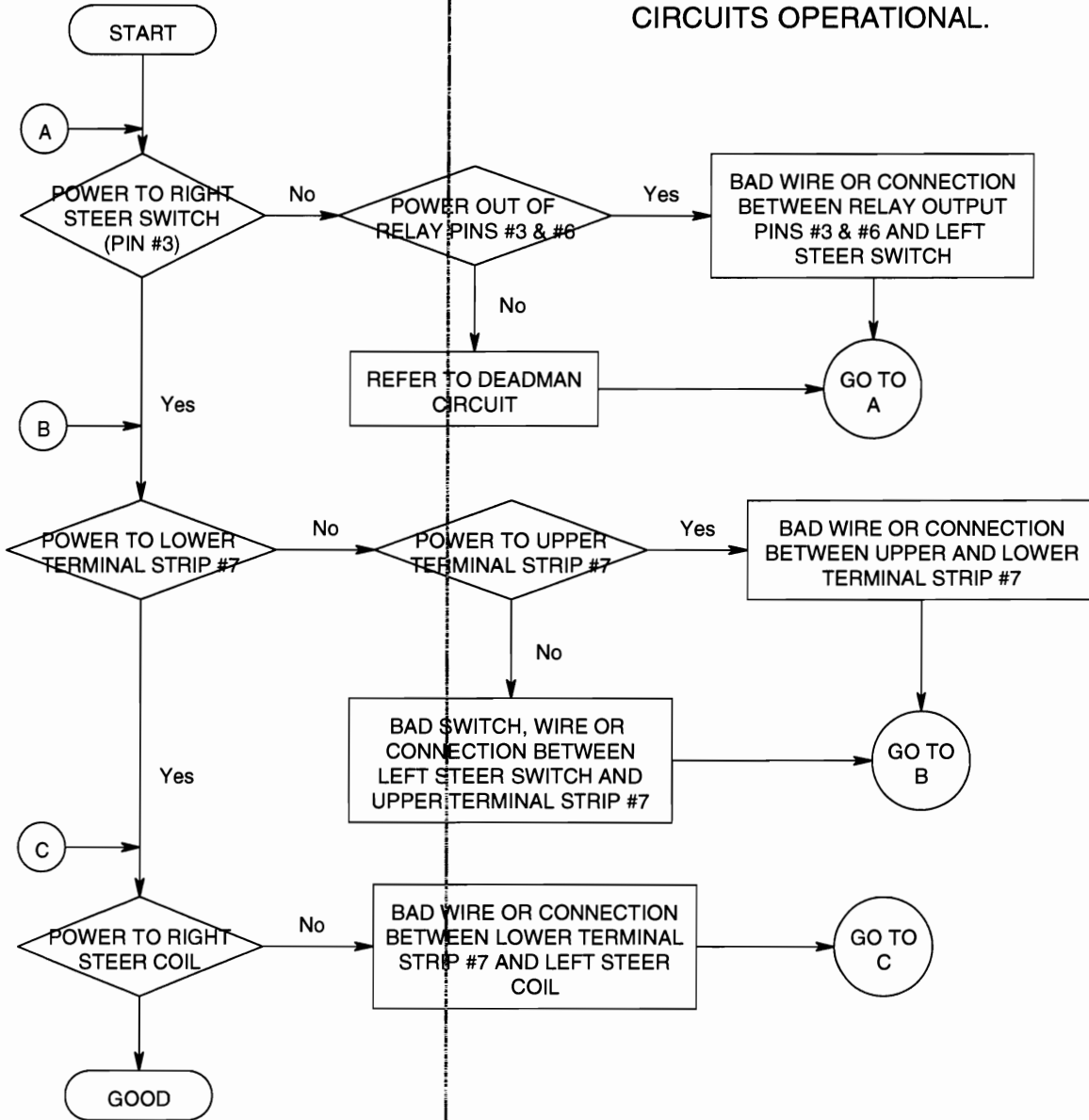
TROUBLESHOOTING

LEFT STEER WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.



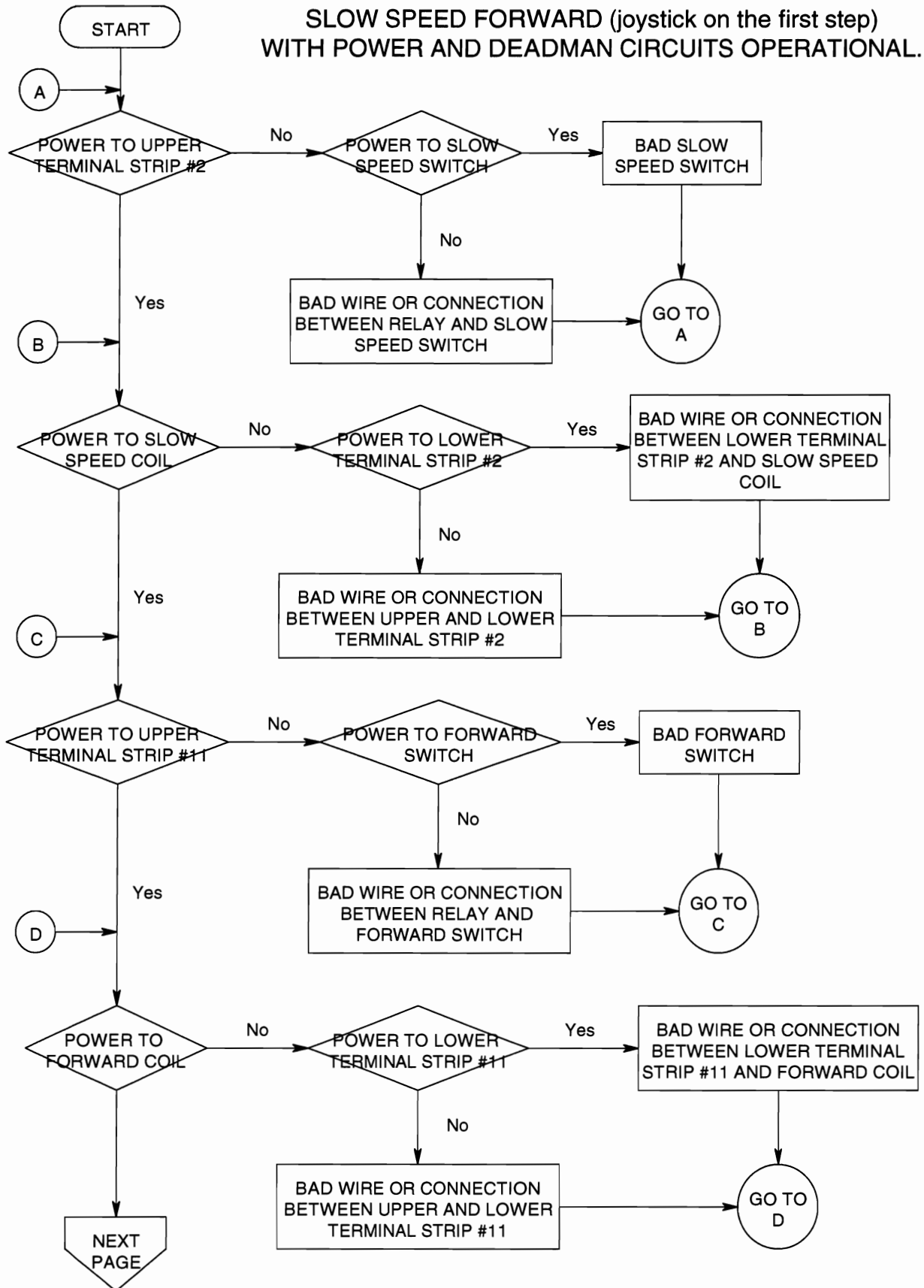
TROUBLESHOOTING

RIGHT STEER WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.

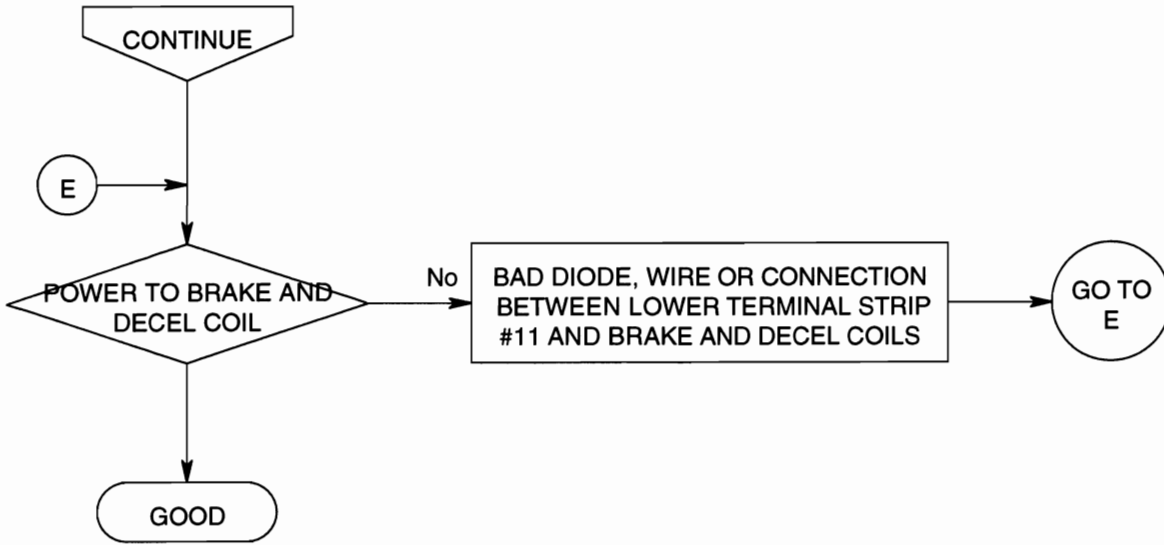


TROUBLESHOOTING

**SLOW SPEED FORWARD (joystick on the first step)
WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.**

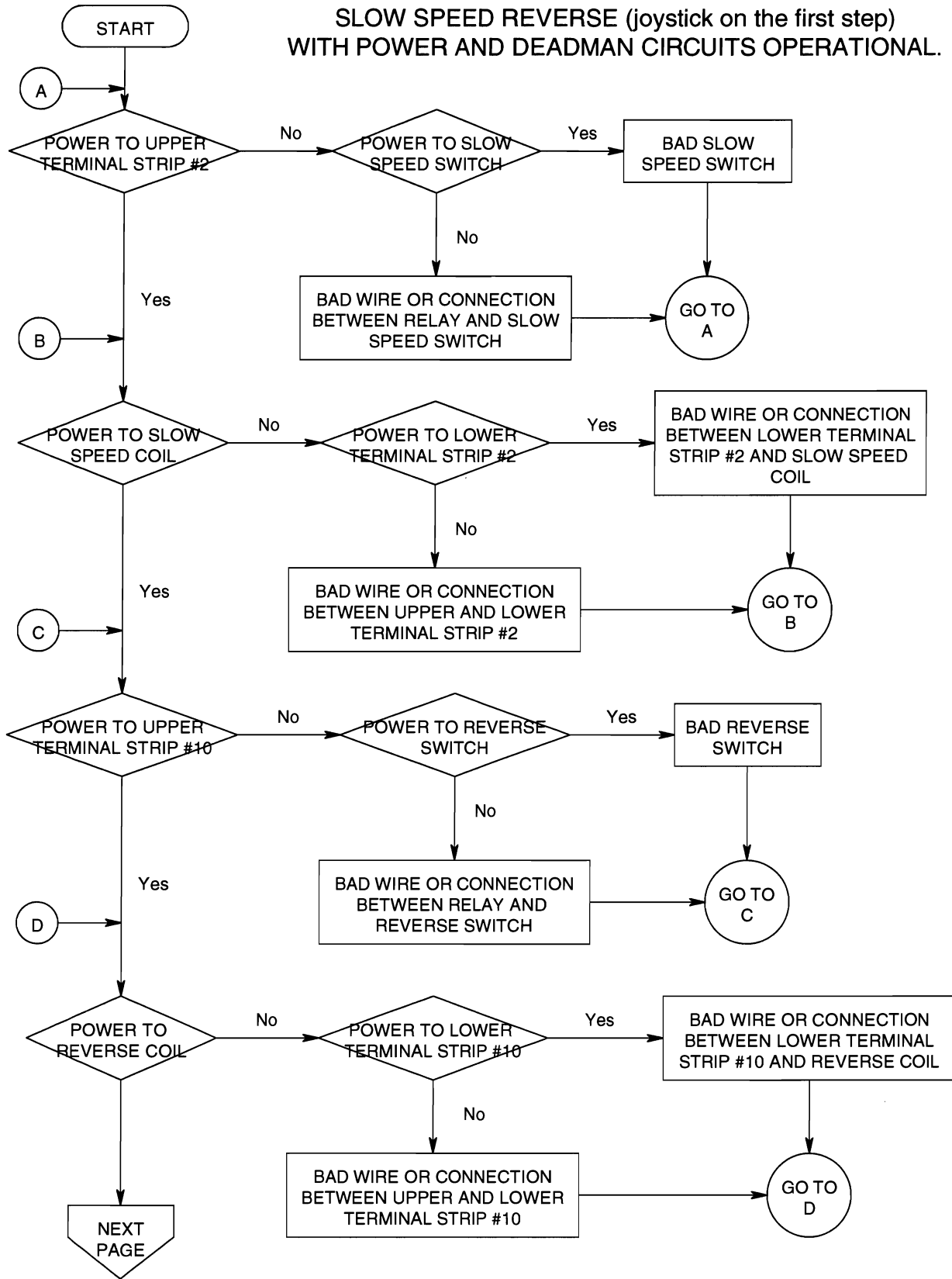


TROUBLESHOOTING

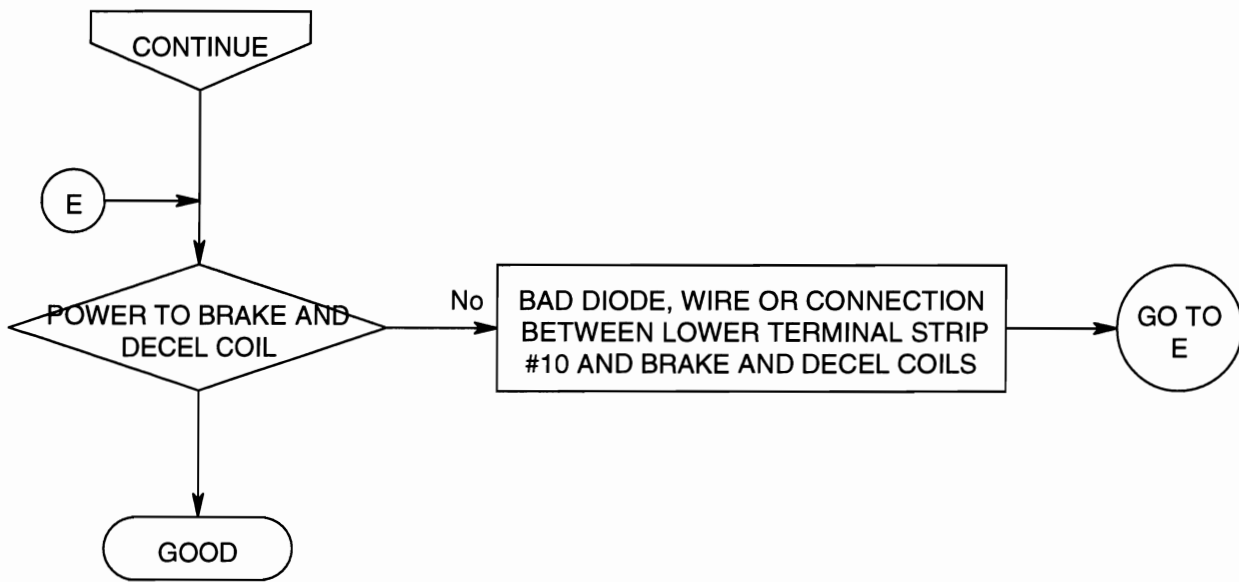


TROUBLESHOOTING

**SLOW SPEED REVERSE (joystick on the first step)
WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.**

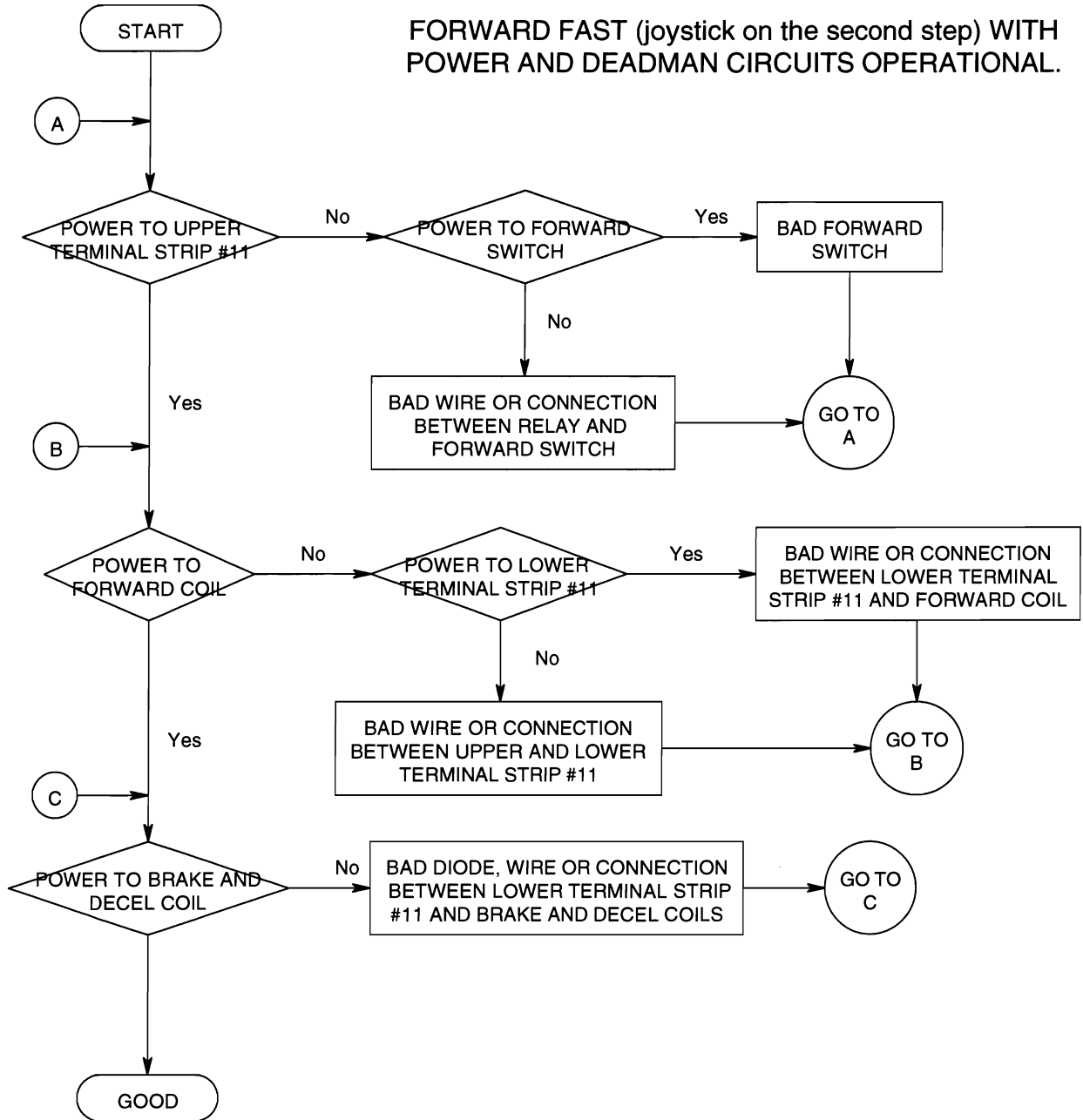


TROUBLESHOOTING



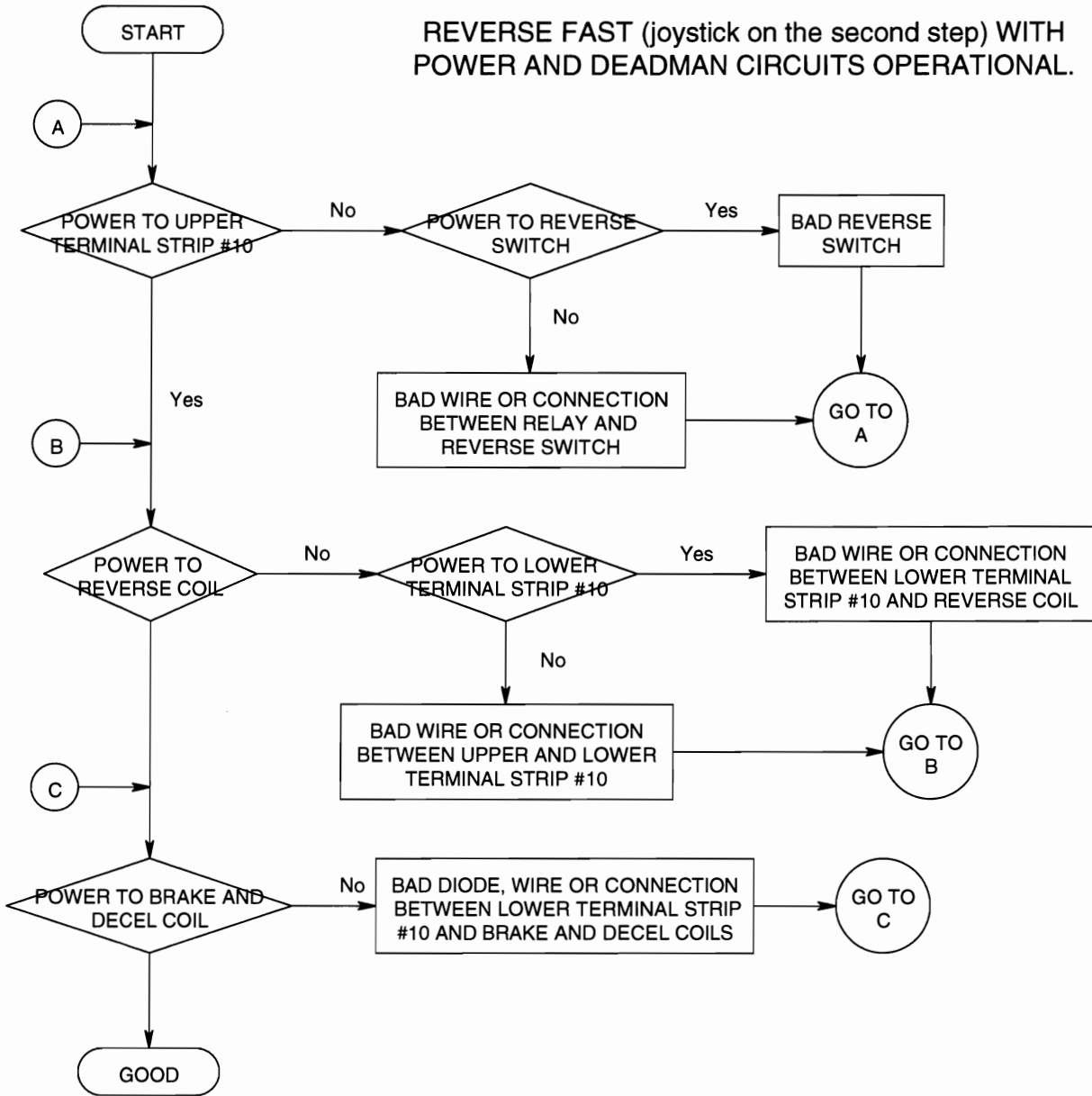
TROUBLESHOOTING

FORWARD FAST (joystick on the second step) WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.



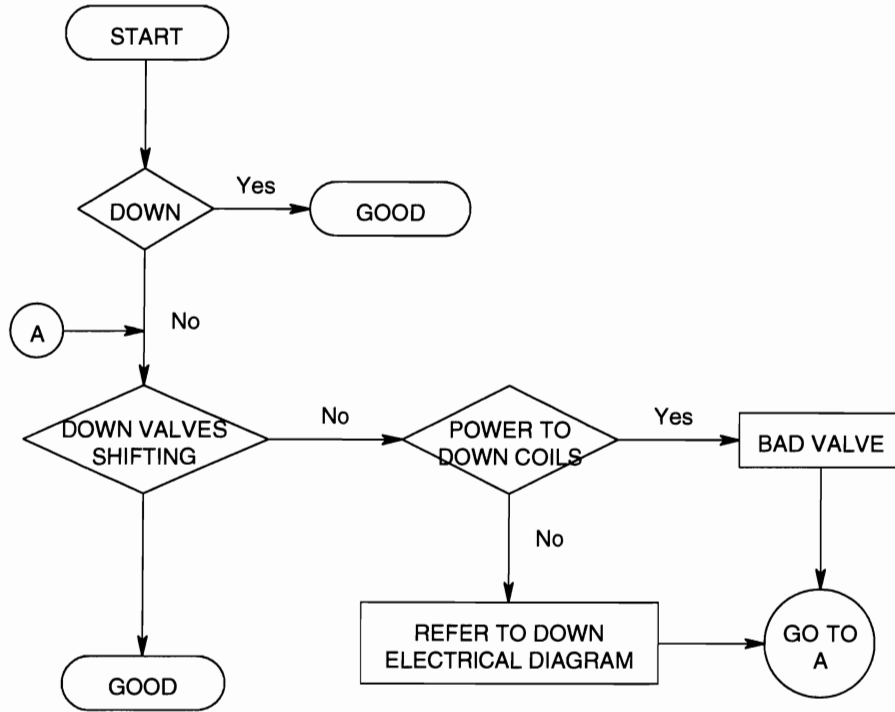
TROUBLESHOOTING

REVERSE FAST (joystick on the second step) WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.



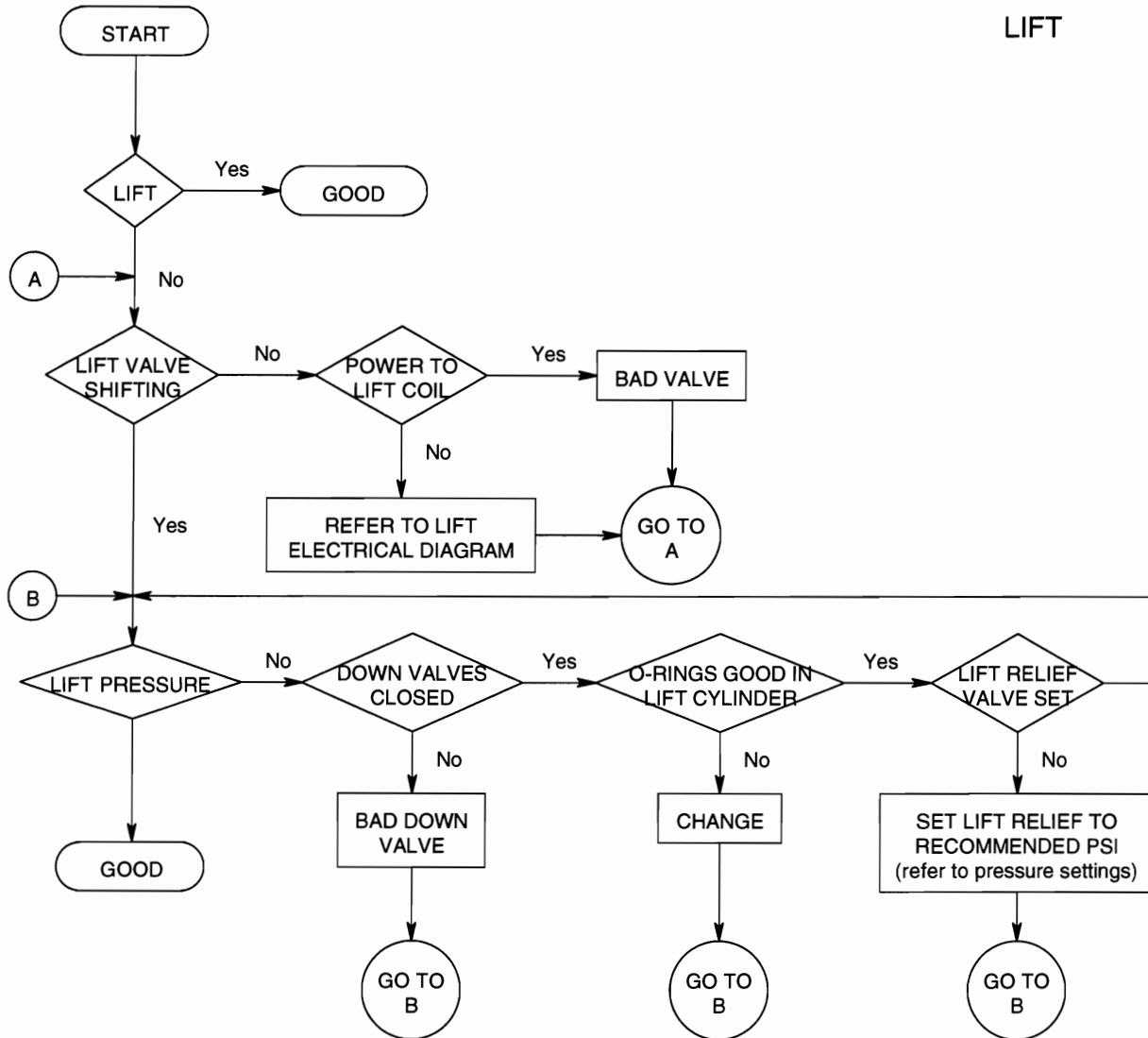
TROUBLESHOOTING

DOWN



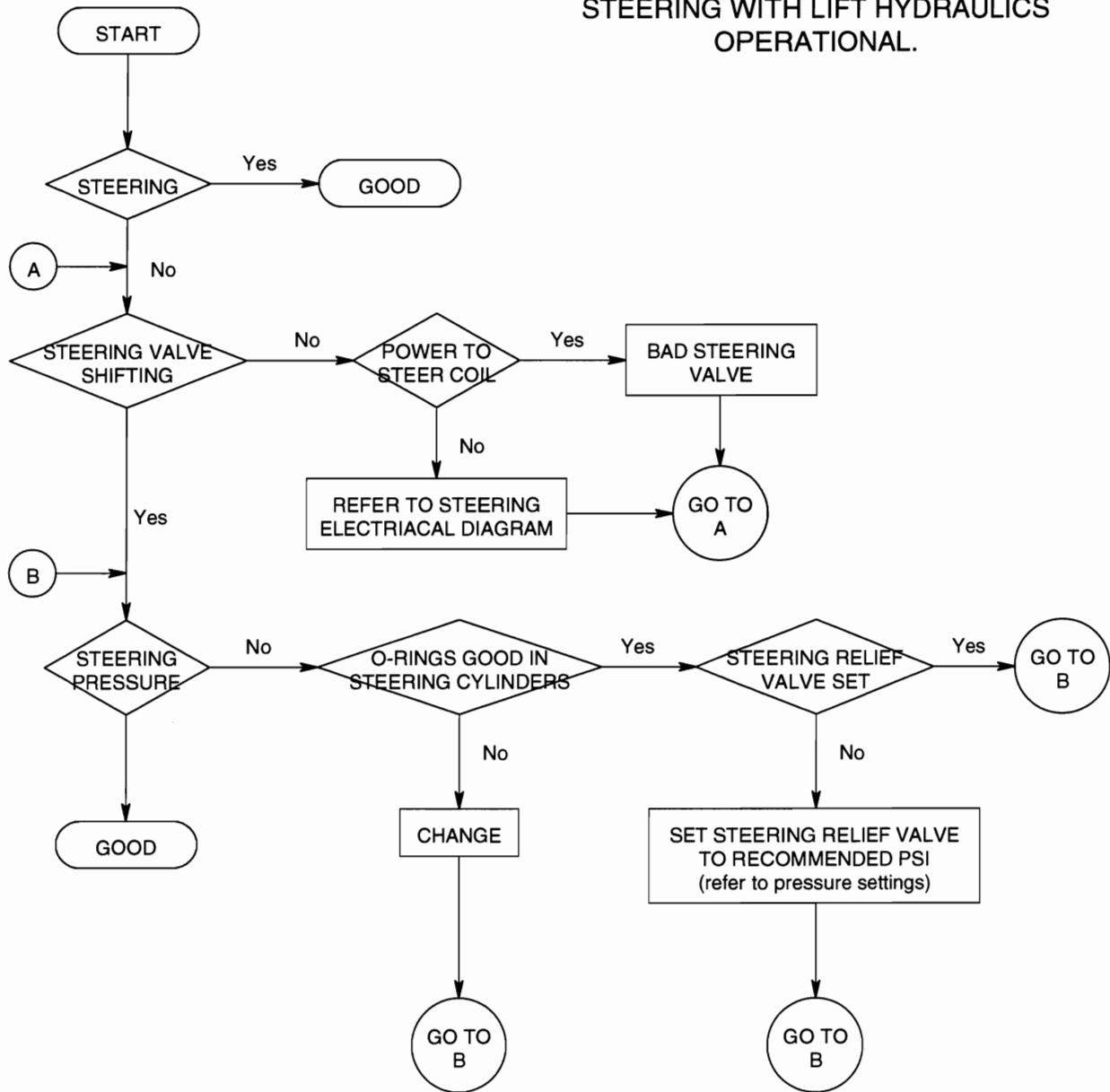
TROUBLESHOOTING

LIFT



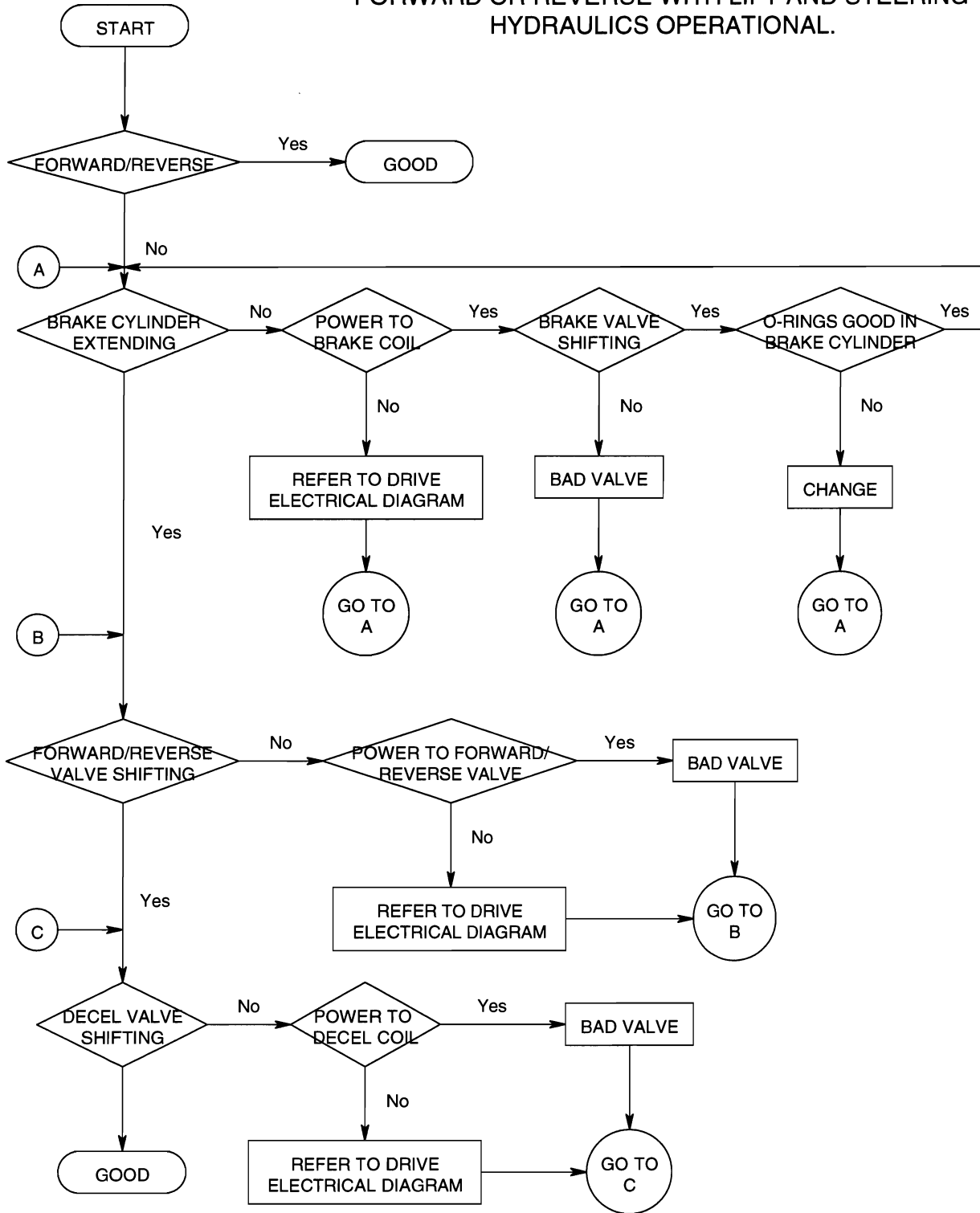
TROUBLESHOOTING

STEERING WITH LIFT HYDRAULICS OPERATIONAL.



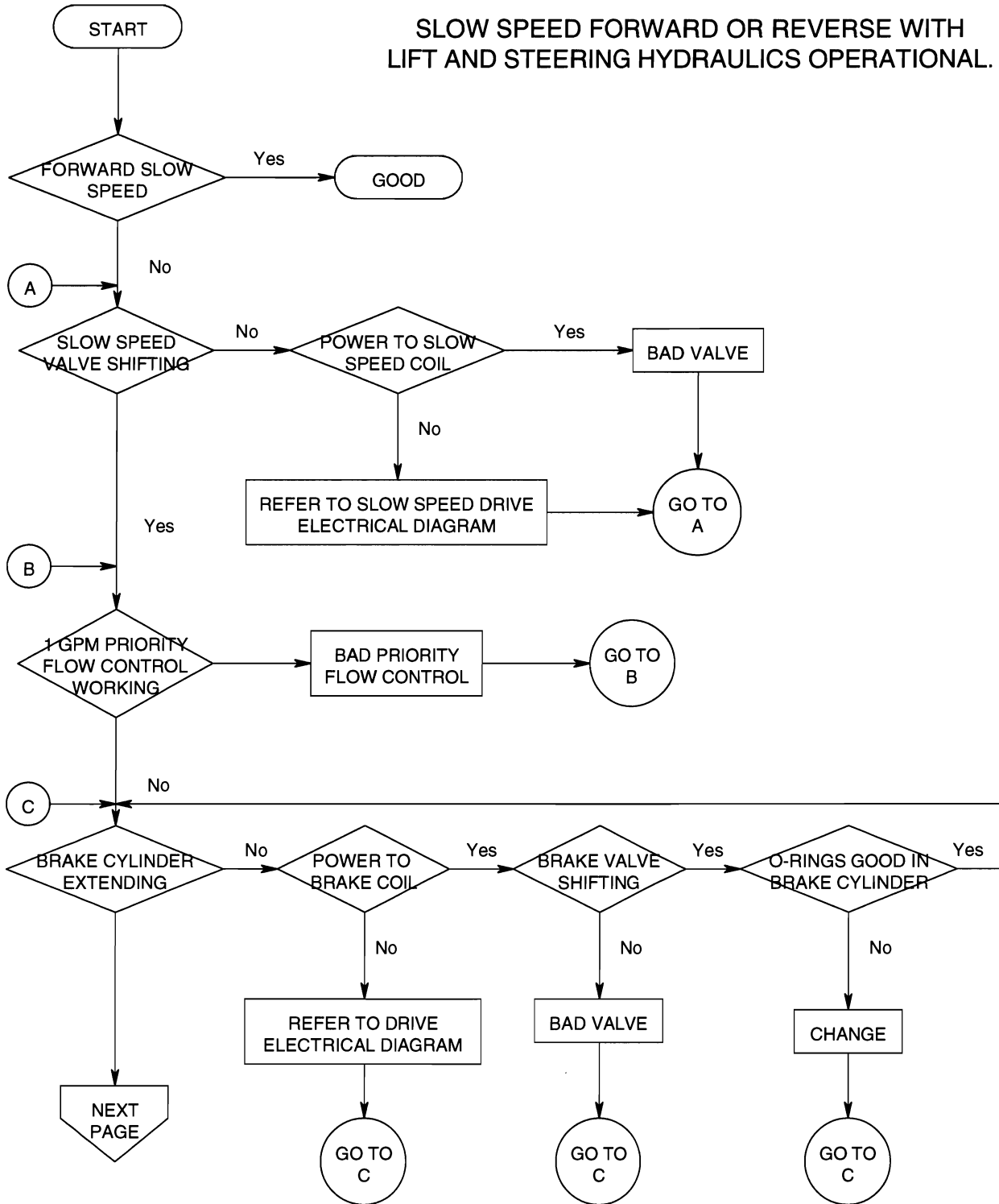
TROUBLESHOOTING

FORWARD OR REVERSE WITH LIFT AND STEERING HYDRAULICS OPERATIONAL.

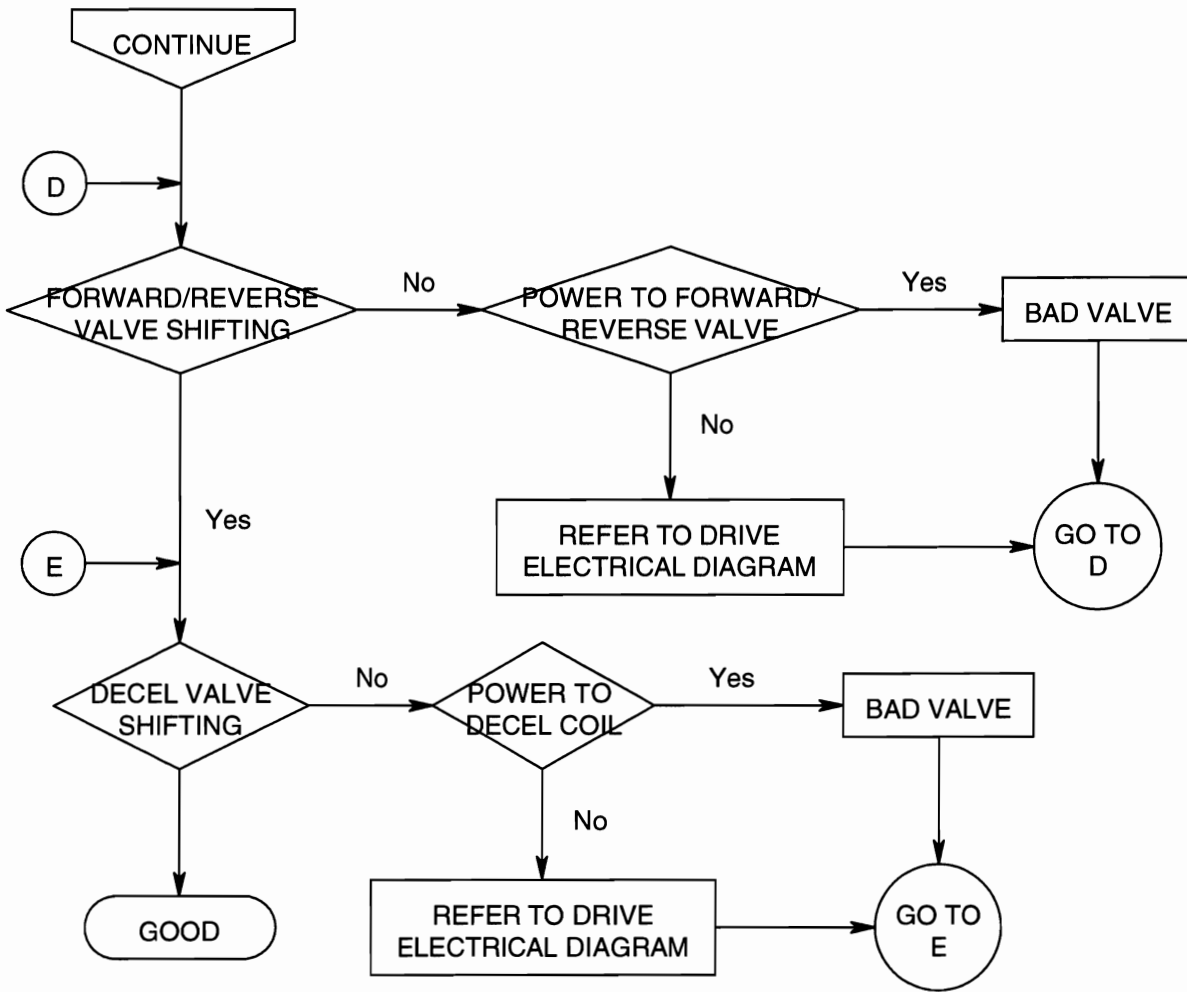


TROUBLESHOOTING

SLOW SPEED FORWARD OR REVERSE WITH LIFT AND STEERING HYDRAULICS OPERATIONAL.



TROUBLESHOOTING



TROUBLESHOOTING

PRESSURE SETTINGS

STEERING RELIEF

DEAD HEAD STEERING TO ONE SIDE. PRESSURE SHOULD BE SET AT 1500 PSI FOR STANDARD TIRE PACKAGE, AND 1750 PSI FOR FOAM FILLED TIRE OPTION.

LIFT RELIEF

DEAD HEAD LIFT TO FULL EXTENSION. PRESSURE SHOULD BE SET AS FOLLOWS:

1948 - 1725 PSI
2548 - 2100 PSI
1958 - 1850 PSI
2558 - 2150PSI

COUNTER BALANCE VALVE

DISCONNECT WIRES FROM THE DRIVE 4-WAY VALVE. OPERATE THE FORWARD FUNCTION, PRESSURE SHOULD BE SET TO 450 PSI. WITH THE WIRES DISCONNECTED THIS WILL ALLOW THE HYDRUALIC FLUID TO DUMP DIRECTLY OVER THE COUNTER BALANCE VALVE.

TROUBLESHOOTING

NOTES:

HITE-MASTER

High Torque Series

Troubleshooting Flow Chart

TROUBLESHOOTING

SYMBOL IDENTIFICATION



BEGINNING OR END



DECISION



PROCESS



CONNECTOR



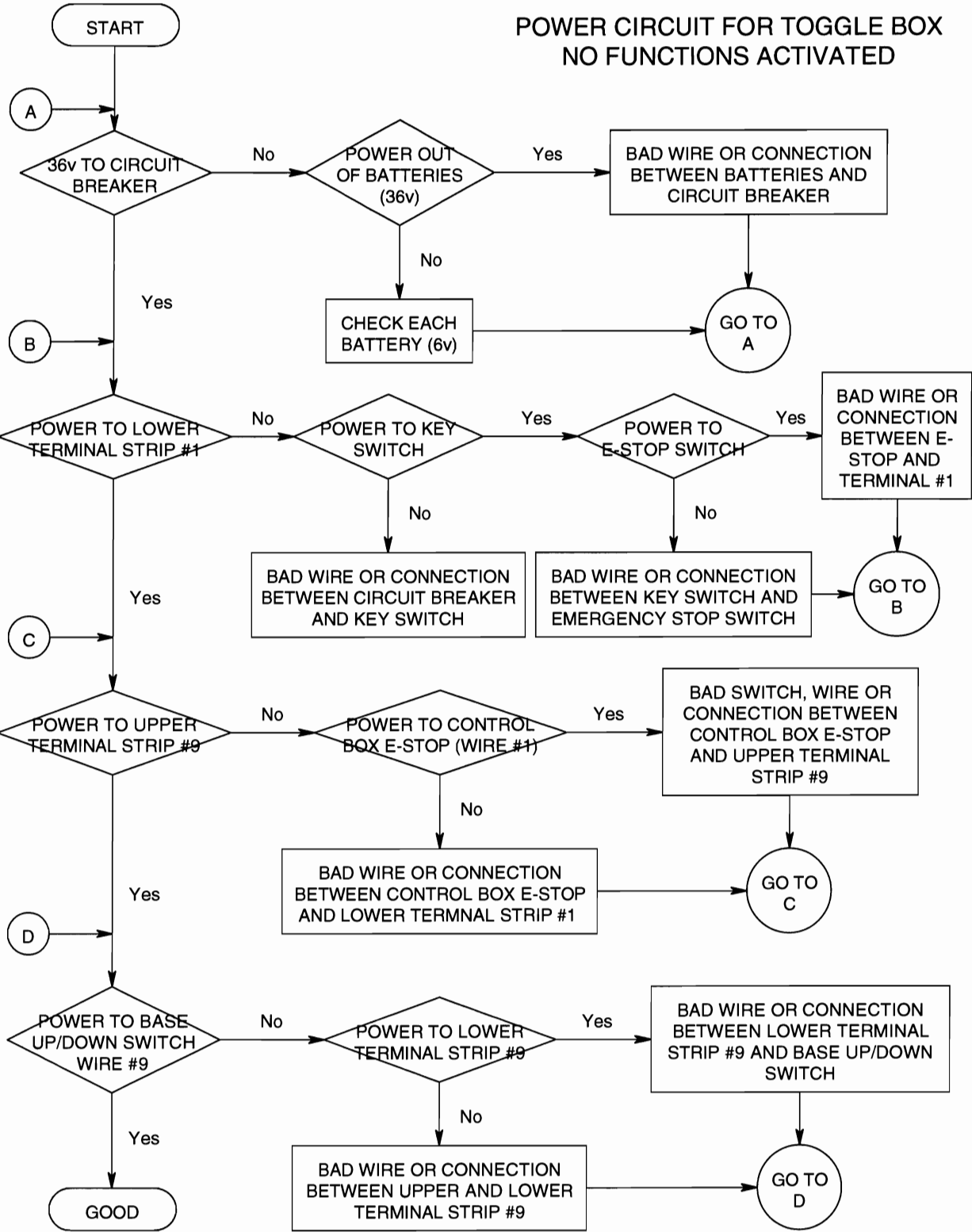
DIRECTION ARROW



PAGE CONNECTOR

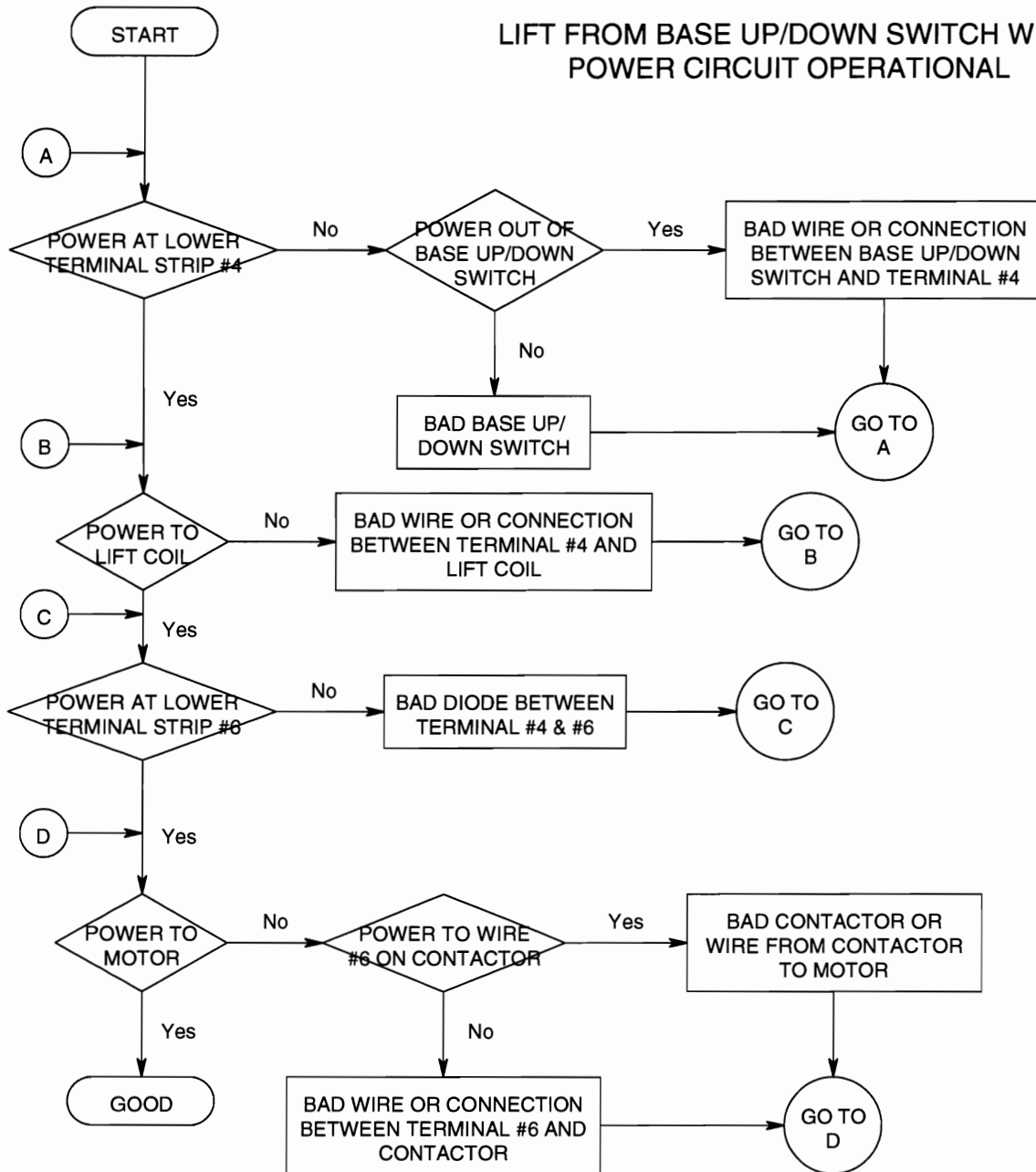
TROUBLESHOOTING

POWER CIRCUIT FOR TOGGLE BOX NO FUNCTIONS ACTIVATED



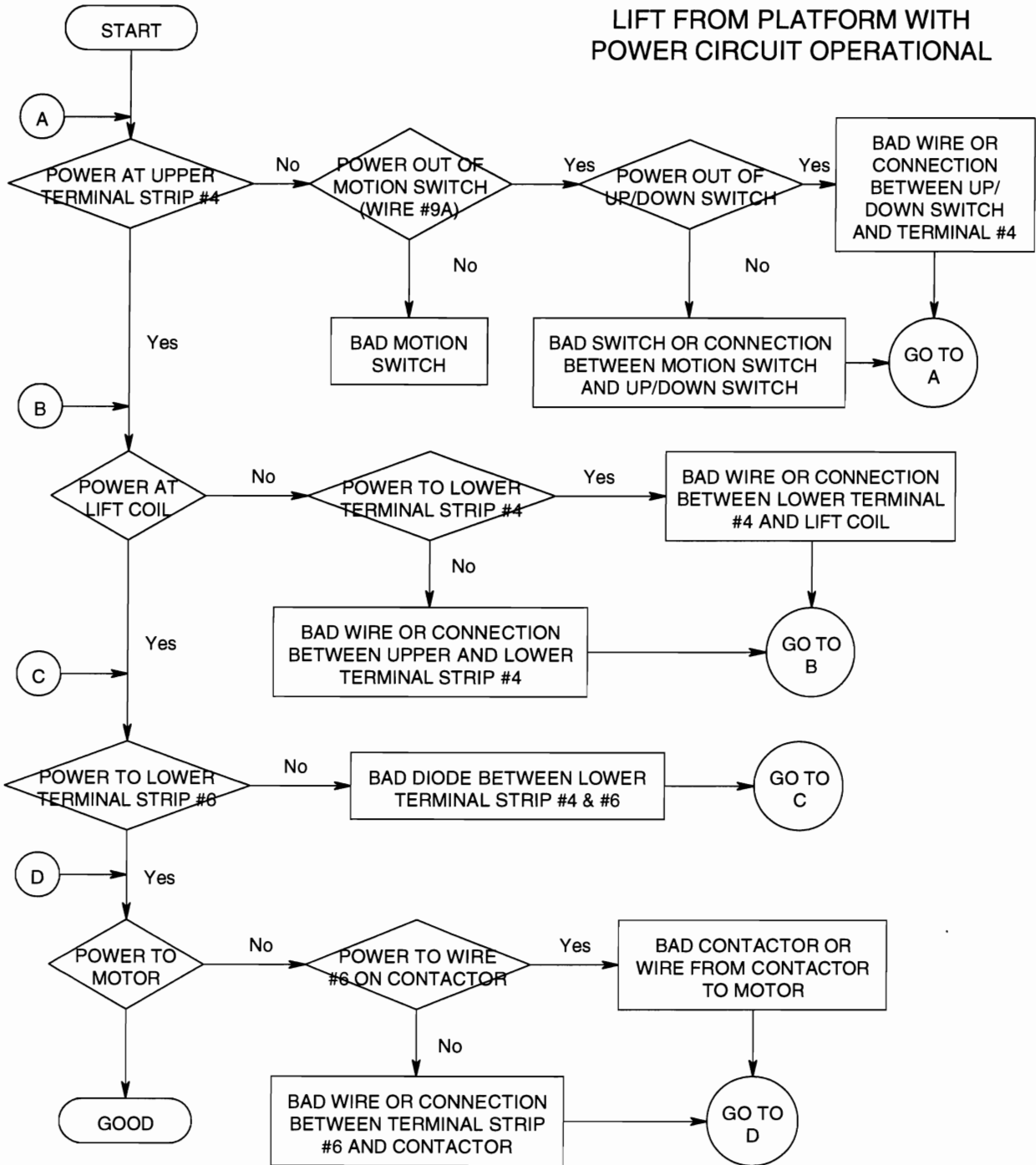
TROUBLESHOOTING

LIFT FROM BASE UP/DOWN SWITCH WITH POWER CIRCUIT OPERATIONAL



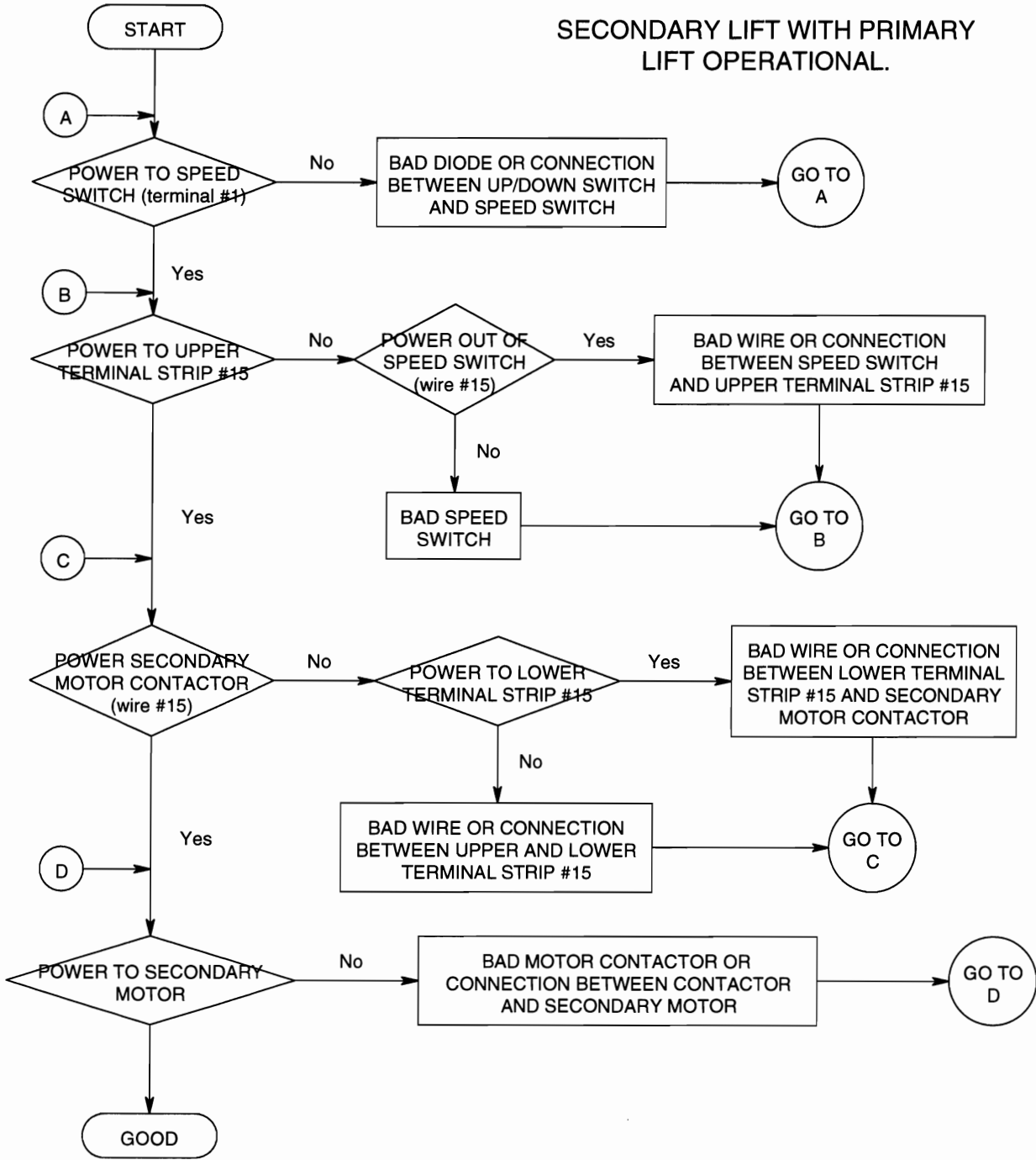
TROUBLESHOOTING

LIFT FROM PLATFORM WITH POWER CIRCUIT OPERATIONAL



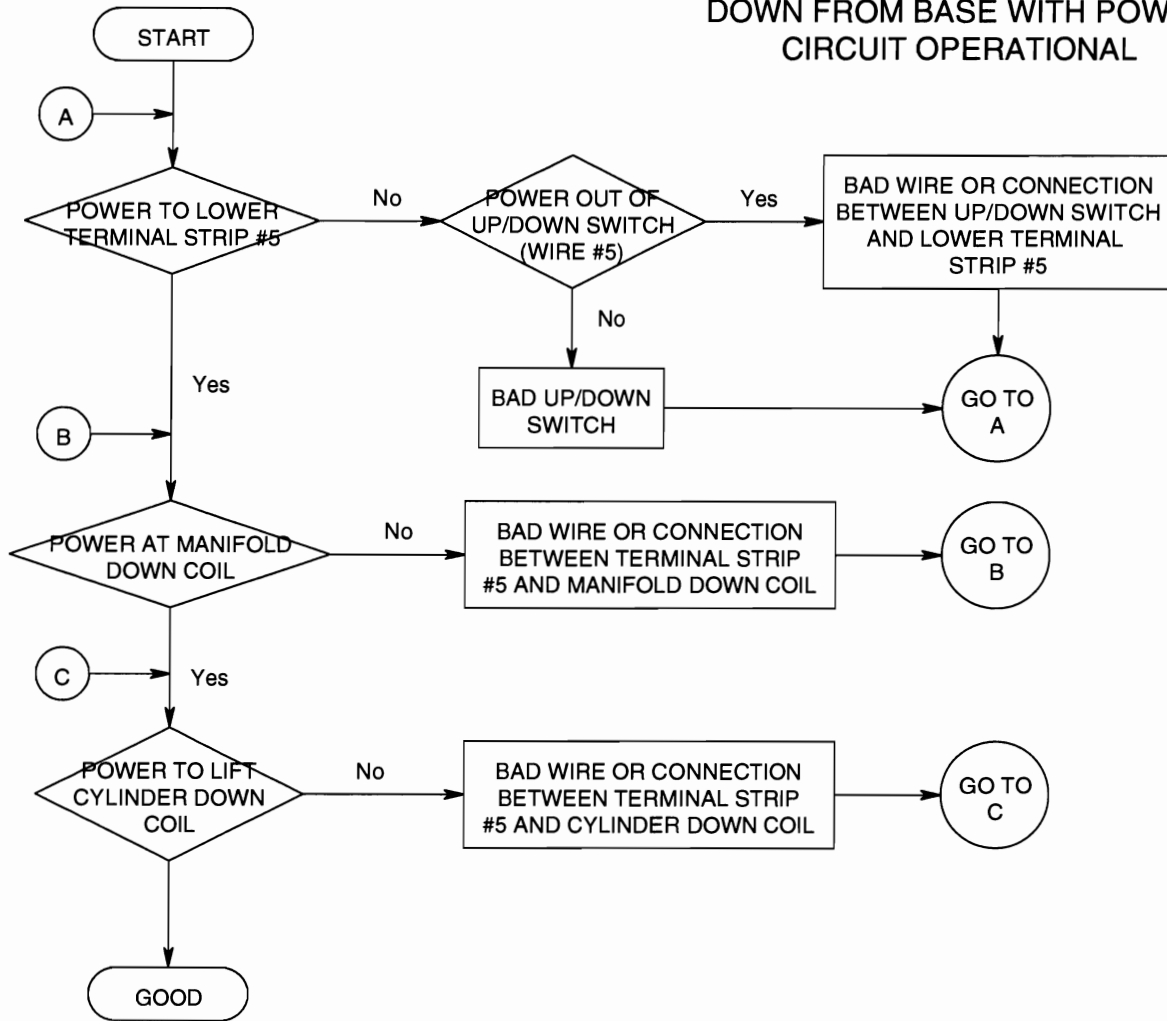
TROUBLESHOOTING

SECONDARY LIFT WITH PRIMARY LIFT OPERATIONAL.



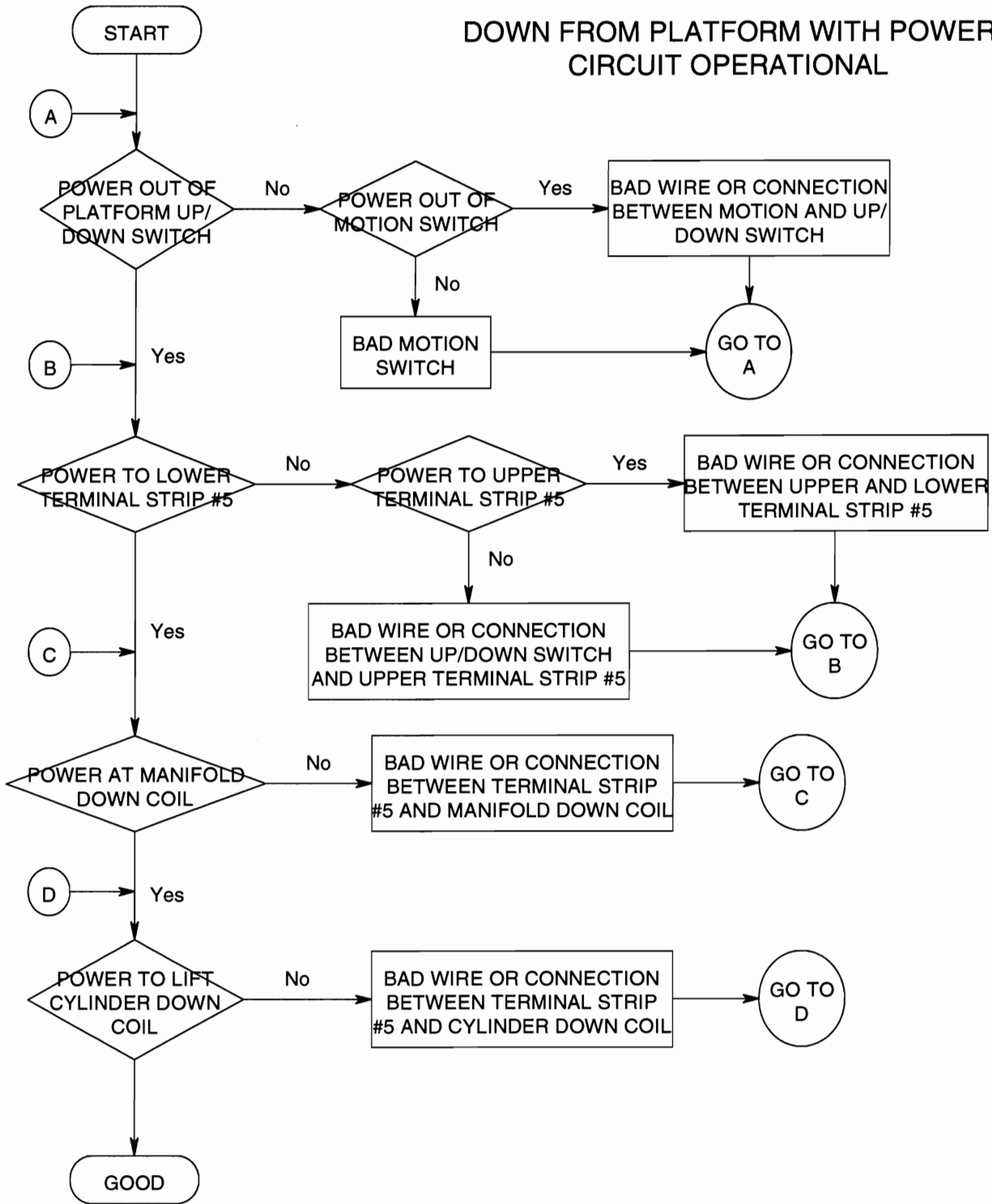
TROUBLESHOOTING

DOWN FROM BASE WITH POWER CIRCUIT OPERATIONAL



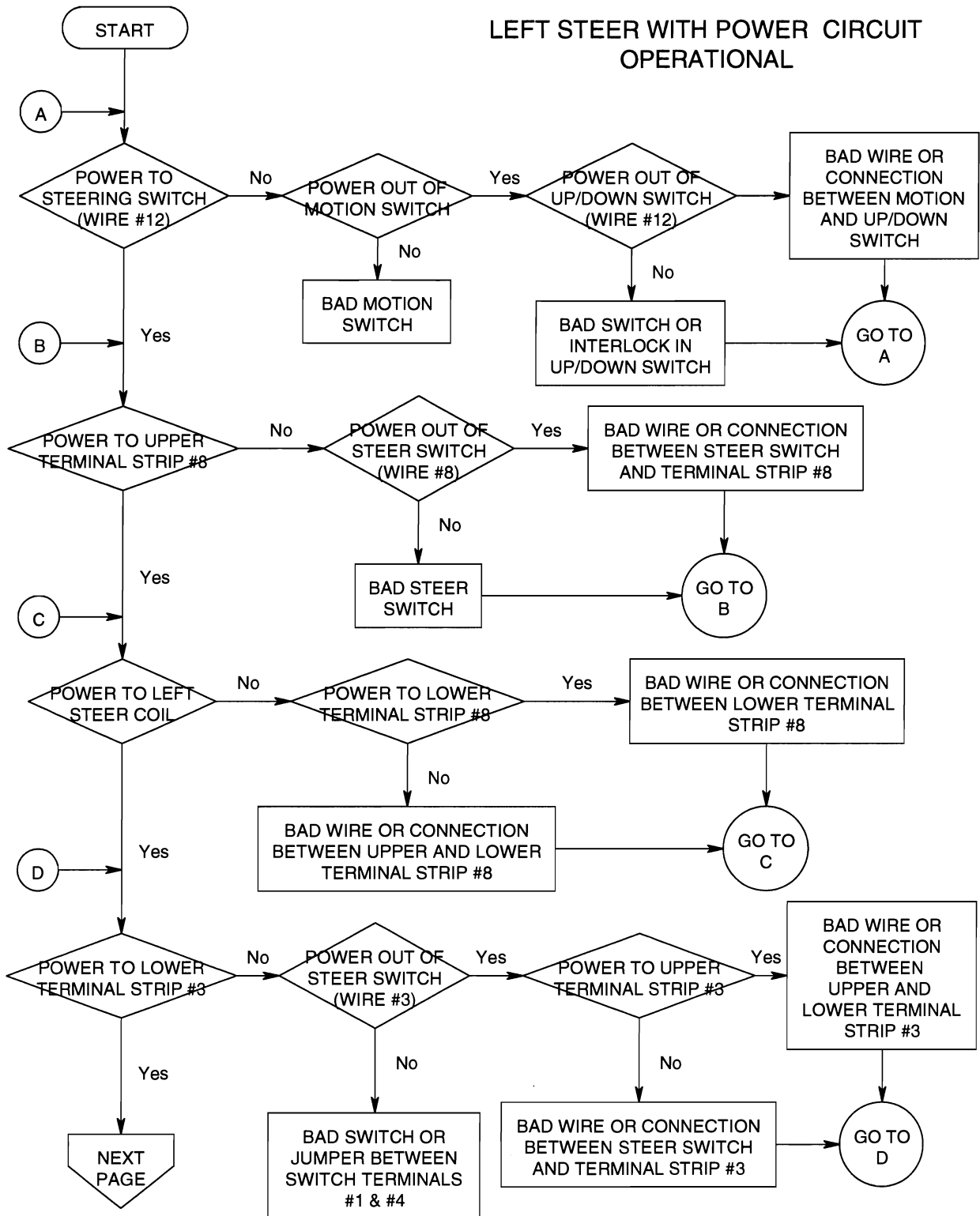
TROUBLESHOOTING

DOWN FROM PLATFORM WITH POWER CIRCUIT OPERATIONAL

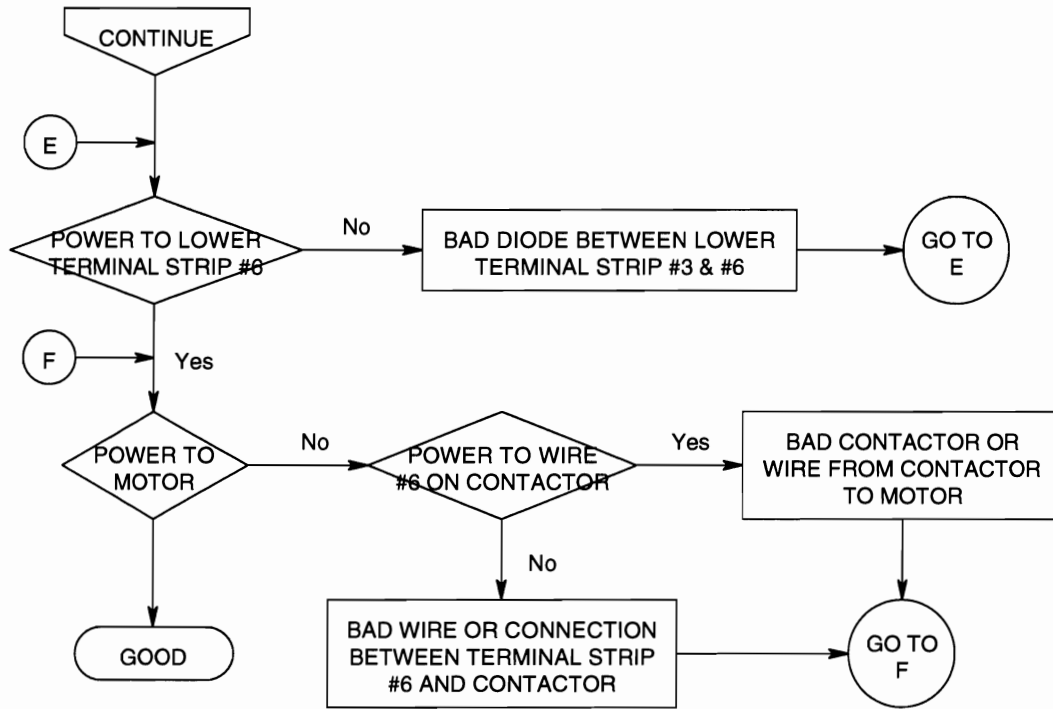


TROUBLESHOOTING

LEFT STEER WITH POWER CIRCUIT OPERATIONAL

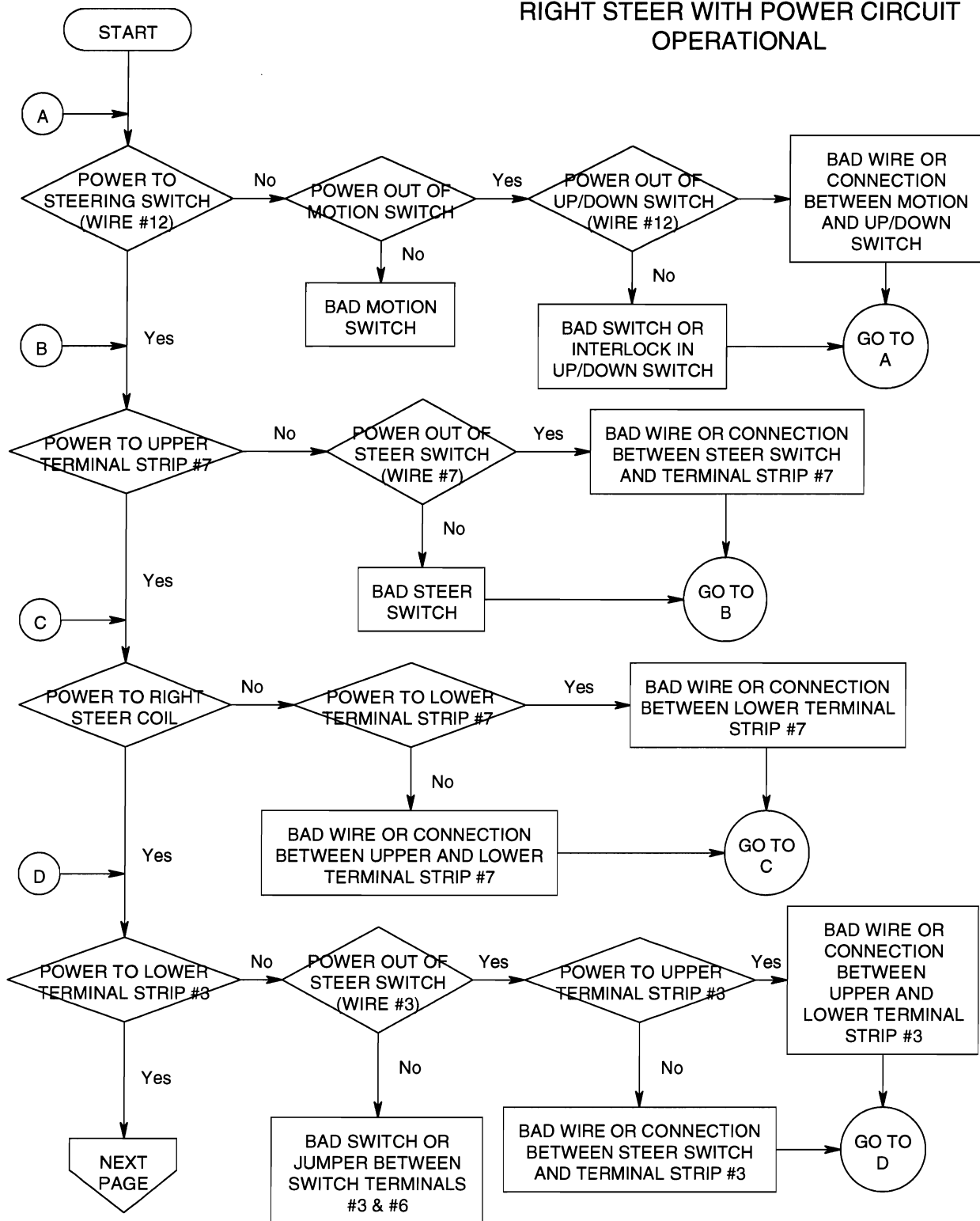


TROUBLESHOOTING

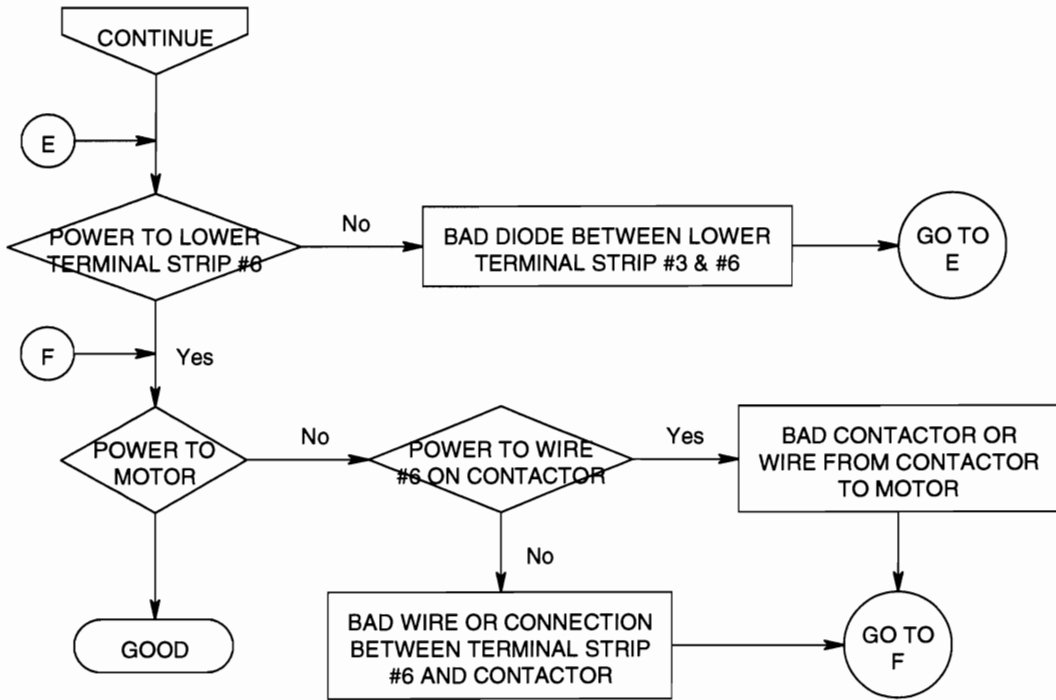


TROUBLESHOOTING

RIGHT STEER WITH POWER CIRCUIT OPERATIONAL

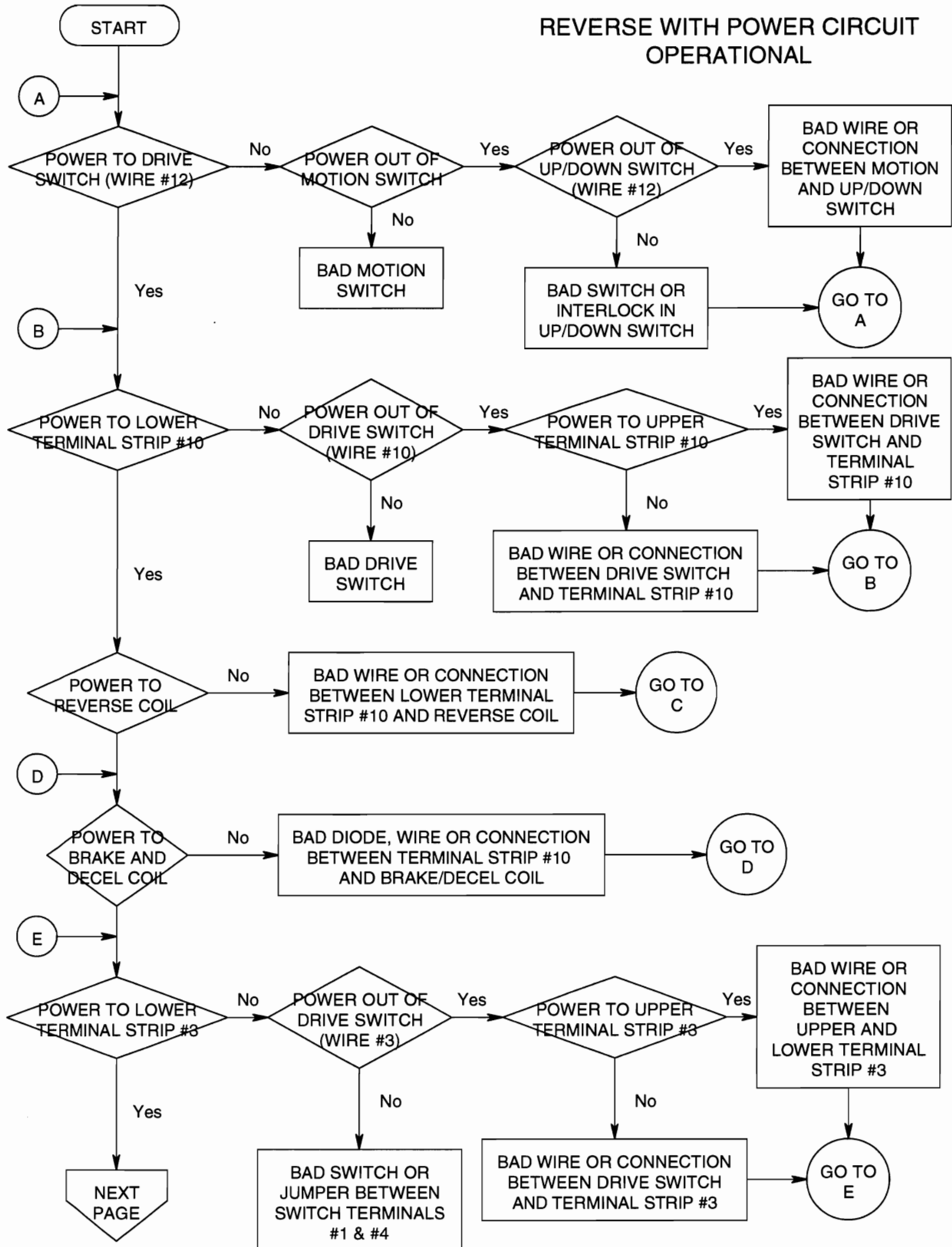


TROUBLESHOOTING

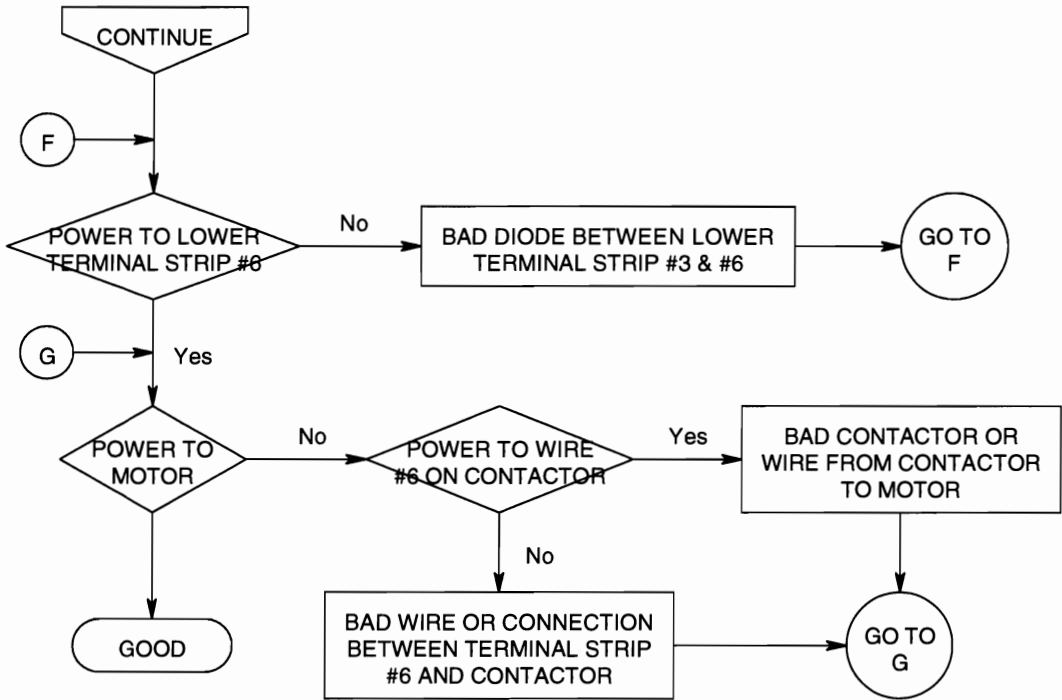


TROUBLESHOOTING

REVERSE WITH POWER CIRCUIT OPERATIONAL

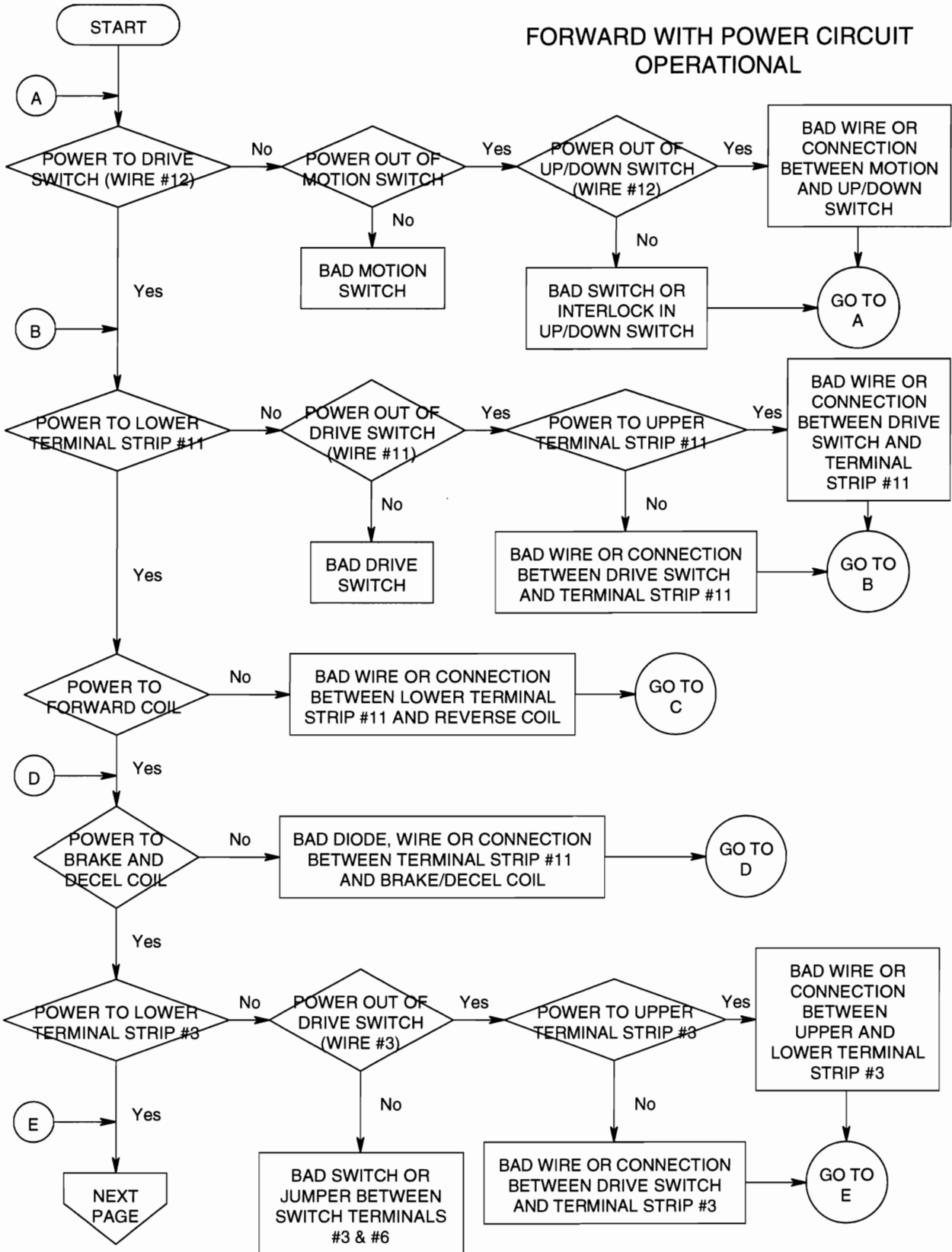


TROUBLESHOOTING

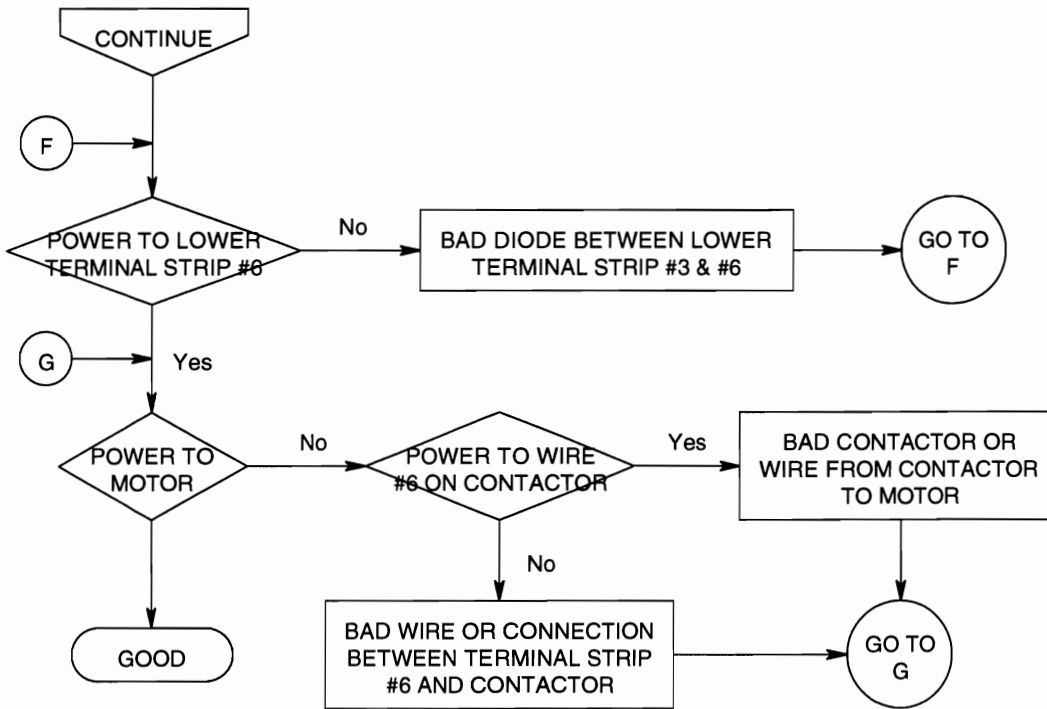


TROUBLESHOOTING

FORWARD WITH POWER CIRCUIT OPERATIONAL

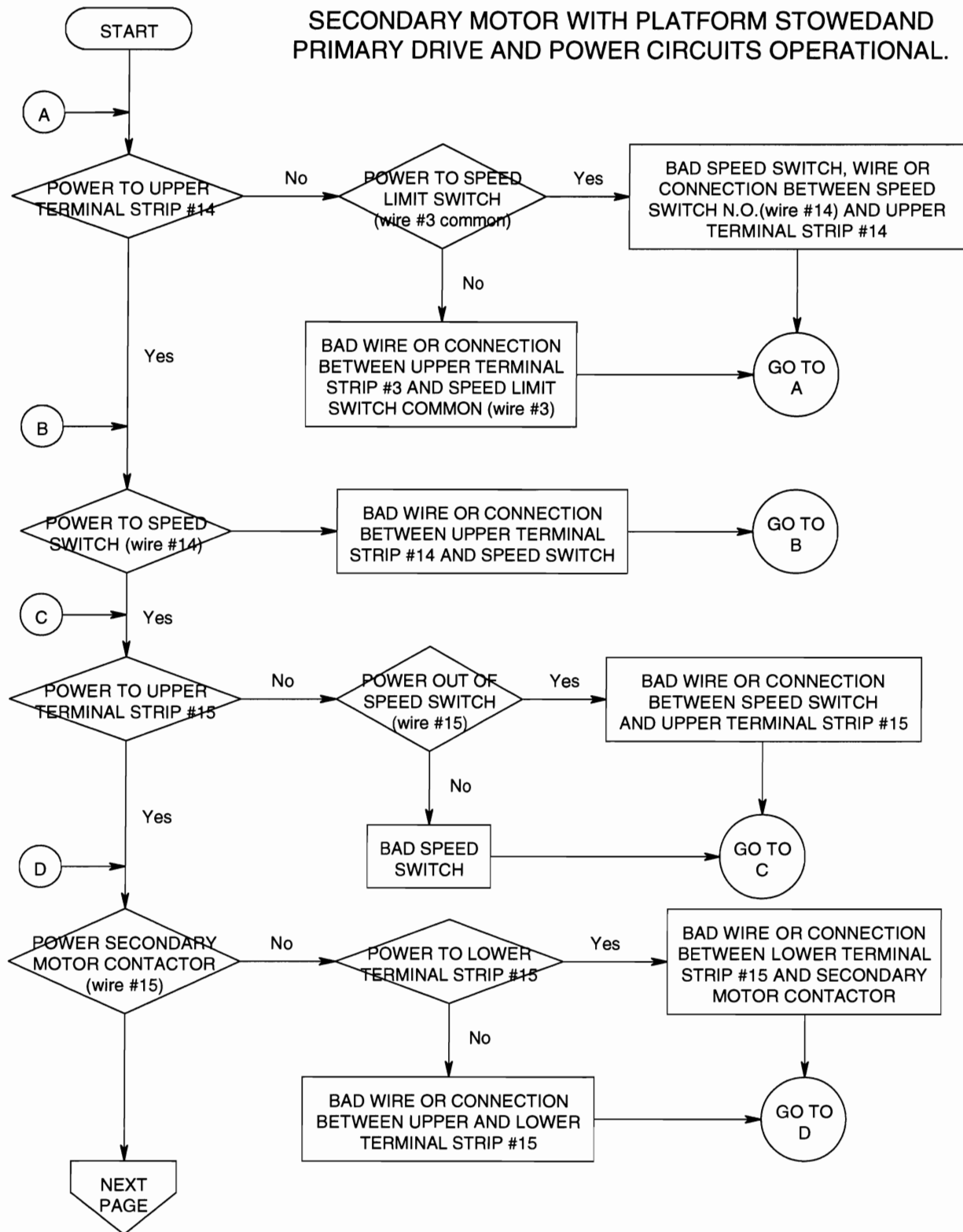


TROUBLESHOOTING

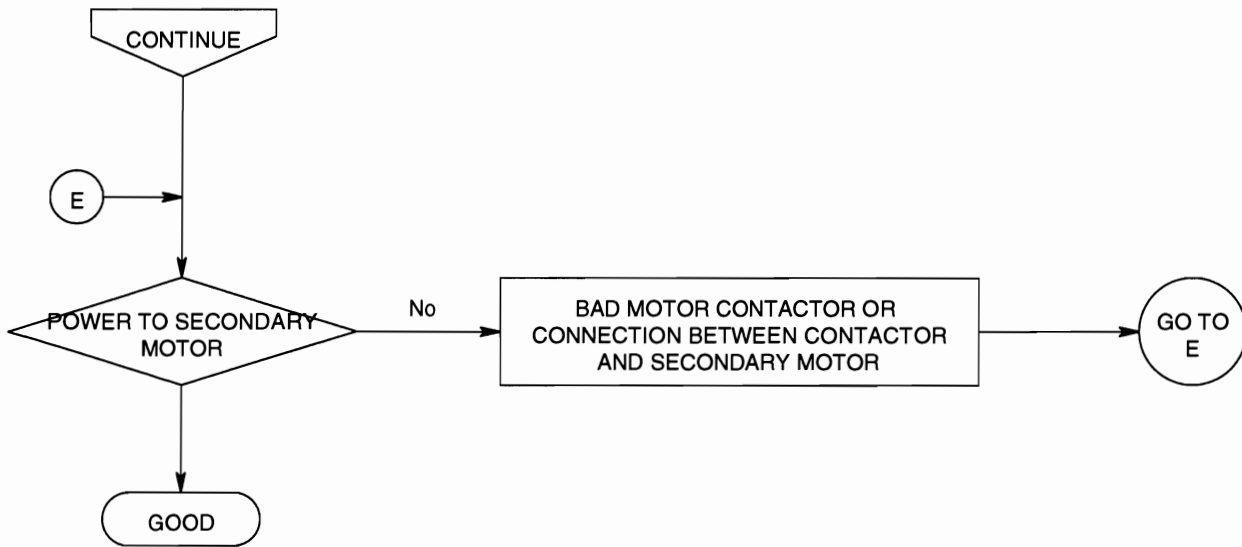


TROUBLESHOOTING

SECONDARY MOTOR WITH PLATFORM STOWED AND PRIMARY DRIVE AND POWER CIRCUITS OPERATIONAL.

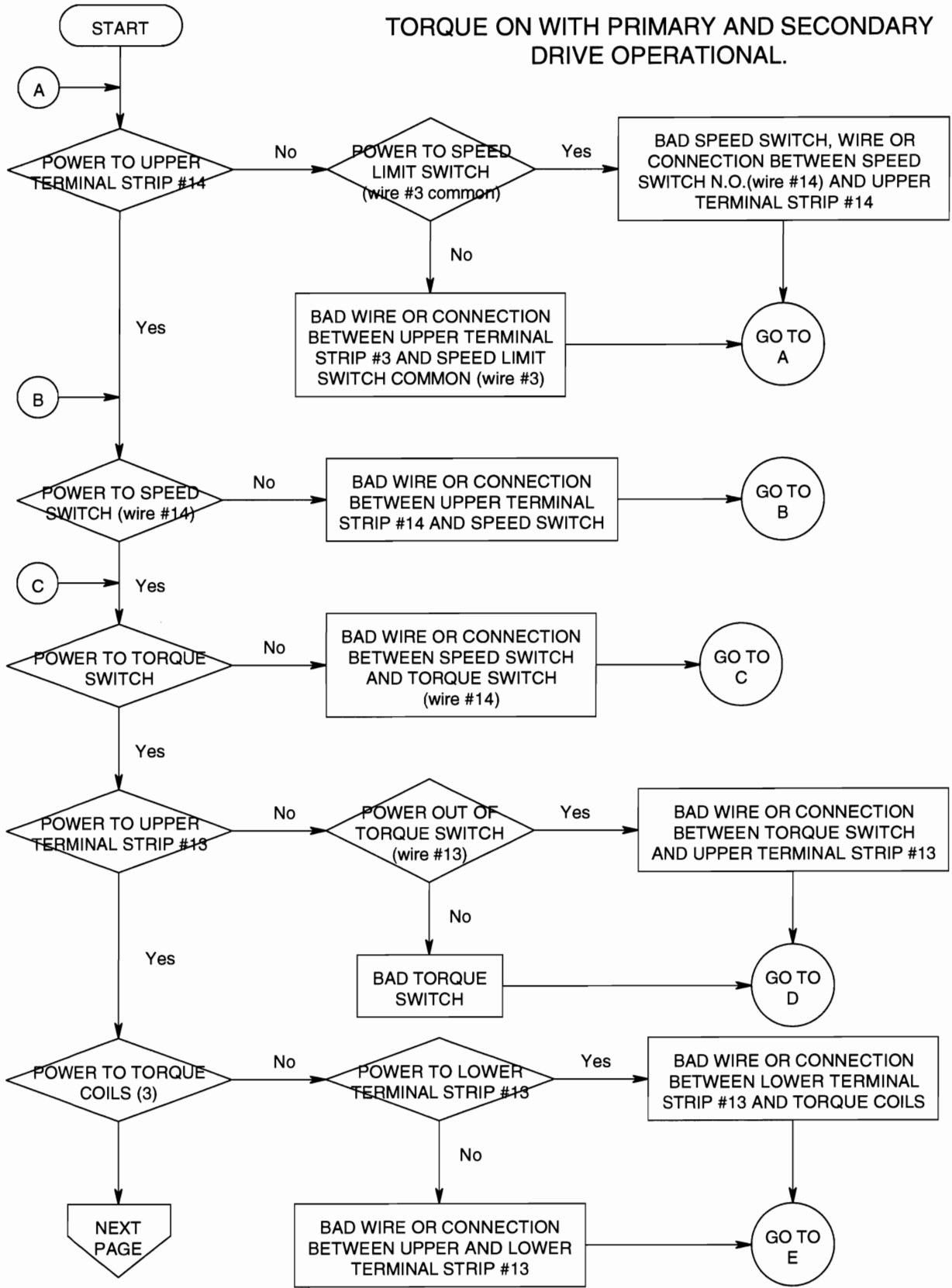


TROUBLESHOOTING

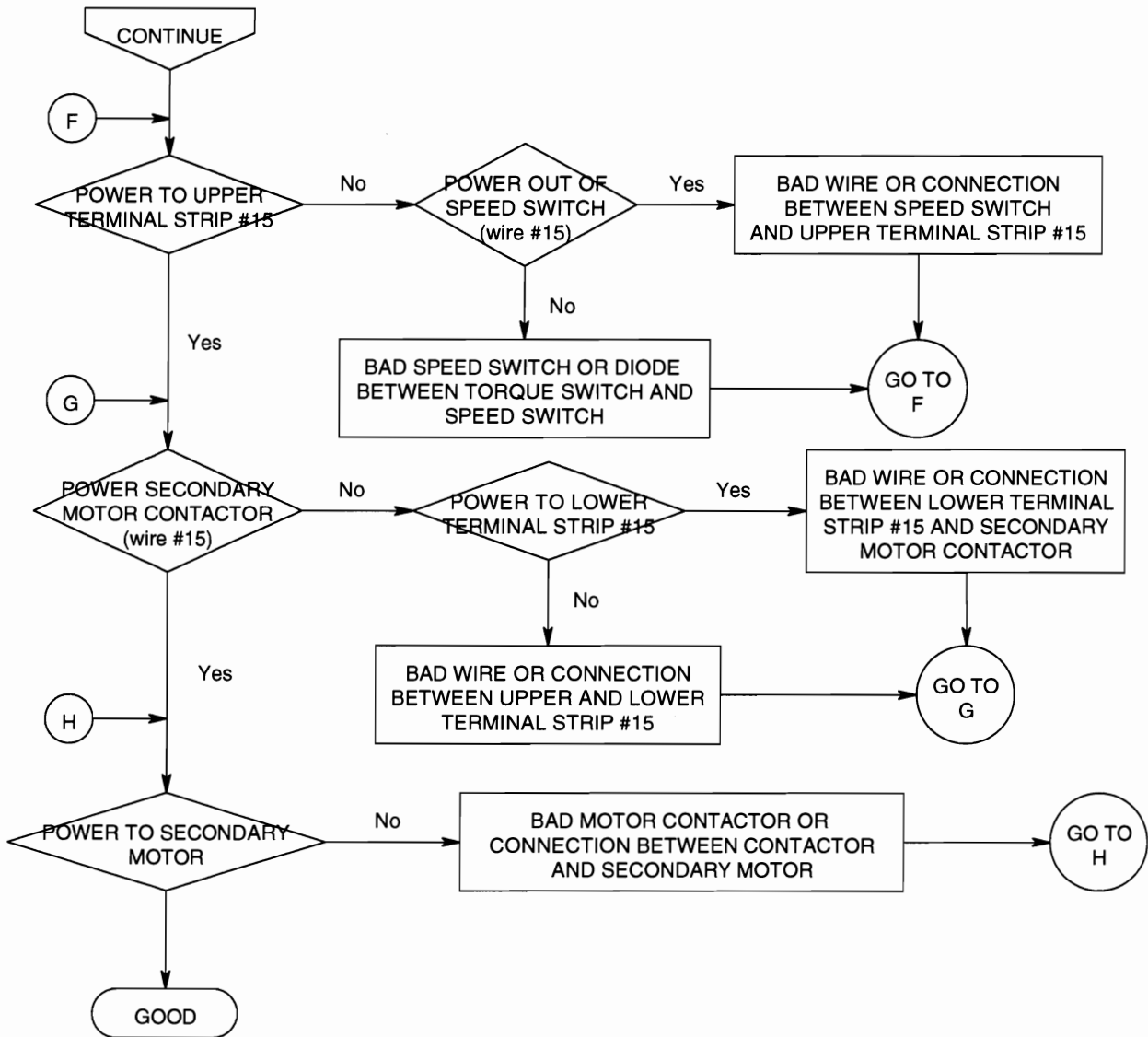


TROUBLESHOOTING

TORQUE ON WITH PRIMARY AND SECONDARY DRIVE OPERATIONAL.

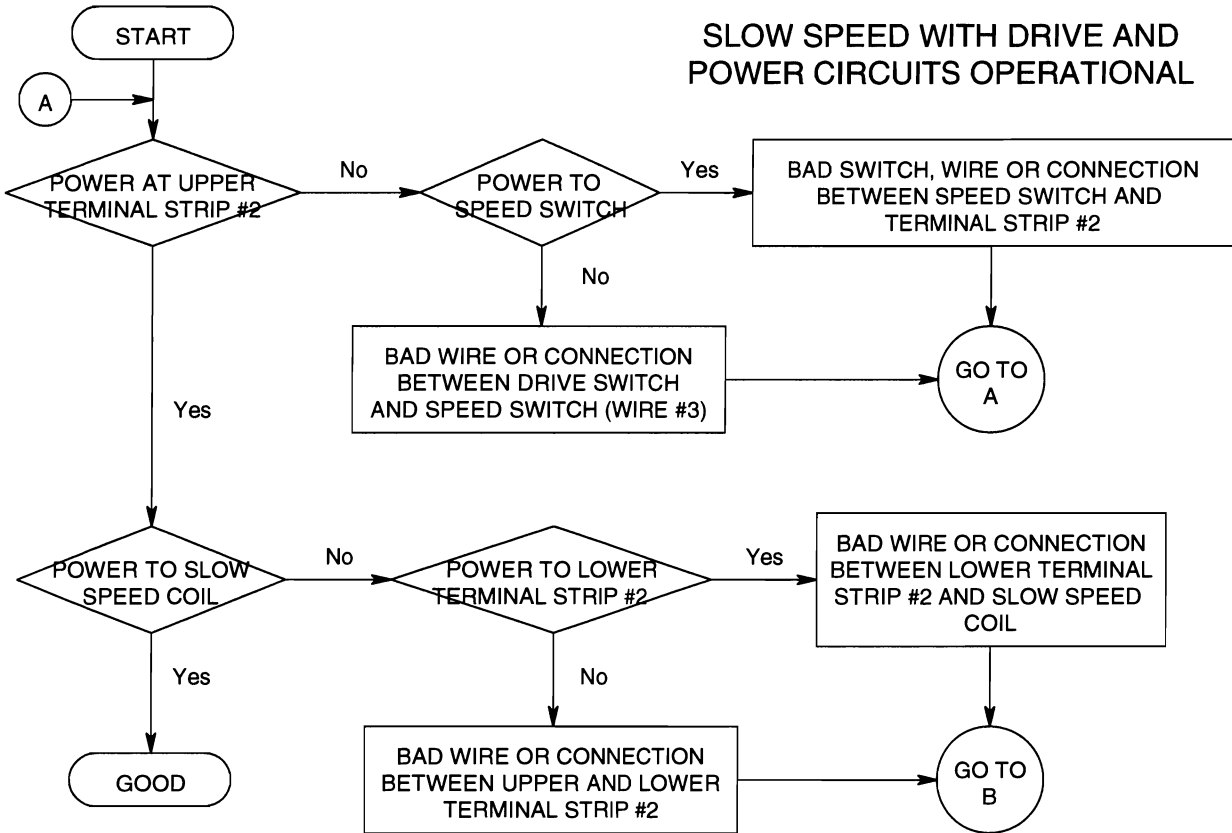


TROUBLESHOOTING



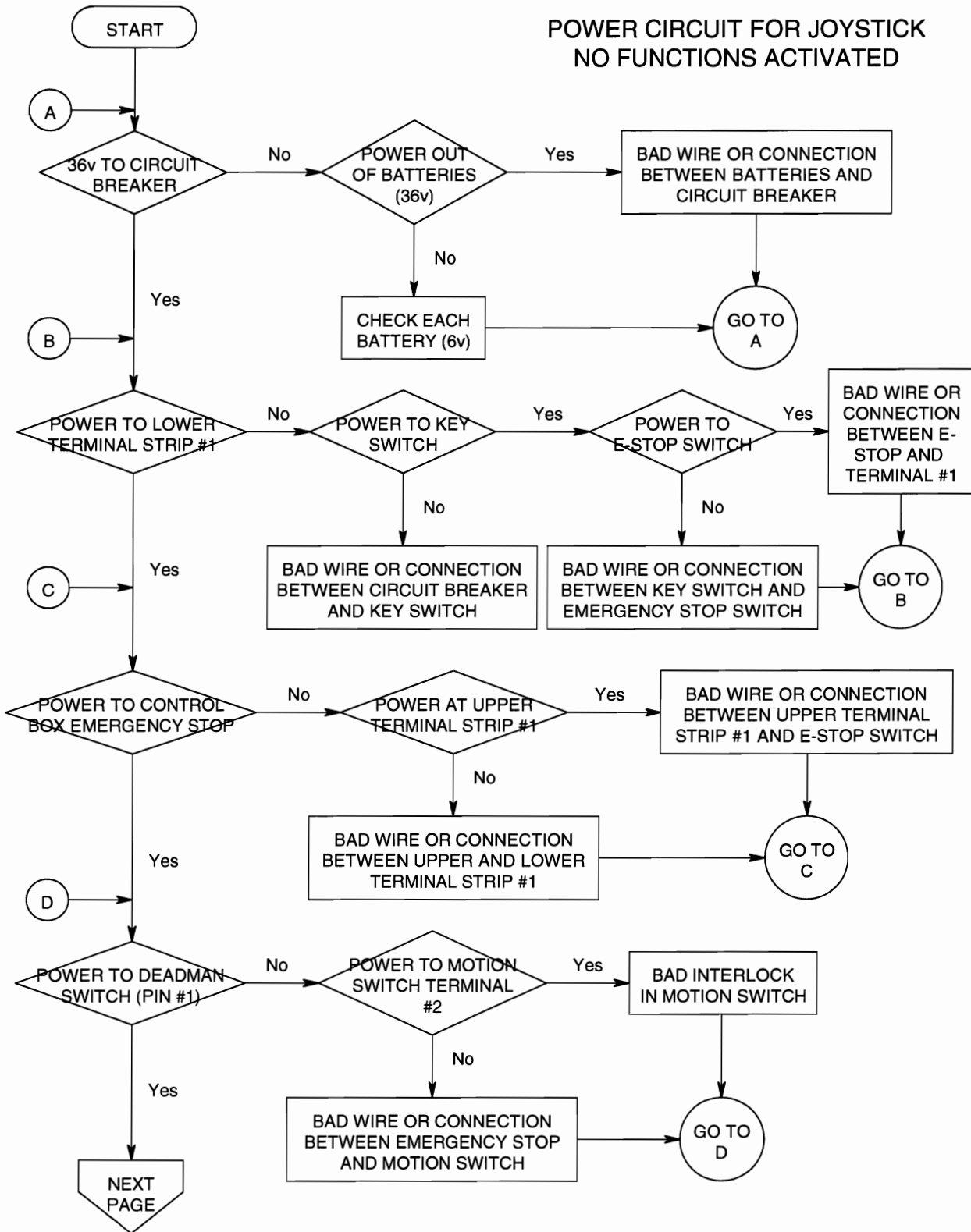
TROUBLESHOOTING

SLOW SPEED WITH DRIVE AND POWER CIRCUITS OPERATIONAL

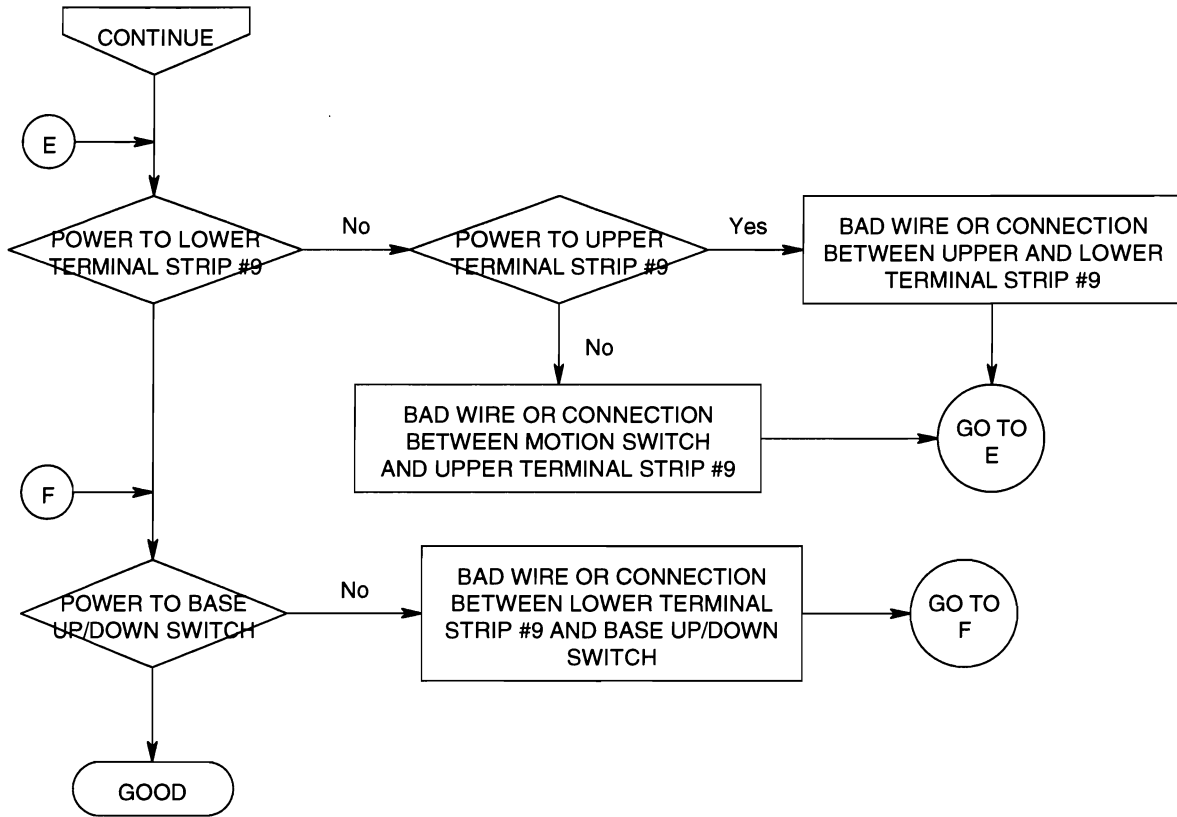


TROUBLESHOOTING

POWER CIRCUIT FOR JOYSTICK NO FUNCTIONS ACTIVATED

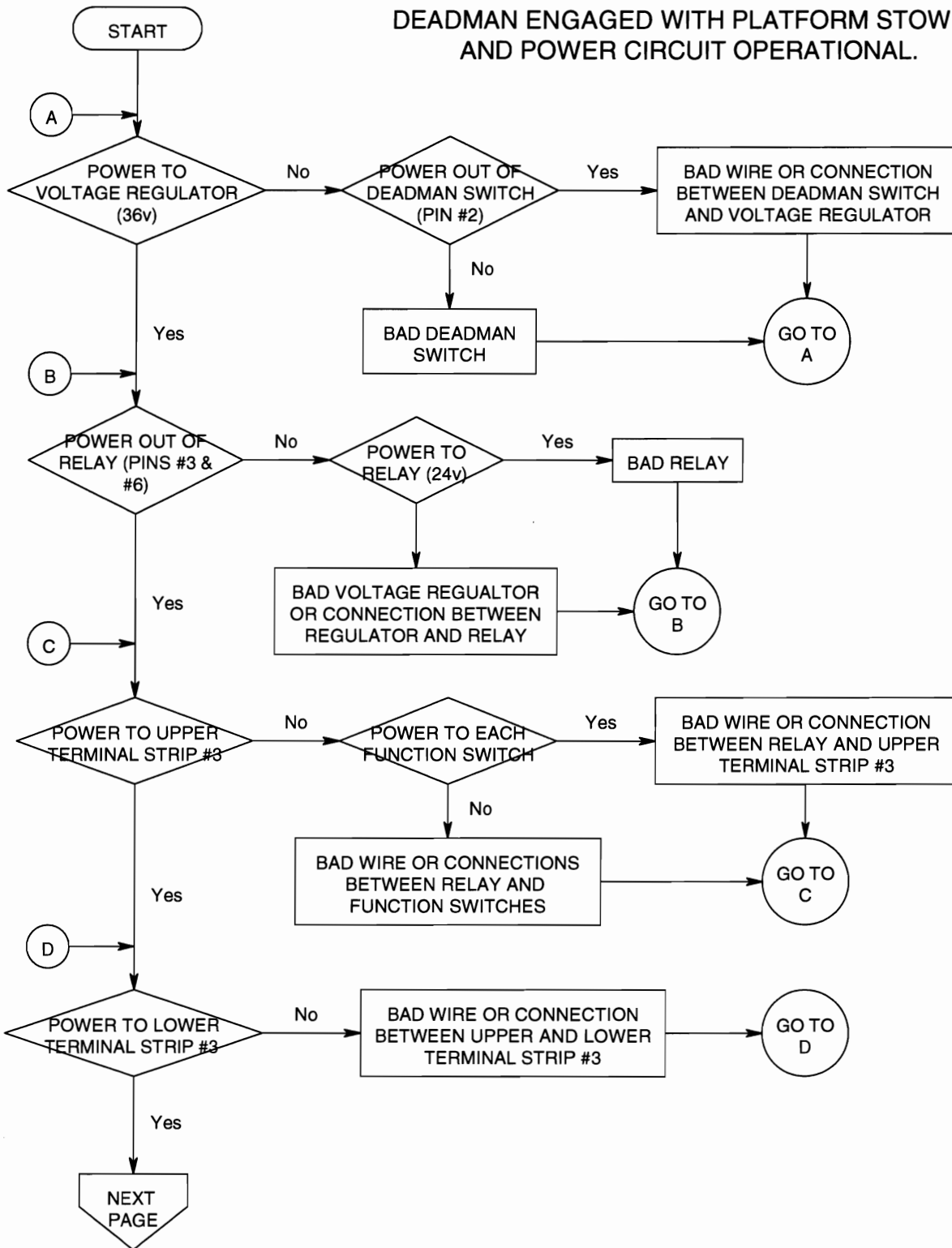


TROUBLESHOOTING

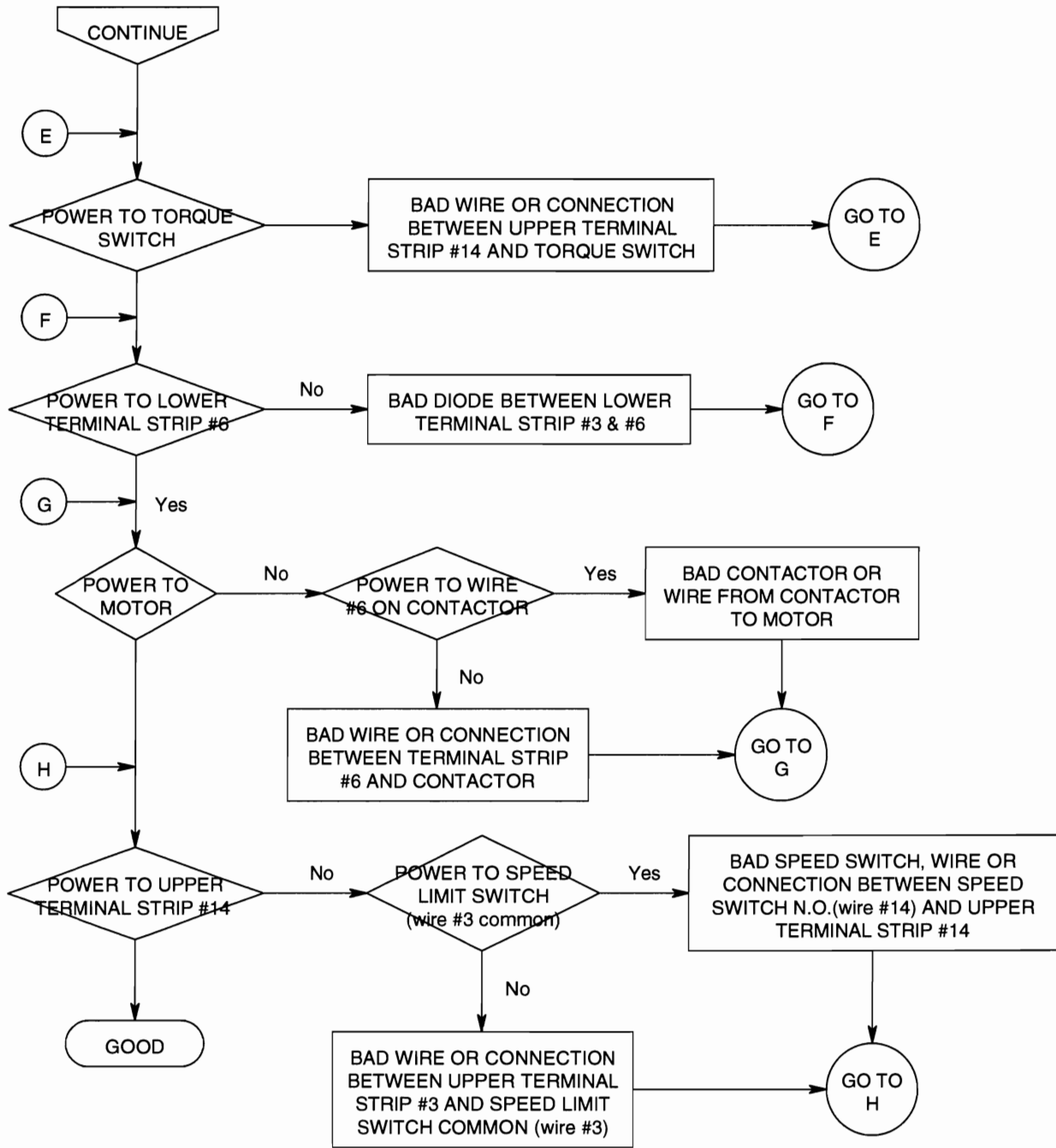


TROUBLESHOOTING

DEADMAN ENGAGED WITH PLATFORM STOWED AND POWER CIRCUIT OPERATIONAL.

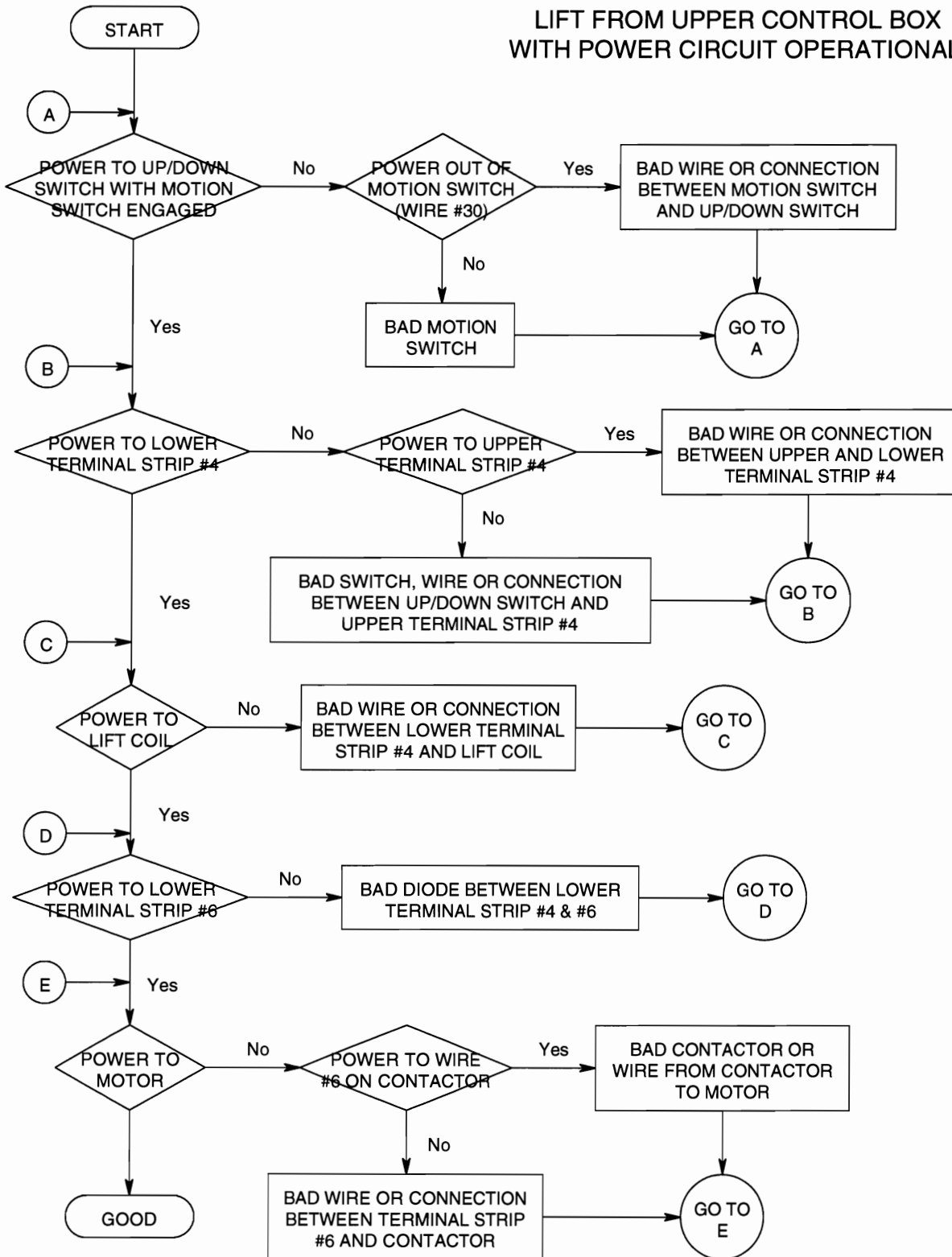


TROUBLESHOOTING



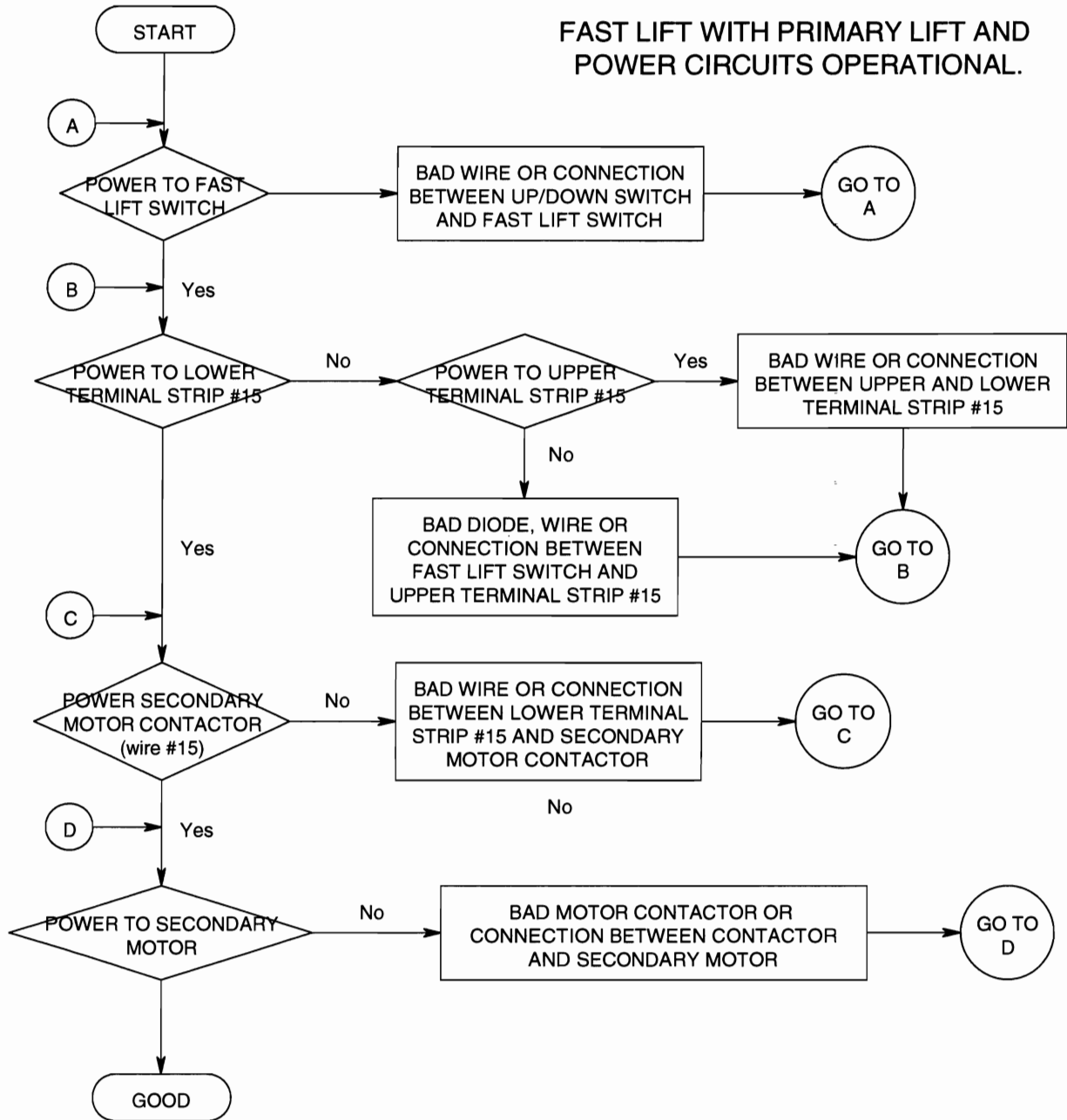
TROUBLESHOOTING

LIFT FROM UPPER CONTROL BOX WITH POWER CIRCUIT OPERATIONAL.



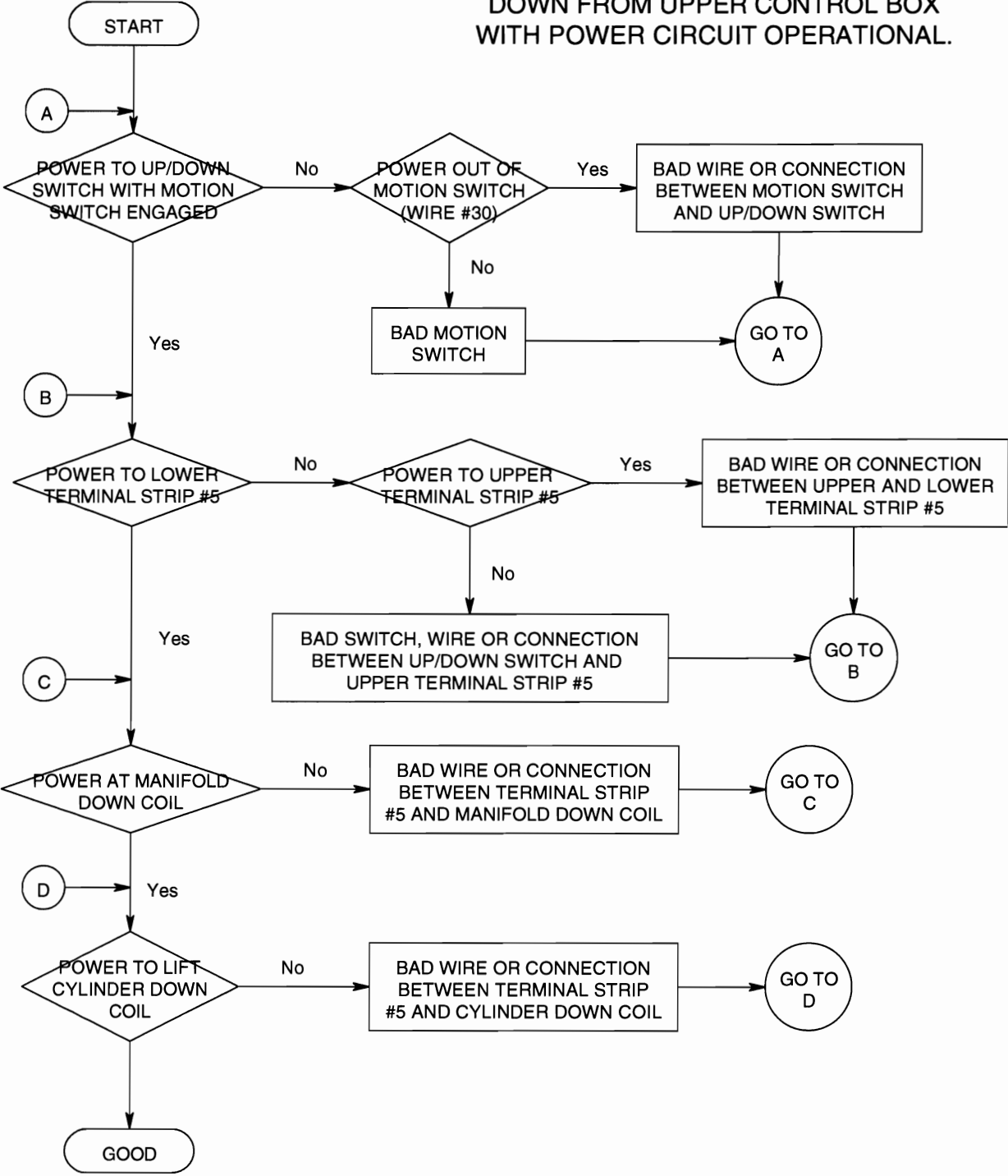
TROUBLESHOOTING

FAST LIFT WITH PRIMARY LIFT AND POWER CIRCUITS OPERATIONAL.



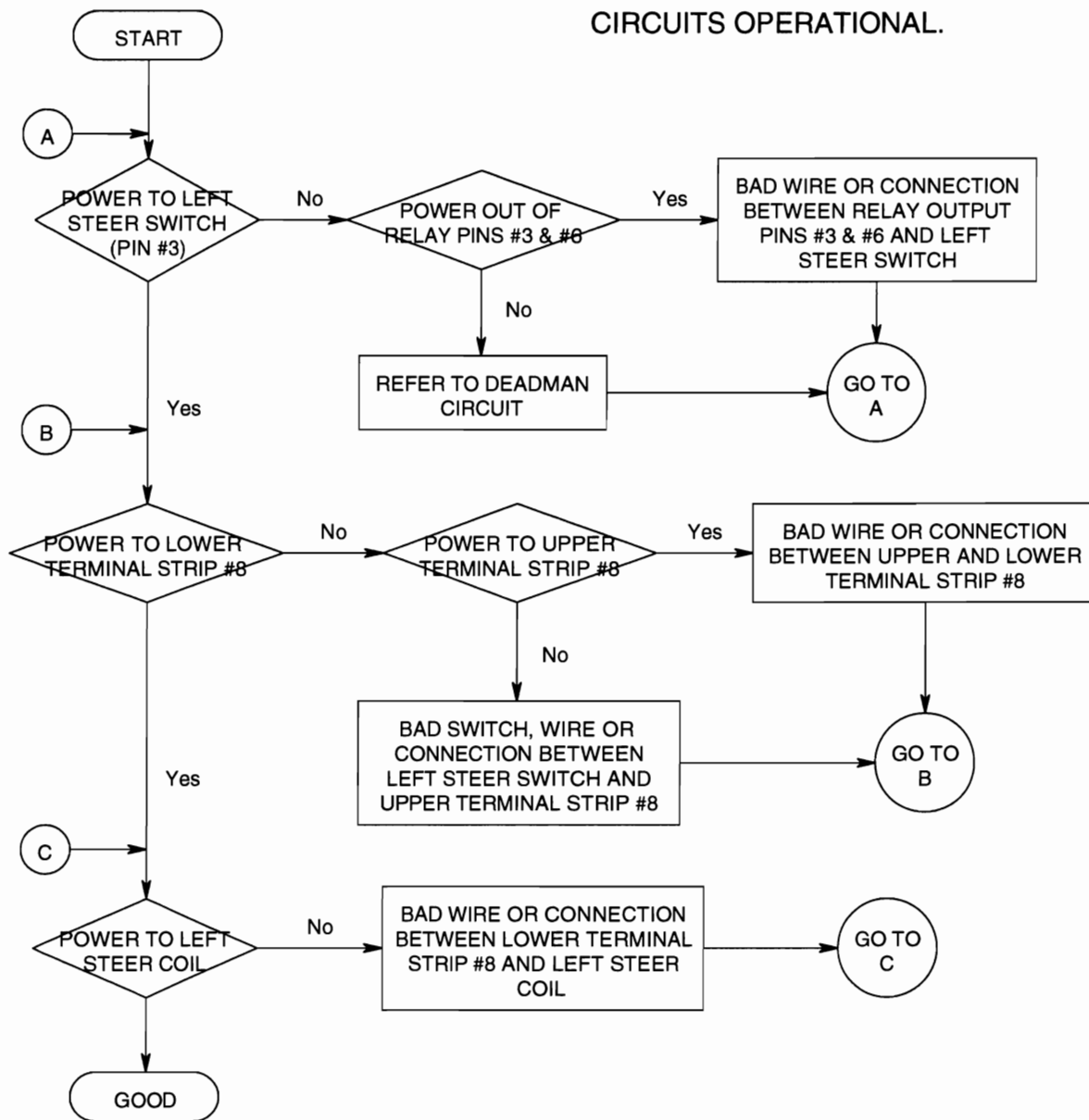
TROUBLESHOOTING

**DOWN FROM UPPER CONTROL BOX
WITH POWER CIRCUIT OPERATIONAL.**



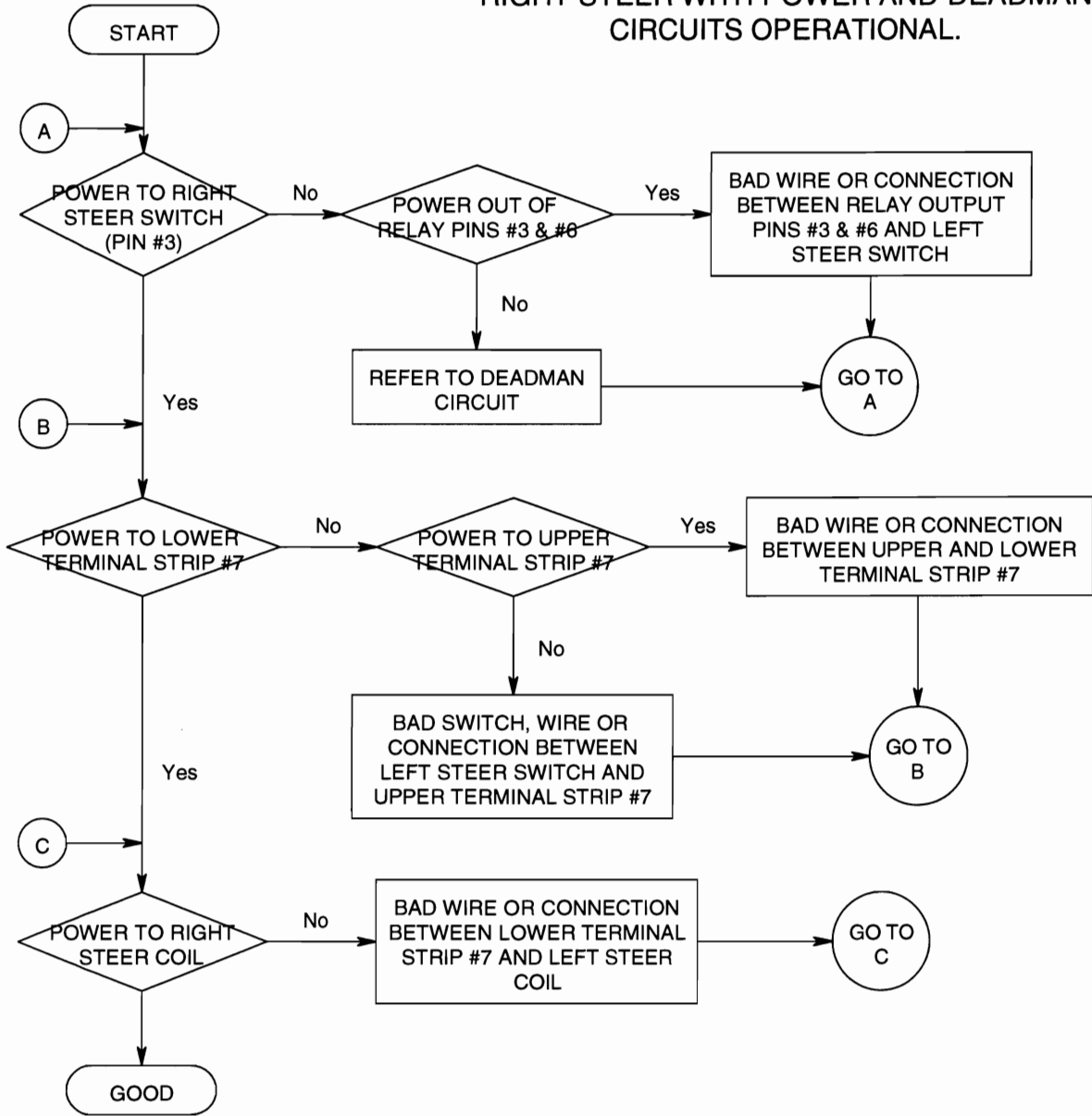
TROUBLESHOOTING

LEFT STEER WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.



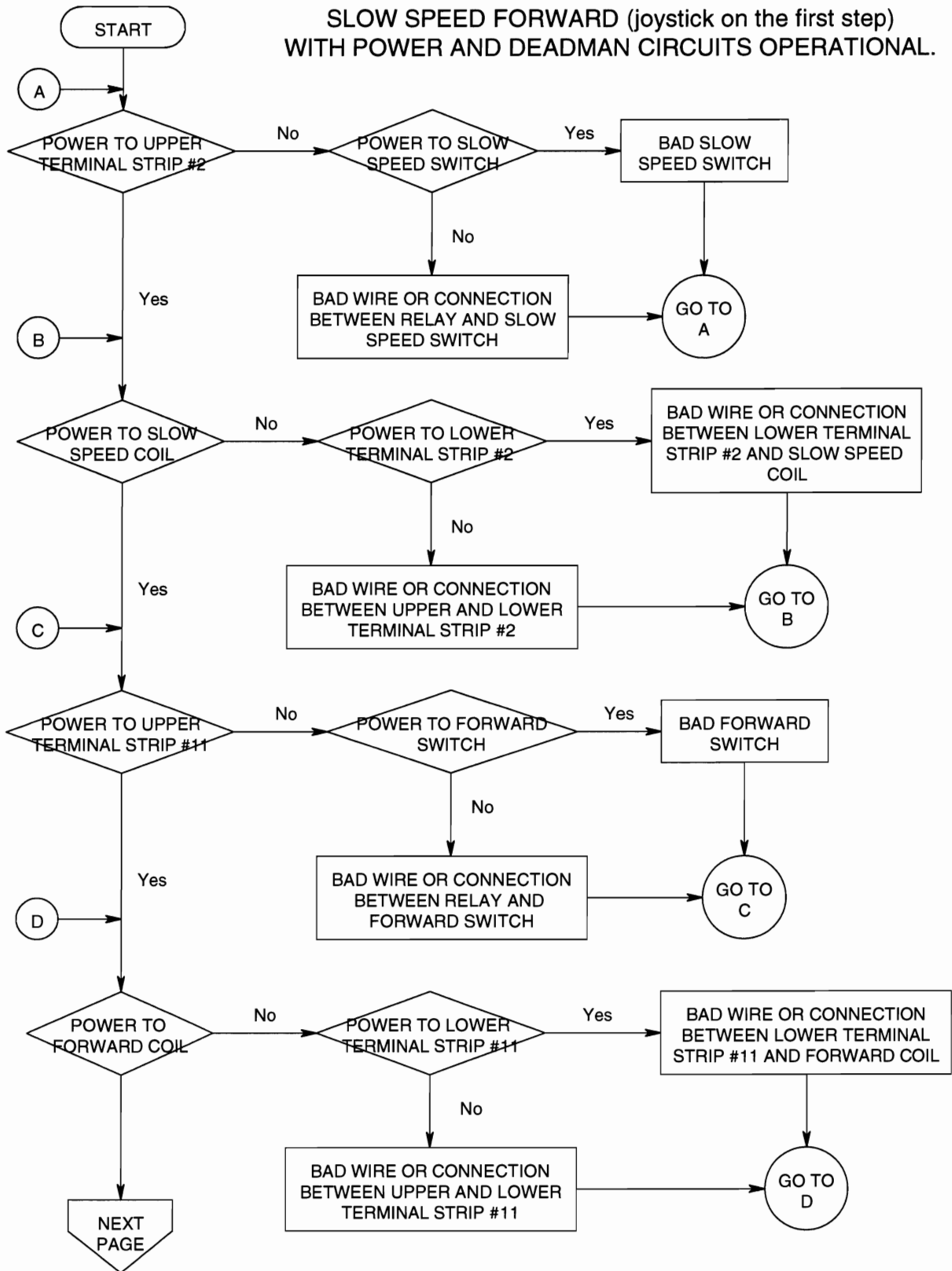
TROUBLESHOOTING

**RIGHT STEER WITH POWER AND DEADMAN
CIRCUITS OPERATIONAL.**

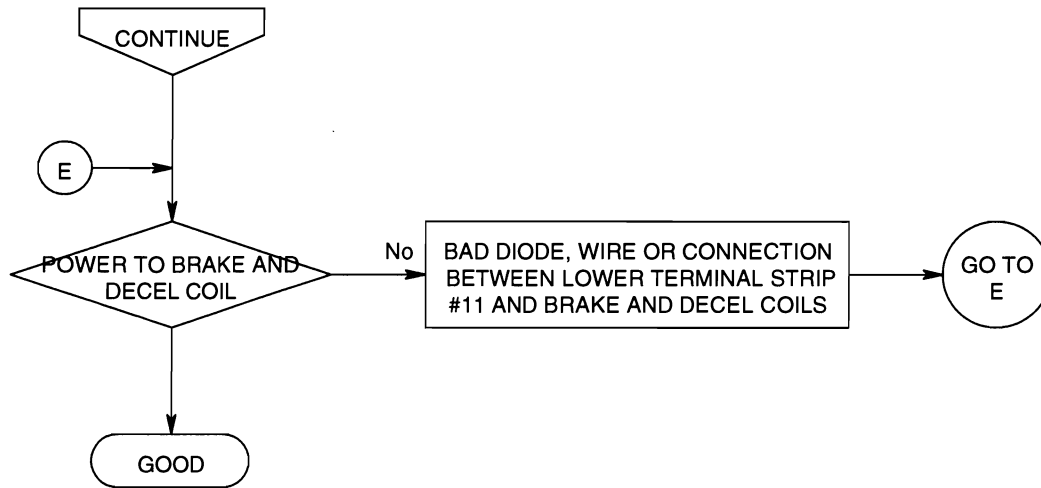


TROUBLESHOOTING

**SLOW SPEED FORWARD (joystick on the first step)
WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.**

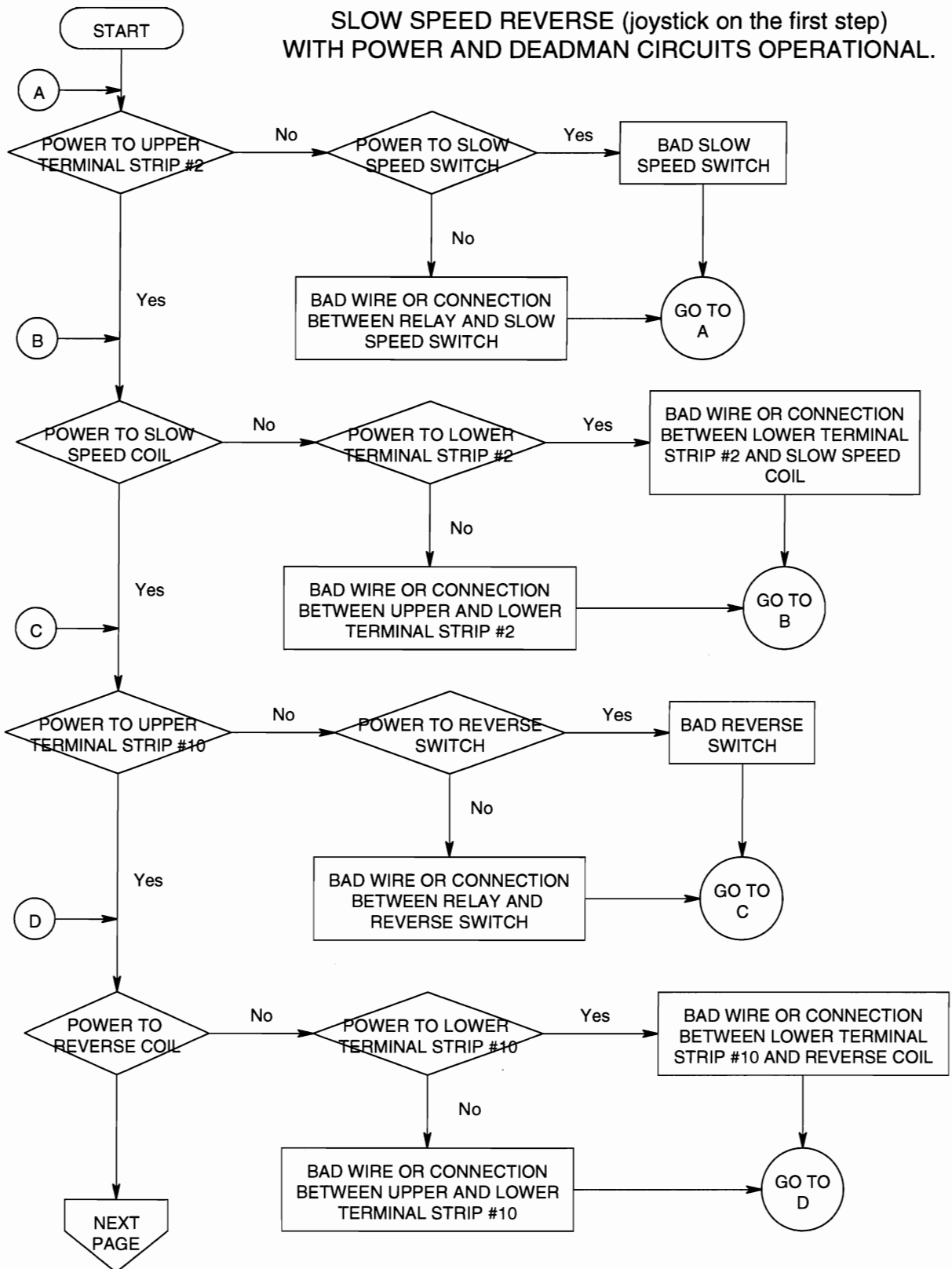


TROUBLESHOOTING

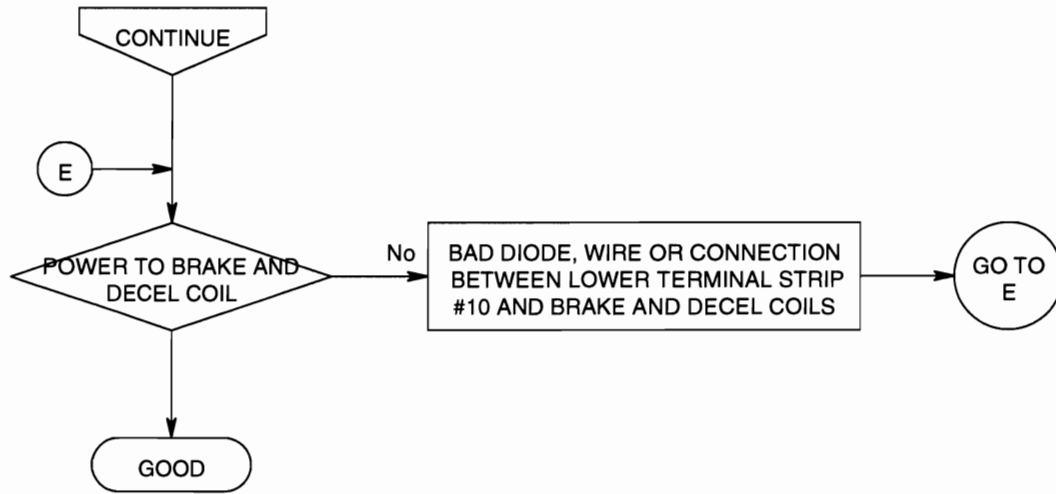


TROUBLESHOOTING

**SLOW SPEED REVERSE (joystick on the first step)
WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.**

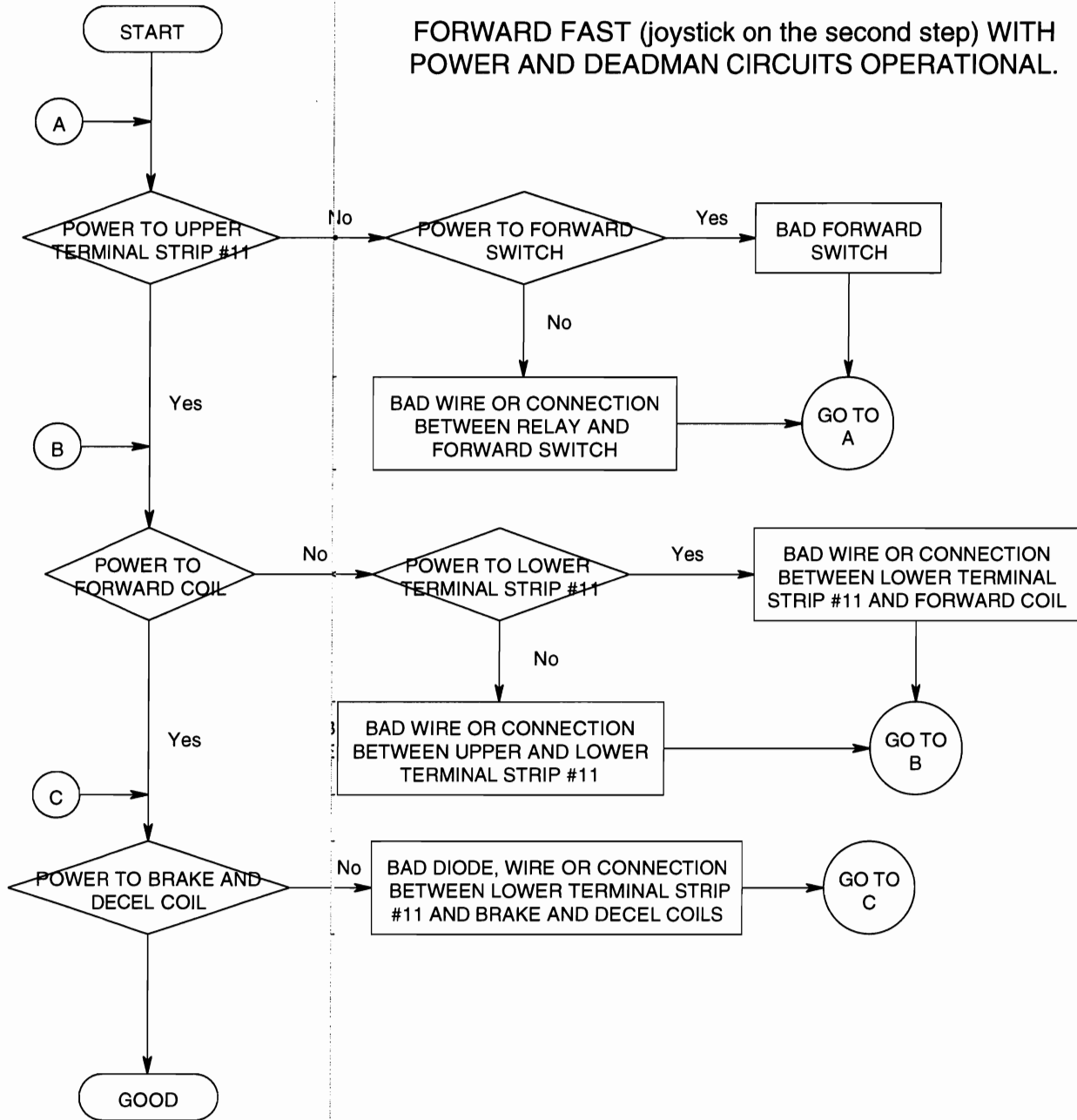


TROUBLESHOOTING



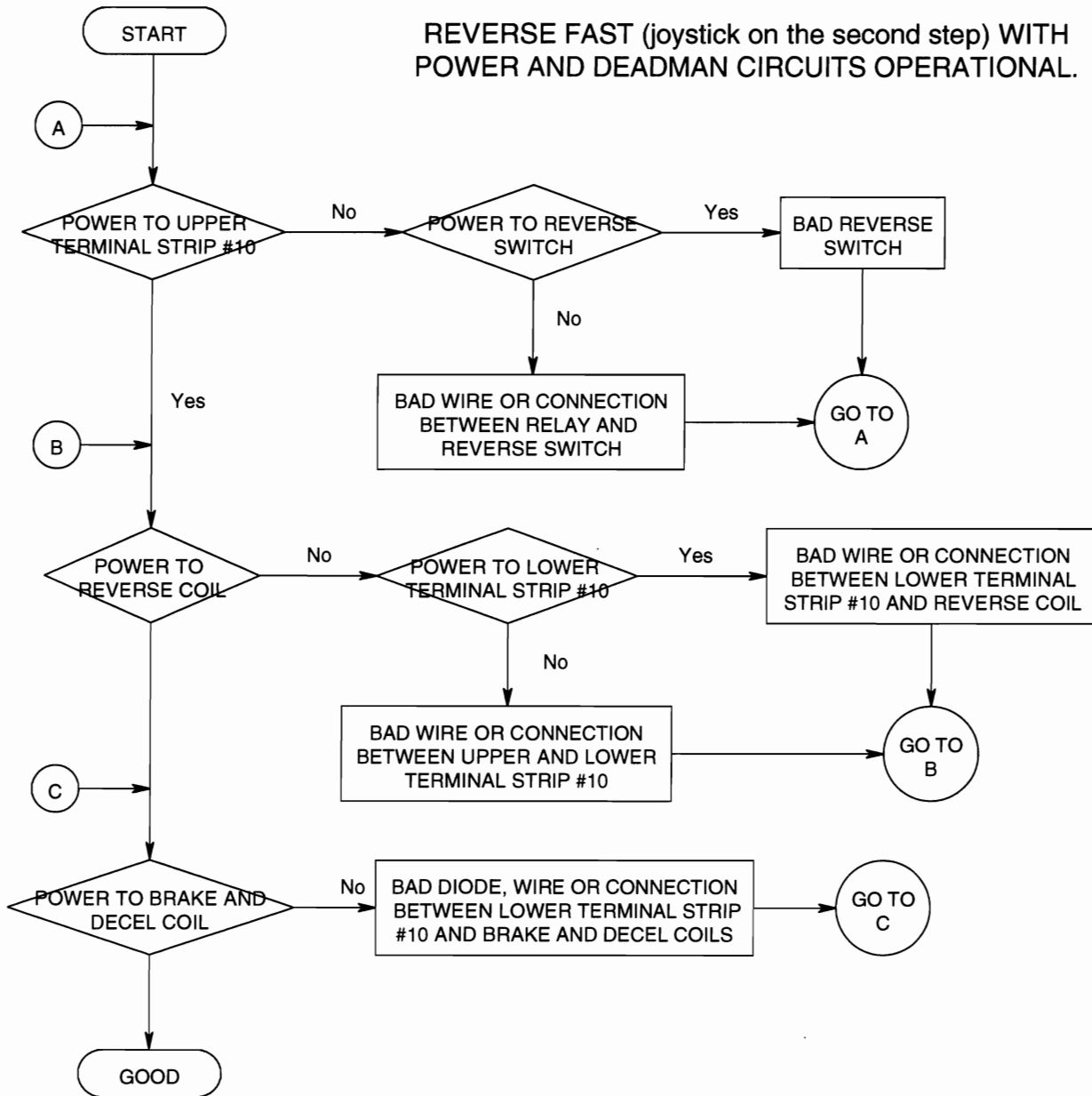
TROUBLESHOOTING

FORWARD FAST (joystick on the second step) WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.



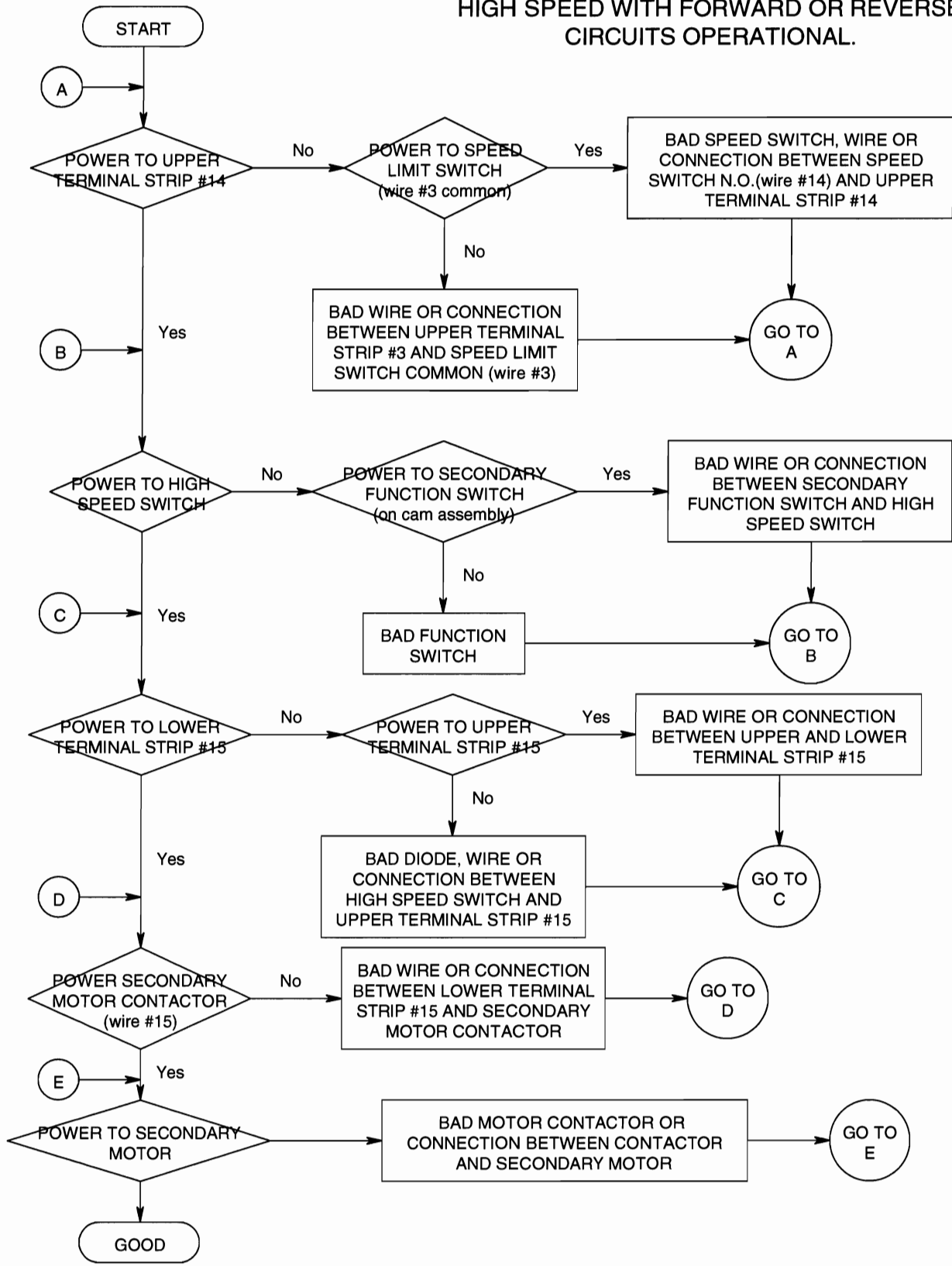
TROUBLESHOOTING

REVERSE FAST (joystick on the second step) WITH POWER AND DEADMAN CIRCUITS OPERATIONAL.



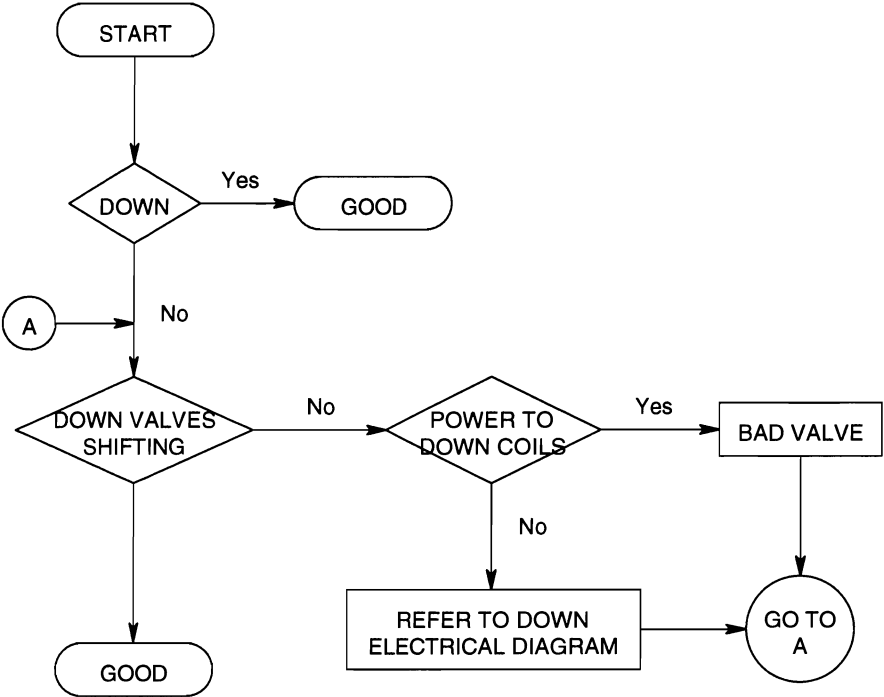
TROUBLESHOOTING

HIGH SPEED WITH FORWARD OR REVERSE CIRCUITS OPERATIONAL.



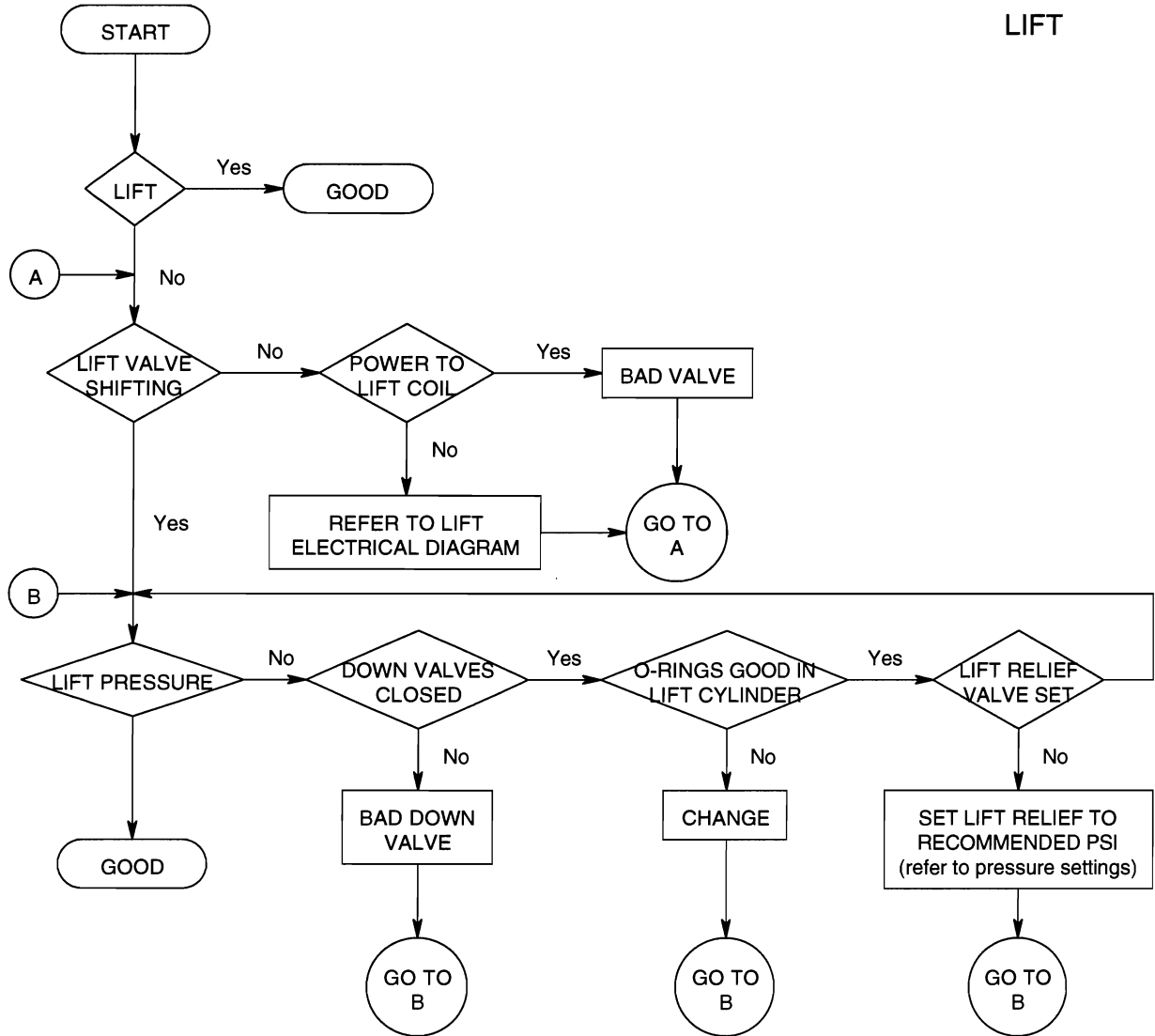
TROUBLESHOOTING

DOWN



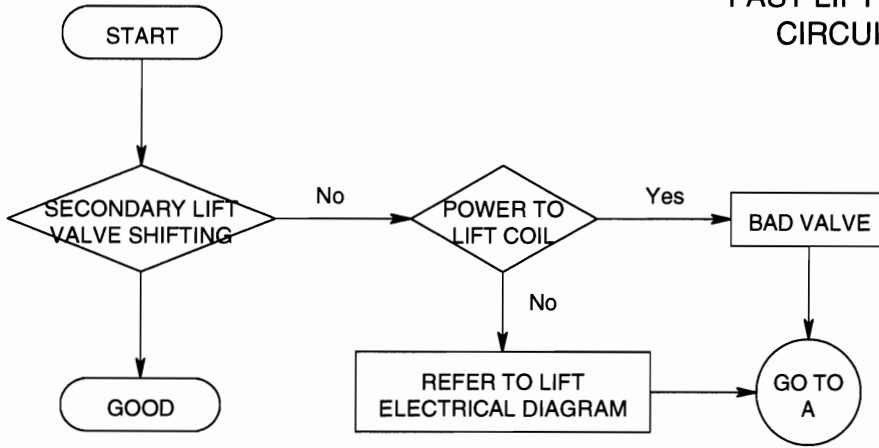
TROUBLESHOOTING

LIFT



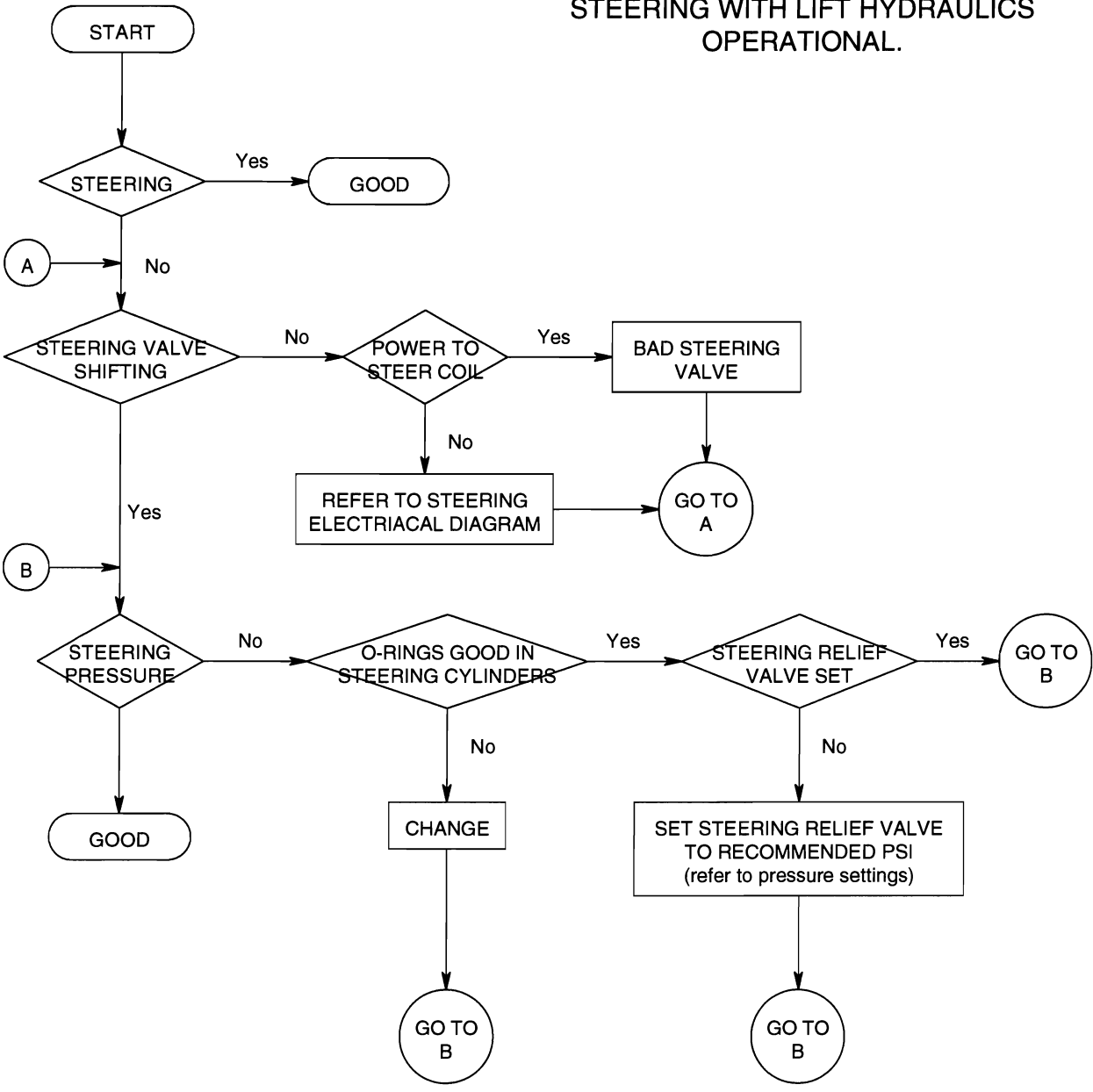
TROUBLESHOOTING

FAST LIFT WITH PRIMARY LIFT
CIRCUIT OPERATIONAL.



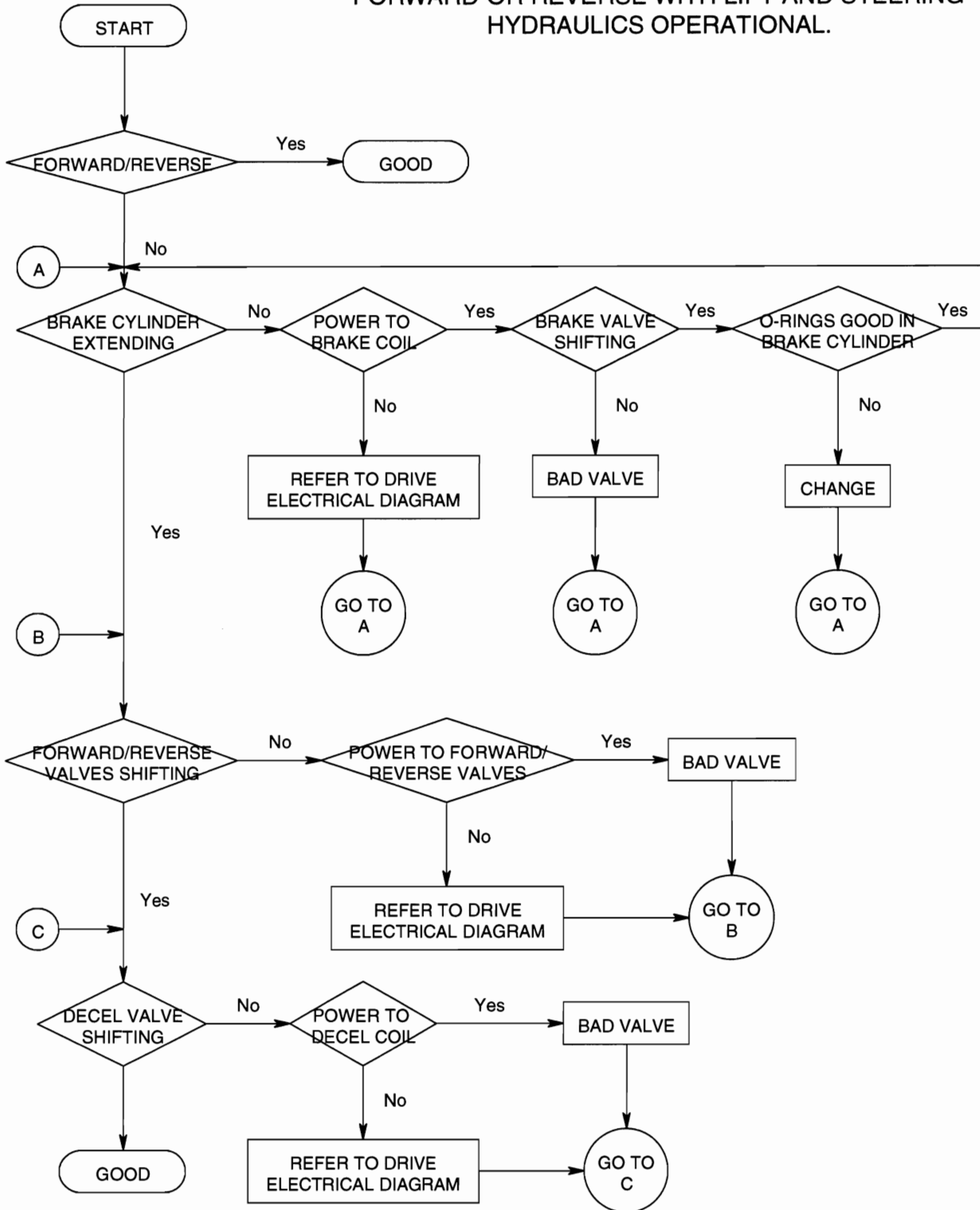
TROUBLESHOOTING

STEERING WITH LIFT HYDRAULICS OPERATIONAL.



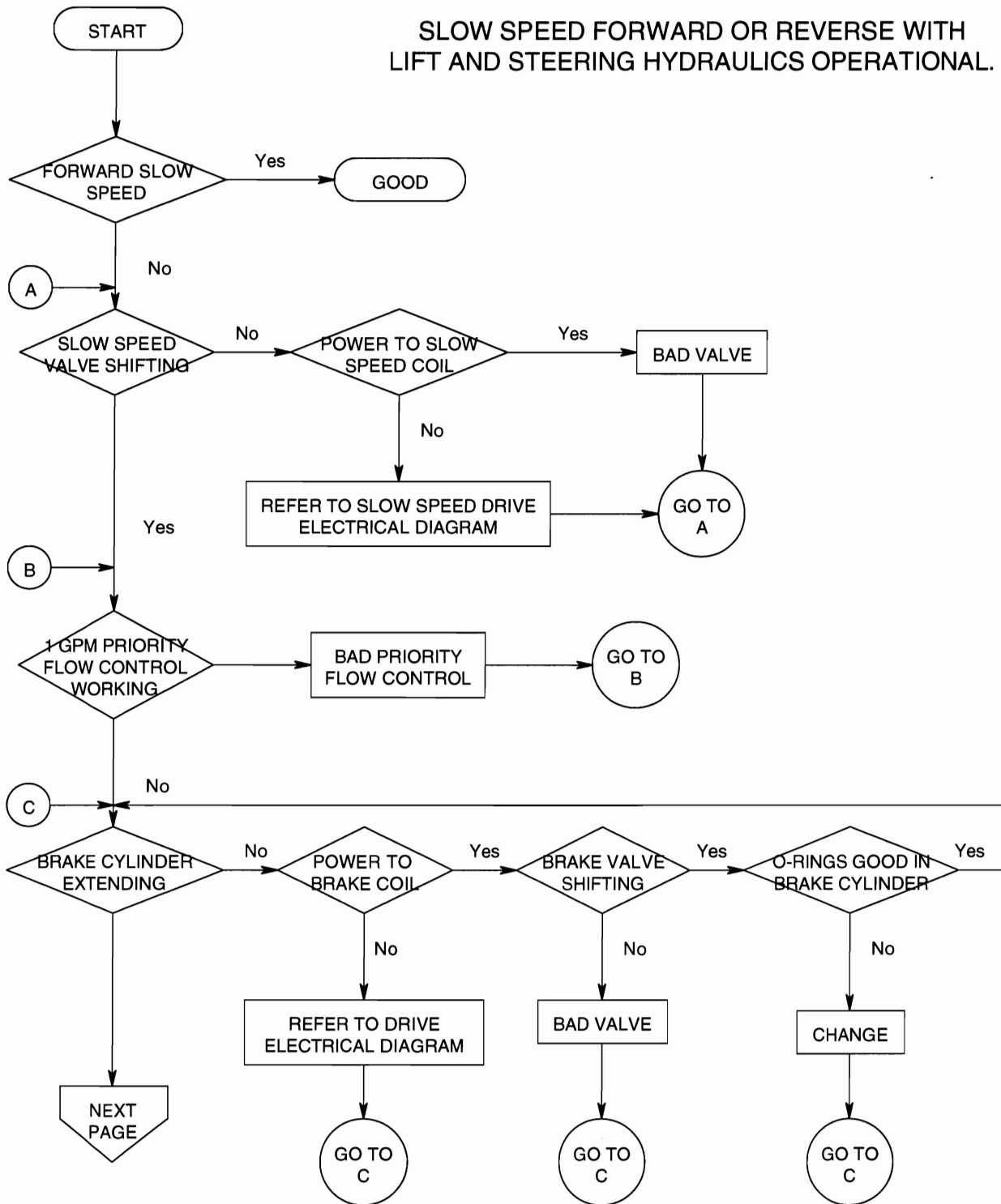
TROUBLESHOOTING

FORWARD OR REVERSE WITH LIFT AND STEERING HYDRAULICS OPERATIONAL.

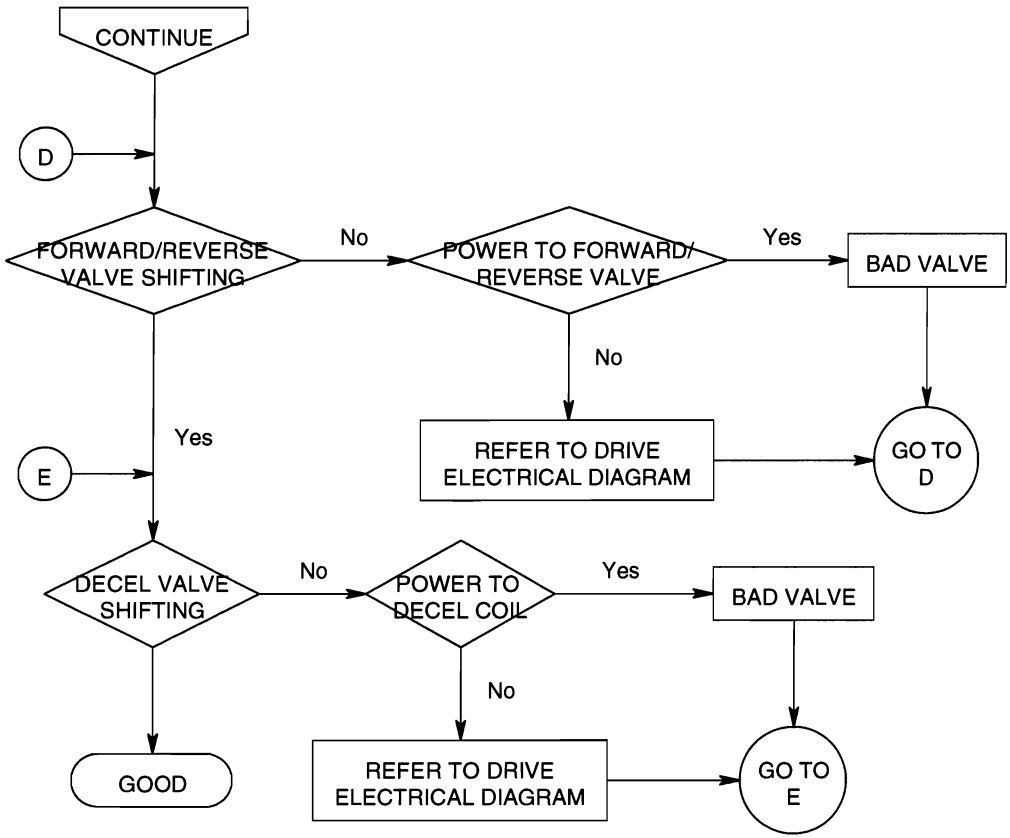


TROUBLESHOOTING

SLOW SPEED FORWARD OR REVERSE WITH LIFT AND STEERING HYDRAULICS OPERATIONAL.

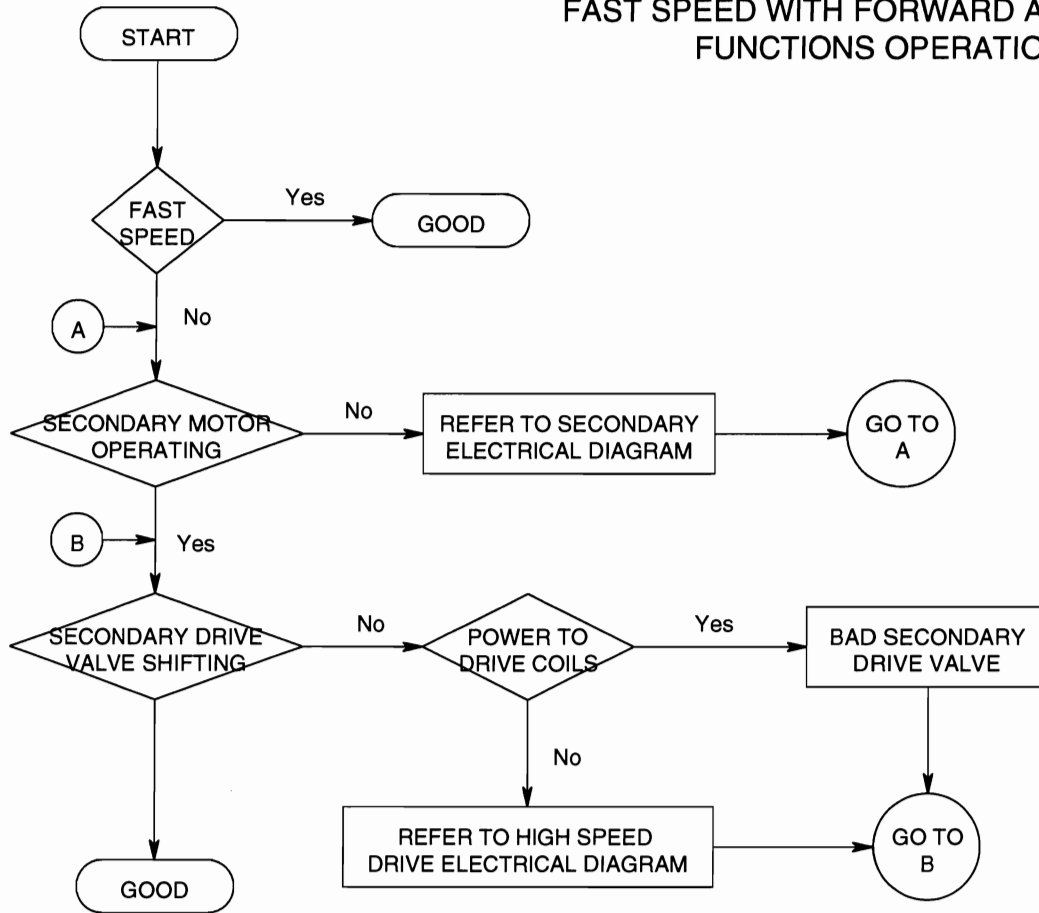


TROUBLESHOOTING



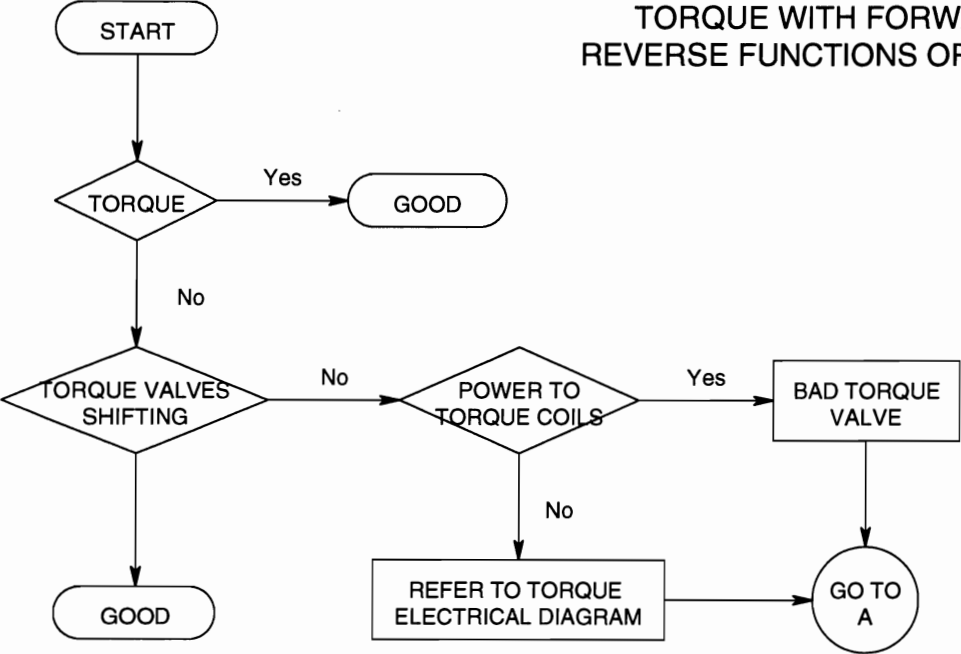
TROUBLESHOOTING

FAST SPEED WITH FORWARD AND REVERSE FUNCTIONS OPERATIONAL.



TROUBLESHOOTING

TORQUE WITH FORWARD AND REVERSE FUNCTIONS OPERATIONAL.



TROUBLESHOOTING

PRESSURE SETTINGS

STEERING RELIEF

DEAD HEAD STEERING TO ONE SIDE. PRESSURE SHOULD BE SET AT 1500 PSI FOR STANDARD TIRE PACKAGE, AND 1750 PSI FOR FOAM FILLED TIRE OPTION.

LIFT RELIEF

DEAD HEAD LIFT TO FULL EXTENSION. PRESSURE SHOULD BE SET AS FOLLOWS:

1948 - 1725 PSI
2548 - 2100 PSI
1958 - 1850 PSI
2558 - 2150PSI

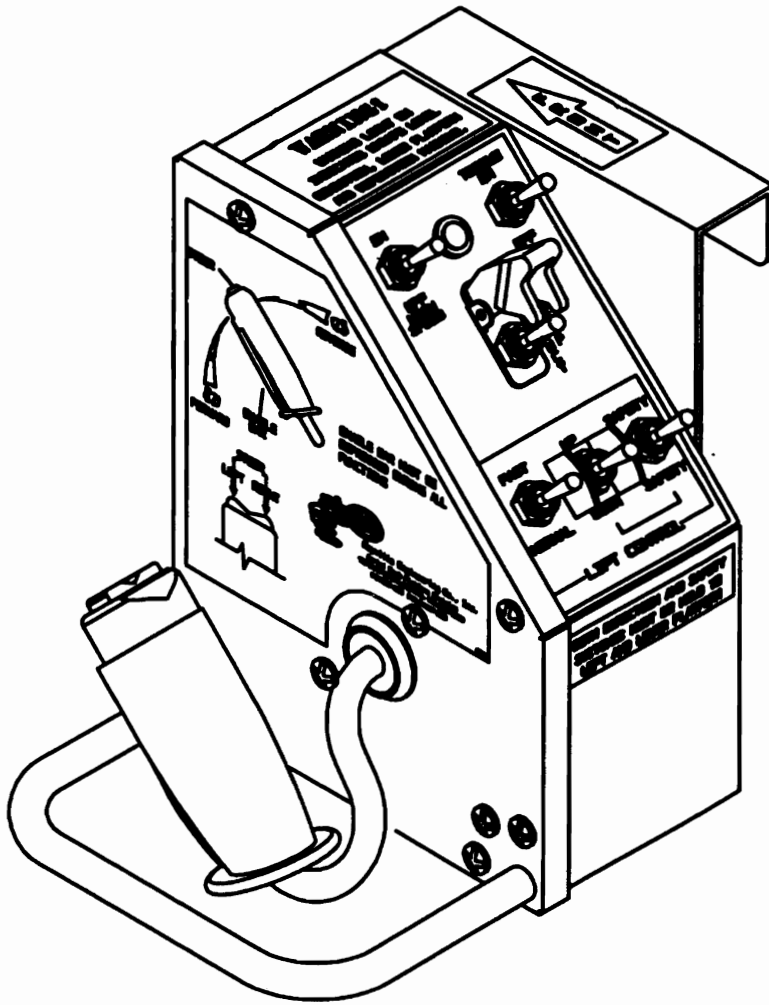
COUNTER BALANCE VALVE

DISCONNECT WIRES FROM THE DRIVE 4-WAY VALVE. OPERATE THE FORWARD FUNCTION, PRESSURE SHOULD BE SET TO 450 PSI. WITH THE WIRES DISCONNECTED THIS WILL ALLOW THE HYDRUALIC FLUID TO DUMP DIRECTLY OVER THE COUNTER BALANCE VALVE.

TROUBLESHOOTING

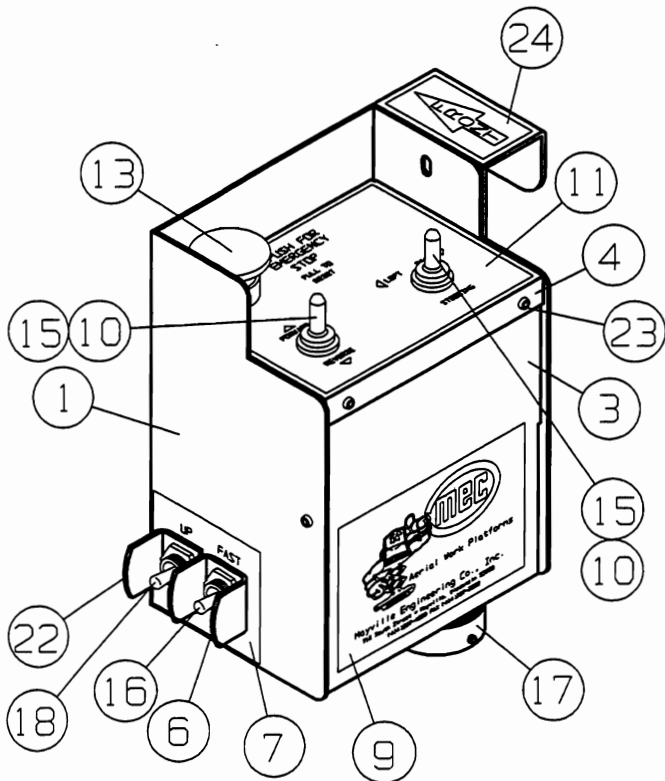
HITE-MASTER

Control Boxes

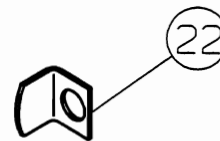
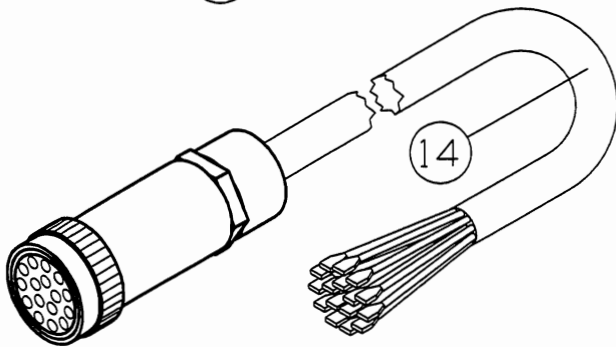
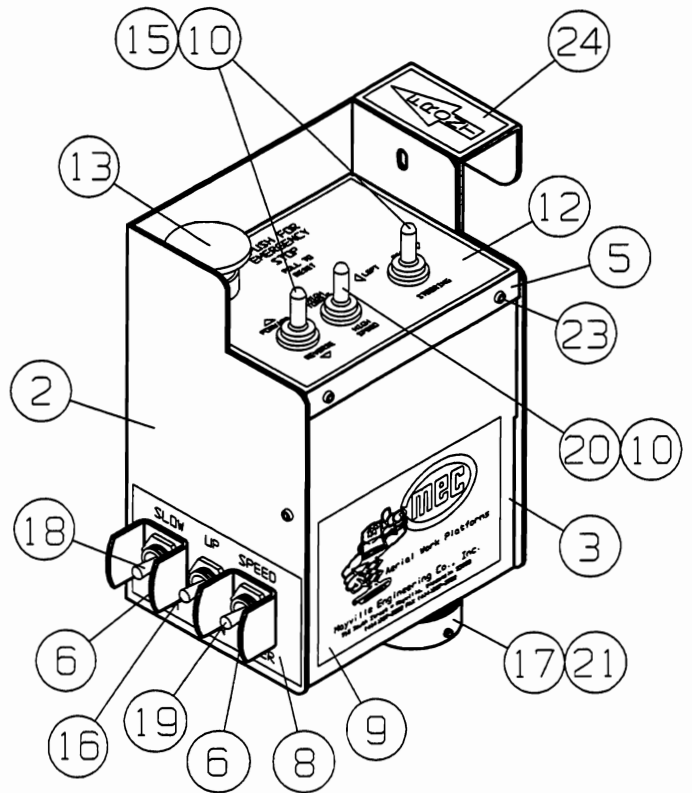


NOTES:

2107
STANDARD



2992
HIGH TORQUE



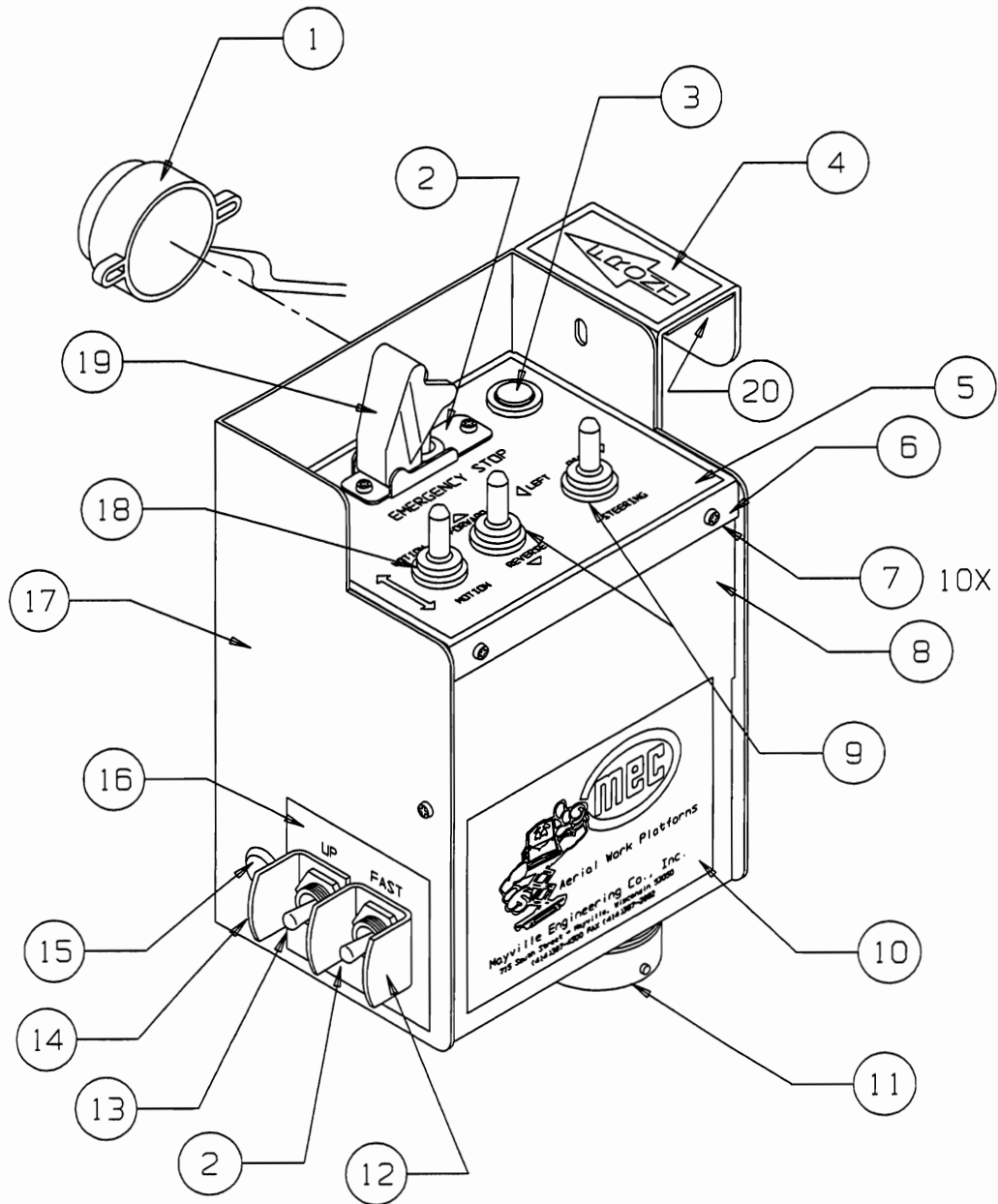
ART-633
BM13882
06/27/97

FIG. 3-1 Toggle Switch Control Boxes Pre-1992

ITEM	PART NO.	QTY.	DESCRIPTION
1	2089	1	WRAPPER WELDMENT
2	2318	1	WRAPPER WELMENT HIGH TORQUE
3	2095	1	PANEL, FRONT & BOTTOM
4	2094	1	COVER
5	2991	1	COVER HIGH TORQUE
6	1313	2	SWITCH GUARD
7	6572	1	DECAL - CONTROL BOX SIDE
8	6575	1	DECAL - CONTROL BOX SIDE HIGH TORQUE
9	6839	1	DECAL - CONTROL BOX FRONT
10	5692	3	BOOT - TOGGLE
11	6573	1	DECAL - CONTROL BOX TOP
12	6574	1	DECAL - CONTROL BOX TOP HIGH TORQUE
13	7800	1	SWITCH - EMERGENCY STOP
14	5983	1	HARNESS - CONTROL BOX W/CONNECTOR
15	5694	2	SWITCH - DP, DT, SR TOGGLE
16	5979	1	SWITCH - DP,DT, SR 2-WAY INTERLOCK TOGGLE
17	5982	1	HARNESS - CONTROL BOX W/CONNECTOR
18	5630	1	SWITCH - SP, ST TOGGLE
19	6234	1	SWITCH - SP, ST TOGGLE
20	5230	1	SWITCH - SP, DT, SR TOGGLE
21	6296	1	HARNESS - HI-TORQUE WIRE SET
22	4171	1	SWITCH GUARD - END
23	5978	8	SCREW - 6-32 X 1/4
24	7156	1	DECAL - FRONT ARROW

ART-633
BM13882
06/27/97

FIG. 3-1 Toggle Switch Control Boxes Pre-1992



ART169 R2
 BM4959

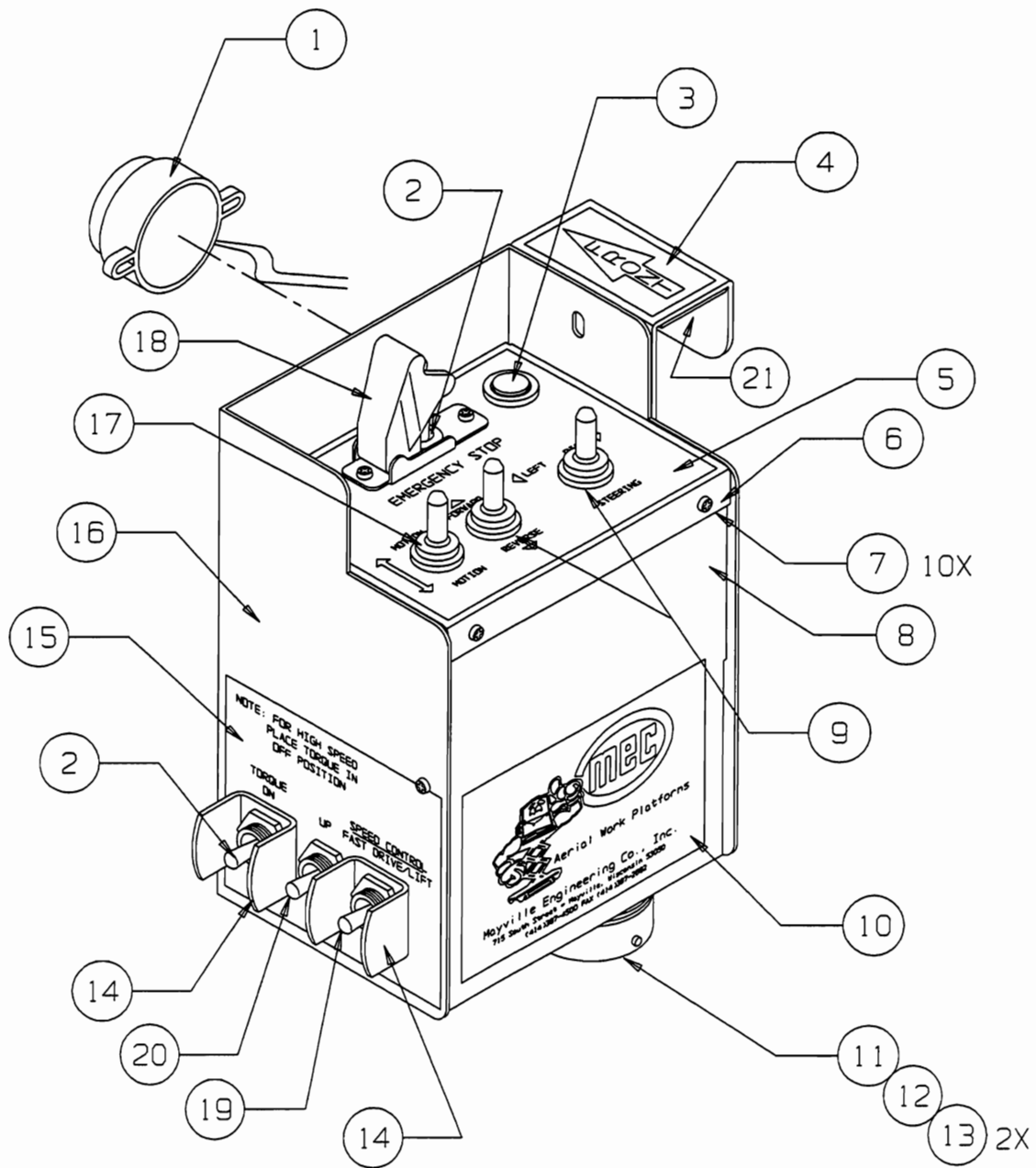
DYNAMITE & HITEMASTER
 STANDARD CONTROL BOX

FIG. 3-2 Standard Toggle Switch Control Box

ITEM	PART NO.	QTY.	DESCRIPTION
	4940	1	CONTROL BOX ASSEMBLY, TOGGLE-STANDARD
1	7553	1	ALARM, TIP SENSOR
2	5630	2	SWITCH, TOGGLE
3	7806	1	LIGHT, INDICATOR, TILT SENSOR
4	7156	1	DECAL, FRONT ARROW
5	7620	1	DECAL, UPPER CONTROL BOX
6	4269	1	COVER, CONTROL BOX
7	HDW5978	10	MACHINE SCREW, SELF TAP & FORM, #6-32 X .250
8	4271	1	PANEL, FRONT & BOTTOM
9	5694	2	SWITCH, TOGGLE
10	6839	1	DECAL, AWP LOGO
11	7657	1	HARNESS, CONTROL BOX
12	1313	1	SWITCH GUARD
13	5979	1	SWITCH
14	4171	1	SWITCH GUARD, END
15	7579	1	PLUG, PLASTIC
16	7659	1	DECAL, CONTROL BOX, TOP
17	4268	1	WRAPPER WELDMENT, W/HOOK
18	5230	1	SWITCH, TOGGLE
19	7622	1	SWITCH GUARD, EMERGENCY STOP
20	6350	.25 FT	FOAM TAPE
21	HDW5926	1	MACHINE SCREW, 1/4-20 X .38, GRADE 5 (NOT SHOWN)
22	HDW5276	1	NUT, HEX, 1/4-20, GRADE 5 (NOT SHOWN)
23	8066	1	TAG, INSPECTION (NOT SHOWN)
	7656	1	CONTROL CORD

ART169 R2
BM4959

FIG. 3-2 Standard Toggle Switch Control Box



ART169 R2
BM4959

HITEMASTER HIGH TORQUE CONTROL BOX

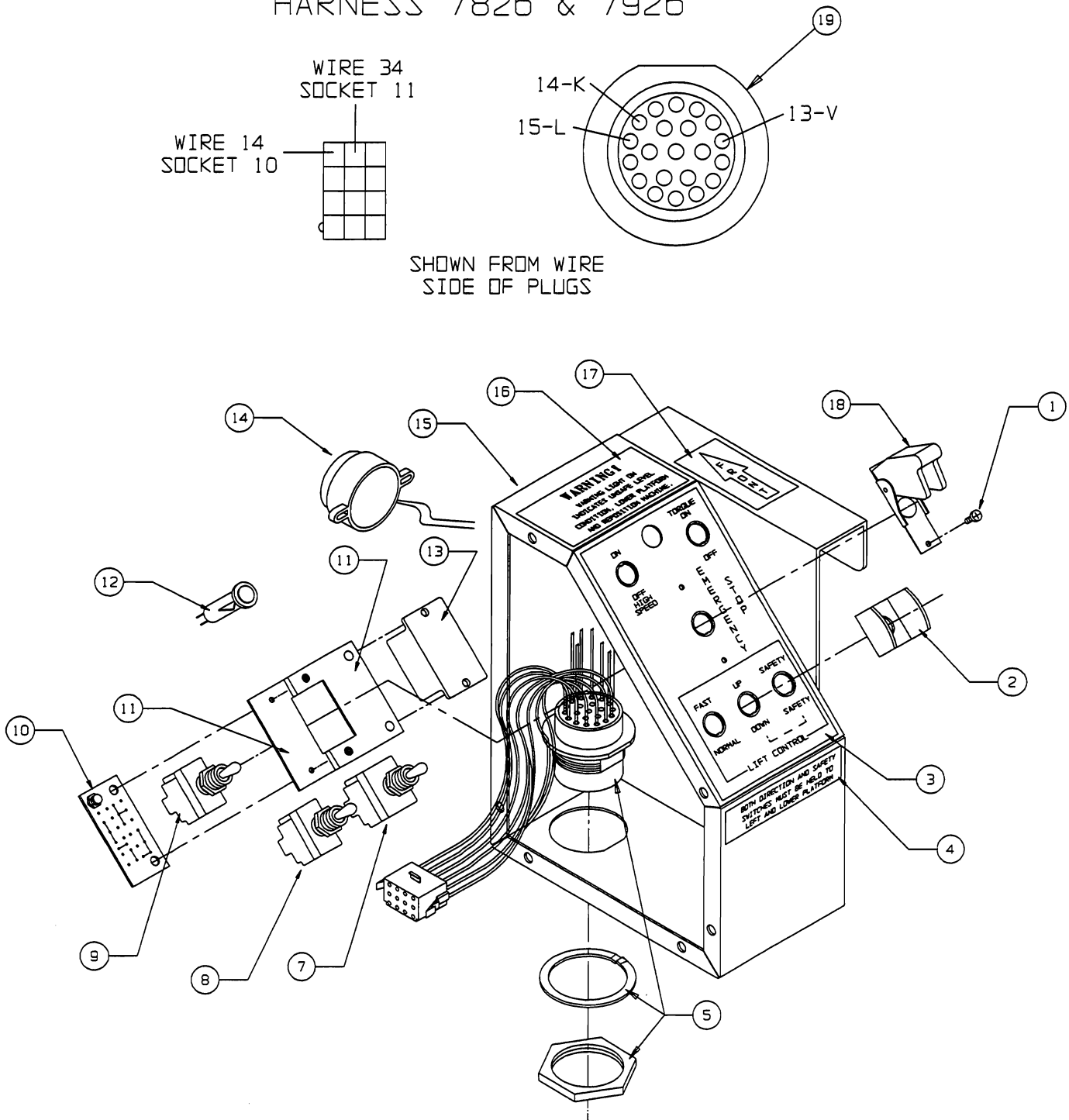
FIG. 3-3 High Torque Toggle Switch Control Box

ITEM	PART NO.	QTY.	DESCRIPTION
	4920	1	CONTROL BOX ASSEMBLY, TOGGLE, HIGH TORQUE
1	7553	1	ALARM, TIP SENSOR
2	5630	2	SWITCH, TOGGLE
3	7806	1	LIGHT, INDICATOR, TILT SENSOR
4	7156	1	DECAL, FRONT ARROW
5	7620	1	DECAL, UPPER CONTROL BOX
6	4269	1	COVER, CONTROL BOX
7	HDW5978	6	MACHINE SCREW, SELF TAP & FORM, #6-32 X 1/4
8	4271	1	PANEL, FRONT & BOTTOM
9	5694	2	SWITCH, TOGGLE
10	6839	1	DECAL, AWP LOGO
11	7657	1	HARNESS, CONTROL BOX
12	7658	1	WIRE SET, CONTROL BOX
13	6241	2	DIODE ASSEMBLY (NOT SHOWN)
14	1313	2	SWITCH GUARD
15	7621	1	DECAL, CONTROL BOX, SIDE
16	4268	1	WRAPPER WELDMENT W/HOOK
17	5230	1	SWITCH, TOGGLE
18	7622	1	SWITCH GUARD, EMERGENCY STOP
19	7633	1	SWITCH, TOGGLE, 3 POSITION
20	5979	1	SWITCH
21	6350	.25 FT	FOAM TAPE
22	HDW5926	1	MACHINE SCREW, 1/4-20 X .38, GRADE 5 (NOT SHOWN)
23	HDW5276	1	NUT, HEX, 1/4-20, GRADE 5 (NOT SHOWN)
24	8066	1	TAG, INSPECTION (NOT SHOWN)
	7656	1	CONTROL CORD

ART169 R2
BM4959

FIG. 3-3 High Torque Toggle Switch Control Box

HARNESS 7826 & 7926



ART657 R1
BM14080
06/27/97

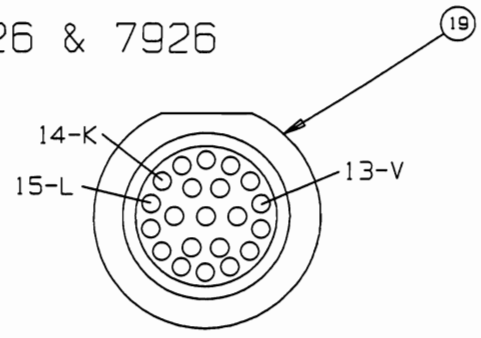
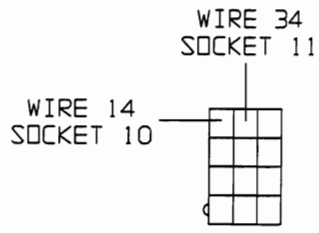
FIG. 3-4 Standard Joystick Control Panel

ITEM	PART NO.	QTY.	DESCRIPTION
	3797	1	JOYSTICK CONTROL ASSEMBLY
1	HDW5978	2	MACHINE SCREW, SELF TAP, #6-32 X 1/4
2	1313	1	SWITCH GUARD
3	7824	1	DECAL- CONTROLS, JOYSTICK
4	7895	1	DECAL, LIFT DIRECTIONS, JOYSTICK
5	7826	1	WIRE HARNESS
7	5979	1	SWITCH, 3 POSITION MOMENTARY, CLOSED CENTER POSITION
8	5230	1	TOGGLE SWITCH, 3 POSITION MOMENTARY, OFF- CENTER POSITION
9	5630	1	TOGGLE SWITCH, 2 POSITION MAINTAINED
10	7831	1	JOYSTICK CIRCUIT BOARD
11	3769	2	RELAY "C" BOARD BRACKET-JOYSTICK
12	7806	OPTL	INDICATOR LIGHT
13	7835	1	RELAY, 24 VOLT
14	7553	OPTL	TIP OVER ALARM
15	3773	1	CONTROL BOX WELDMENT-JOYSTICK
16	7827	OPTL	DECAL-WARNING LIGHT
17	7156	1	DECAL, FRONT ARROW
18	7622	1	SWITCH GUARD, EMERGENCY STOP
19	7656	1	CONTROL CORD

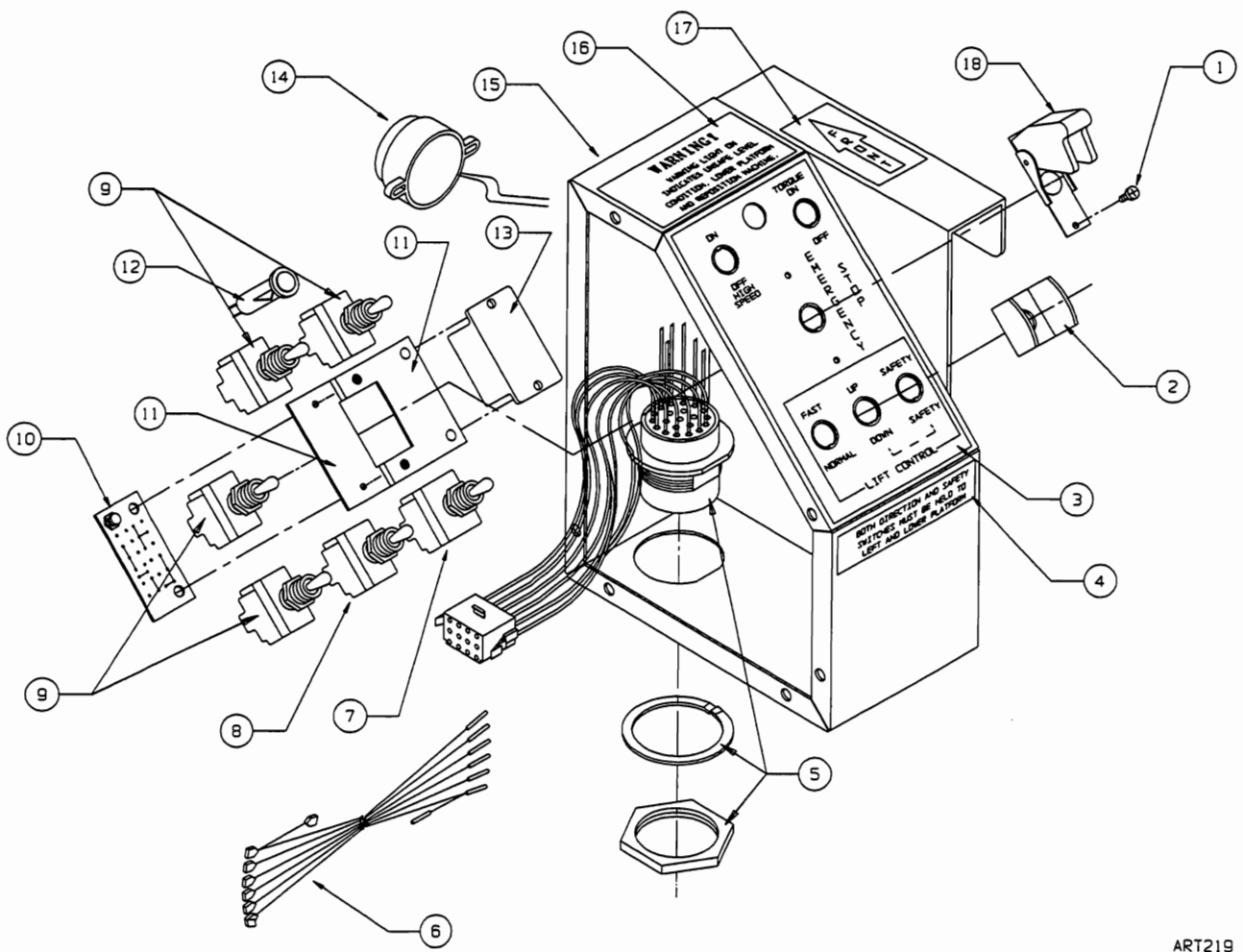
ART657 R1
BM14080
06/27/97

FIG. 3-4 Standard Joystick Control Panel

HARNESS 7826 & 7926



SHOWN FROM WIRE
SIDE OF PLUGS



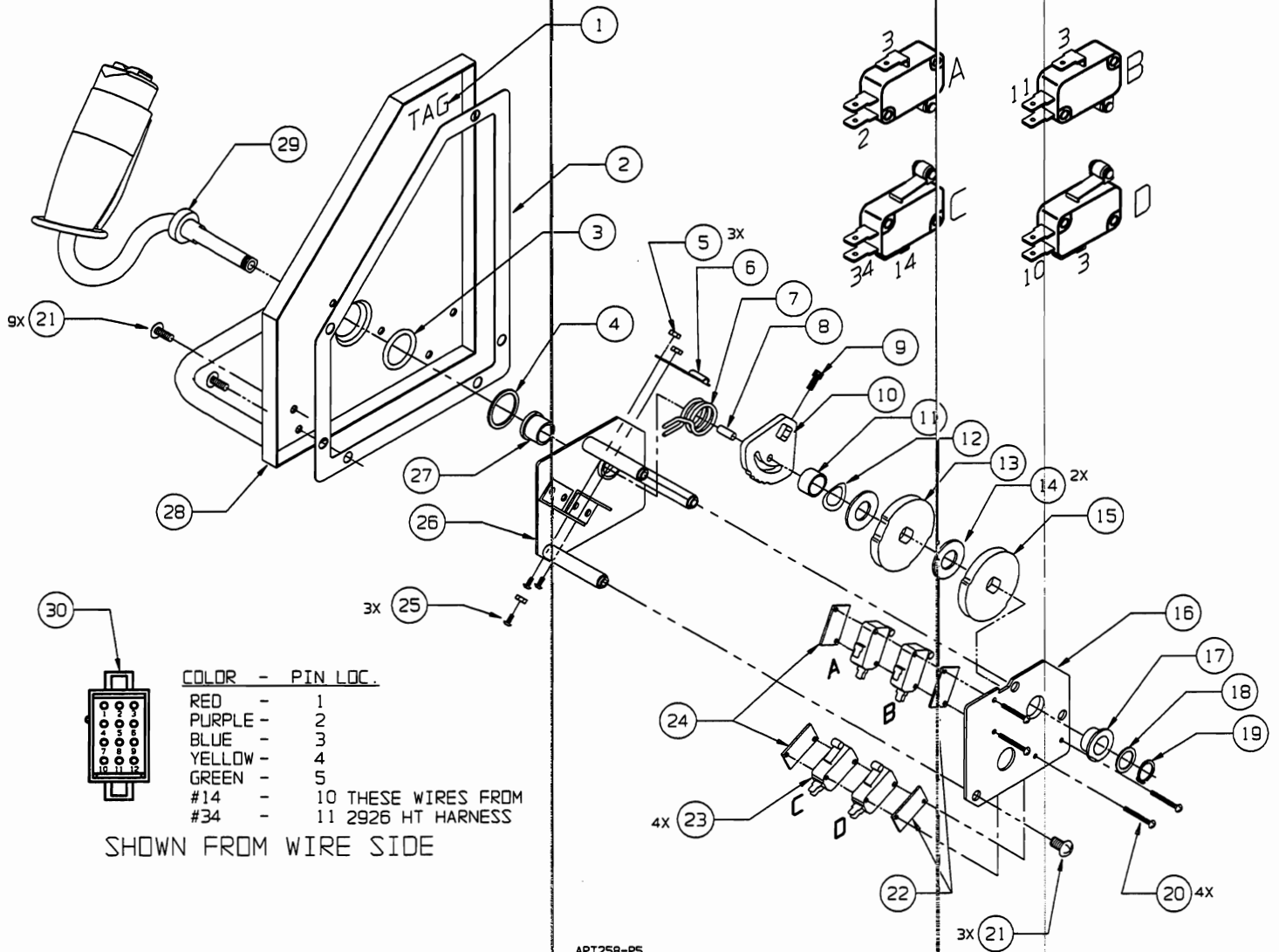
ART219 R3
BM5039
05/09/94

FIG. 3-5 High Torque Joystick Control Panel

ITEM	PART NO.	QTY.	DESCRIPTION
	3798	1	JOYSTICK CONTROL ASSEMBLY, HIGH TORQUE
1	HDW5978	2	MACHINE SCREW, SELF TAP, #6-32 X 1/4
2	1313	1	SWITCH GUARD
3	7825	1	DECAL- CONTROLS, HIGH TORQUE JOYSTICK
4	7895	1	DECAL, LIFT DIRECTIONS, JOYSTICK
5	7826	1	WIRE HARNESS
6	7926	1	WIRE HARNESS, JOYSTICK-HIGH TORQUE
7	5979	1	SWITCH, 3 POSITION MOMENTARY, CLOSED CENTER POSITION
8	5230	1	TOGGLE SWITCH, 3 POSITION MOMENTARY, OFF- CENTER POSITION
9	5630	4	TOGGLE SWITCH, 2 POSITION MAINTAINED
10	7831	1	JOYSTICK CIRCUIT BOARD
11	3769	2	RELAY "C" BOARD BRACKET-JOYSTICK
12	7806	1	INDICATOR LIGHT
13	7835	1	RELAY, 24 VOLT
14	7553	1	TIP OVER ALARM
15	3773	1	CONTROL BOX WELDMENT-JOYSTICK
16	7827	1	DECAL-WARNING LIGHT
17	7156	1	DECAL, FRONT ARROW
18	7622	1	SWITCH GUARD, EMERGENCY STOP
19	7656	1	CONTROL CORD

ART219 R3
BM5039
05/09/94

FIG. 3-5 High Torque Joystick Control Panel



ART258-R5
 BM5041
 05/09/94

FIG. 3-6 Joystick Cam Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	8066	1	TAG, INSPECTION LINE
2	7875	1	GASKET, JOYSTICK
3	7882	1	O-RING, 7/8 ID, 1.125 OD
4	HDW3768	1	WASHER, FLAT, .895 ID, 1.077 OD, .055 THK
5	HDW7886	3	NUT, KEPS, HEX, #4-40, CLASS 2
6	3770	1	SPRING, SPEED LEVEL-JOYSTICK
7	7815	1	SPRING, TORSION-JOYSTICK
8	HDW7918	1	PIN, SPRING .18 DIA X .50 LG
9	HDW7887	1	SCREW, CAP, #6-32, .50 LG, GRADE 8
10	13502	1	BRACKET, CENTERING-JOYSTICK
11	3763	1	SPACER, STEP, JOYSTICK
12	HDW7881	1	WASHER, BEVEL, .531 ID, .795 OD, .011 THK
13	3781	1	CAM, SPEED CONTROL-JOYSTICK
14	HDW5216	2	WASHER, FLAT, .50 ID
15	3782	1	CAM, DIRECTIONAL-JOYSTICK
16	3759	1	PLATE, TOP, CONTROL BOX-JOYSTICK
17	7818	1	BEARING, BRONZE, FLANGED, .502 ID, .627 OD, 5/16 HIGH
18	HDW3771	1	WASHER, FLAT, .50 ID, .688 OD, .033 THK
19	5736	1	RING, RETAINING, EXT., .50 SHAFT
20	HDW7884	4	SCREW, MACH., #4-40, 1.00 LG, GRD, RND HD, SLOTTED DRIVE
21	HDW7888	12	SCREW, CAP, #10-3, .50 LG, GRD 2, TRUSS HD, CROSS RECESSED DRIVE
22	3764	2	PLATE, SPACER-JOYSTICK
23	8696	4	SWITCH, LIMIT, MICRO - V7
24	3765	2	PLATE, STRAP-JOYSTICK
25	HDW7885	3	SCREW, #4-40, .25 LG, GRD STE, ROUND HD, SLOTTED DRIVE
26	3766	1	WELDMENT, TOP PLATE-JOYSTICK
27	7819	1	BEARING, BRONZE FLANGED, .502 ID, .627 OD, 5/18 HIGH
28	3772	1	WELDMENT, COVER-JOYSTICK
29	13647	1	ASSEMBLY, CONTROL ARM-JOYSTICK #2
30	7921	1	WIRE HARNESS JOYSTICK COVER

ART258-R5
BM5041
05/09/94

FIG. 3-6 Joystick Cam Assembly

ASSEMBLY 13647

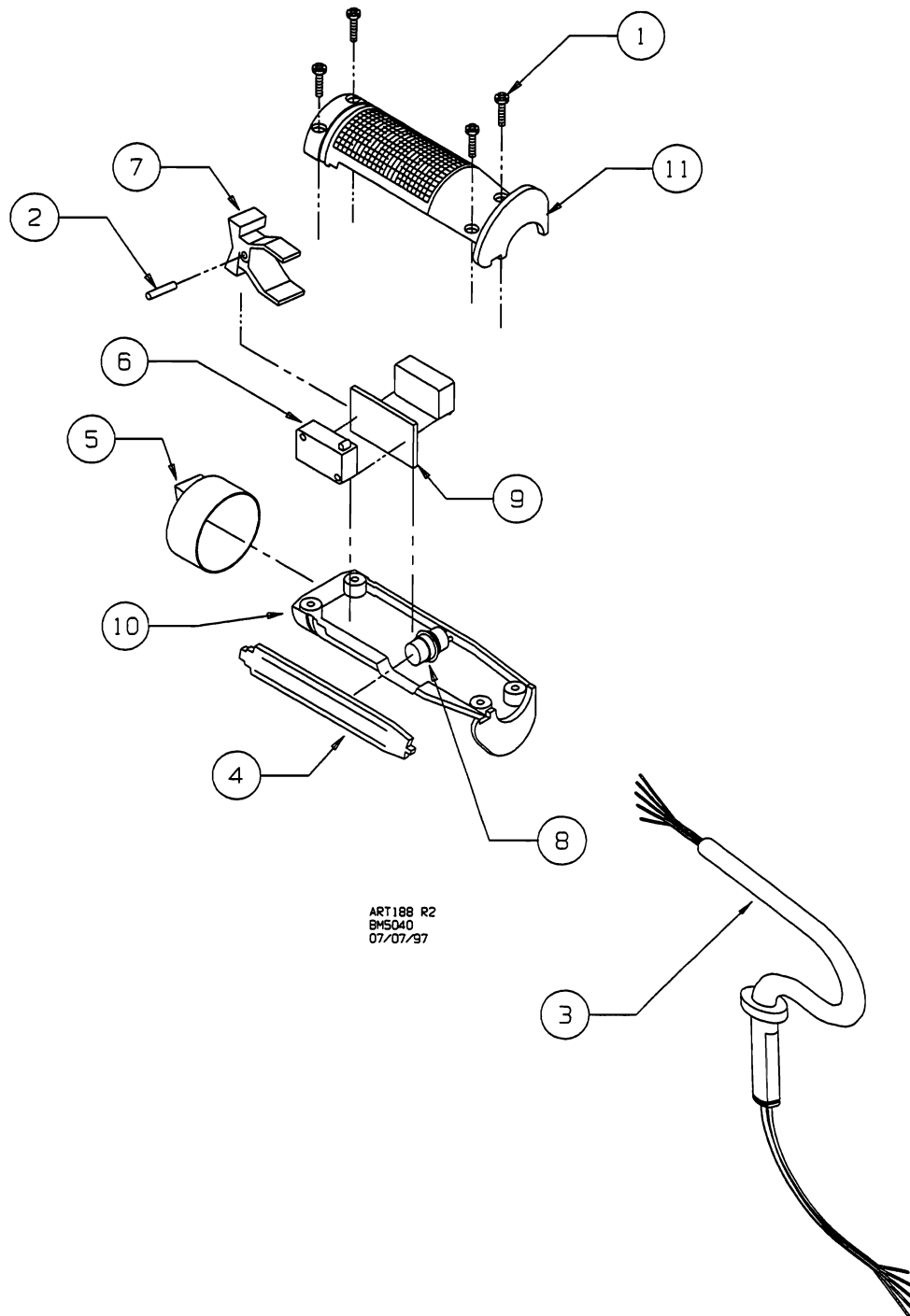


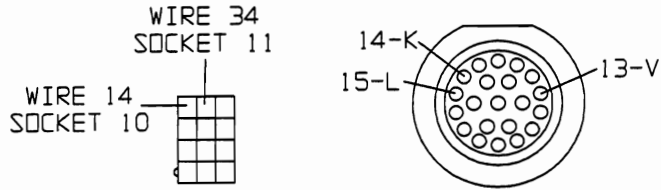
FIG. 3-7 Joystick Handle Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW8455	4	SCREW, 6 X 1/2 TAPTITE
2	8750	1	PIN
3	13638	1	CONTROL ARM ASSEMBLY JS #2
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-INCLUDE WIRING
	8448	2	SWITCH-V3 P-Q
	8753	1	MOTION SWITCH, ON-OFF
	8447	1	SWITCH SEPARATOR

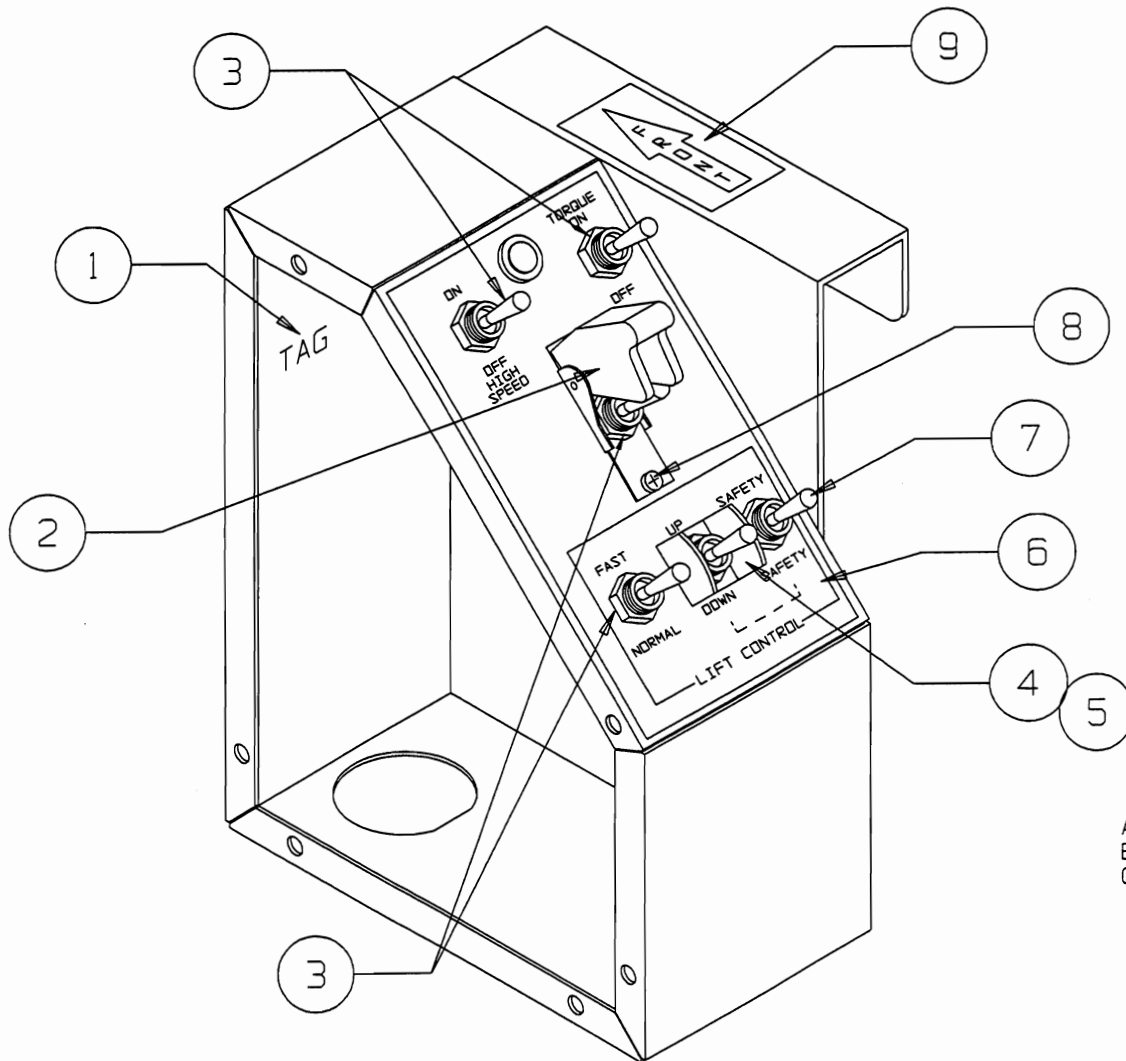
ART188 R2
 BMS040
 07/07/97

FIG. 3-7 Joystick Handle Assembly

HARNESS 7826 & 7926



SHOWN FROM WIRE
SIDE OF PLUGS



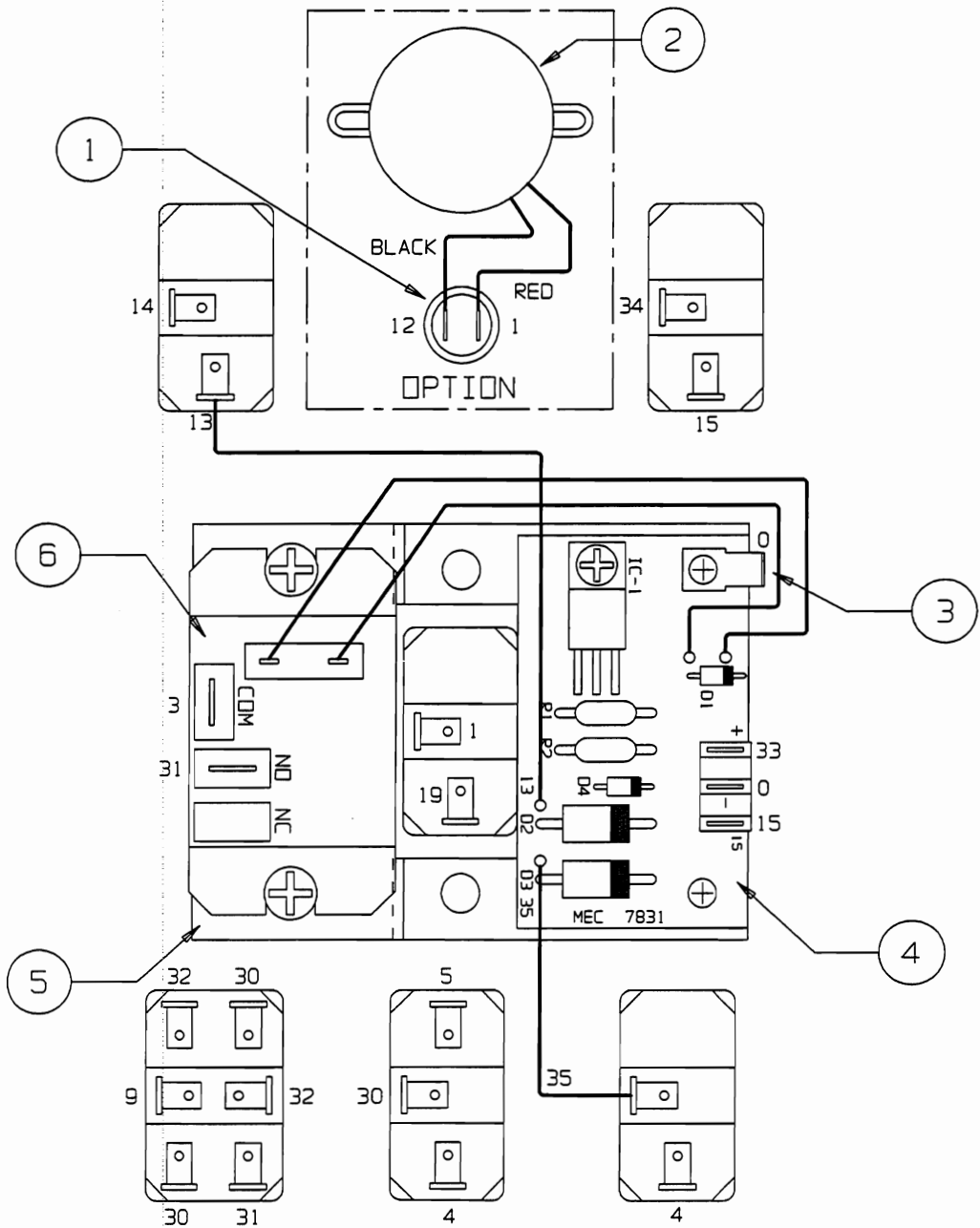
ART255 R3
BMS130
07/07/97

FIG. 3-8 Joystick Control Panel

ITEM	PART NO.	QTY.	DESCRIPTION
1	8066	1	TAG, INSPECTION LINE
2	7622	1	SWITCH GUARD, EMERGENCY STOP
3	5630	4	TOGGLE SWITCH, 2 POSITION MAINTAINED
4	5230	1	TOGGLE SWITCH, 3 POSITION MOMENTARY, CENTER OFF POSITION
5	1313	1	SWITCH GUARD
6	7895	1	DECAL - LIFT DIRECTIONS JOYSTICK
7	5979	1	SWITCH, 3 POSITION MOMENTARY, CLOSED CENTER POSITION
8	HDW5978	2	MACHINE SCREW, SELF TAP & FORM, #6-32 X 1/4"
9	7156	1	DECAL - FRONT ARROW

ART255 R3
BM5130
07/07/97

FIG. 3-8 Joystick Control Panel



SHOWN FROM BACKSIDE

ART255 R3
 BMS130
 07/07/97

FIG. 3-9 Voltage Regulator & Relay Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	7806	1	LIGHT, INDICATOR
2	7553	1	ALARM, TIP OVER
3	7139	1	TAB ADAPTOR, MALE
4	7831	1	CIRCUIT BOARD-JOYSTICK
5	3769	1	BRACKET, RELAY "C" BOARD-JOYSTICK
6	7835	1	RELAY, 24 VOLT

ART255 R3
BM5130
07/07/97

FIG. 3-9 Voltage Regulator & Relay Assembly

3459 - CONTROL BOX ASSY. - UPPER - SRT

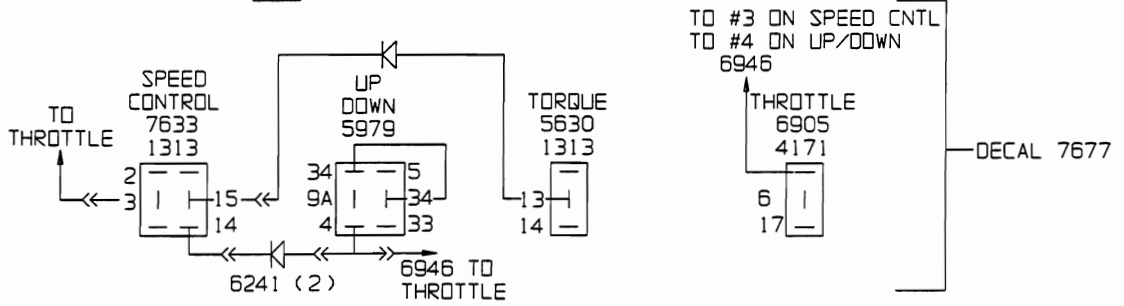
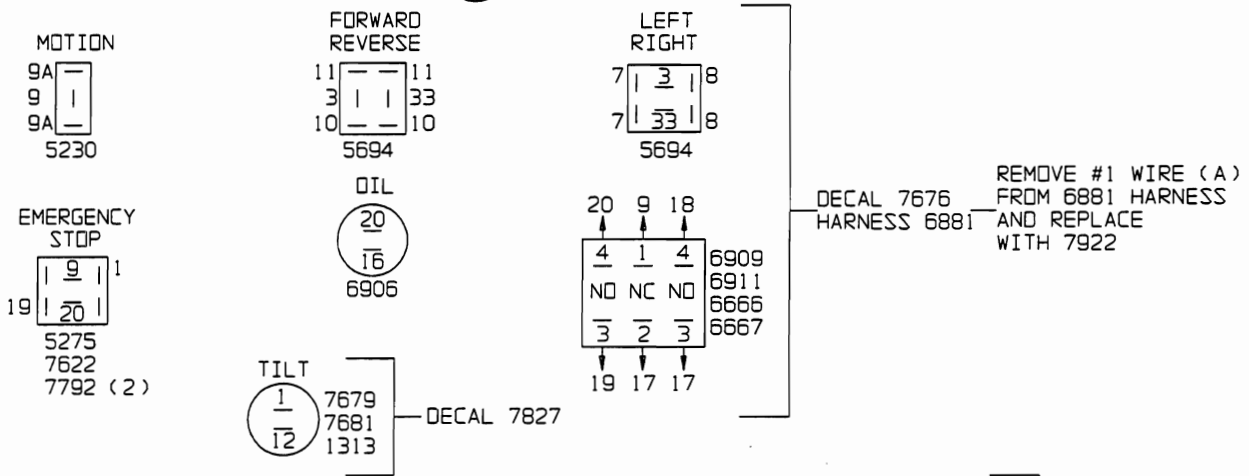
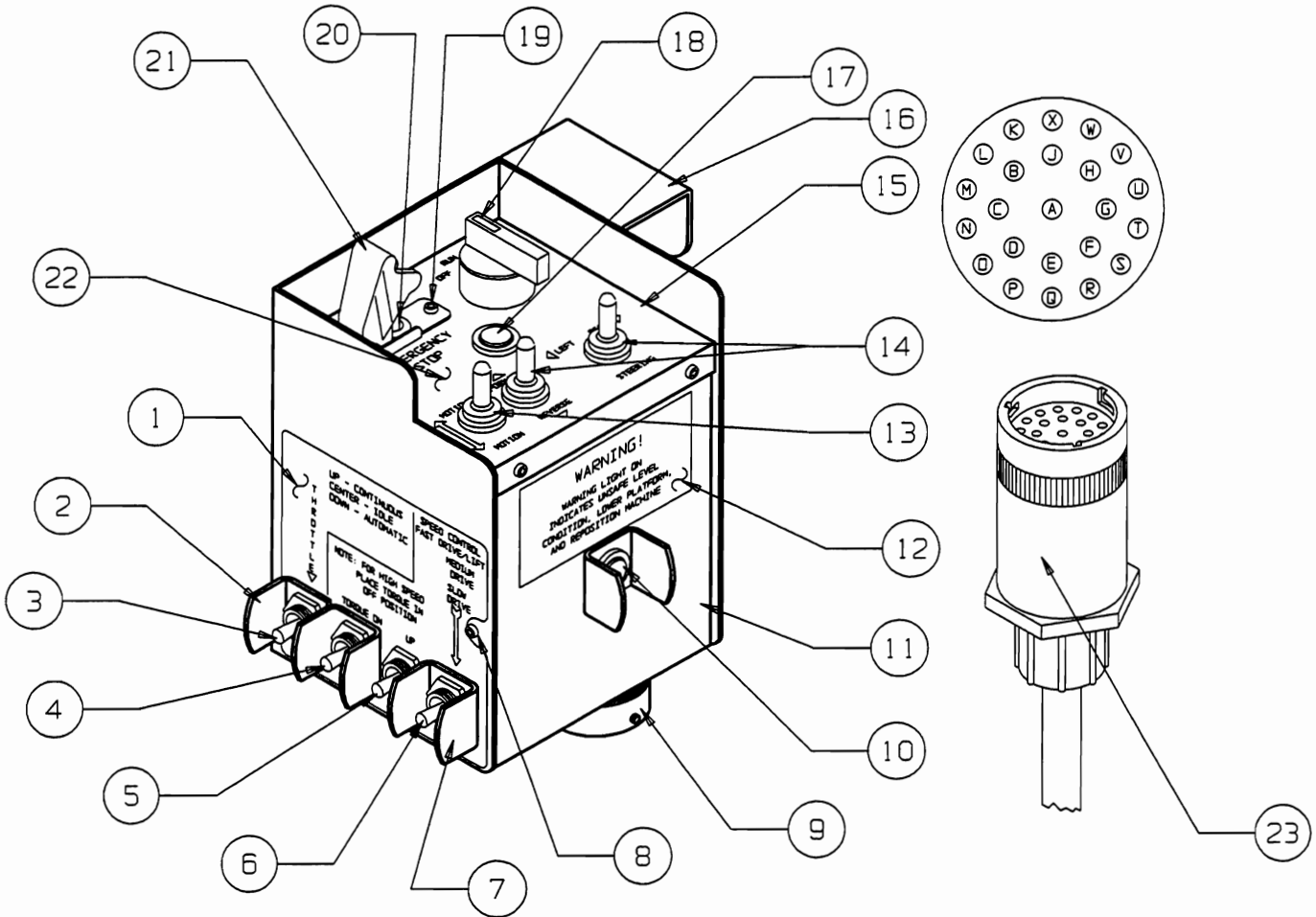


FIG. 3-10 Dual Fuel Toggle Switch Control Box

ART305
BM4805

ITEM	PART NO.	QTY.	DESCRIPTION
1	7677	1	DECAL - CONTROL BOX SIDE DF
2	4171	1	SWITCH GUARD - END
3	6905	1	TOGGLE SWITCH
4	5630	1	TOGGLE SWITCH
5	5979	1	SWITCH
6	7633	1	SWITCH, TOGGLE 3 POSITION
7	1313	3	SWITCH GUARD
8	5978	8	SCREW
9	6881	1	CONTROL CORD OUTLET
10	7681	1	LAMP, DIALIGHT
	7679	1	LIGHT, INDICATOR YELLOW
11	3450	1	FRONT & BOTTOM PANEL
12	7827	1	DECAL - WARNING LIGHT - QUAD
13	5230	1	TOGGLE SWITCH
14	5694	2	TOGGLE SWITCH
15	3451	1	COVER - CONTROL BOX
16	3447	1	WRAPPER WELDMENT
17	6906	1	INDICATOR LIGHT
18	8075	1	SWITCH, SELECTOR 3 POS.
	8076	1	BASE-MOUNTING W/2 CONTACT BLKS
	8082	1	BLOCK - CONTACT N.O.
19	7792	2	SCREW
20	5275	1	TOGGLE SWITCH
21	7622	1	SWITCH GUARD - EMERGENCY STOP
22	7676	1	DECAL - CONTROL BOX TOP - DF
23	6882	1	CABLE ASSEMBLY CONTROL

ART305

BM4805

FIG. 3-10 Dual Fuel Toggle Switch Control Box

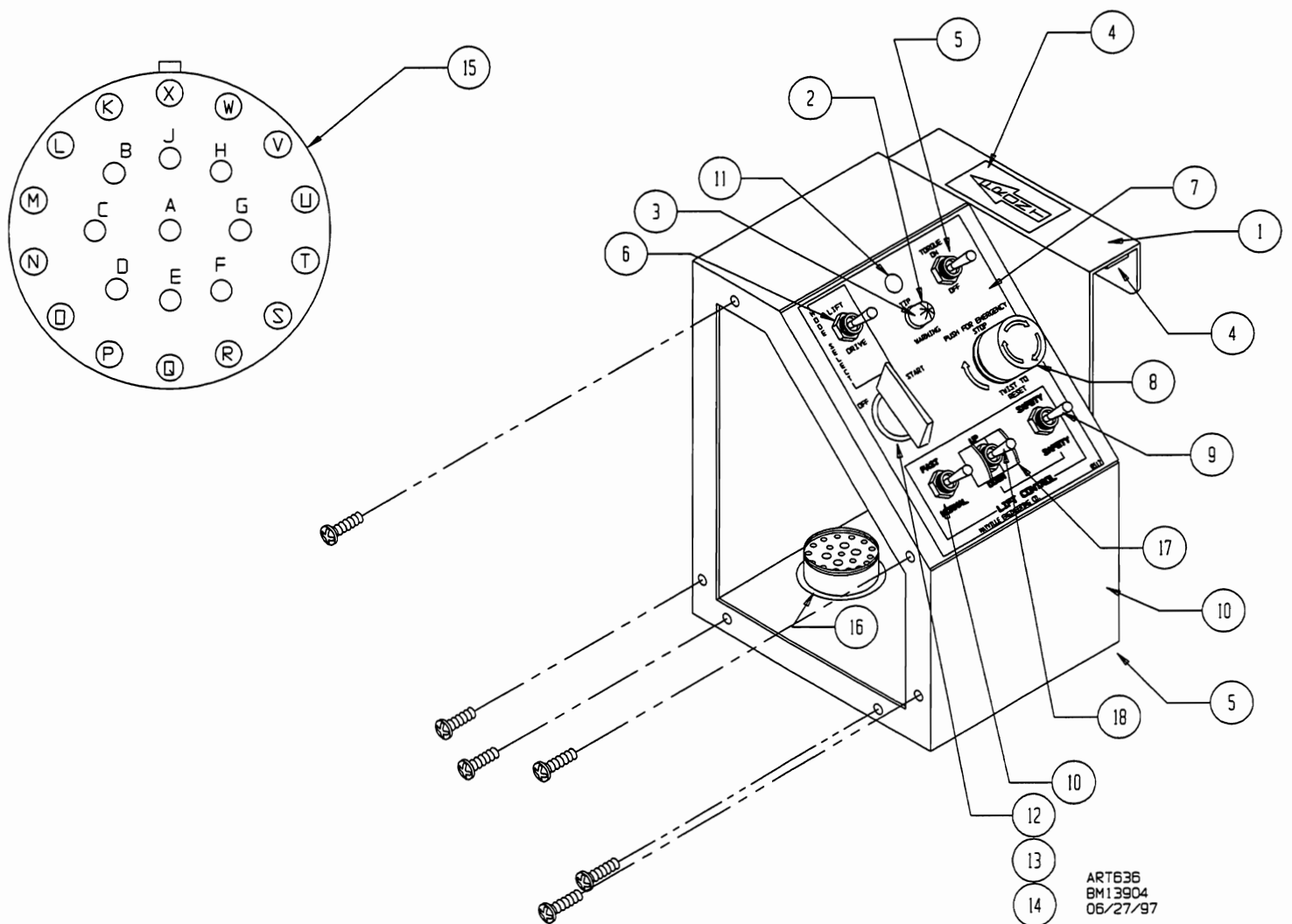


FIG. 3-11 Dual Fuel Joystick Control Panel

ITEM	PART NO.	QTY.	DESCRIPTION
	3895	1	CONTROL BOX ASSEMBLY
1	10927	1	CONTROL BOX WELDMENT
2	8257	1	LAMP ASSEMBLY RED
3	7681	1	LAMP, DIALIGHT
4	7156	1	DECAL FRONT
5	5630	1	SWITCH - TOGGLE
6	6905	1	TOGGLE - SWITCH
7	8254	1	DECAL - JOYSTICK CONTROL BOX
8	7800	1	SWITCH, STOP, ASSEMBLY
9	5979	1	SAFETY - SWITCH
10	5630	1	SWITCH - TOGGLE
11	7579	1	HOLE PLUG
12	8075	1	TOGGLE - FAST LIFT SWITCH
13	8076	1	BASE MOUNTING W/2 CONT. BLKS
14	8082	1	BLOCK - CONTACT N.O. (NOT SHOWN)
15	6882	1	CONTROL CORD
16	8253	1	WIRE HARNESS - CONT BOX DF
17	1313	1	SWITCH GUARD
18	5230	1	SWITCH TOGGLE
19	8083	1	BLOCK - CONTACT N.C. (NOT SHOWN)

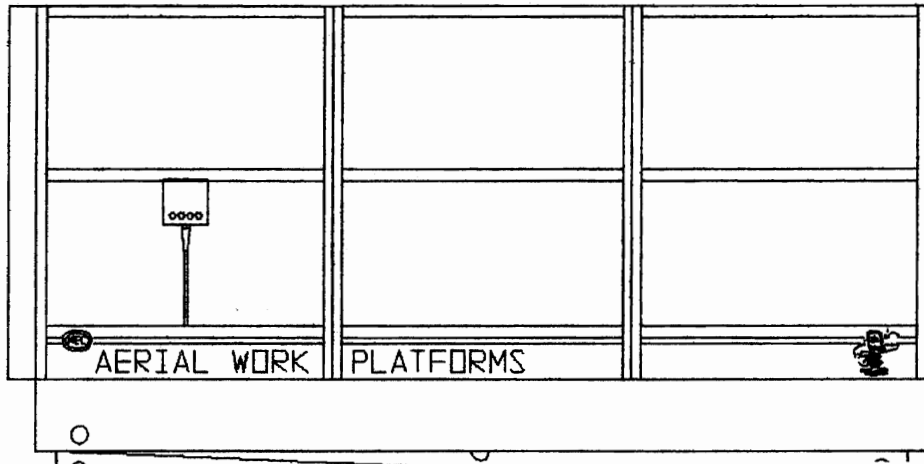
ART636
BM13904
06/27/97

FIG. 3-11 Dual Fuel Joystick Control Panel

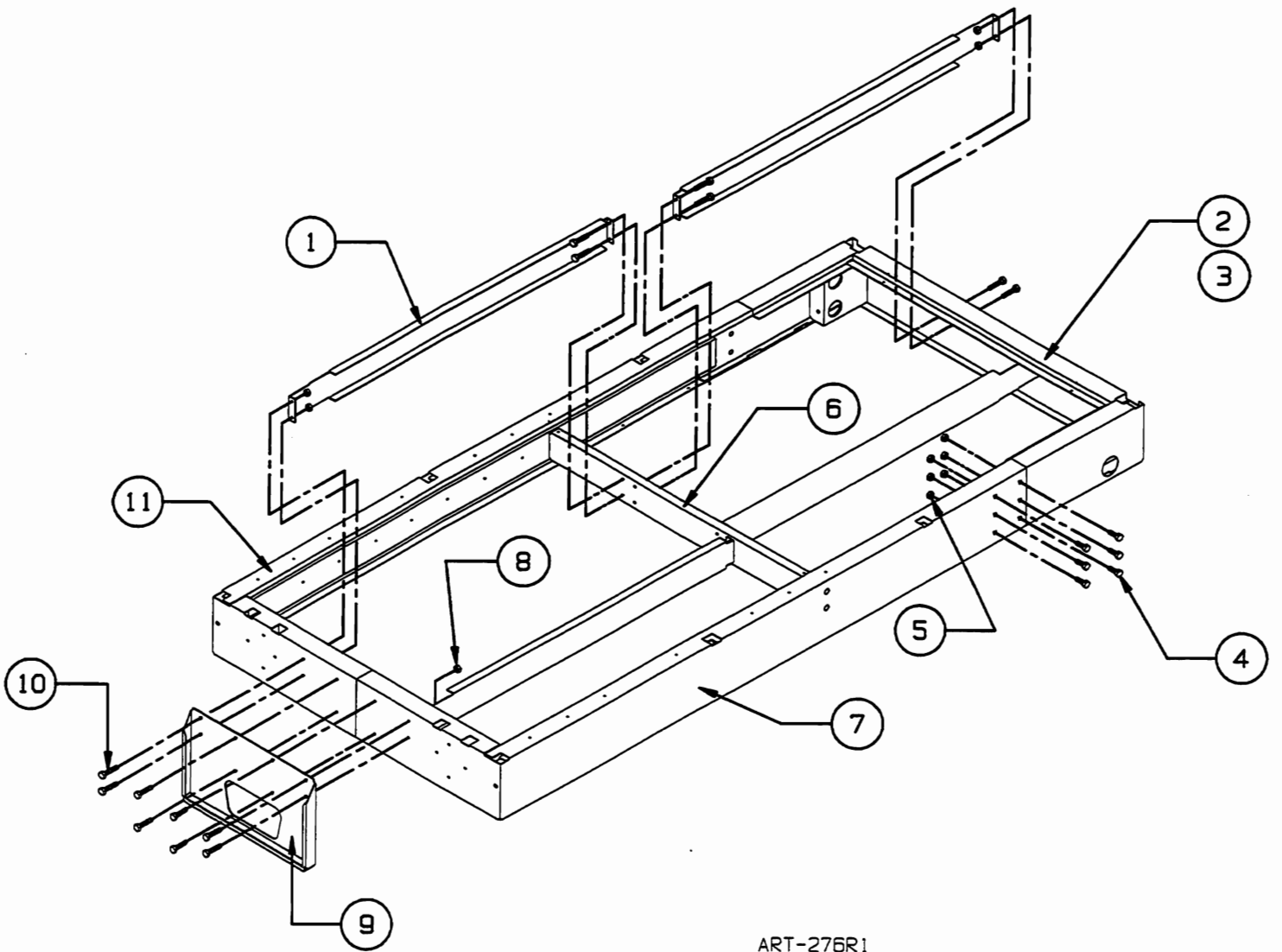
NOTES:

HITE-MASTER

Platform & Rails



NOTES:



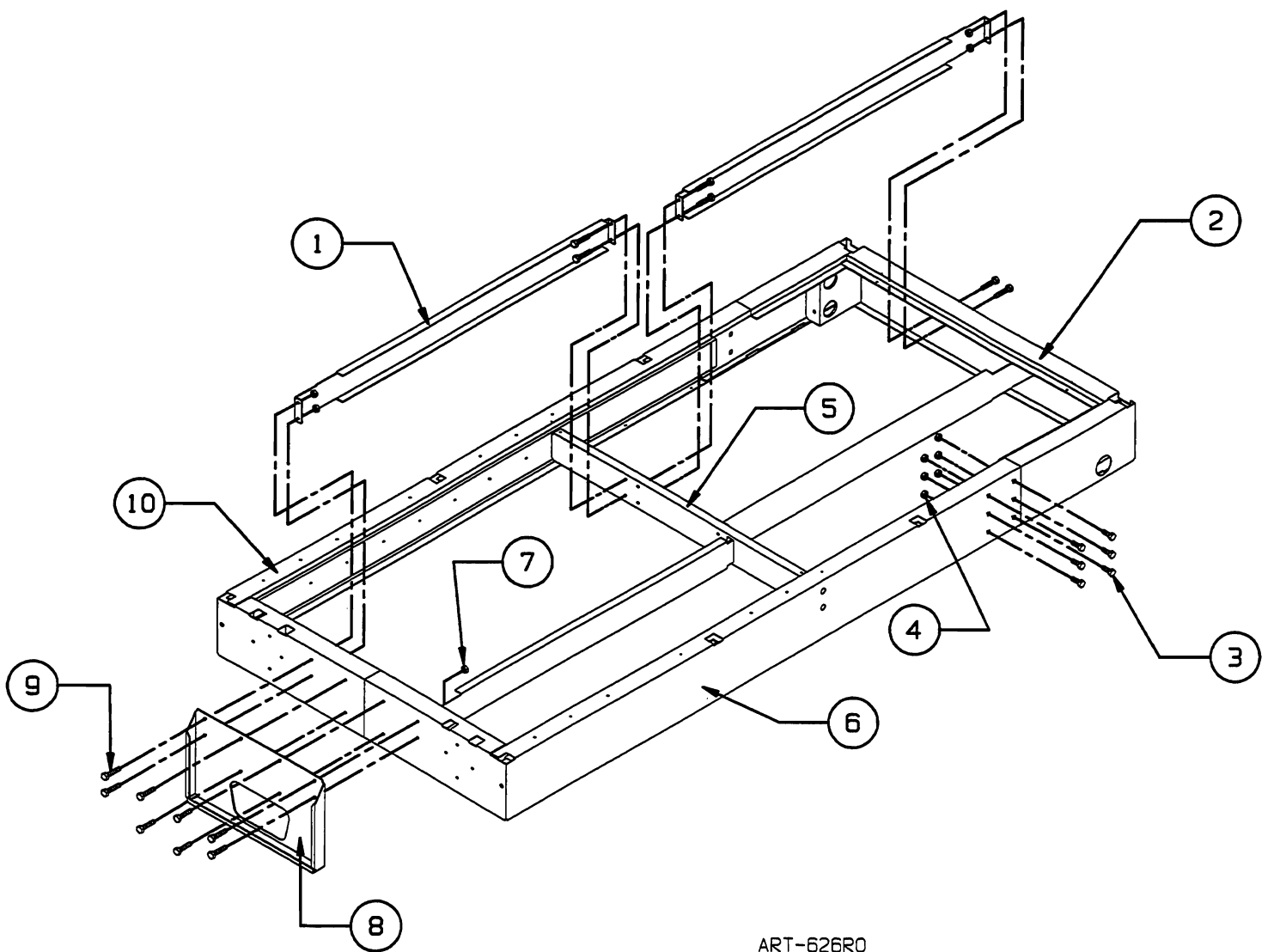
ART-276R1
 BM4996
 06/27/97

FIG. 4-1 48' Platform Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3046	4	END REINFORCEMENT - PLATFORM
2	3746	1	FRONT PLATFORM - ROLLOUT
3	3498	1	FRONT PLATFORM - 48"
4	HDW6750	12	BOLT, 3/8"-16, 3/4" LONG, GRADE 5
5	HDW5039	12	NUT, 3/8"-16, CLASS 5
6	3396	1	CROSS REINFORCEMENT - SHORT
7	3504	1	PLATFORM SIDE & END - RIGHT
8	HDW5005	24	NUT, 5/16"-18, CLASS 5
9	3716	1	REAR STEP
10	HDW5204	24	BOLT, 5/16"-18, 1" LONG, GRADE 5
11	3505	1	PLATFORM SIDE & END - LEFT

ART-276R1
BM4996
06/27/97

FIG. 4-1 48" Platform Assembly



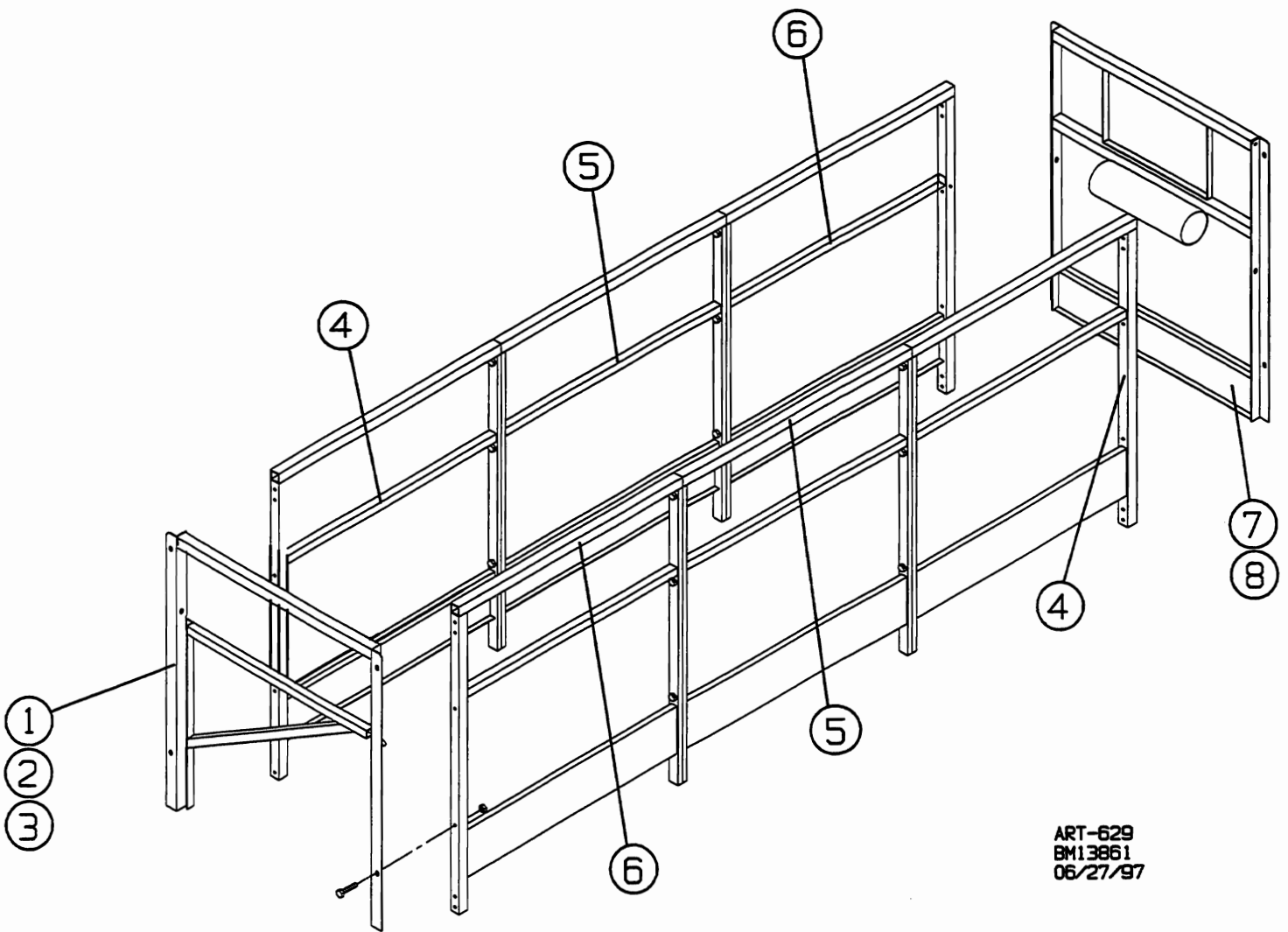
ART-626R0
BM13850
06/27/97

FIG. 4-2 58" Platform Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3046	4	END REINFORCEMENT - PLATFORM
2	3499	1	WIDE FRONT PLATFORM WELDMENT
3	HDW6750	12	BOLT, 3/8"-16, 3/4" LONG, GRADE 5
4	HDW5039	12	NUT, 3/8"-16, CLASS 5
5	3397	1	CROSS REINFORCEMENT - LONG
6	3507	1	RH WIDE SIDE PLATFORM WELDMENT
7	HDW5005	24	NUT, 5/16"-18, CLASS 5
8	3716	1	STEP REAR - HM
9	HDW5204	24	BOLT, 5/16"-18, 1" LONG, GRADE 5
10	3506	1	LH WIDE SIDE PLATFORM WELDMENT

ART-626R0
BM13850
06/27/97

FIG. 4-2 58" Platform Assembly



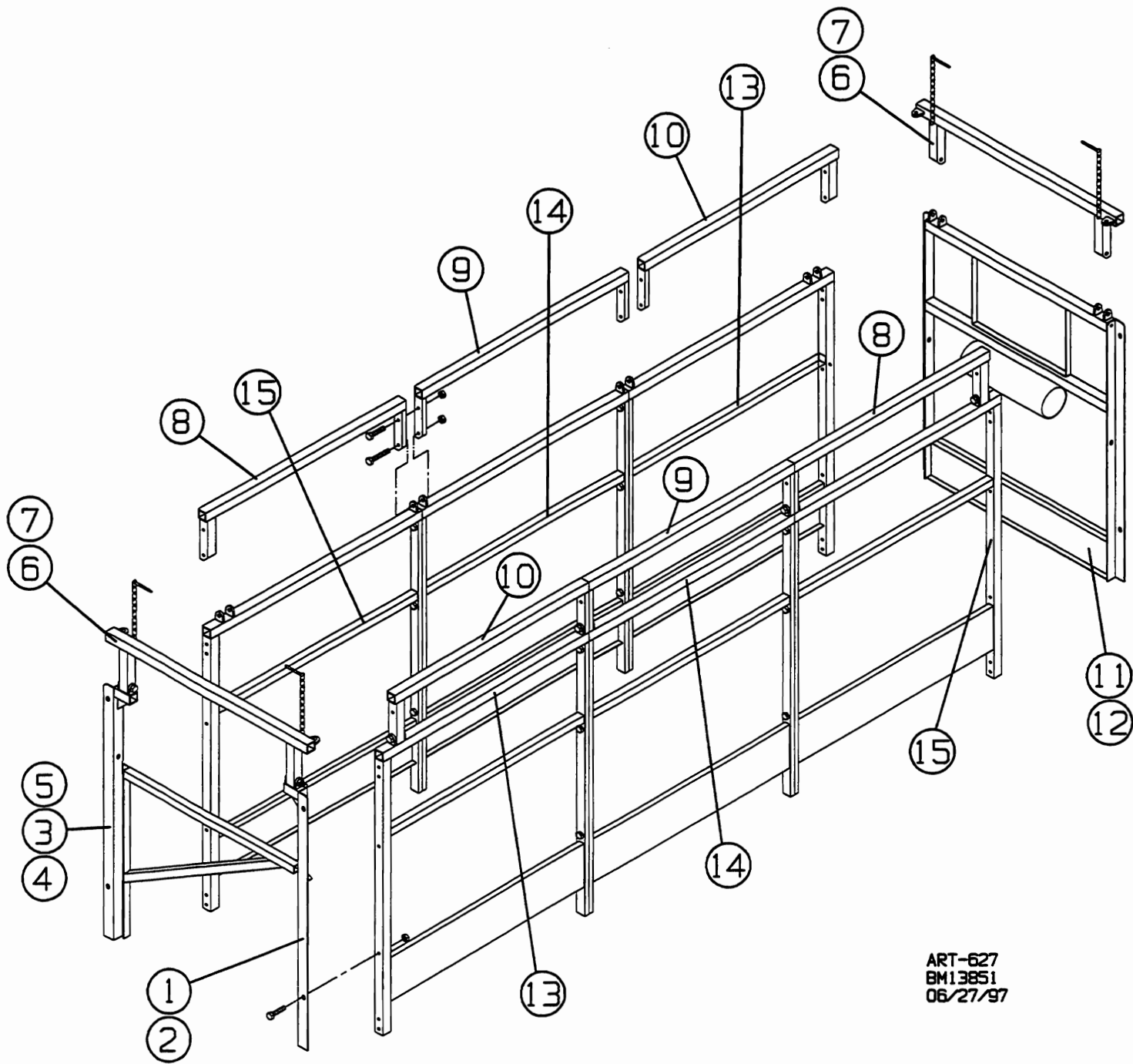
ART-629
BM13861
06/27/97

FIG. 4-3 3-Piece 48"/58" Standard Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3052	1	REAR RAIL WELDMENT 48"
2	3129	1	REAR RAIL WELDMENT 58"
3	4802	1	SPRING KIT
4	3363	2	RAIL WELDMENT
5	3364	2	RAIL WELDMENT - CENTER
6	3362	2	RAIL WELDMENT
7	3051	1	FRONT RAIL WELDMENT 48"
8	3128	1	FRONT RAIL WELDMENT 58"

ART-629
BM13861
06/27/97

FIG. 4-3 3-Piece 48"/58" Standard Rails



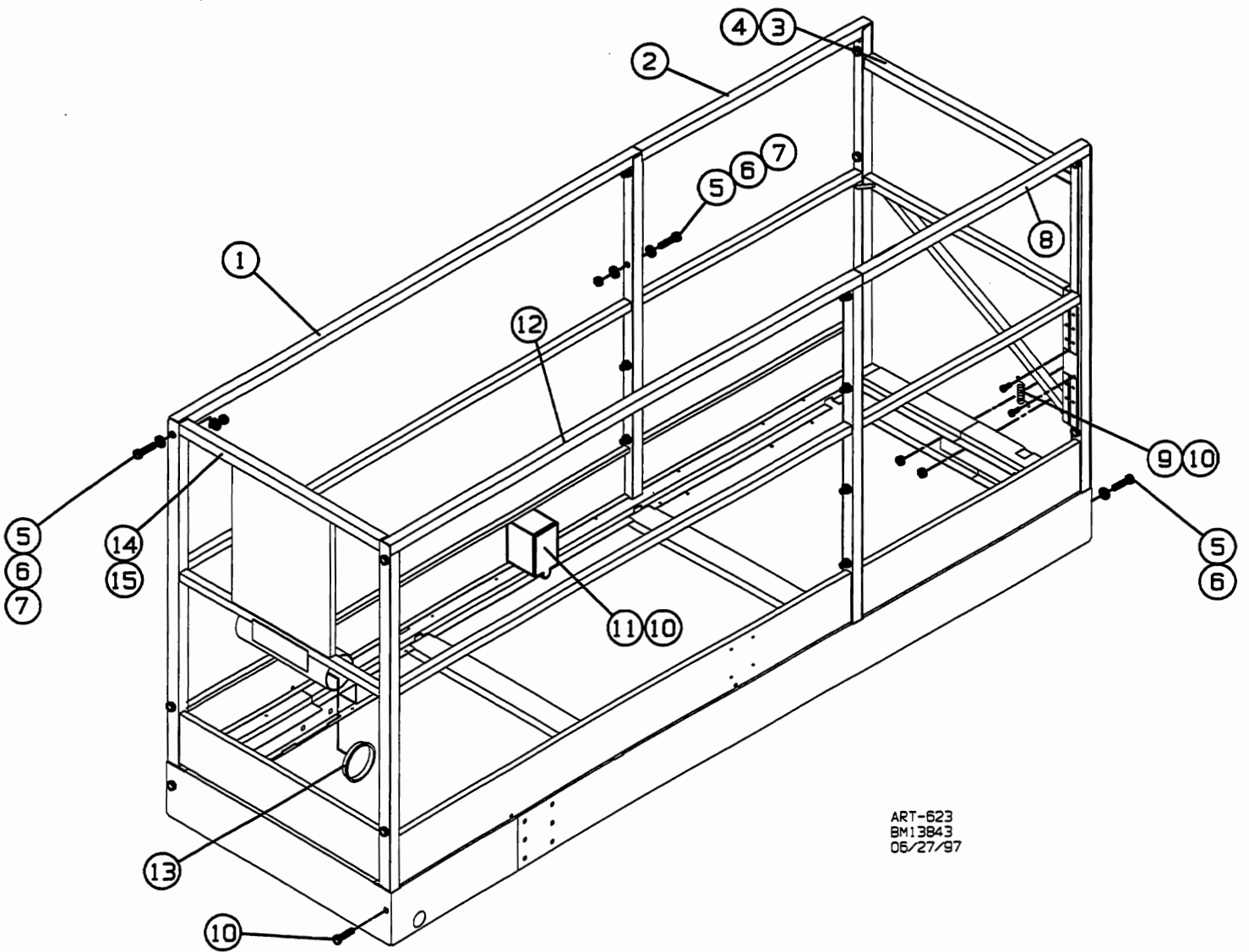
ART-627
 BM13851
 06/27/97

FIG. 4-4 3-Piece 48"/58" Fold Down Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3627K2	1	REAR GATE RIGHT HAND 48"
2	3626K2	1	REAR GATE RIGHT HAND 58"
3	3568	1	REAR GATE LEFT HAND 48"
4	3566	1	REAR GATE LEFT HAND 58"
5	4802	1	SPRING KIT
6	3553	2	RAIL WELDMENT FOLD DOWN 48"
7	3552	2	RAIL WELDMENT FOLD DOWN 58"
8	3547	2	RAIL END WELDMENT FOLD DOWN
9	3548	2	RAIL CENTER WELDMENT FOLD DOWN
10	3549	2	RAIL END WELDMENT FOLD DOWN
11	3532	1	FRONT RAIL WELDMENT 48"
12	3533	1	FRONT RAIL WELDMENT 58"
13	3524	2	SIDE RAIL END WELDMENT
14	3525	2	SIDE RAIL CENTER WELDMENT
15	3523	2	SIDE RAIL END WELDMENT

ART-627
BM13851
06/27/97

FIG. 4-4 3-Piece 48"/58" Fold Down Rails



ART-623
 BM13843
 06/27/97

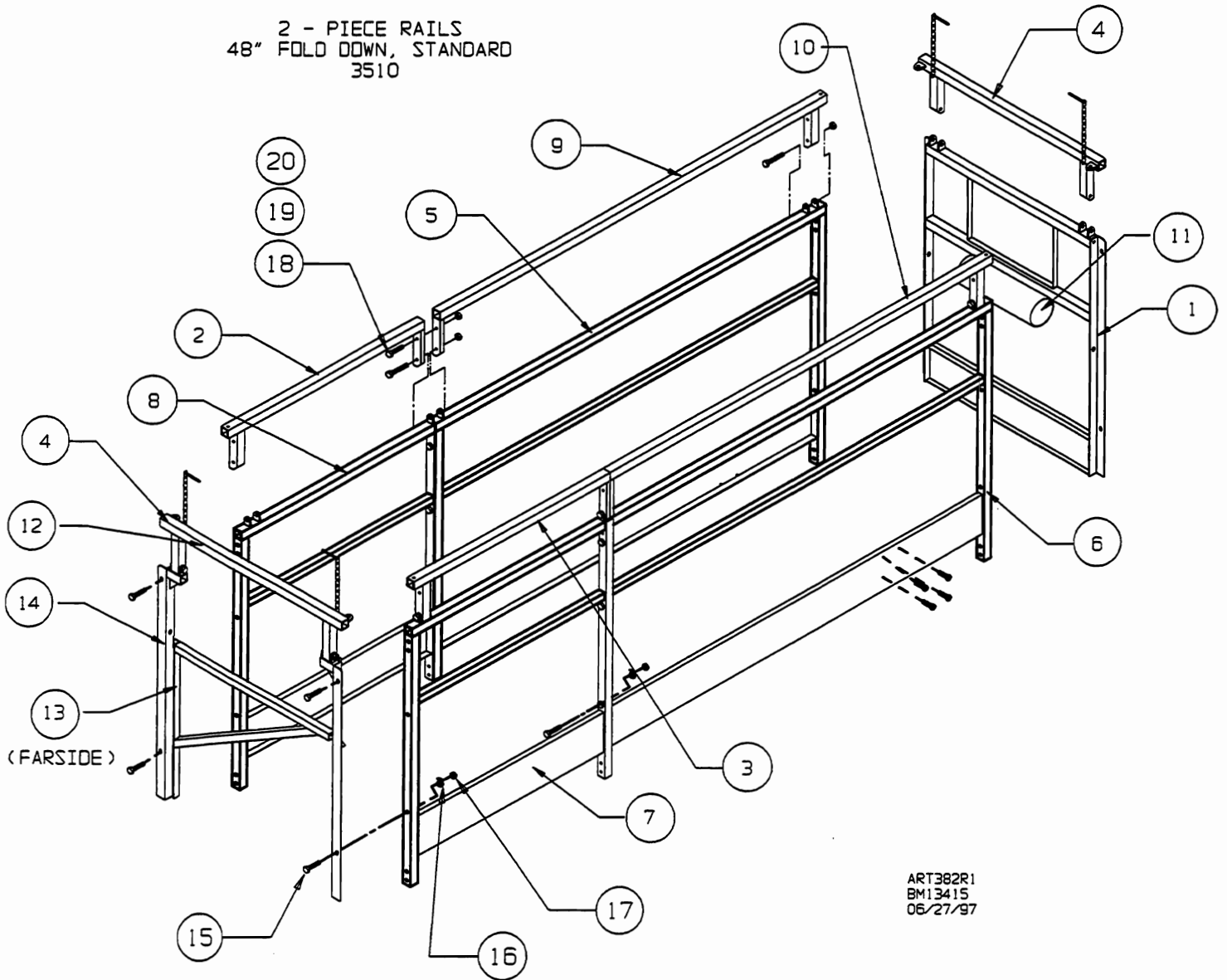
FIG. 4-5 2-Piece 48"/58" Standard Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3694	1	SIDE RAIL - RH FRONT HM
2	3698	1	LH SECTION
3	3052	1	REAR RAIL WELD 48"
4	3129	1	RAIL WELD WIDE 58"
5	HDW6434	18	BTCAPHEX .038 162.00Z 5N
6	HDW5355	30	WRFLAT 0.4381.0000.078STZNN
7	HDW5039	18	NTHXKEPO.375
8	3699	1	SIDE RAIL - LH REAR - HM
9	7153	1	PLATFORM GATE SPRING
10	HDW6455	2	BTTITETAP .250 200.50Z 5Y
11	3903	1	110-VAC CORD KIT W/OUTLET BOX
12	3695	1	SIDE RAIL - LH FRONT - HM
13	3788	1	COVER ASS'Y - MANUAL TUBE
14	3328	1	FRONT RAIL WELDMENT NARROW 48"
15	3329	1	FRONT RAIL WELDMENT WIDE 58"

ART-623
BM13843
06/27/97

FIG. 4-5 2-Piece 48" Standard Rails

2 - PIECE RAILS
 48" FOLD DOWN, STANDARD
 3510



ART382R1
 BM13415
 06/27/97

FIG. 4-6 2-Piece 48" Fold Down Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3532	1	FRONT RAIL
2	3547	1	RAIL - TOP, REAR LEFT
3	3549	1	RAIL - TOP REAR, RIGHT
4	3553	2	TOP REAR RAIL
5	3697	1	SIDE RAIL FRONT, LEFT
6	3696	1	SIDE RAIL FRONT, RIGHT
7	3700	1	SIDE RAIL REAR, RIGHT
8	3701	1	SIDE RAIL REAR, LEFT
9	3702	1	TOP RAIL FRONT LEFT
10	3703	1	TOP RAIL FRONT, RIGHT
11	3788	1	COVER ASSEMBLY - MANUAL TUBE
12	7049	1	COVER - RAIL PAD - 33"
13	7153	1	SPRING, PLATFORM GATE
14	3627K2	1	REAR GATE REQUIRES 1,4802 SPRING KIT
15	6434	14	BTCAPHEX .38 162.00Z 5N
16	5355	28	WR FLAT .438 ID X 1.000 OD X .078 WALL
17	5039	14	NTHXKEPO.375 16Z 5N
18	7119	10	BTCAPHEX .312 182.25Z 5N
19	7120	12	NTLOC2WYO.312 18Z 5N
20	7123	2	BTCAPHEX .312 181.75Z 5N

ART382R1
BM13415
06/27/97

FIG. 4-6 2-Piece 48" Fold Down Rails

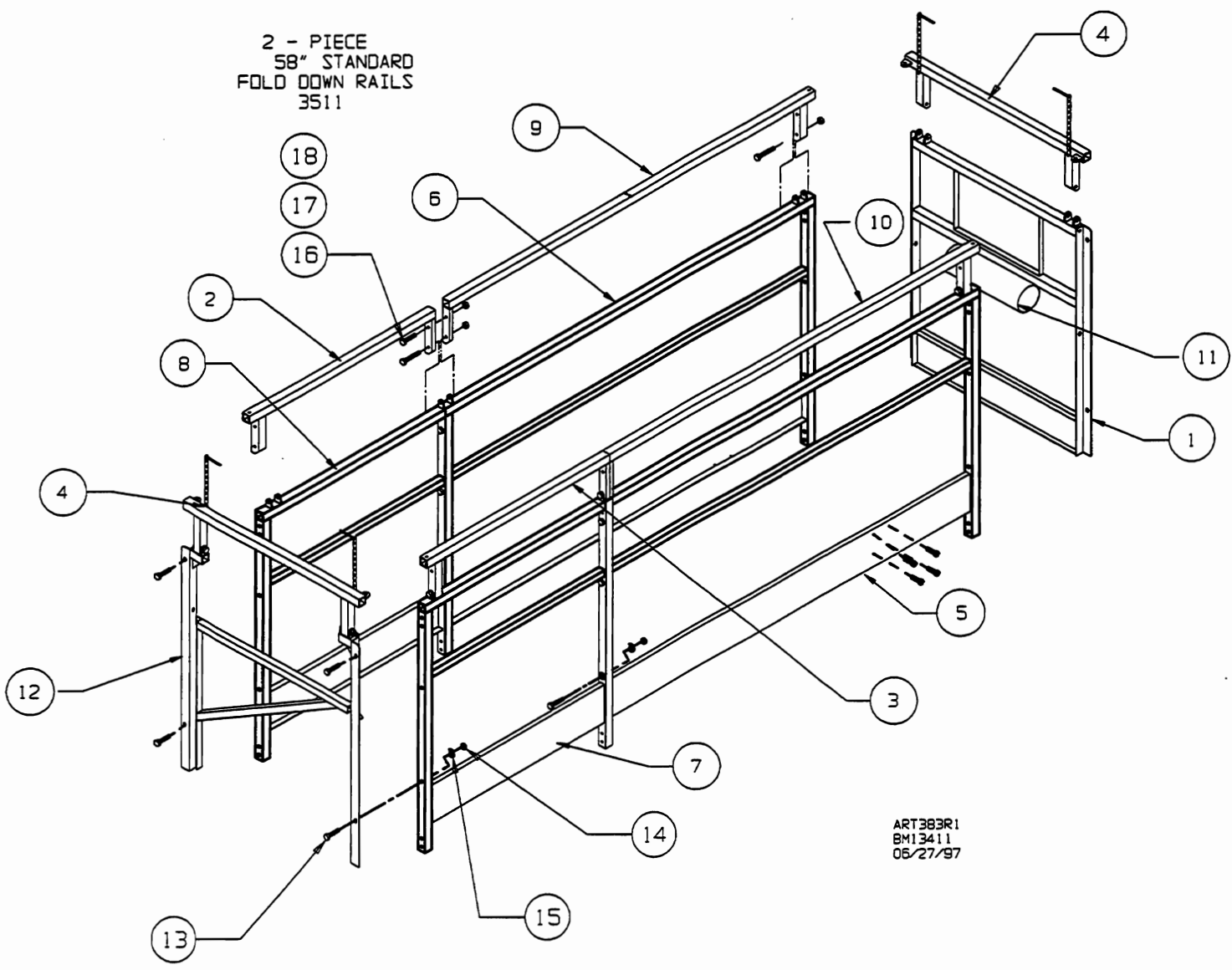
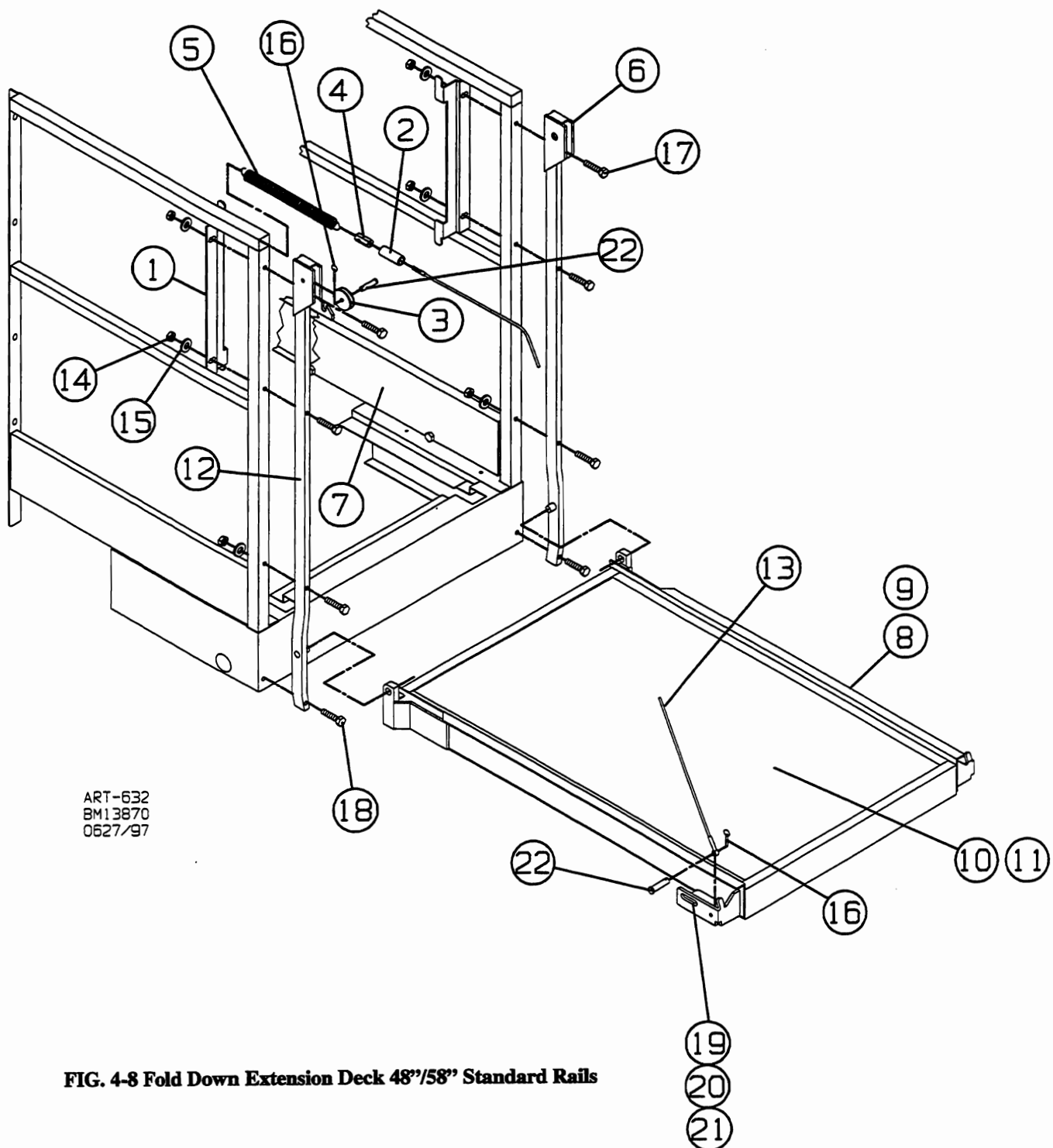


FIG. 4-7 2-Piece 58" Fold Down Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3533	1	FRONT RAIL - FOLD DOWN
2	3547	1	RAIL - TOP LEFT, REAR
3	3549	1	RAIL - TOP RIGHT, REAR
4	3552	2	TOP RAIL- 58"
5	3696	1	SIDE RAIL RIGHT, FRONT
6	3697	1	SIDE RAIL LEFT, FRONT
7	3700	1	SIDE RAIL RIGHT, REAR
8	3701	1	SIDE RAIL LEFT, REAR
9	3702	1	TOP RAIL LEFT, FRONT
10	3703	1	TOP RAIL, RIGHT FRONT
11	3788	1	COVER ASSEMBLY - MANUAL TUBE
12	3626K2	1	GATE 58" REQUIRES (1) 4802 SPRING KIT
13	6434	14	BTCAPHEX .38 162.00Z 5N
14	5355	28	WR FLAT .438 ID X 1.000 OD X .078 WALL
15	5039	14	NTHXKEPO.375 16Z 5N
16	7119	10	BTCAPHEX .312 182.25Z 5N
17	7120	12	NTLOC2WYO.312 18Z 5N
18	7123	2	BTCAPHEX .312 181.75Z 5N

ART383R1
BM13411
06/27/97

FIG. 4-7 2-Piece 58" Fold Down Rails



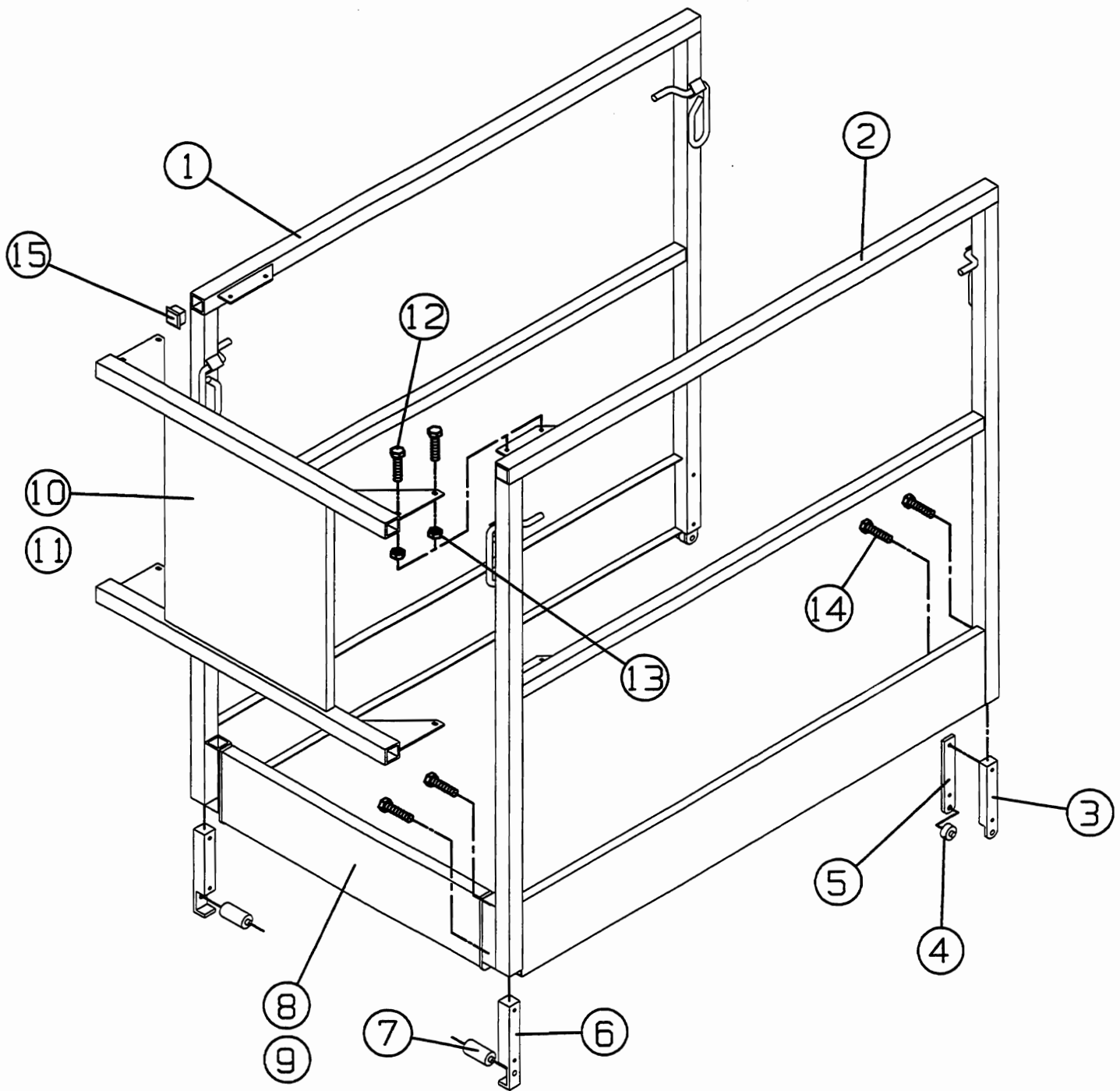
ART-632
 BM13870
 0627/97

FIG. 4-8 Fold Down Extension Deck 48"/58" Standard Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3344	2	STOP BRACKET
2	3343	1	ATTACHING BLOCK - CABLE
3	2747	2	PULLEY
4	3366	1	SPRING CONNECTING PIN (HEX)
5	6781	1	SPRING - RETRACTING
6	3316	1	LH PULLEY BRK'T & BAR WELDMENT
7	3346	1	INNER KICK PANEL
8	3310	1	EXTENDING PLATFORM WELDMENT 48"
9	3311	1	EXTENDING PLATFORM WELDMENT 58"
10	6778	1	PLATFORM FLOOR BOARD 48"
11	6779	1	PLATFORM FLOOR BOARD 58"
12	3317	1	RH PULLEY BRK'T & BAR WELDMENT
13	6821	1	CABLE ASSEMBLY
14	5039	6	3/8-16 KEPS NUT (LOCK)
15	5355	6	WASHER
16	5920	6	COTTER PIN
17	6777	6	7/8-16 X 3-1/4" BOLT
18	6434	2	3/8-16 X 2" BOLT
19	6431	1	WASHER
20	6962	1	CLEVIS PIN 5/16 X 3-1/2"
21	3597	1	BUSHING
22	6450	1	CLEVIS PIN

ART-632
BM13870
0627/97

FIG. 4-8 Fold Down Extension Deck 48"/58" Standard Rails



ART-631
 BM1.3863
 06/27/97

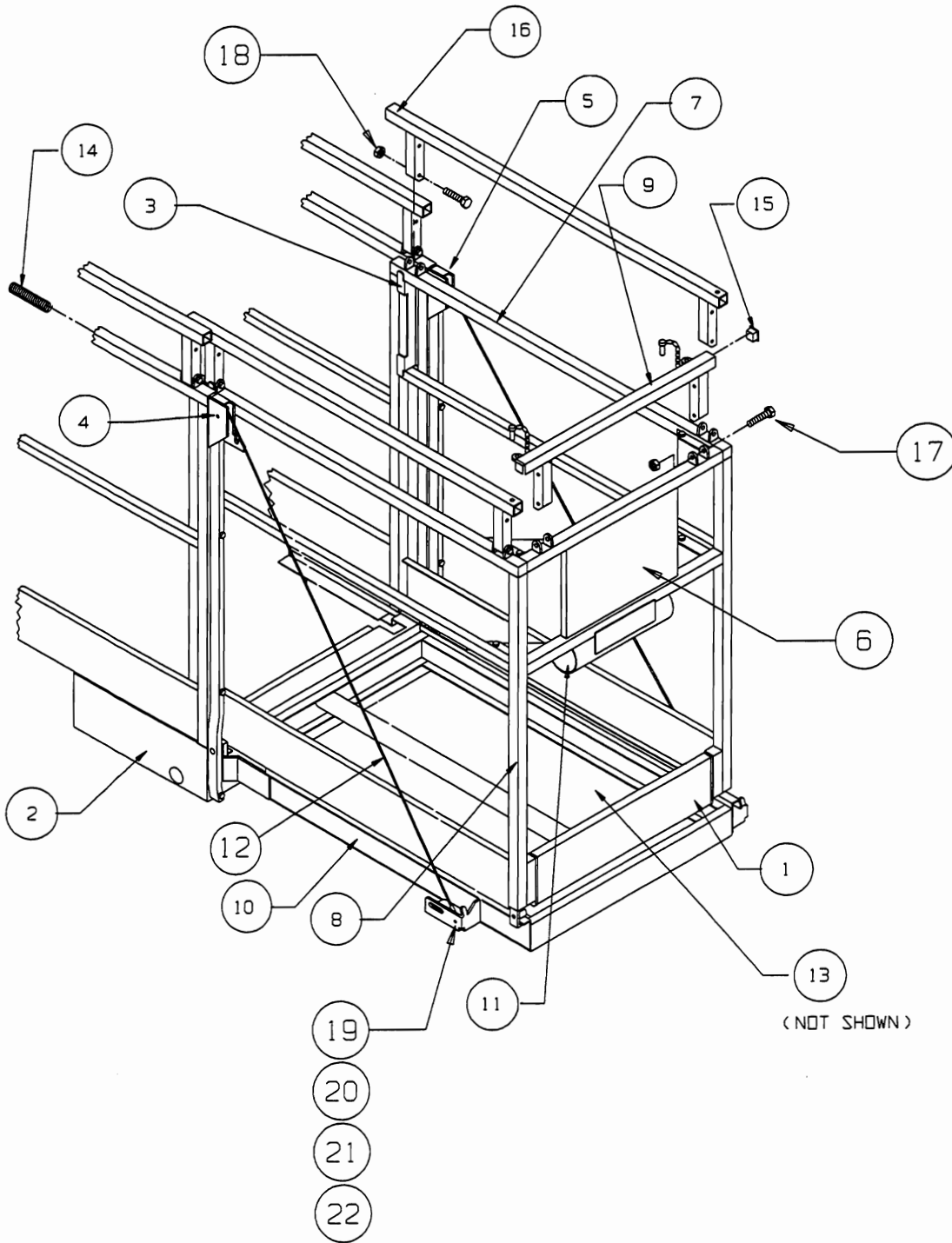
FIG. 4-9 48"/58" Fold Down Extension Deck Standard Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3339	1	RH SIDE RAIL WELDMENT
2	3340	1	LH SIDE RAIL WELDMENT
3	3302	2	BRACKET - SIDING RAIL (OUTER)
4	3291	2	REAR ROLLER
5	3301	2	BRACKET - SIDING RAIL (INNER)
6	3319	2	GUIDE BRACKET - SIDING RAIL (FRONT)
7	3318	2	FRONT ROLLER
8	3323	1	FRONT KICK PANEL 48"
9	3324	1	FRONT KICK PANEL 58"
10	3328	1	FRONT RAIL WELDMENT 48"
11	3329	1	FRONT RAIL WELDMENT 58"
12	5723	8	1/4-20 X 3/4" BOLT
13	5276	8	1/4-20 KEPS NUT (LOCK)
14	6831	8	1/4-20 X 2" BOLT
15	6823	4	CAP PLUG 1 1/4 SQ. TUBE

ART-631
BM13863
06/27/97

FIG. 4-9 48"/58" Fold Down Extension Deck Standard Rails

3518-FOLD DOWN RAILS-EXTENDED PLATFORM - 48"



ART384R1
BM13416
06/27/97

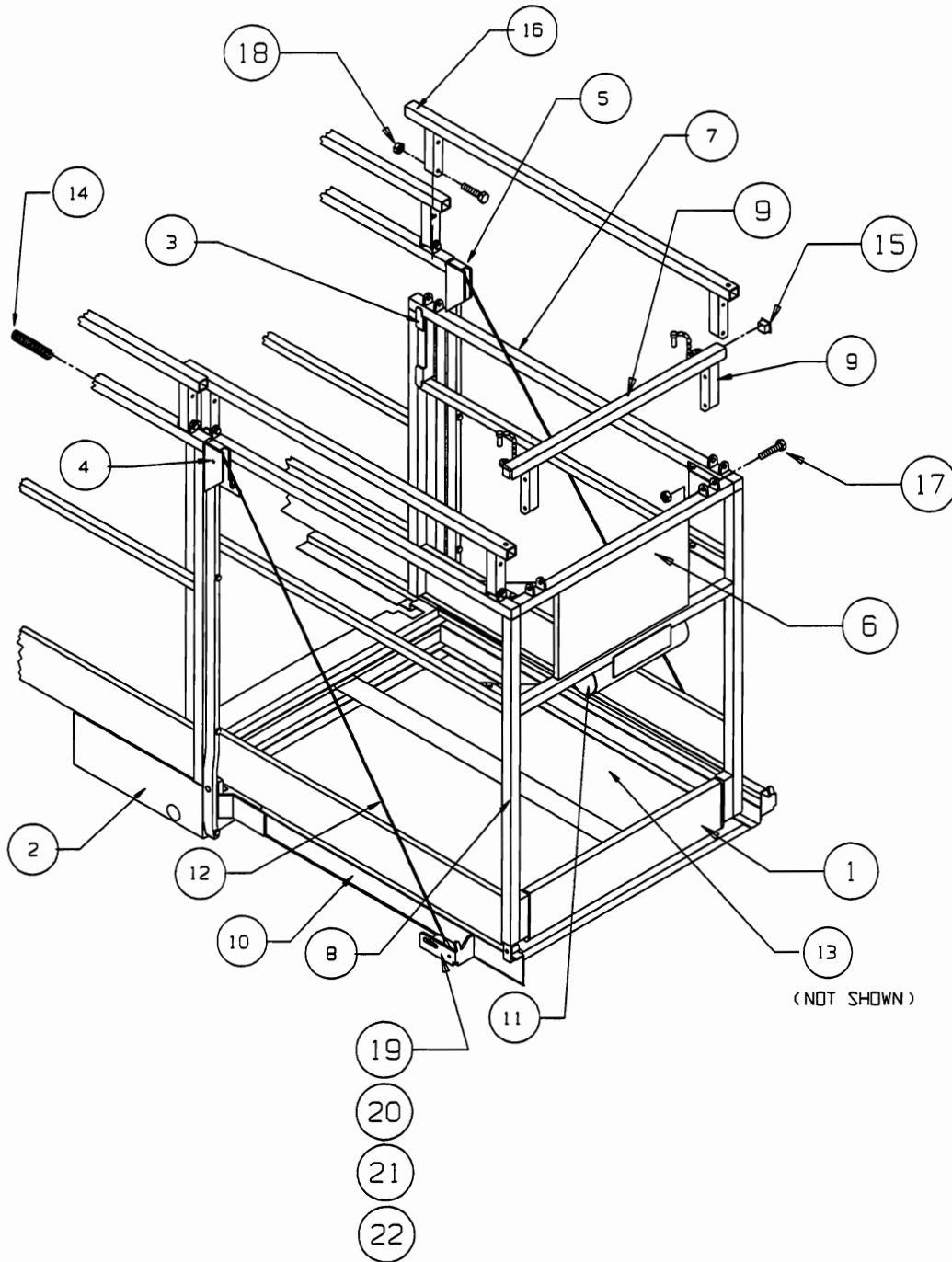
FIG. 4-10 48" Fold Down Extension Deck Fold Down Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3323	1	FRONT KICK PANEL
2	3498	1	FRONT PLATFORM
3	3517	2	STOP BRACKET COLLAPSING RAIL
4	3521	1	PULLEY BRACKET & BAR-RIGHT
5	3522	1	PULLEY BRACKET & BAR-LEFT
6	3530	1	FRONT RAIL-FOLD DOWN
7	3542	1	SIDE RAIL LEFT, FOLD DOWN
8	3543	1	SIDE RAIL RIGHT, FOLD DOWN
9	3560	1	TOP RAIL 48"
10	3569	1	EXTENDING PLATFORM
11	3788	1	COVER ASSEMBLY-MANUAL TUBE
12	3833	2	CABLE ASSY - EXTENDED PLATFORM
13	6778	1	EXT PLATFORM FLOOR BOARD
14	6781	2	SPRING-PLATFORM RETRACTOR
15	6823	16	CAP PLUG-1 1/4 SQUARE
16	3571K2	1	TOP RAIL-SIDE KIT
17	7119	6	BTCAPHEX .312 182.25Z 5N
18	7120	6	NTLOC2WYO.312 18Z 5N
19	6962	1	PNCLEVIS 0.31 3.50ZSTLN
20	5920	1	PNCOTTERH 0.12 1.00ZSTLN
21	5217	1	WR FLAT 0.3430.6880.063STYNN
22	3597	1	SPACER

ART384R1
BM13416
06/27/97

FIG. 4-10 48" Fold Down Extension Deck Fold Down Rails

3519-FOLD DOWN RAILS-EXTENDED PLATFORM - 58"



ART621R1
BM13836
06/27/97

FIG. 4-11 58" Fold Down Extension Deck Fold Down Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3324	1	FRONT KICK PANEL
2	3499	1	FRONT PLATFORM
3	3517	2	STOP BRACKET COLLAPSING RAIL
4	3521	1	PULLEY BRACKET & BAR-RIGHT
5	3522	1	PULLEY BRACKET & BAR-LEFT
6	3529	1	FRONT RAIL-FOLD DOWN
7	3542	1	SIDE RAIL LEFT, FOLD DOWN
8	3543	1	SIDE RAIL RIGHT, FOLD DOWN
9	3559	1	TOP RAIL 58"
10	3570	1	EXTENDING PLATFORM
11	3788	1	COVER ASSEMBLY-MANUAL TUBE
12	3833	2	CABLE ASSY - EXTENDED PLATFORM
13	6779	1	EXT PLATFORM FLOOR BOARD
14	6781	2	SPRING-PLATFORM RETRACTOR
15	6823	16	CAP PLUG-1 1/4 SQUARE
16	3571K2	1	TOP RAIL-SIDE KIT
17	7119	6	BTCAPHEX .312 182.25Z 5N
18	7120	6	NTLOC2WYO.312 18Z 5N
19	6962	1	PNCLEVIS 0.31 3.50ZSTLN
20	5920	1	PNCOTTERH 0.12 1.00ZSTLN
21	5217	1	WR FLAT 0.3430.6880.063STYNN
22	3597	1	SPACER

ART621R1
BM13836
06/27/97

FIG. 4-11 58" Fold Down Extension Deck Fold Down Rails

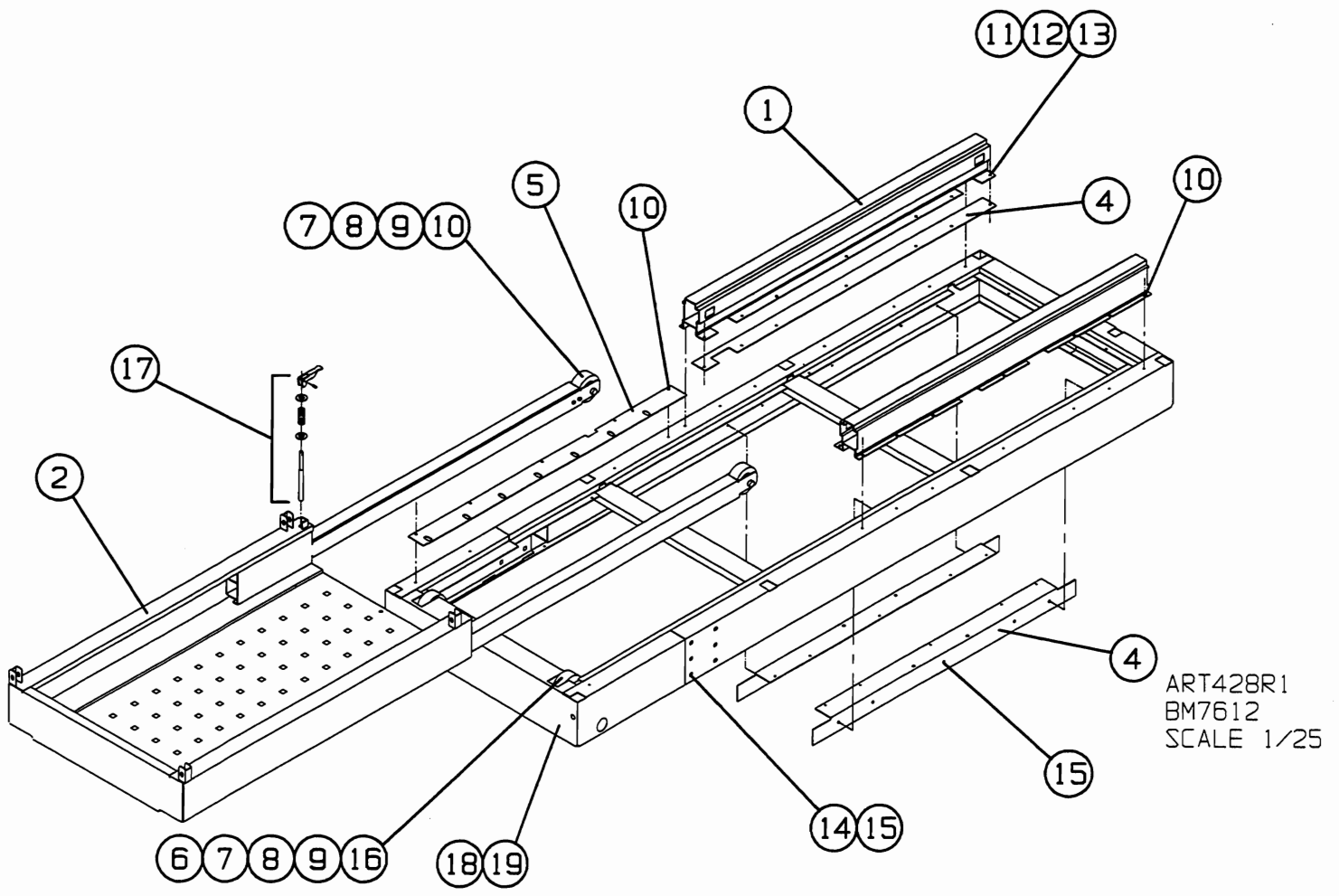


FIG. 4-12 48' Rollout Extension Deck Assembly

ITEM	QTY	PART NO.	DESCRIPTION
1	2	4848	ROLLER TRACK WELDMENT
2	1	3741	EXTEND PLATFORM WELDMENT ROLLOUT
3	2	3744	LOWER MOUNTING ANGLE
4	2	4904	SHIM - ROLLER TRACK
5	1	4846	LOCK PLATE
6	2	11337	ROLLER PIVOT WELDMENT - PLATFORM
7	4	7465	ROLLER - 3-1/4" DIAMETER
8	2	4842	ROLLER PIVOT WELDMENT
9	4	5432	GREASE FITTING
10	8	5723	BOLT - HEX HEAD 1/4-20 X 3/4 SELF-TAPPING
11	14	6029	BOLT - HEX HEAD 1/4-10 X 1-1/2
12	24	5217	WASHER - FLAT 5/16
13	8	5276	NUT - 1/4-20
14	12	6750	BOLT - CARRIAGE 3/8-16 X 1
15	12	5039	NUT - 3/8-16
16	14	6455	BOLT - HEX HEAD 1/4-20 X 1/2 SELF-TAPPING
17	1		PLATFORM LOCK ASSY (SEE ART430)
18	1	3746	PLATFORM FRONT WELDMENT ROLLOUT
19	1	6702	FLOOR BOARD - MAIN PLATFORM

ART428R1
BM7612
SCALE 1/25

FIG. 4-12 48" Rollout Extension Deck Assembly

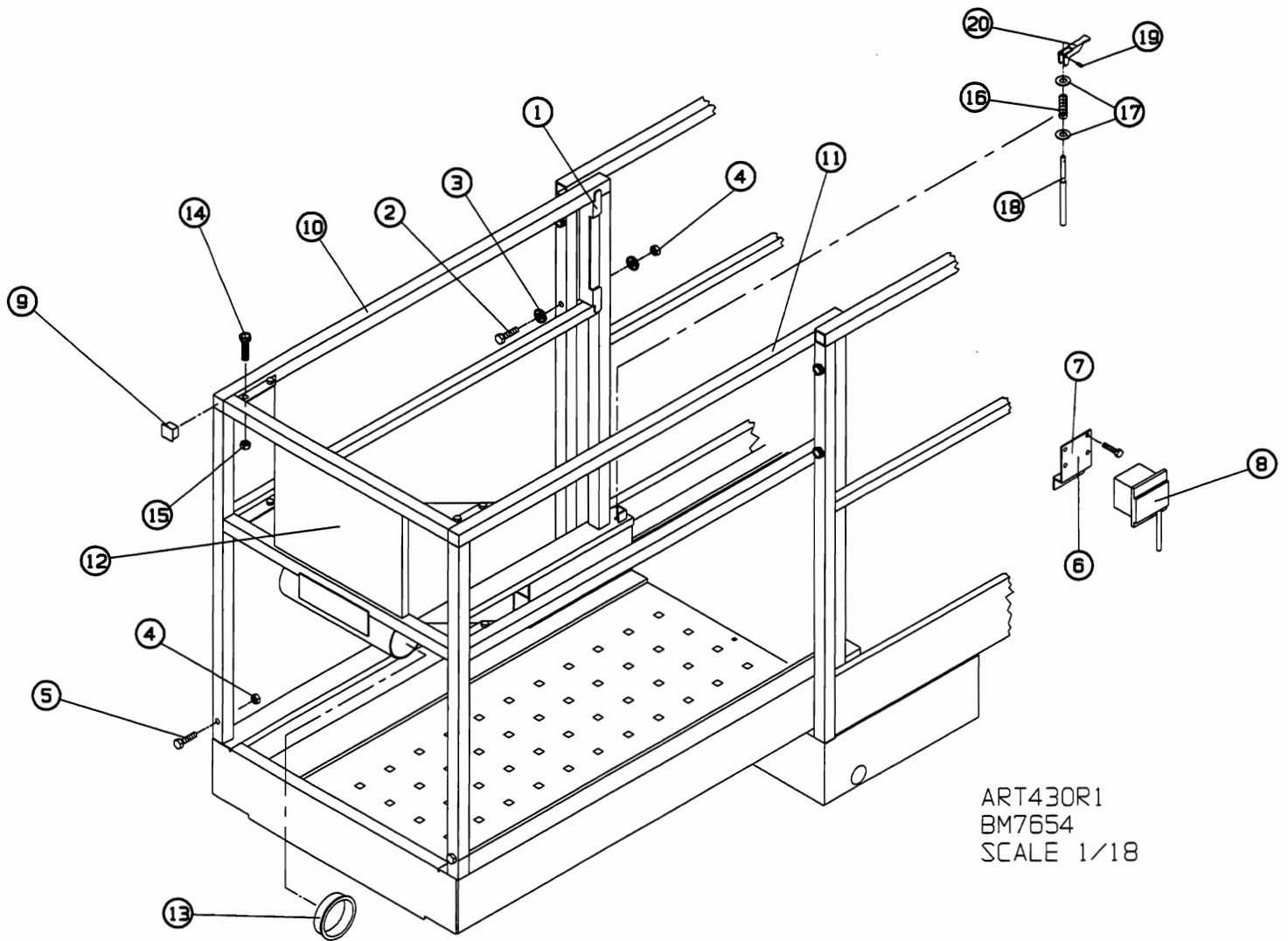
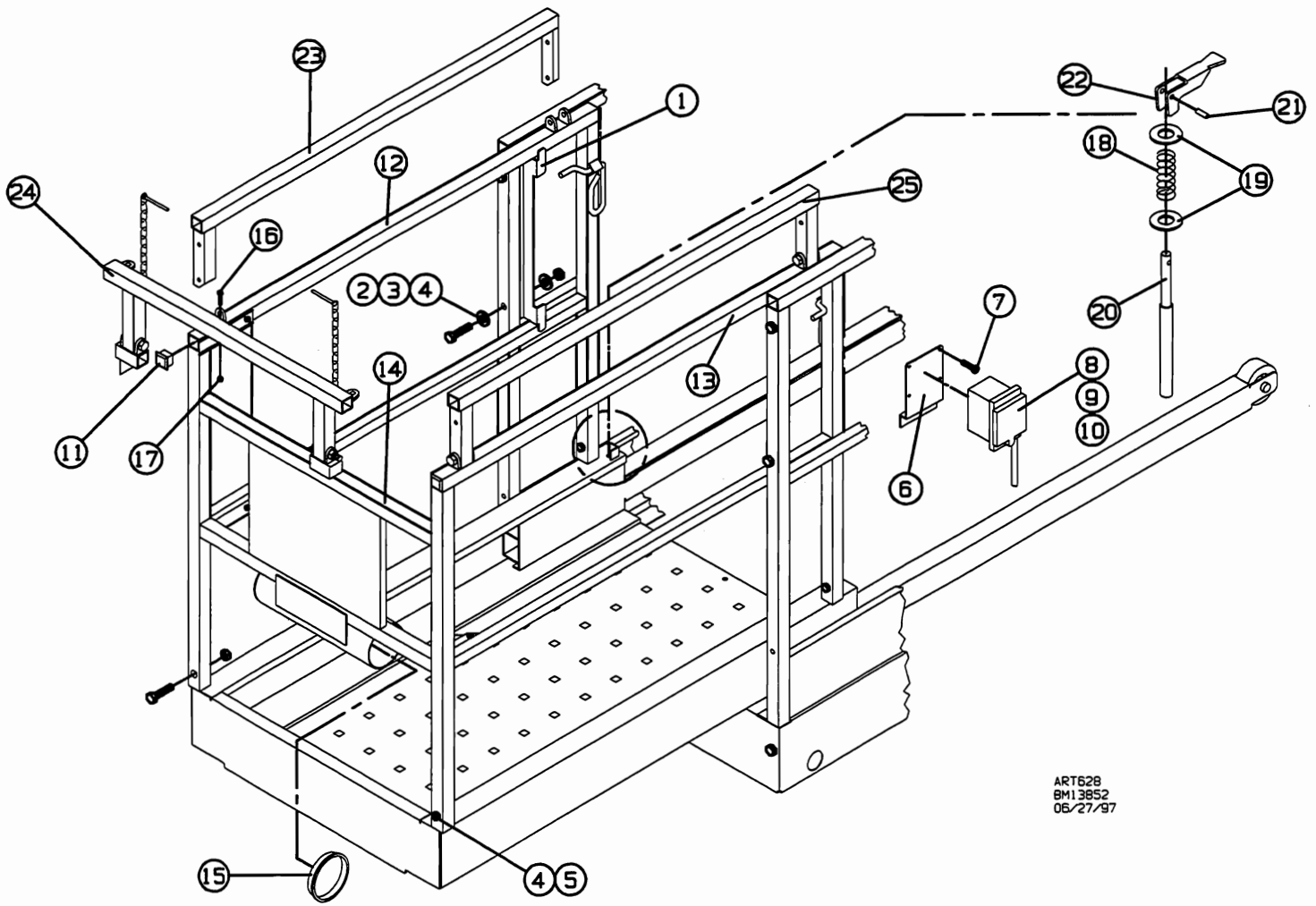


FIG. 4-13 48" Rollout Extension Deck Standard Rails

ITEM	QTY	PART NO. 48"	DESCRIPTION
1	2	3344	STOP BRACKET
2	14	6434	BTCAPHEX .375 162.00Z 5N
3	18	5355	WRFLAT 0.4381.0000.078STZNN
4	16	5039	NTHXKEPO.375 16Z 5N
5	4	5756	BTTAPHXFLS .375 161.75 82N
6	1	4900	OUTLET MOUNTING BRACKET
7	6	6455	BTTITETAP .250 200.50Z 5Y
8	1	3903	110 VAC - CORD KIT w/OUTLET BOX
SERV		7261	RECEPTACLE BOX - GFI
SERV		7262	RECEPTACLE COVER - GFI
SERV		7263	RECEPTACLE DUPLEX - GFI
9	4	6823	CAPLUG 1-1/4 SQUARE
10	1	4853	EXTEND PLATFORM SIDE RAIL RH
11	1	4854	EXTEND PLATFORM SIDE RAIL LH
12	1	3530	FRONT RAIL WELD EXT PLAT w/MANUAL TUBE
SERV		11323	MANUAL TUBE ASSEMBLY
13	1	3788	MANUAL TUBE CAPS ASSEMBLY
14	8	5723	BTSTFHEX .250 200.75ZSTLY
15	8	5276	NTHX 0.250 20Z 5N
16	1	7408	SPRING - DECK LOCK
17	2	11410	WASHER - SPRING RETAINER
18	1	4855	LOCK PIN - EXT PLATFORM
19	1	7455	ROLL PIN 3/16 x 3/4
20	1	10476	LOCK LEVER

ART430R1
BM7654
SCALE 1/18

FIG. 4-13 48" Rollout Extension Deck Standard Rails



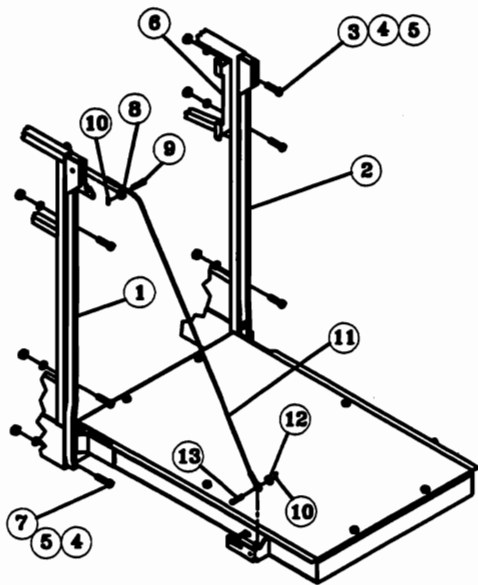
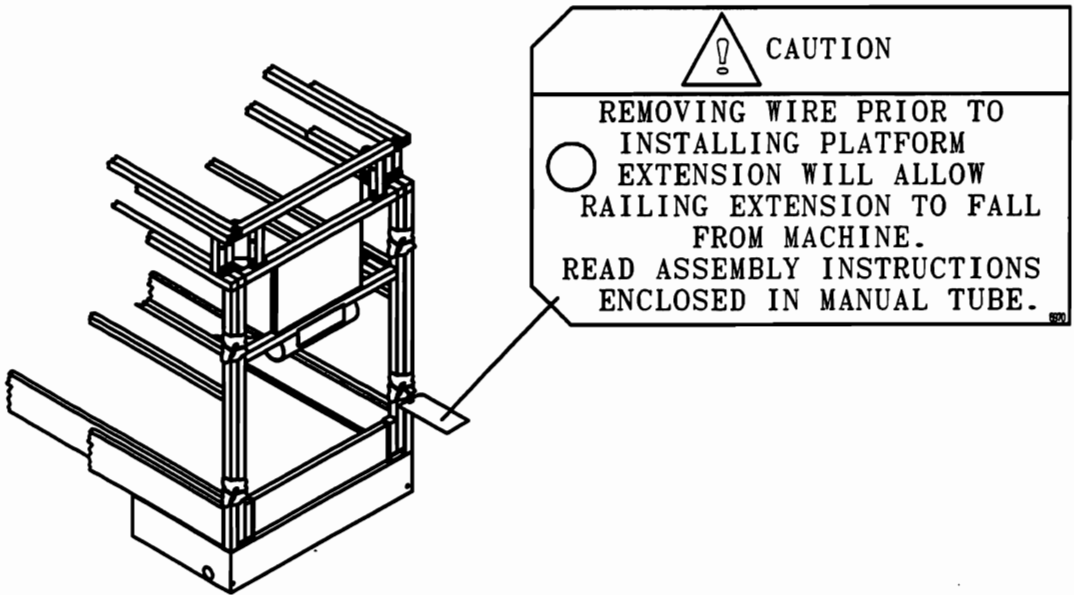
ART628
 BM13852
 06/27/97

FIG. 4-14 48" Rollout Extension Deck Fold Down Rails

ITEM	PART NO.	QTY.	DESCRIPTION
1	3517	2	STOP BRK' T (COLLAPSING)
2	6434	4	BTCAPHEX 0.38 162.00Z 5N
3	5355	8	WRFLAT 0.4382.0000.078STZNN
4	5039	8	NTHXKEPO.375 16Z 5N
5	5756	4	BTTAPHXFLS .375 161.75Z 82N
6	4900	1	BRACKET - OUTLET - MNRO
7	6455	4	BTTITETAP .250 200.50Z 5Y
8	7261	SERV	RECEPTACLE BOX AC OUTLET
9	7262	SERV	COVER RECEPTACLE BOX
10	7263	SERV	RECEPTACLE DUPLEX GF.
11	6823	6	CAPLUG 1 1/4" SQ. TUBING
12	3830	1	SIDE RAIL - R/O EXT.-R.H.-F.D.
13	3829	1	SIDE RAIL - R/O EXT.-L.H.-F.D.
14	3530	1	FRONT RAIL WELD (COLLAPSABLE)
15	3788	1	COVER ASS'Y - MANUAL TUBE
16	7119	6	BTCAPHEX .312 182.25Z 5N
17	7120	6	NTLOC2WYO.312 18Z 5N
18	7408	1	SPRING, DECK LOCK
19	11410	2	WASHER, SPRING RETAINER
20	4855	1	LOCK PIN - EXT. PLT
21	HDW7455	1	ROLL PIN
22	10476	1	LOCK LEVER
23	3556	1	TOP RAIL SIDE WELD EP-RH-F/D
24	3560	1	TOP FRONT RAIL EP WELD 48" F/D
25	3555	1	TOP RAIL SIDE WELD EP-LH-F/D

ART628
BM13852
06/27/97

FIG. 4-14 48" Rollout Extension Deck Fold Down Rails



ART485 R2
 BM10643
 07/07/97

FIG 4-15 Fold Down Extension Deck Assembly Instructions

ITEM	QTY	PART NO. 48"	PART NO. 58"	DESCRIPTION
1	1	3521	3521	BAR, PULLEY BRACKET, RH FD
2	1	3522	3522	BAR, PULLEY BRACKET, LH FD
3	6	6777	6777	BTCAPHEX .375 163.25Z 5N
4	8	5355	5355	WRFLAT 0.4381.0000.078STZNN
5	8	5039	5039	NTHXKEPD .375 16Z 5N
6	2	3517	3517	STOP BRACKET FD
7	2	6434	6434	BTCAPHEX .375 162.00Z 5N
8	2	2747	2747	PULLEY
9	2	6450	6450	PNCLEVIS 0.311.25ZSTLN
10	2	5920	5920	PNCOTTERHD.121.00ZSTLN
11	2	3833	3833	CABLE ASSEMBLY
12	2	5217	5217	WRFLAT 0.3430.6880.063STYNN
13	2	7163	7163	PNCLEVIS 0.31 3.12ZSTLN

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 RETAIN FOR YOUR RECORDS.

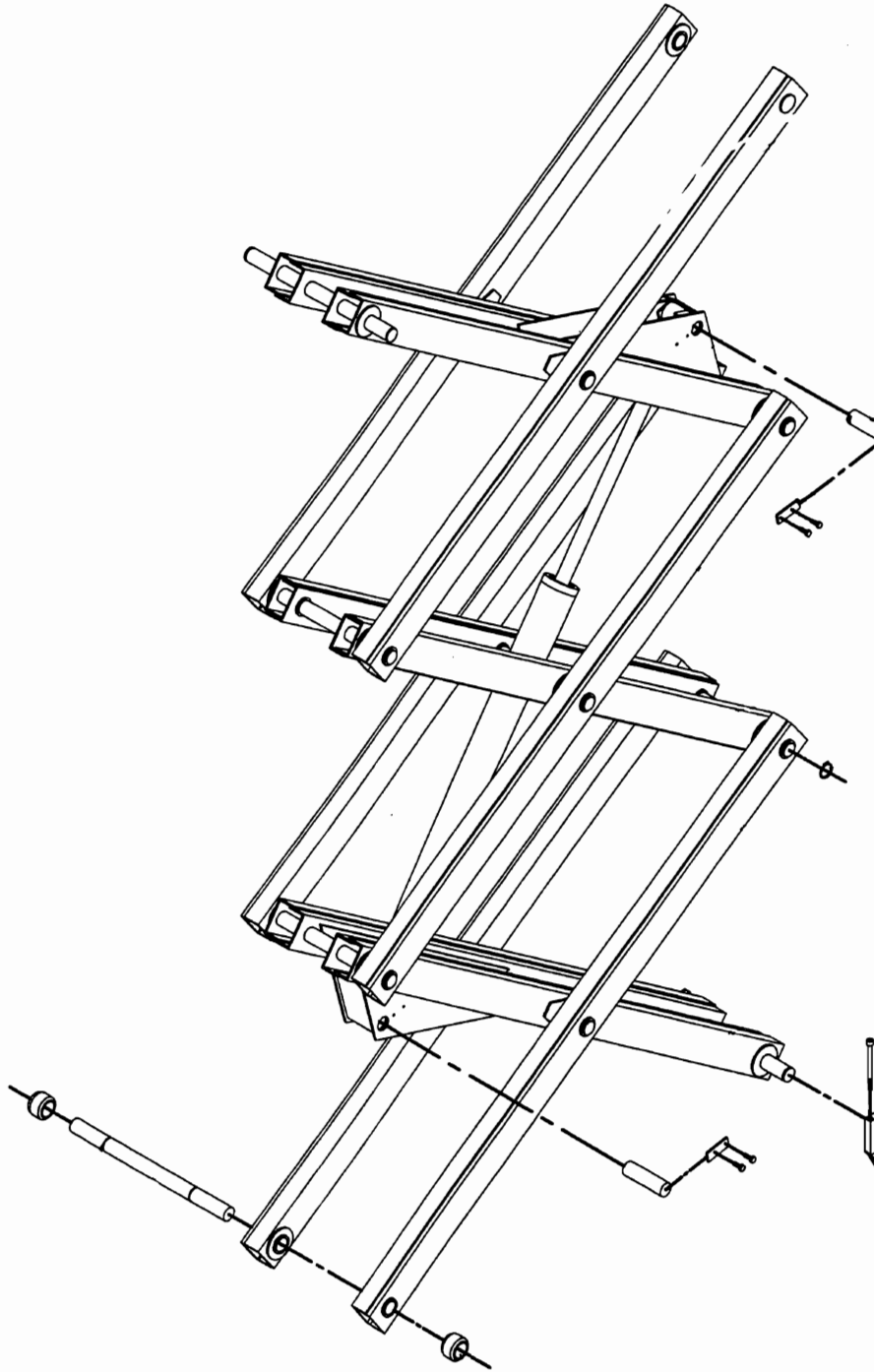
ART485 R2
BM10543
07/07/97

FIG 4-15 Fold Down Extension Deck Assembly Instructions

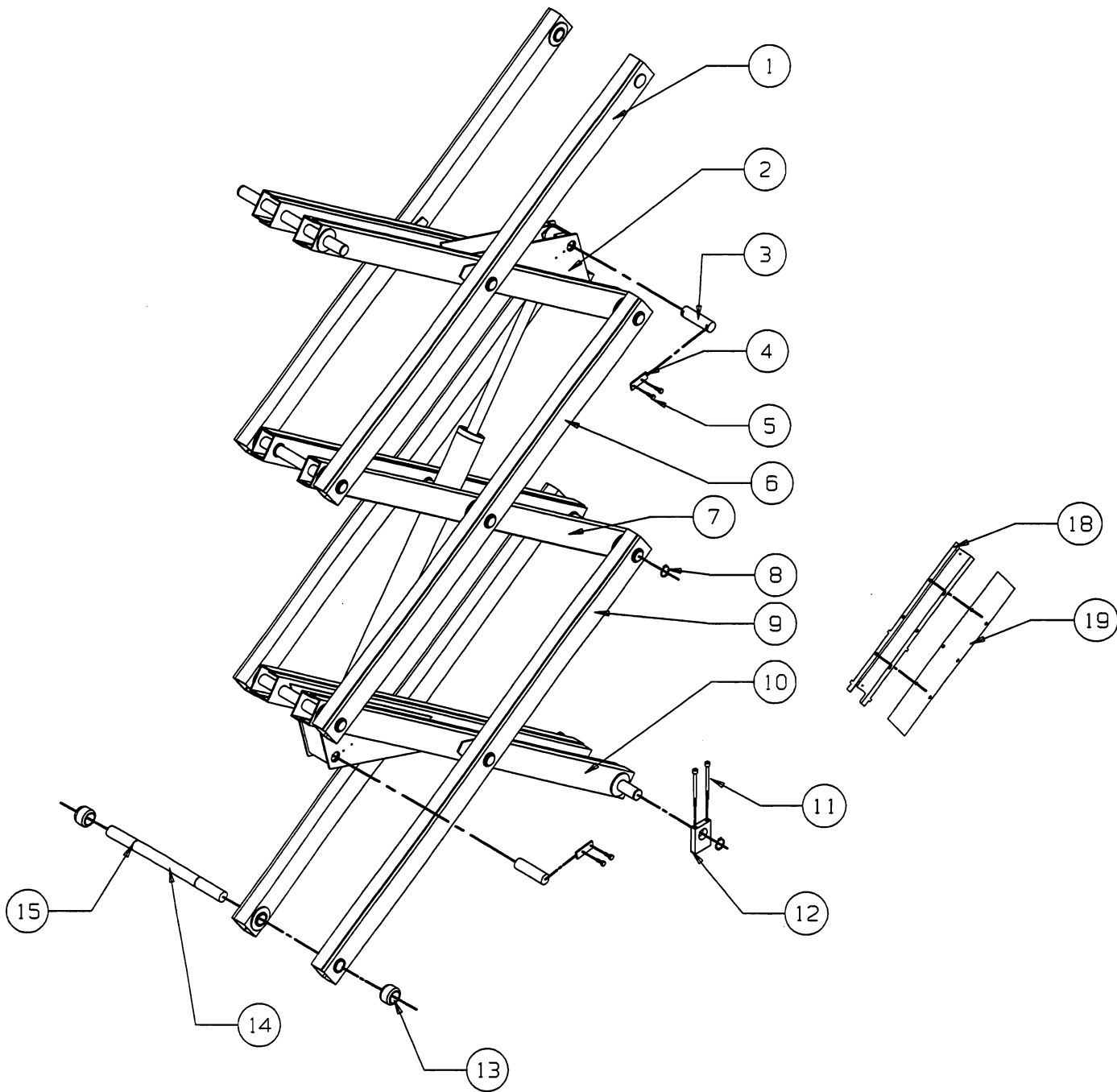
NOTES:

HITE-MASTER

Scissors & Lift Mech.



NOTES:



ART-619 R1
 BM13825
 06/27/97

FIG. 5-1 19ft. Scissor Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3049	2	NARROW BEAM
2	3000	2	UPPER INNER BEAM CYLINDER MOUNT
3	8341	2	CYLINDER RETAINING PIN
4	3150	4	RETAINING PAR - CYLINDER PIN
5	HDW5723	8	BOLT, 1/4"-20, 3/4" LONG
6	3050	2	NARROW BEAM
7	3007	2	INNER BEAM
8	6701	16	RETAINING RING 2" SHAFT
9	3018	4	NARROW BEAM
10	3063	2	INNER BEAM CYLINDER MOUNT - LOWER
11	HDW6663	4	BOLT, 1/2"-13, 5/1/2" LONG, GRADE 8
12	3075	2	PIVOT BLOCK
13	3110	2	ROLLER BASE
14	8342	1	BASE ROLLER PIN
15	6688	2	KLIP RING - 2" SHAFT
16	4626	1	CORD COVER LONG
17	4627	1	CORD COVER SHORT
18	3209	1	TRAY
19	3210	1	HOSE COVER

ART-619 R1
BM13825
06/27/97

FIG. 5-1 19ft. Scissor Assembly

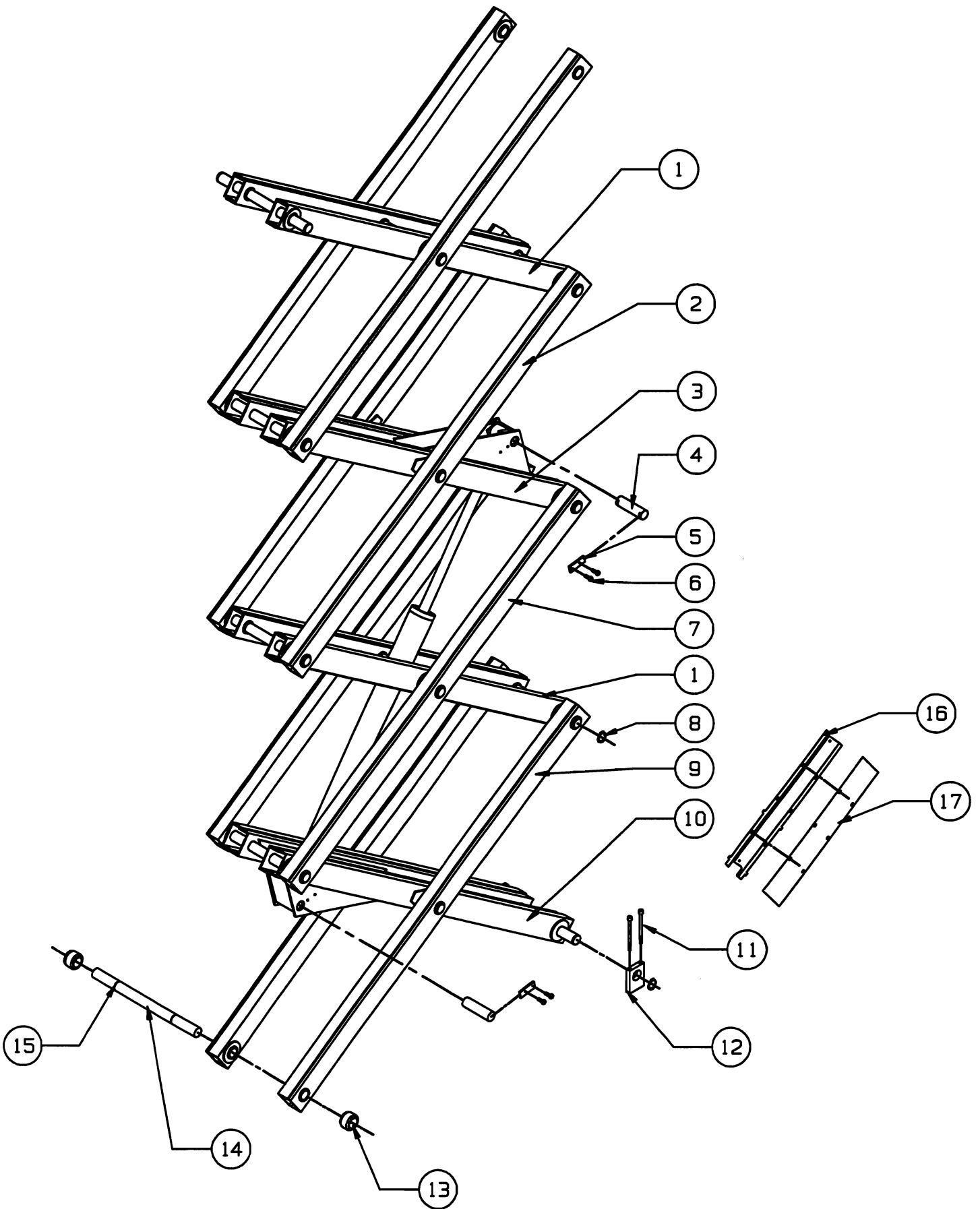


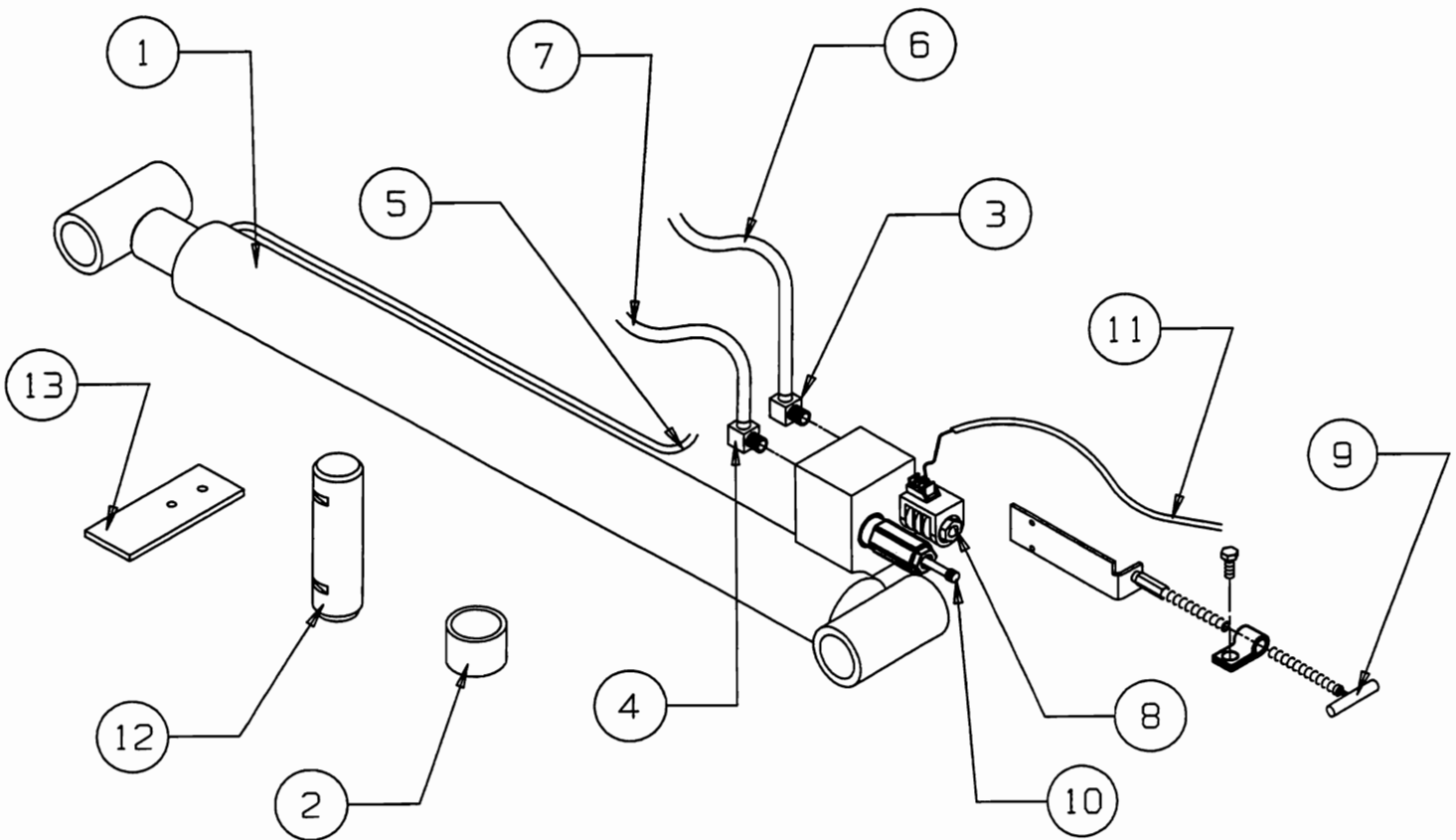
FIG. 5-2 25ft. Scissor Assembly

ART-275 R2
 BM4995
 06/27/97

ITEM	PART NO.	QTY.	DESCRIPTION
1	3007	4	INNER BEAM
2	3049	2	NARROW BEAM
3	3000	2	UPPER INNER BEAM CYLINDER MOUNT
4	8341	2	CYLINDER RETAINING PIN
5	3150	4	RETAINING PAR - CYLINDER PIN
6	HDW5723	8	BOLT, 1/4"-20, 3/4" LONG
7	3050	2	NARROW BEAM
8	6701	24	RETAINING RING 2" SHAFT
9	3018	4	NARROW BEAM
10	3063	2	INNER BEAM CYLINDER MOUNT - LOWER
11	HDW6663	4	BOLT, 1/2"-13, 5/1/2" LONG, GRADE 8
12	3075	2	PIVOT BLOCK
13	3110	2	ROLLER BASE
14	8342	1	BASE ROLLER PIN
15	6688	2	KLIP RING - 2" SHAFT
16	3209	1	TRAY
17	3210	1	HOSE COVER

ART-275 R2
BM4995
12/26/97

FIG. 5-2 25ft. Scissor Assembly



ART646
 BM14033
 06/27/97

FIG. 5-3 Lift Cylinder Assembly

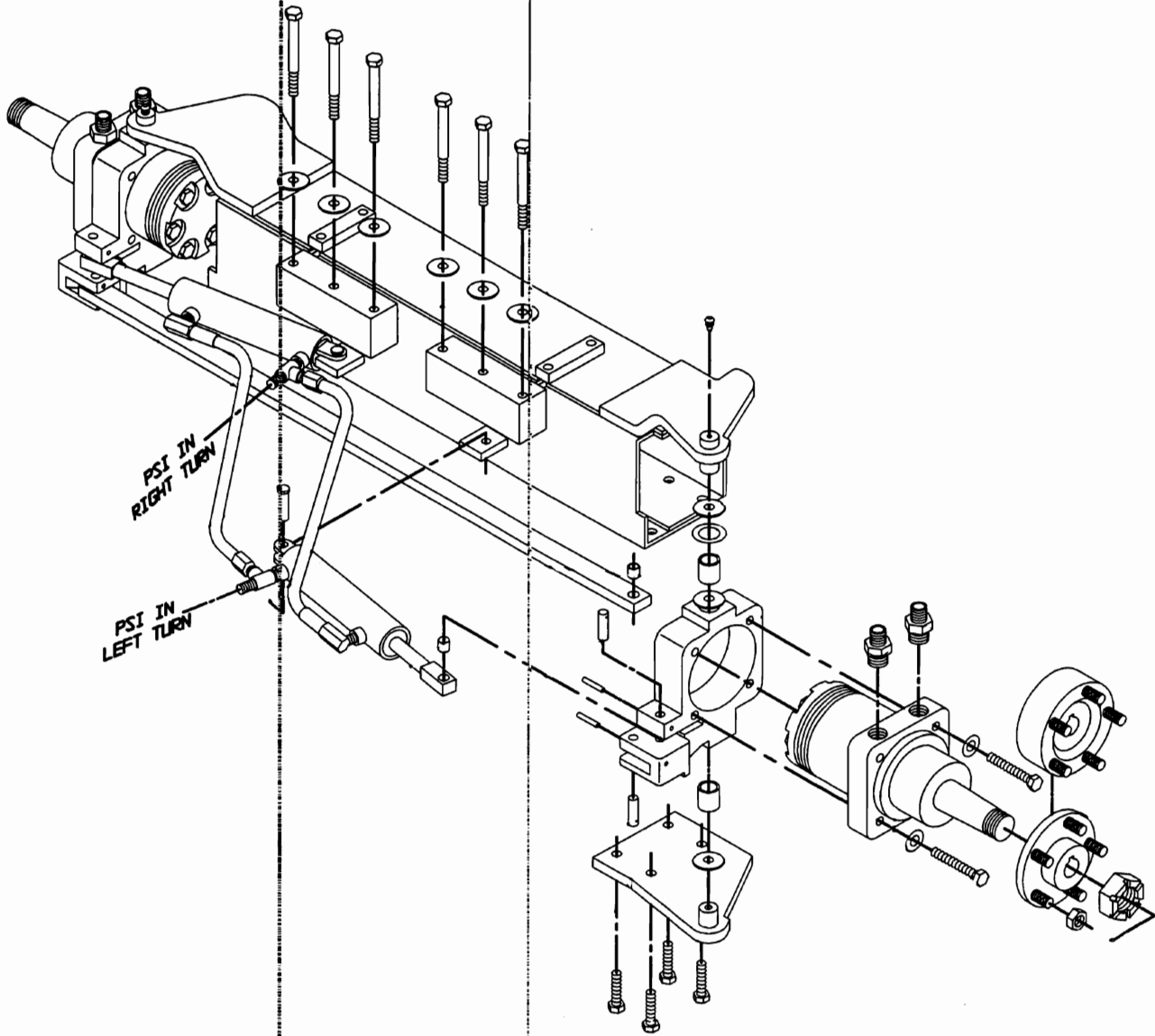
ITEM	PART NO.	QTY.	DESCRIPTION
1	3488	1	CYLINDER LIFT 3-1/2 X 50
	7216	1	EURO CYLINDER
	6790	1	SEAL KIT, CYLINDER
2	6669	4	DU BEARINGS - 32DU32
3	5472	1	FITTING H.P. 90°
4	6727	1	FITTING BAYONET 90°
5	6458	1	HOSE VENT
6	6720	1	HOSE, LIFT H.P.
7	6458	1	HOSE, RETURN LINE
8	6973	1	VALVE, 2 WAY N.C. VALVE ONLY
	6870	1	COIL ONLY 12VDC (DUAL FUEL UNITS)
	6803	1	COIL ONLY 36VDC (BATTERY UNITS)
9	3251	1	EMERGENCY DOWN TUBE ASSEMBLY
10	5435	1	VALVE MANUAL PULL
	5475	1	"O" RING KIT
11	6787	1	WIRE HARNESS
12	3149	2	RETAINING PIN-CYLINDER
13	3150	4	RETAINING PLATE-CYLINDER

FIG. 5-3 Lift Cylinder Assembly

NOTES:

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AXLE ASSEMBLIES



NOTES:

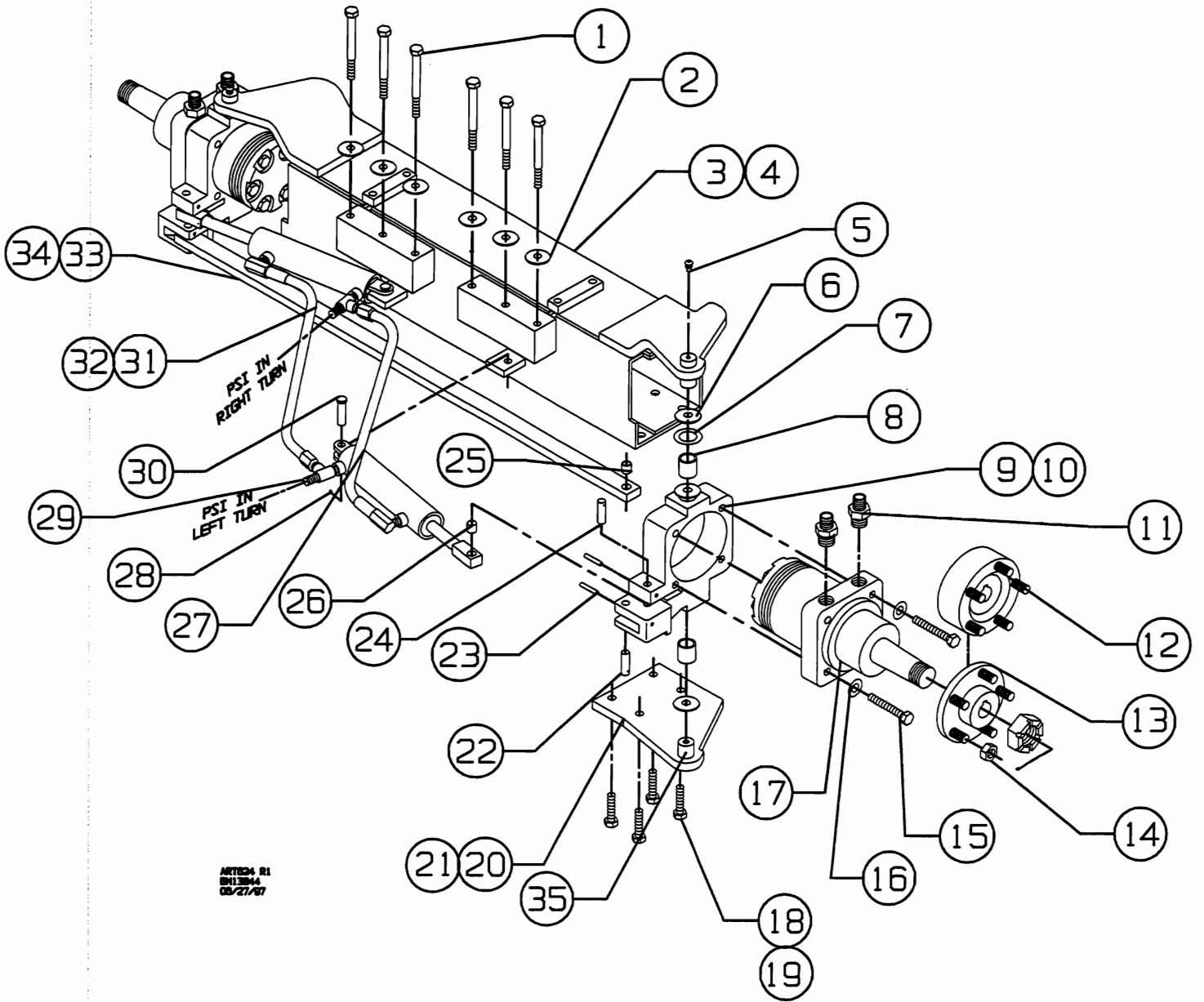


FIG. 6-1 48"/58" Front Axle Assembly

ART624 R1
 BM13844
 06/27/97

ITEM	PART NO.	QTY.	DESCRIPTION
1	7990	12	BOLT, 1/2"- 13, 1 1/4" GRADE 8
2	5012	12	SPIT WASHER Ø 1/2", GRADE 5
3	3140	1	FRONT AXLE WELDMENT (48')
4	3141	1	FRONT AXLE WELDMENT (58')
5	5432	4	GREASE FITTING
6	4332	6	NYLON WASHER 1.101X 2.023 X .03 THICK
7	3080	2	FLAT WASHER 1.01 X 2,023 X .134 THICK
8	6543	4	DU BEARING
9	3073	1	RIGHT HAND MOTOR BRACKET
10	3074	1	LEFT HAND MOTOR BRACKET
11	6725	4	ADAPT MD 1/2 JIC .630RN652N
12	3356	2	FRONT HUB FLOATION TIRE (DF ONLY)
13	3105	2	HUB - FRONT
14	6677	5	LUG NUT 1/2" 20, GRADE 5
15	6435	8	BOLT, 1/2"- 13, 1.75" LONG GRADE 5
16	5012	8	LOCK WASHER .515" DIA X .859 DIA X .125
17	6660P	2	WHEEL MOTOR (HEAVY) PAINTED
	6814	SERV.	SEAL KIT
18	5215	8	BOLT, 1/2"- 13, 1.75" LONG GRADE 5
19	8457	8	NUT, 1/2"- 13
20	3143	1	LOWER PIVOT PLATE WELDMENT RIGHT HAND
21	3144	1	LOWER PIVOT PLATE WELDMENT LEFT HAND
22	3184	2	TIE ROD PIVOT PLATE PIN
23	6416	4	SLOTTED SPRING PIN 2.25" LONG
24	3185	2	STEERING PIVOT PIN
25	6700	2	DU BERING, 1/2 X 5/8
26	7019	2	BEARING 1/2" X 3/4"
27	3722	2	STEERING CYLINDER ASSEMBLY
28	5920	2	COTTER PIN 1/8 X 1" LONG
29	6655	2	1/4" STREET TEE STEEL
30	5710	2	CLEVIS PIN 1/2" X 1 1/4" LONG
31	6717	2	STEERING CYLINDER X-OVER HOSE ASSEMBLY (48')
32	6716	2	STEERING CYLINDER X-OVER HOSE ASSEMBLY (58')
33	3176	1	STEERING ARM, LONG (58')
34	3175	1	STEERING ARM, SHORT (48')
35	3081	SERV.	PIVOT PIN

FIG. 6-1 48"/58" Front Axle Assembly

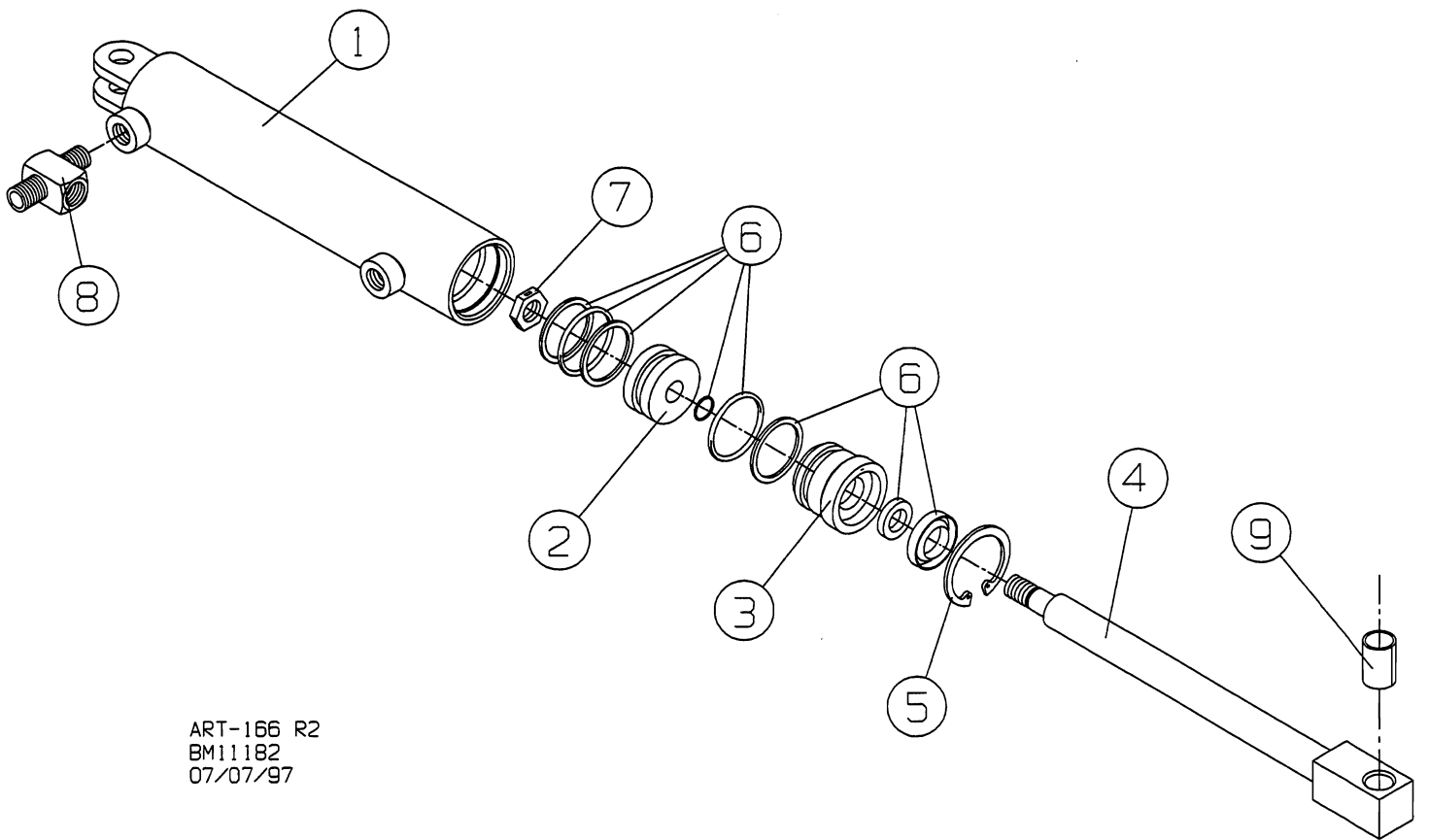
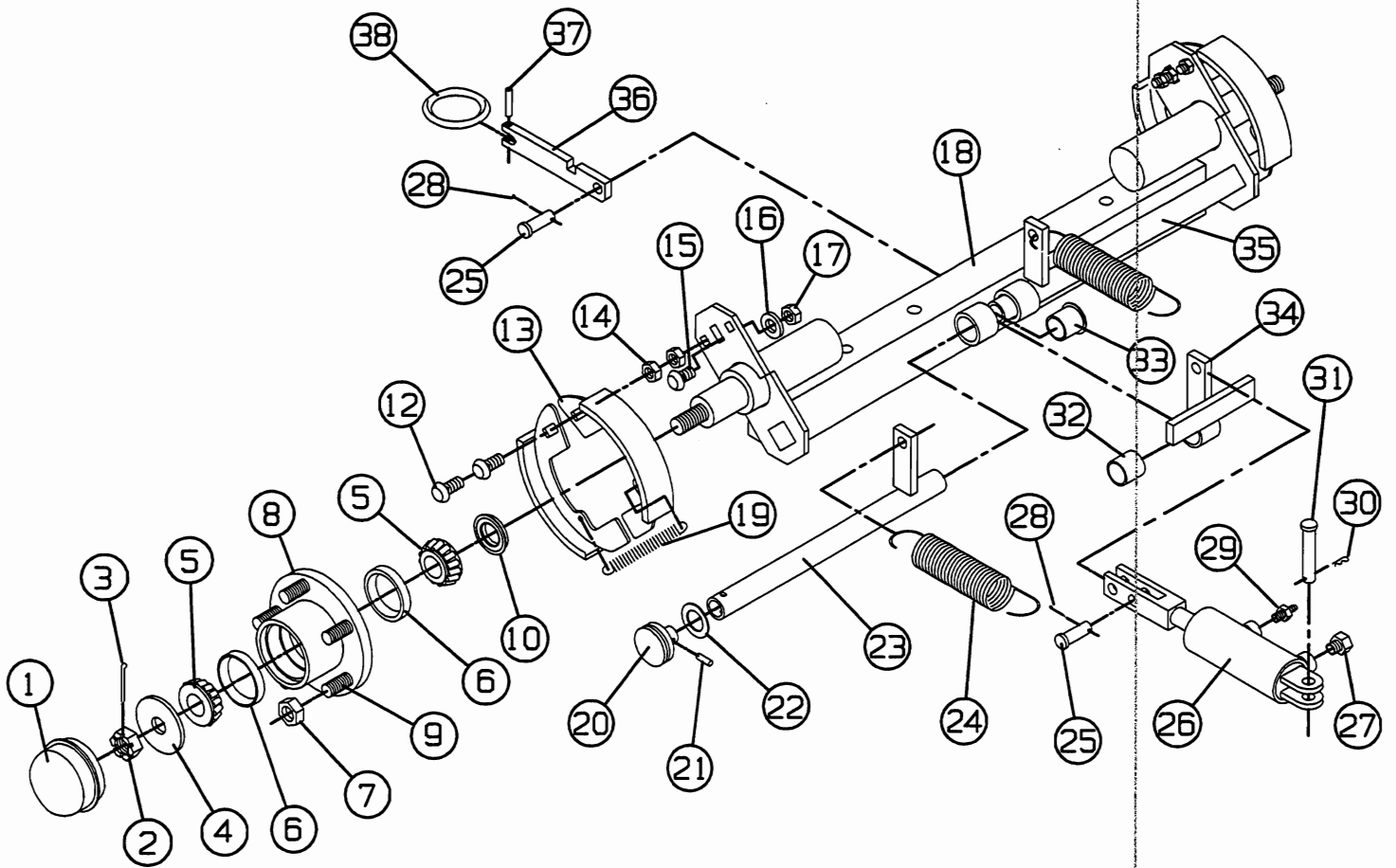


FIG. 6-2 Steering Cylinder Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
	3722	1	STEERING ASSEMBLY
1	3719	1	CYLINDER, STEERING
2	2494	1	PISTON
3	2493	1	HEAD
4	2837	1	ROD, STEERING CYLINDER, W/BEARING
5	6337	1	RING, RETAINING, INTERNAL
6	5947	1	SEAL KIT
7	HDW6338	1	NUT, HEX LOCK, 2-WAY, 1/2-20, GRADE B
8	HDW5106	1	ELBOW, STREET, 1/4"
9	7019	1	BEARING, 08DU12

ART-166 R2
BM11182
07/07/97

FIG. 6-2 Steering Cylinder Assembly



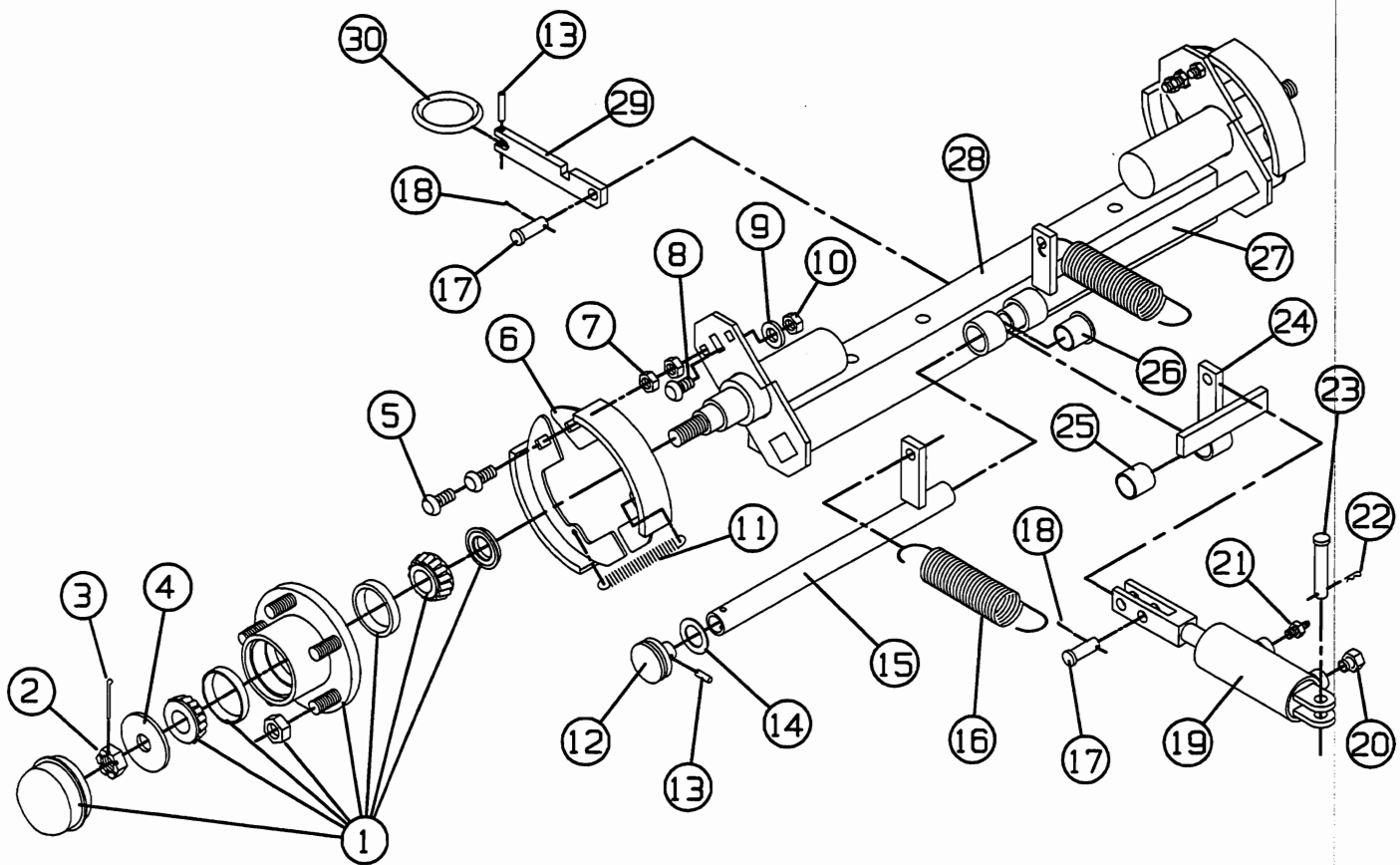
ART-227R0
 BM13837
 06/27/97

FIG. 6-3 48" Standard Rear Axle Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	7950	2	DUST CAP
2	HDW8039	2	CASTLE NUT
3	HDW5738	2	COTTER PIN
4	HDW3801	2	THRUST WASHER OUTER
5	7714	2	TAPERED ROLLER BEARING
6	7716	2	BEARING RACE
7	HDW6677	2	LUG NUT
8	3792	2	HUB - LUG BOLTS 3/8-16X3/4 CAR LONG NECK
9	HDW6676	2	LUG BOLT 1/2-20
10	7954	2	GREASE SEAL INNER
12	HDW6750	4	BRAKE BOLT 3/8-16X3/4 CAR LONG NECK
13	3102	4	BRAKE PAD WELDMENT
14	HDW6281	4	LOCK NUT 3/8-16
15	3104	2	BRAKE ADJUSTMENT BOLT
16	HDW5216	2	FLAT WASHER 1/2 BOLT
17	HDW8457	2	NTLOCTOP00.500 13Z BN
18	3166	1	REAR AXLE WELDMENT
19	7952	1	BRAKE RELEASE SPRING
20	3114	2	BRAKE ACTUATING CAM
21	HDW6729	2	EXPANSION PIN
22	HDW5901	2	CAM THRUST WASHER
23	3186	2	BRAKE ROD RIGHT HAND SIDE
24	5941	2	BRAKE SPRING
25	HDW5710	2	CLEVIS PIN 1/2 X 1-1/4
26	2483	1	BRAKE CYLINDER ASSEMBLY
27	HDW7044	1	DRIFICE FITTING .046
28	HDW5920	2	COTTER PIN 1/8 X 1
29	HDW5052	1	BAYONET FITTING 1/4"
30	HDW6808	1	HAIR PIN 3/8 SHAFT
31	HDW5921	1	CLEVIS PIN 1/2 X 1-1/2
32	3648	1	BEARING BRAKE ACTUATOR
33	5866	2	BEARING BRAKE ROD
34	3103	1	BRAKE ACTUATOR
35	3187	1	BRAKE ROD LEFT HAND SIDE
36	3216	1	BRAKE RELEASE LATCH
37	HDW6729	1	EXPANSION PIN
38	6733	1	RING

FIG. 6-3 48" Standard Rear Axle Assembly

ART-227R0
BM13837
06/27/97



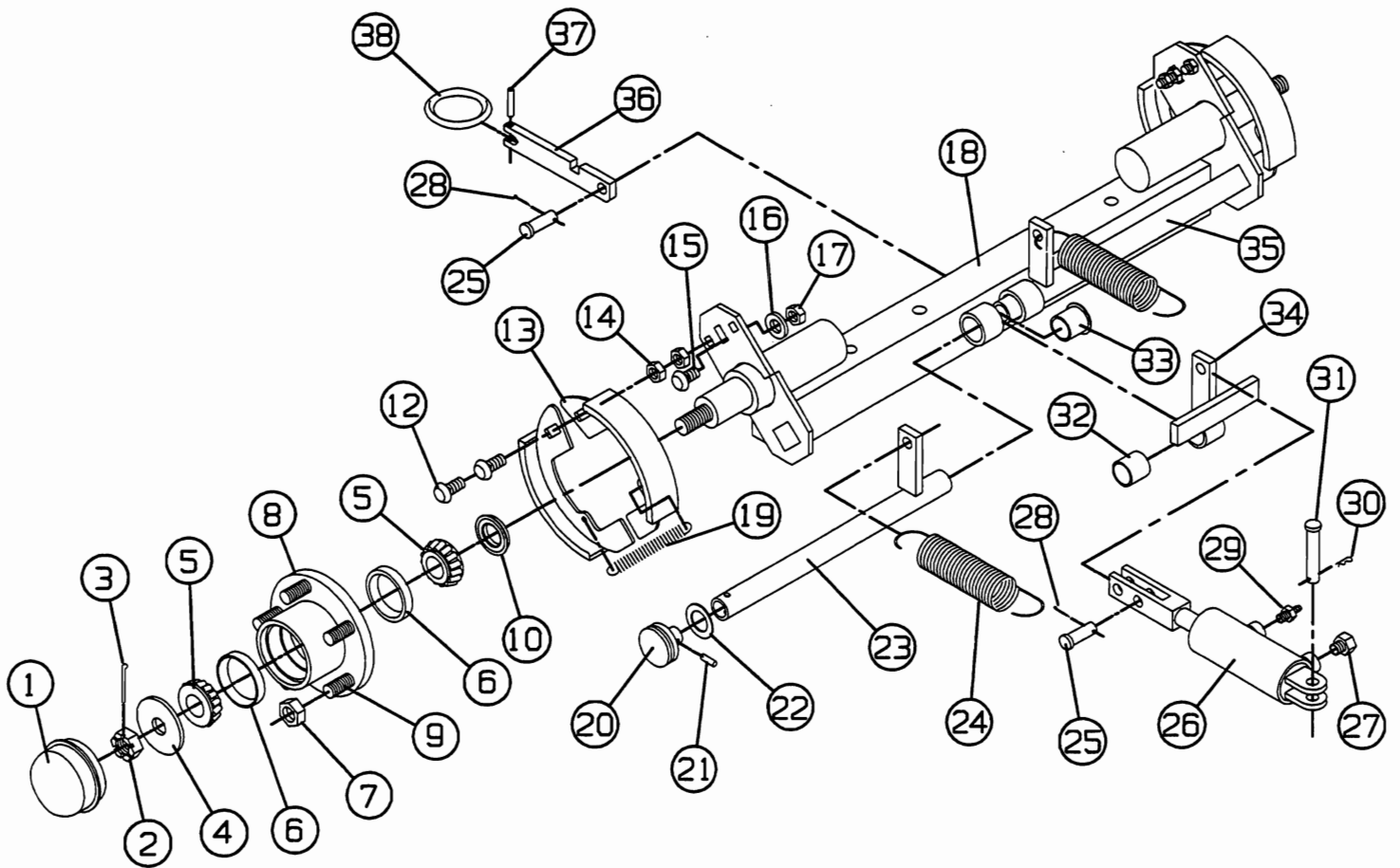
ART-229R0
 BM13838
 06/27/97

FIG. 6-4 48" Foam Filled Tire Option Rear Axle Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	7936	2	HUB ASSEMBLY
2	HDW8039	2	CASTLE NUT
3	HDW5787	2	COTTER PIN
4	HDW3799	2	THRUST WASHER OUTER
5	6750	4	BRAKE BOLT 3/8-16 X 3/4
6	3102	4	BRAKE PAD WELDMENT
7	HDW6281	4	NUT SELF LOCKING 3/8-16
8	3104	2	BRAKE ADJUSTMENT BOLT
9	HDW5216	2	FLAT WASHER 1/2"
10	HDW8457	2	NTLOCTOPO.500 13Z BN
11	7952	2	BRAKE RELEASE SPRING
12	3114	2	BRAKE ACTUATING CAM
13	HDW6729	3	EXPANSION PIN
14	HDW5901	2	CAM THRUST WASHER
15	3186	1	BRAKE ROD RIGHT HAND SIDE
16	5941	2	BRAKE SPRING
17	HDW5710	2	CLEVIS PIN 1/2 X 1-1/4
18	HDW5920	1	COTTER PIN 1/8 X 1
19	2483	1	BRAKE CYLINDER ASSEMBLY
20	HDW7044	1	ORIFICE FITTING .046
21	HDW5052	1	BAYONET FITTING
22	HDW6808	1	HAIRPIN 3/8 SHAFT
23	HDW5921	1	CLEVIS PIN 1/2 X 1-1/2
24	3103	1	BRAKE ACTUATOR
25	3648	1	ACTUATOR BEARING
26	5866	2	BRAKE ROD BEARING
27	3187	1	BRAKE ROD LEFT HAND SIDE
28	3832	1	REAR AXLE WELDMENT
29	3216	1	BRAKE RELEASE LATCH
30	6733	1	RING

ART-229R0
BM13838
06/27/97

FIG. 6-4 48" Foam Filled Tire Option Rear Axle Assembly



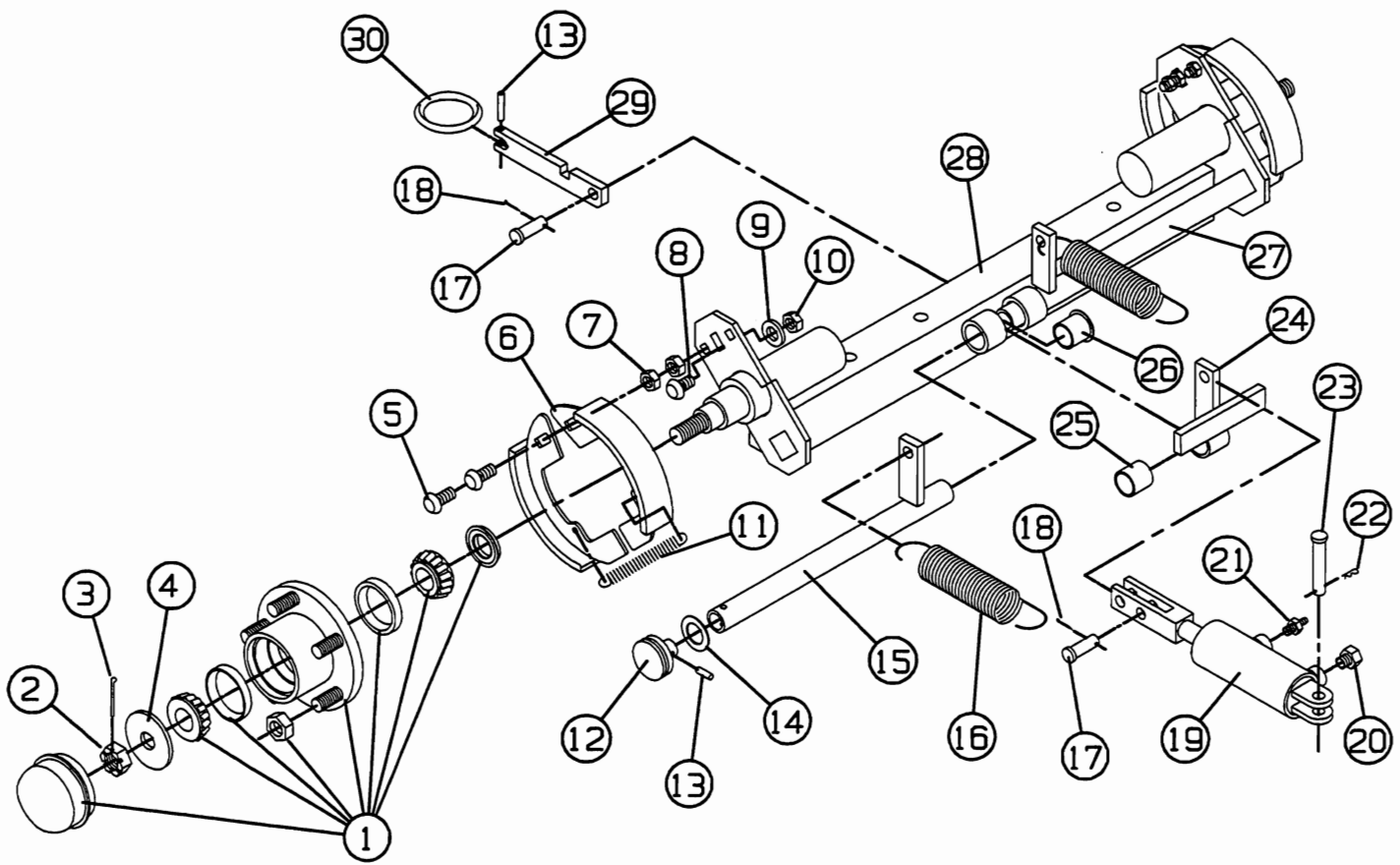
ART-228R0
 BM13839
 06/27/97

FIG. 6-5 58" Standard Rear Axle Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	7950	2	DUST CAP
2	HDW8039	2	CASTLE NUT
3	HDW5738	2	COTTER PIN
4	HDW3801	2	THRUST WASHER OUTER
5	7714	2	TAPERED ROLLER BEARING
6	7716	2	BEARING RACE
7	HDW6677	2	LUG NUT
8	3792	2	HUB - LUG BOLTS 3/8-16X3/4 CAR LONG NECK
9	HDW6676	2	LUG BOLT 1/2-20
10	7954	2	GREASE SEAL INNER
12	HDW6750	4	BRAKE BOLT 3/8-16X3/4 CAR LONG NECK
13	3102	4	BRAKE PAD WELDMENT
14	HDW6281	4	LOCK NUT 3/8-16
15	3104	2	BRAKE ADJUSTMENT BOLT
16	HDW5216	2	FLAT WASHER 1/2 BOLT
17	HDW8457	2	NTLOCTOP00.500 13Z BN
18	3167	1	REAR AXLE WELDMENT
19	7952	1	BRAKE RELEASE SPRING
20	3114	2	BRAKE ACTUATING CAM
21	HDW6729	2	EXPANSION PIN
22	HDW5901	2	CAM THRUST WASHER
23	3097	2	BRAKE ROD RIGHT HAND SIDE
24	5941	2	BRAKE SPRING
25	HDW5710	2	CLEVIS PIN 1/2 X 1-1/4
26	2483	1	BRAKE CYLINDER ASSEMBLY
27	HDW7044	1	ORIFICE FITTING .046
28	HDW5920	2	COTTER PIN 1/8 X 1
29	HDW5052	1	BAYONET FITTING 1/4"
30	HDW6808	1	HAIR PIN 3/8 SHAFT
31	HDW5921	1	CLEVIS PIN 1/2 X 1-1/2
32	3648	1	BEARING BRAKE ACTUATOR
33	5866	2	BEARING BRAKE ROD
34	3103	1	BRAKE ACTUATOR
35	3142	1	BRAKE ROD LEFT HAND SIDE
36	3216	1	BRAKE RELEASE LATCH
37	HDW6729	1	EXPANSION PIN
38	6733	1	RING

ART-228R0
BM13839
06/27/97

FIG. 6-5 58" Standard Rear Axle Assembly



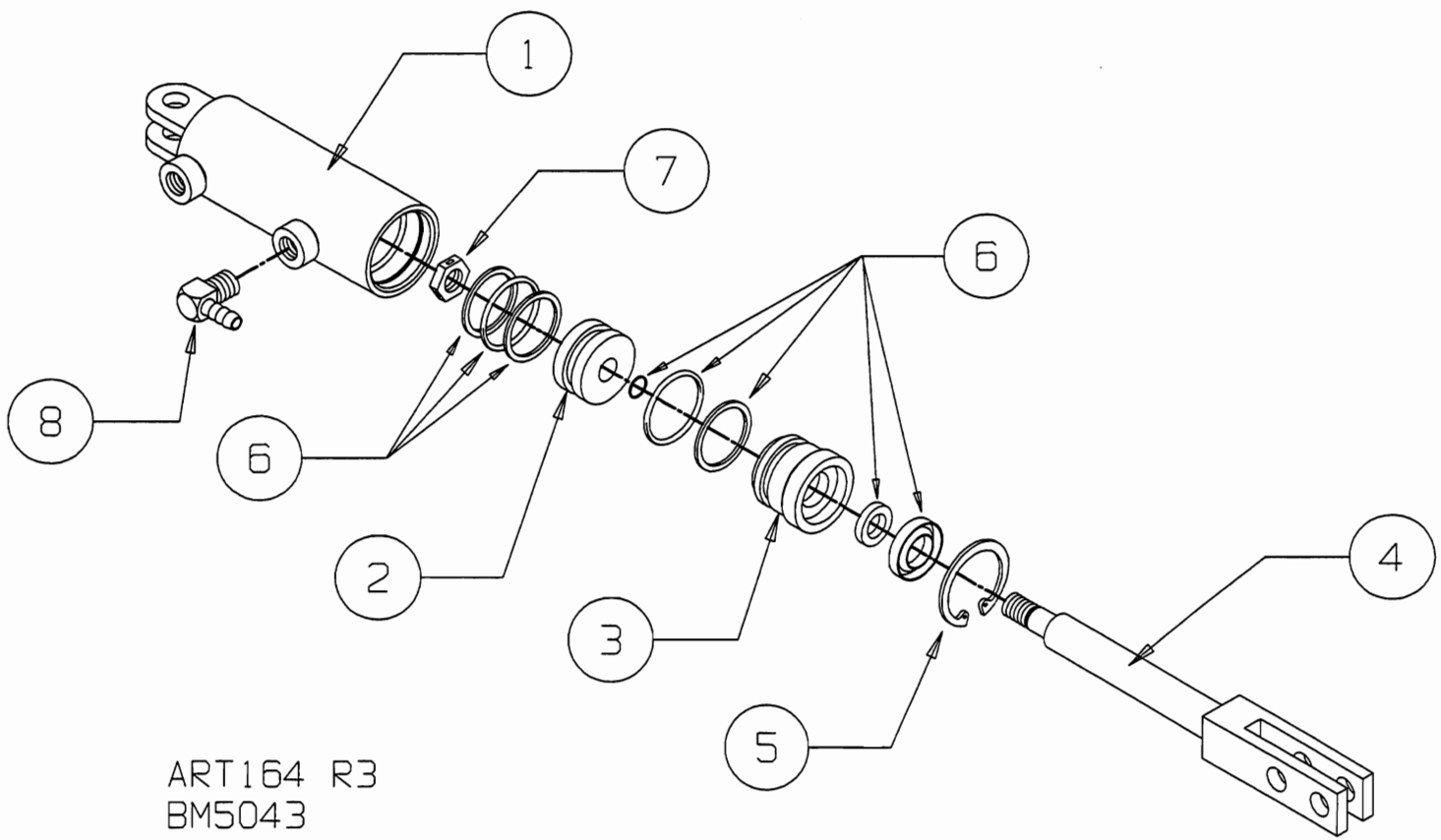
ART756R0
 BM16541
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FIG. 6-6 58" Dual Fuel Rear Axle Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	7936	2	HUB ASSEMBLY
2	HDW8039	2	CASTLE NUT
3	HDW5787	2	COTTER PIN
4	HDW3799	2	THRUST WASHER OUTER
5	6750	4	BRAKE BOLT 3/8-16 X 3/4
6	3102	4	BRAKE PAD WELDMENT
7	HDW6281	4	NUT SELF LOCKING 3/8-16
8	3104	2	BRAKE ADJUSTMENT BOLT
9	HDW5216	2	FLAT WASHER 1/2"
10	HDW8457	2	NTLOCTOPO.500 13Z BN
11	7952	2	BRAKE RELEASE SPRING
12	3114	2	BRAKE ACTUATING CAM
13	HDW6729	3	EXPANSION PIN
14	HDW5901	2	CAM THRUST WASHER
15	3097	1	BRAKE ROD RIGHT HAND SIDE
16	5941	2	BRAKE SPRING
17	HDW5710	2	CLEVIS PIN 1/2 X 1-1/4
18	HDW5920	1	COTTER PIN 1/8 X 1
19	2483	1	BRAKE CYLINDER ASSEMBLY
20	HDW7044	1	ORIFICE FITTING .046
21	HDW5052	1	BAYONET FITTING
22	HDW6808	1	HAIRPIN 3/8 SHAFT
23	HDW5921	1	CLEVIS PIN 1/2 X 1-1/2
24	3103	1	BRAKE ACTUATOR
25	3648	1	ACTUATOR BEARING
26	5866	2	BRAKE ROD BEARING
27	3142	1	BRAKE ROD LEFT HAND SIDE
28	3796	1	REAR AXLE WELDMENT DUAL FUEL
29	3216	1	BRAKE RELEASE LATCH
30	6733	1	RING

ART756R0
BM16541
05/14/98

FIG. 6-6 58" Dual Fuel Rear Axle Assembly



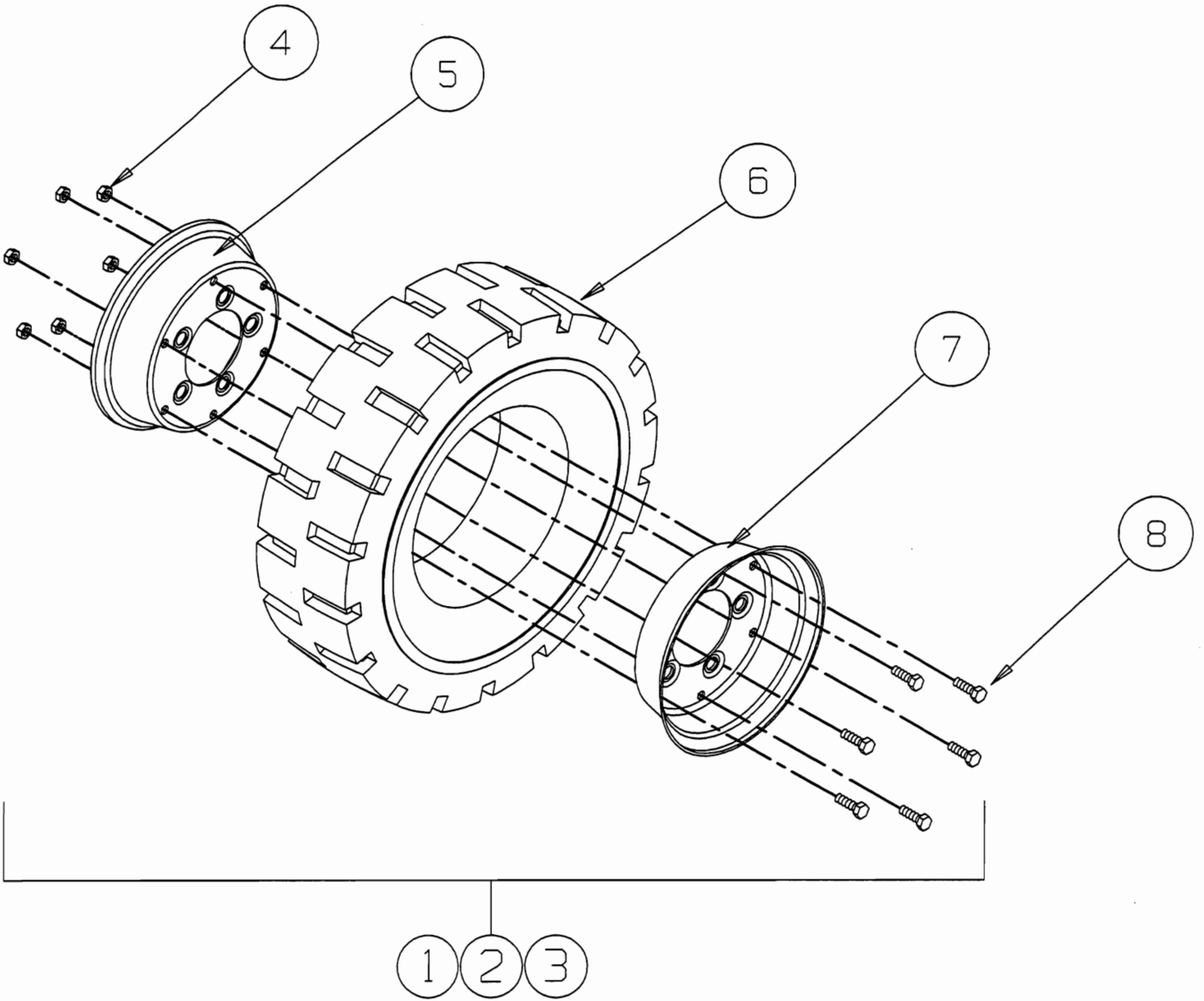
ART164 R3
 BM5043
 07/07/97

FIG. 6-7 Brake Cylinder Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
	2483	1	BRAKE CYLINDER ASSEMBLY
1	2485	1	CYLINDER, BRAKE
2	2494	1	PISTON
3	2493	1	HEAD
4	2504	1	ROD, BRAKE CYLINDER, W/BEARING
5	6337	1	RING, RETAINING, INTERNAL
6	5947	1	SEAL KIT
7	HDW6338	1	NUT, HEX LOCK, 2-WAY, 1/2-20, GRADE B
8	HDW6727	1	ELBOW, 90 DEG. BAYONET, 5/16

ART164 R3
BM5043
07/07/97

FIG. 6-7 Brake Cylinder Assembly



ART-173R0
BM13417
06/27/97

FIG. 6-8 Tire Assemblies

ITEM	PART NO.	QTY.	DESCRIPTION
1	3727	SERV	STANDARD TIRE & WHEEL ASSEMBLY SOLID RUBBER
2	3728	SERV	NON-MARKING TIRE & WHEEL ASSEMBLY SOLID RUBBER
3	3925	SERV	TIRE & WHEEL ASSEMBLY FOAM FILLED (NO RIM)
4	HDW8265	5	NUTS 3/8"-24
	HDW7783	5	LOCK WASHER 3/8"
5	4948	1	RIM, OUTER
6	7707	1	TIRE SOLID RUBBER 18 X 5 X 8 STANDARD
	7708	1	TIRE NON-MARKING 18 X 5 X 8
7	4950	1	RIM, INNER - REAR
8	HDW7781	5	BOLTS 3/8"-24 X 3/4" LONG GRADE 5

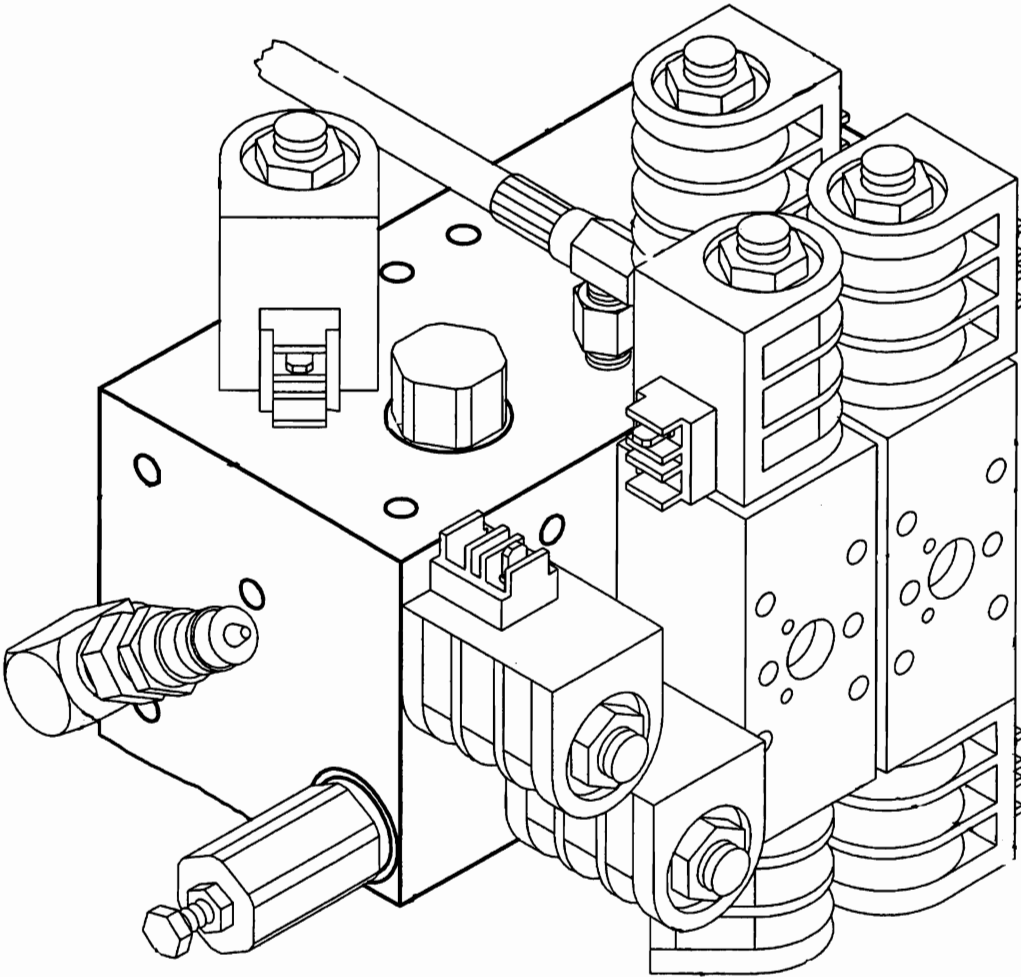
ART-173RO
BM13417
06/27/97

FIG. 6-8 Tire Assemblies

NOTES:

HITE-MASTER

HYDRAULICS



NOTES:

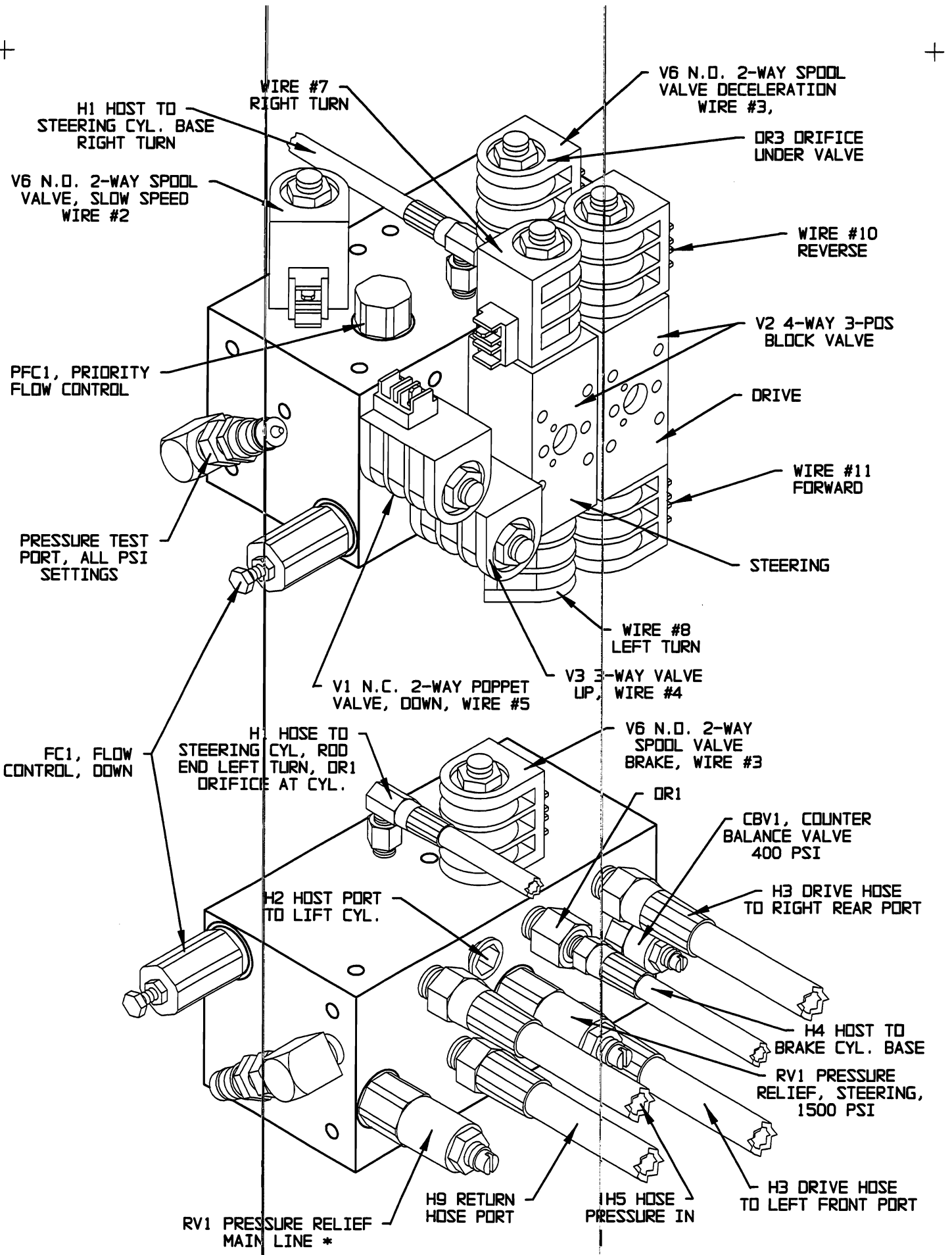


FIG. 7-1 Standard Manifold Assembly

ART-180
SCALE 1/2.5

**SYMBOL IDENTIFICATION FOR MANIFOLD
HITEMASTER STANDARD 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 Weldment
	Service	2493	Cylinder Head
	Service	2494	Piston
	Service	2837	Cylinder Rod
	Service	6337	Internal Retaining Ring
	Service	6338	Nut ½ - 20 Lock
	Service	5947	Seal Kit
	C3	1	2483
Service		2485	Cylinder Weldment
Service		2493	Cylinder Head
Service		2494	Piston
Service		2504	Cylinder Rod
Service		6337	Internal Retaining Ring
Service		6338	Nut ½ - 20 Lock
Service		5947	Seal Kit
CBV1		1	6712
	Service	6806	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	2	6721	Drive Hose
H4	1	6722	Brake Hose
H5	1	6723	Hose Pump to Manifold
H9	1	6225	Return Hose
H10	1	6798	Crossover Hose
H11	5	6458	Return Line
H12	1	6869	Hose Tank to Filter
M1	1	6661	36v Motor
M5	2	6660P	Drive Motor
	Service	6814	Seal Kit
MA3	1	3239	Primary Manifold
O1	1	6107	Orifice Fitting Assembly
O3	1	2975	Orifice Fitting (brass)
P1	1	6662	Pump
PFC1	1	5954	Priority Flow Control 1.0 GPM (standard)
	Option	6189	Priority Flow Control .5 GPM (special)
	Service	5475	O-Ring Kit
RV1	2	6316	Relief Valve
	Service	5475	O-Ring Kit
V1	2	6973	2-Way N.C. Valve
	@	6803	36v Coil
	Service	5475	O-Ring Kit
V2	2	7976	4-Way 3 Position Valve
	@	6803	36v Coil
	Service	6161	Spring and O-Ring Kit

FIG. 7-1 Standard Manifold Assembly

**SYMBOL IDENTIFICATION FOR MANIFOLD
HITEMASTER STANDARD SERIES**

Symbol	Quantity	Part Number	Description
V3	1	6976	3-Way 2 Position Valve
V5	1	5435	Manual Pull Valve
	@	6803	36v Coil
	Service	5475	O-Ring Kit
V6	3	6975	2-Way N.O. Valve
	@	6803	36v Coil
	Service	5475	O-Ring Kit

@ = 10 Coils Total

** Refer To Hydraulic Schematic For Relief Valve Settings

FIG. 7-1 Standard Manifold Assembly

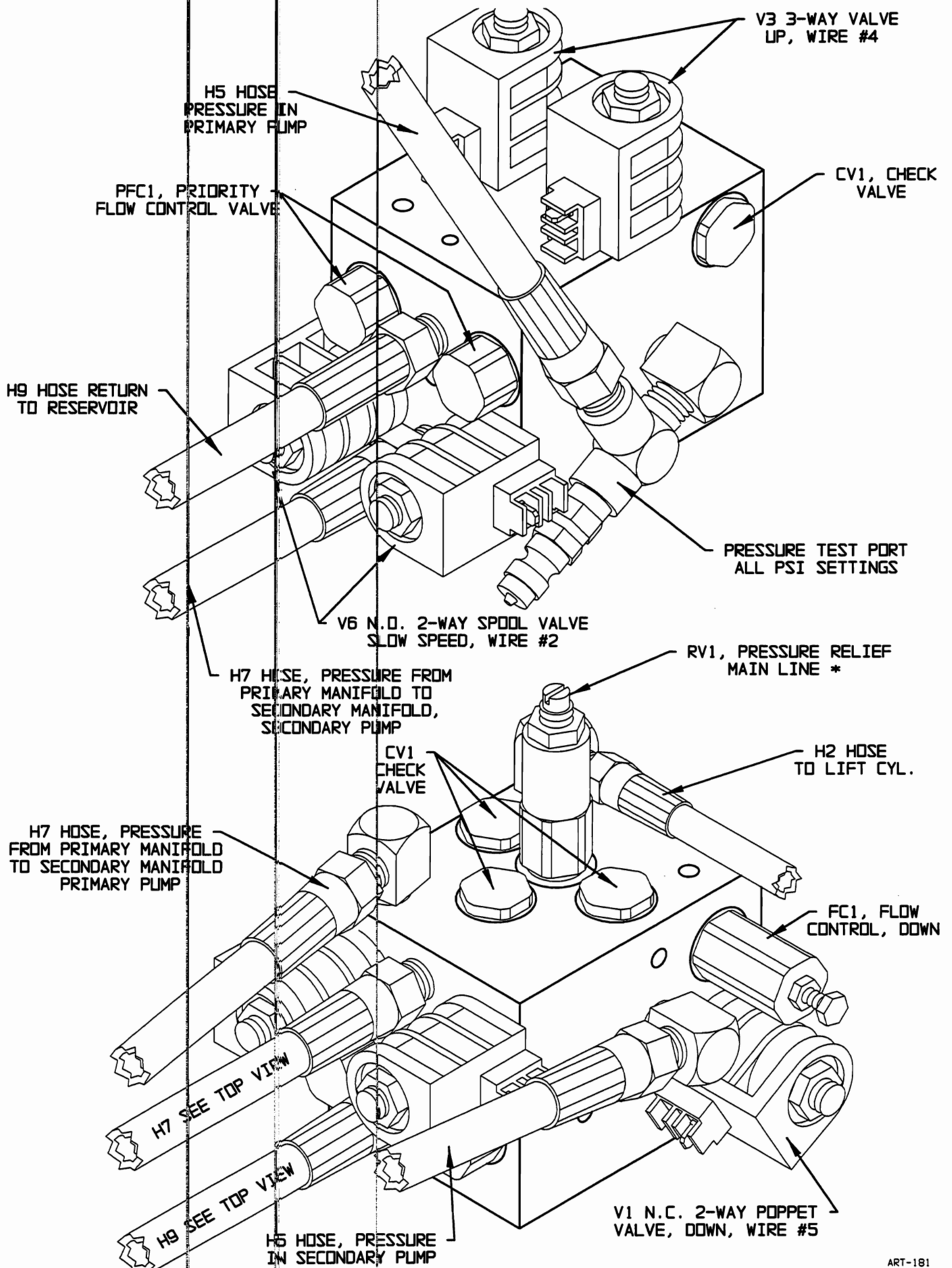


FIG. 7-2 High Torque Primary Manifold Assembly

ART-181
SCALE 1/2+

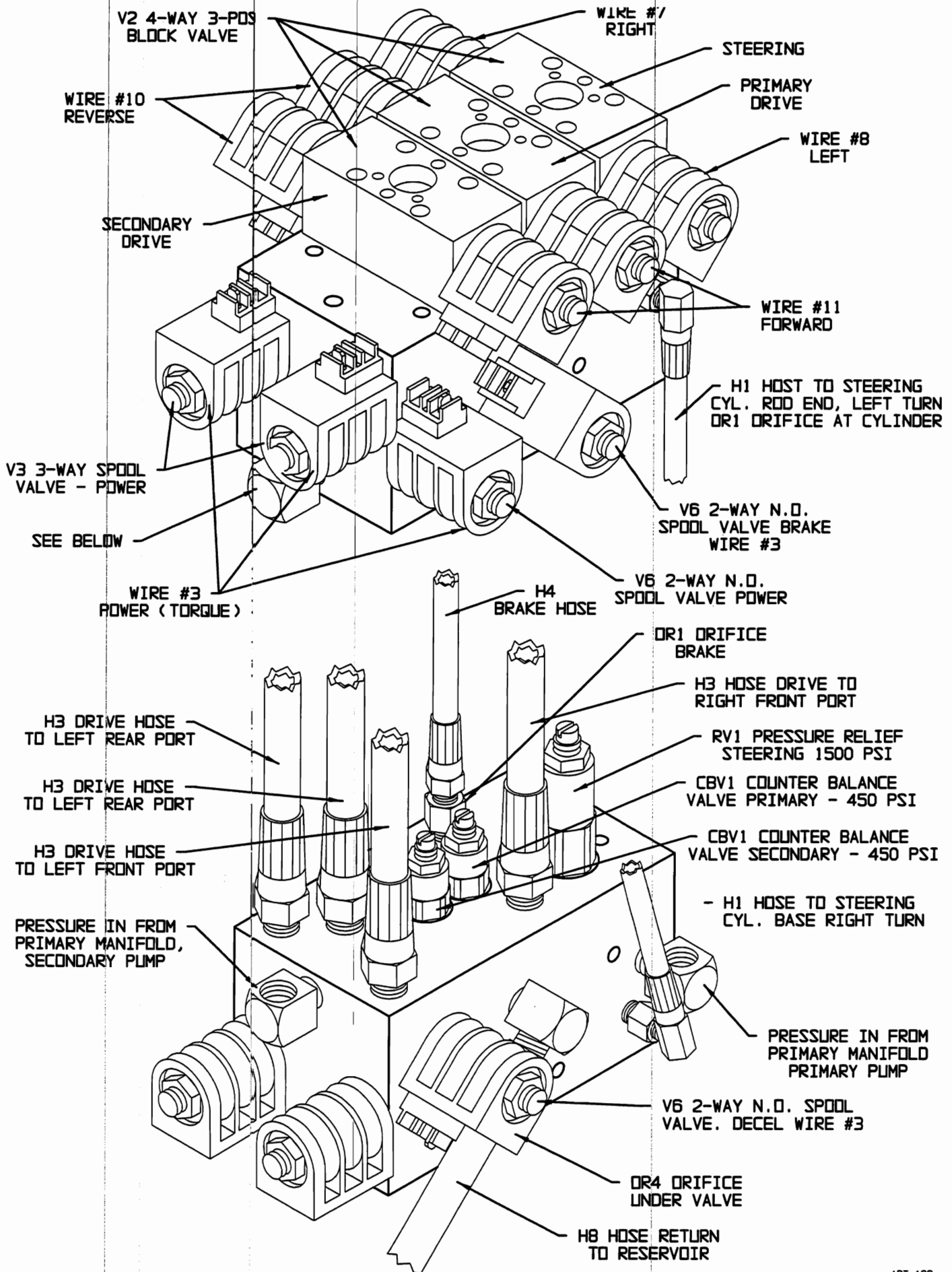


FIG. 7-3 High Torque Secondary Manifold Assembly

ART-182
SCALE .4

**SYMBOL IDENTIFICATION FOR MANIFOLD
HITEMASTER HIGH TORQUE 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 Weldment
	Service	2493	Cylinder Head
	Service	2494	Piston
	Service	2837	Cylinder Rod
	Service	6337	Internal Retaining Ring
	Service	6338	Nut ½ - 20 Lock
	Service	5947	Seal Kit
	C3	1	2483
Service		2485	Cylinder Weldment
Service		2493	Cylinder Head
Service		2494	Piston
Service		2504	Cylinder Rod
Service		6337	Internal Retaining Ring
Service		6338	Nut ½ - 20 Lock
Service		5947	Seal Kit
CBV1		2	6712
	Service	6806	O-Ring Kit
CV1	4	5434	Check Valve
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 Manifold
H9	1	6225	Return Hose
H8	2	5995	Hose Filter to Pump
H11	5	6458	Return Line
H12	1	6869	Hose Tank to Filter
M1	2	6661	36v Motor
M5	2	6660P	Drive Motor
	Service	6814	Seal Kit
MA1	1	3595	Primary Manifold
MA4	1	3480	Secondary Manifold
O1	1	6107	Orifice Fitting Assembly
O4	1	2975	Orifice Fitting (brass)
P1	2	6662	Pump
PFC1	2	5954	Priority Flow Control 1.0 GPM (standard)
	Option	6189	Priority Flow Control .5 GPM (special)
	Service	5475	O-Ring Kit
RV1	2	6316	Relief Valve
	Service	5475	O-Ring Kit
V1	2	6973	2-Way N.C. Valve
	@	6803	36v Coil
	Service	5475	O-Ring Kit

Primary & Secondary Manifold Assembly

**SYMBOL IDENTIFICATION FOR MANIFOLD
HITEMASTER HIGH TORQUE**

Symbol	Quantity	Part Number	Description
V ₂	3	7976	4-Way 3 Position Valve
	@	6803	36v Coil
	Service	6161	Spring and O-Ring Kit
V ₃	4	6976	3-Way 2 Position Valve
V ₅	1	5435	Manual Pull Valve
	@	6803	36v Coil
	Service	5475	O-Ring Kit
V ₆	5	6975	2-Way N.O. Valve
	@	6803	36v Coil
	Service	5475	O-Ring Kit

@ = 17 Coils Total

** Refer To Hydraulic Schematic For Relief Valve Settings

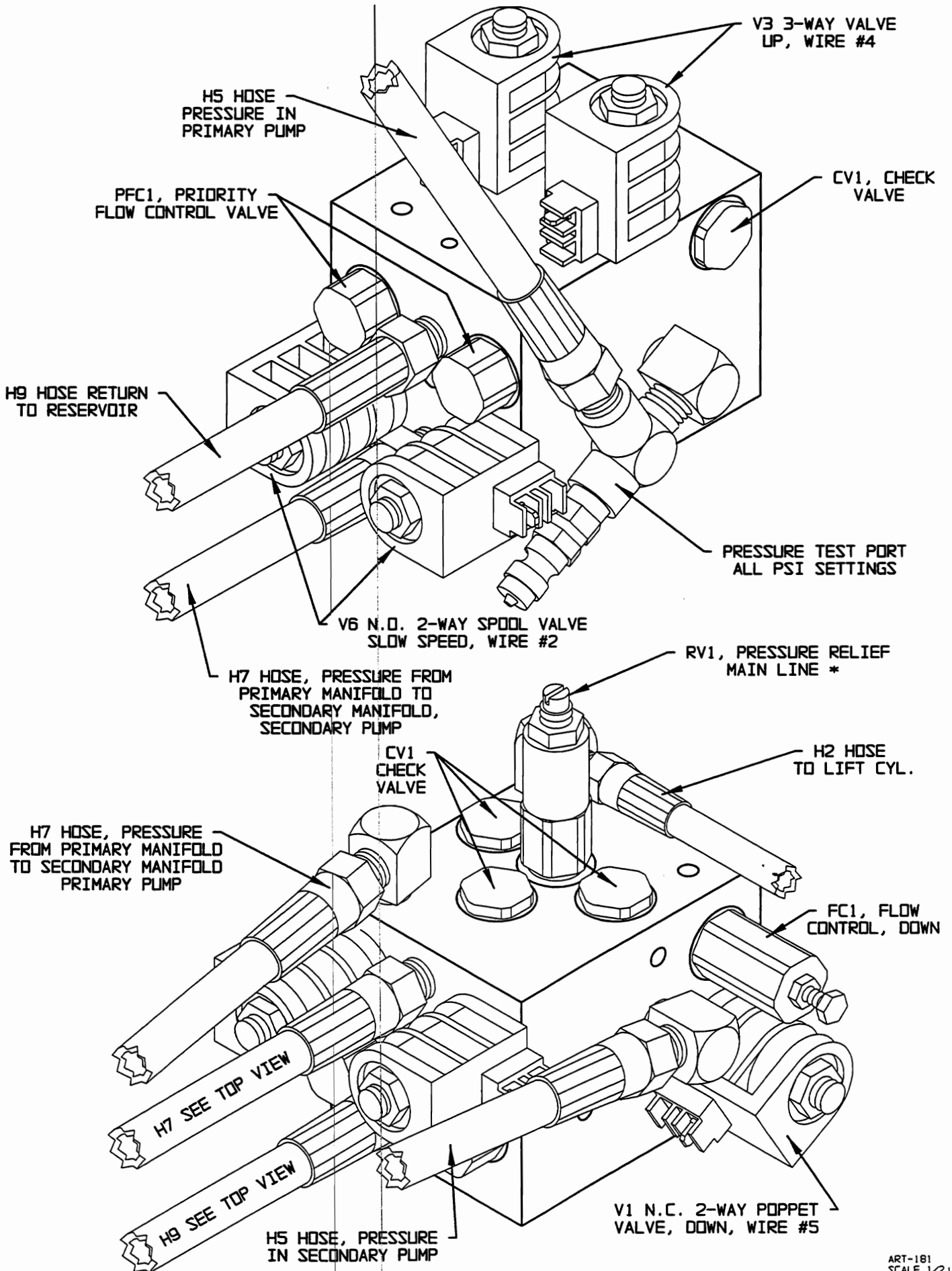


FIG. 7-4 Dual Fuel Primary Manifold Assembly

ART-181
SCALE 1/2

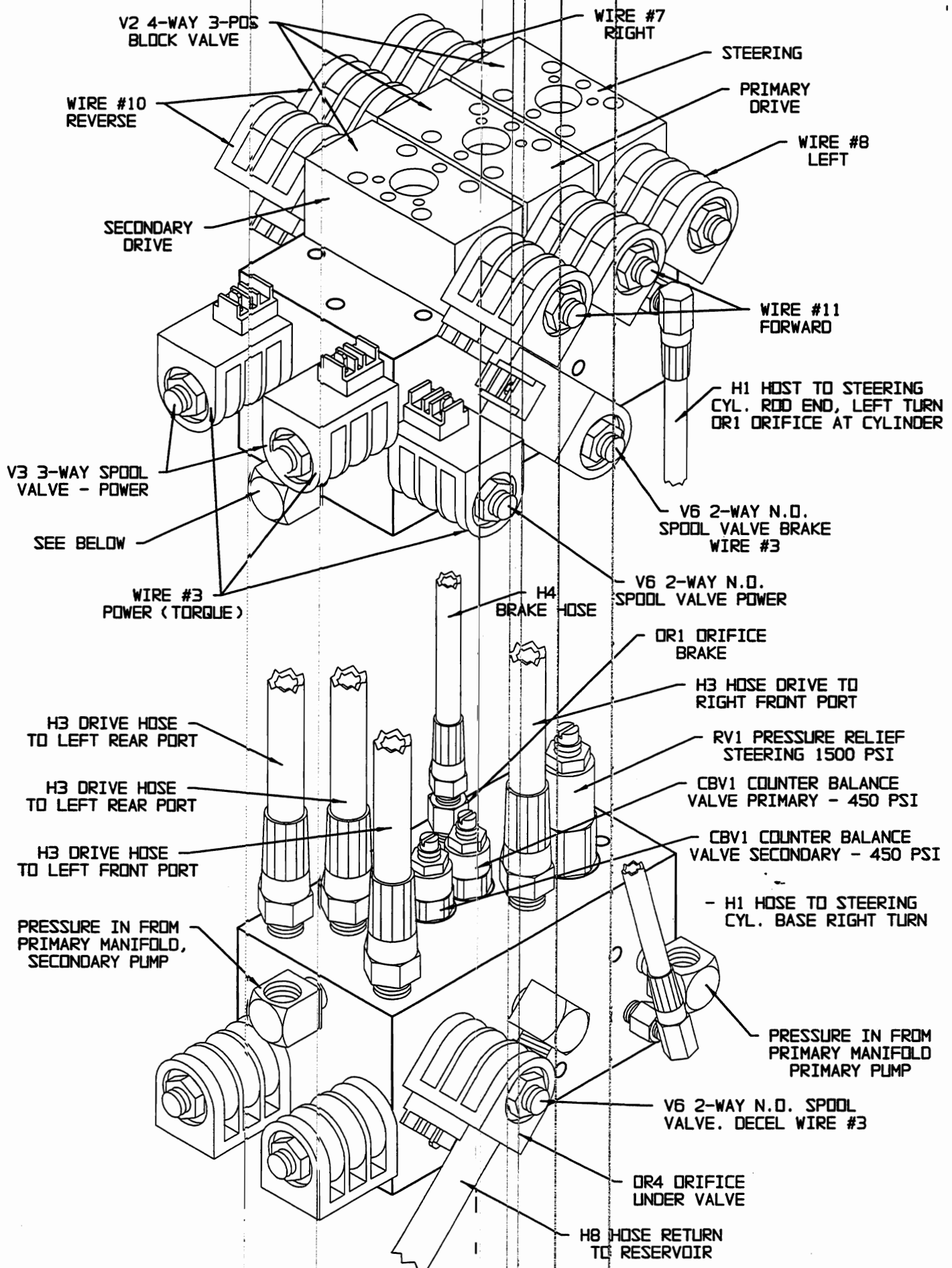


FIG. 7-5 Dual Fuel Secondary Manifold Assembly

ART-182
SCALE 4

**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
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
	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

Dual Fuel Primary & Secondary Manifold

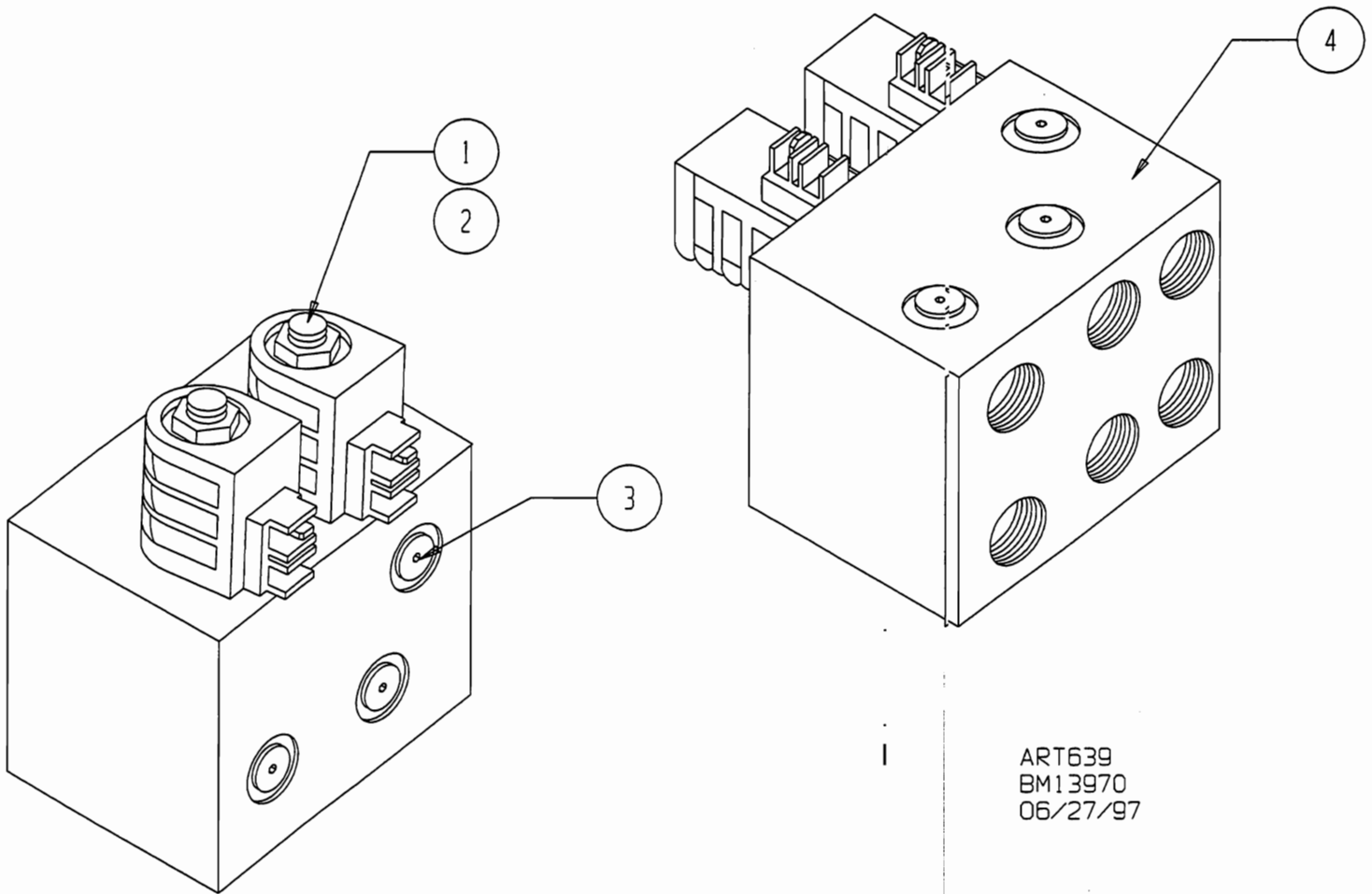
**SYMBOL IDENTIFICATION FOR MANIFOLD
HITEMASTER DUAL FUEL SERIES**

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:



ART639
BM13970
06/27/97

FIG. 7-6 Dual Fuel Bypass Manifold Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW5808	1	PFUNION MD.37NPT FO.37NPT SN
2	HDW5472	6	PFELB90 MD,37NPTFFO.37NPTFSZY
3	6803 7151	2	COIL ASSY, 36 VOLT SINGLE SPADE VALVE 2-WAY N.C. SPOOL
4	6721	4	DRIVE HOSE ASSY.
5	3609	1	MANIFOLD

ART637
BM13952
06/27/97

FIG. 7-6 Dual Fuel Bypass Manifold Assembly

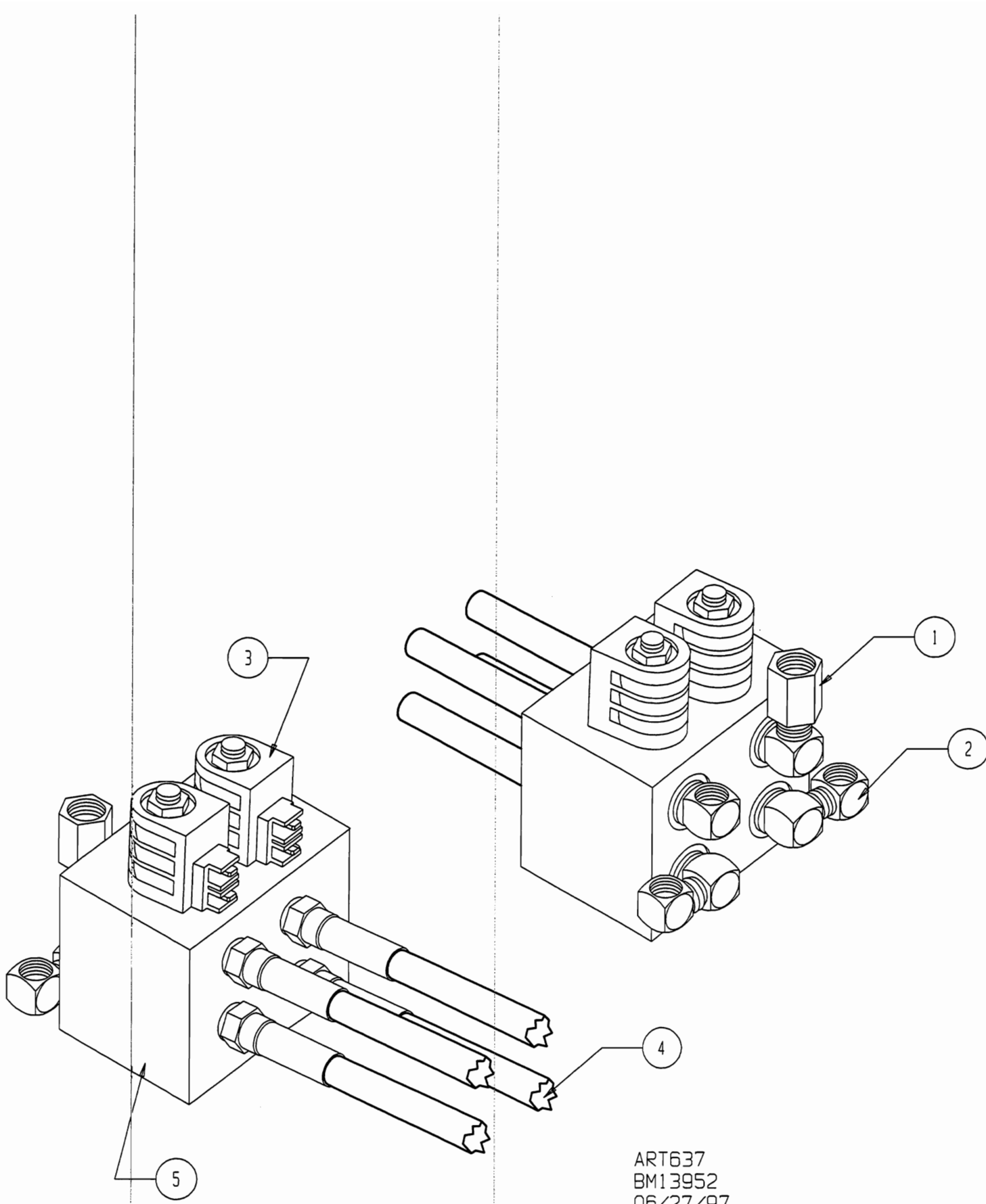


FIG. 7-7 Dual Fuel & Foam Filled Tire Option Crossover Manifold Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	6975	2	VALVE N.O. SPOOL 2 WAY
2	6870	2	COIL 12V 1 SPADE ASY W/DIODE
3	7314	3	PFPLUG MM 430 RNG
4	4336	1	MANIFOLD DOUBLE BYPASS

ART639
BM13970
06/27/97

FIG. 7-7 Dual Fuel & Foam Filled Tire Option Crossover Manifold Assembly

**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.

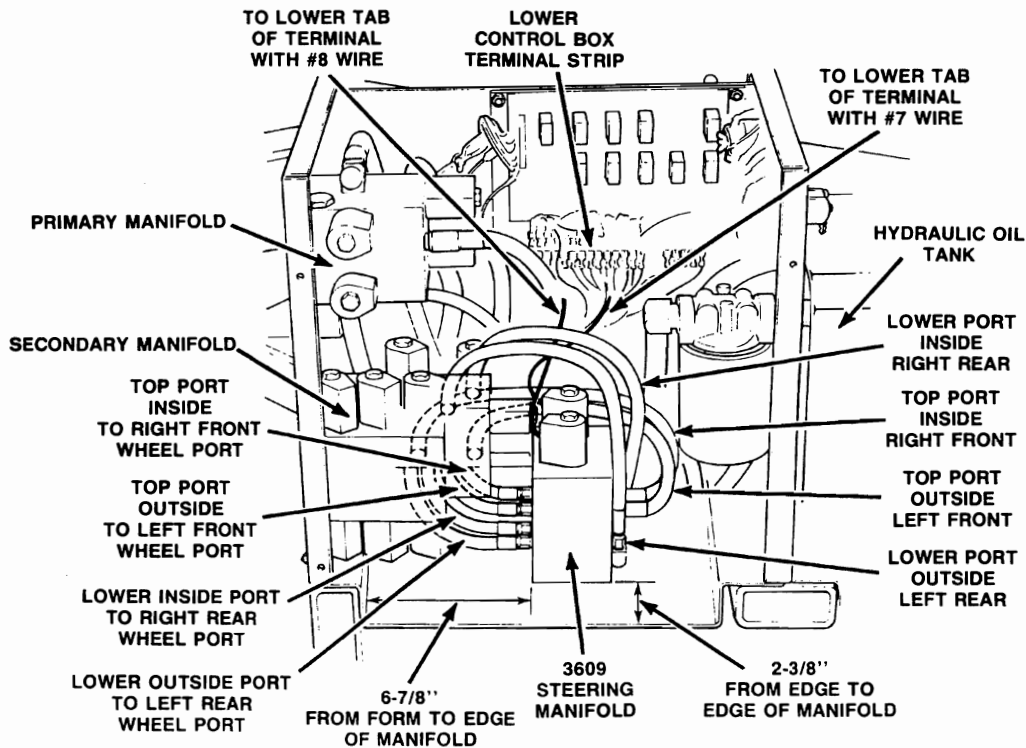
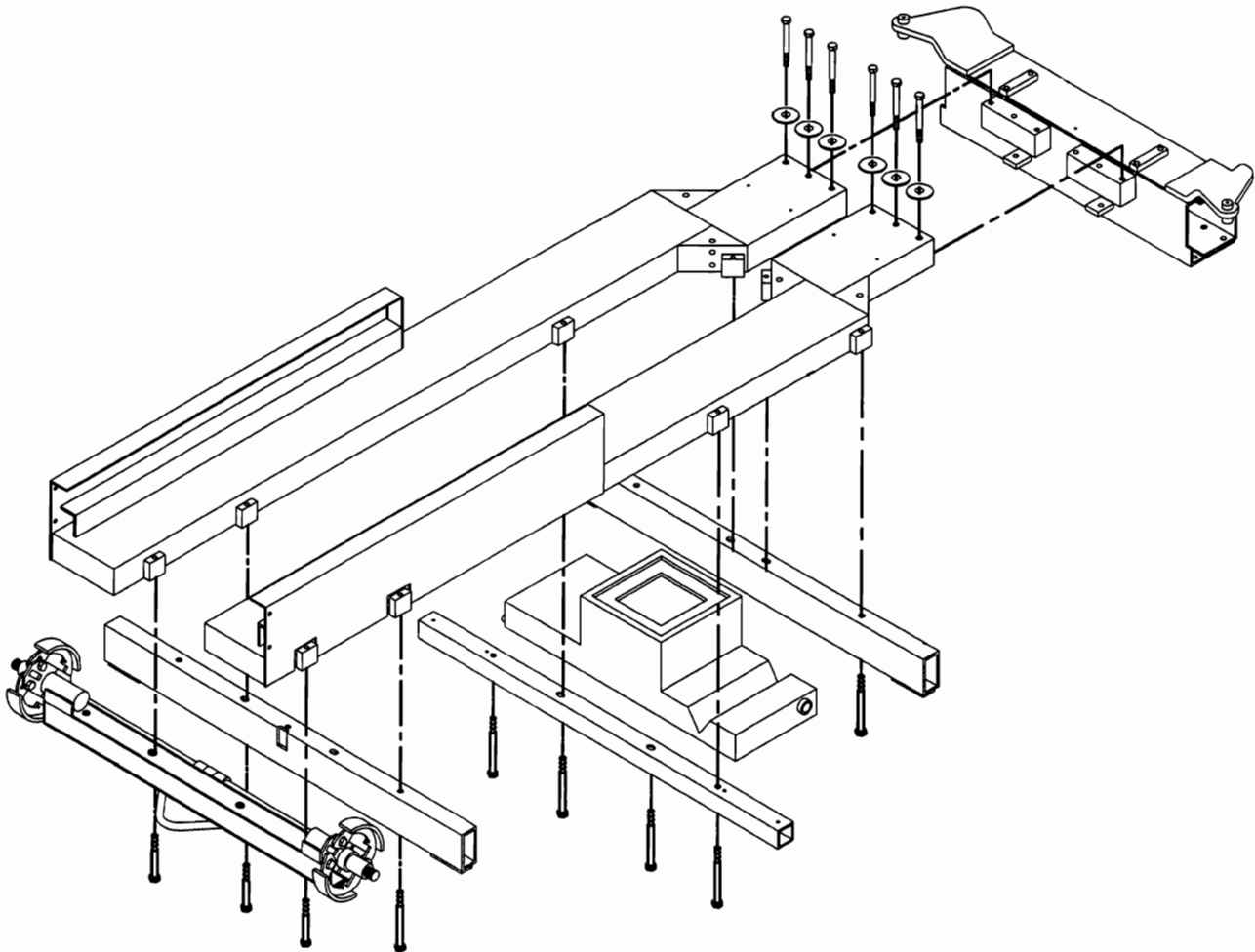


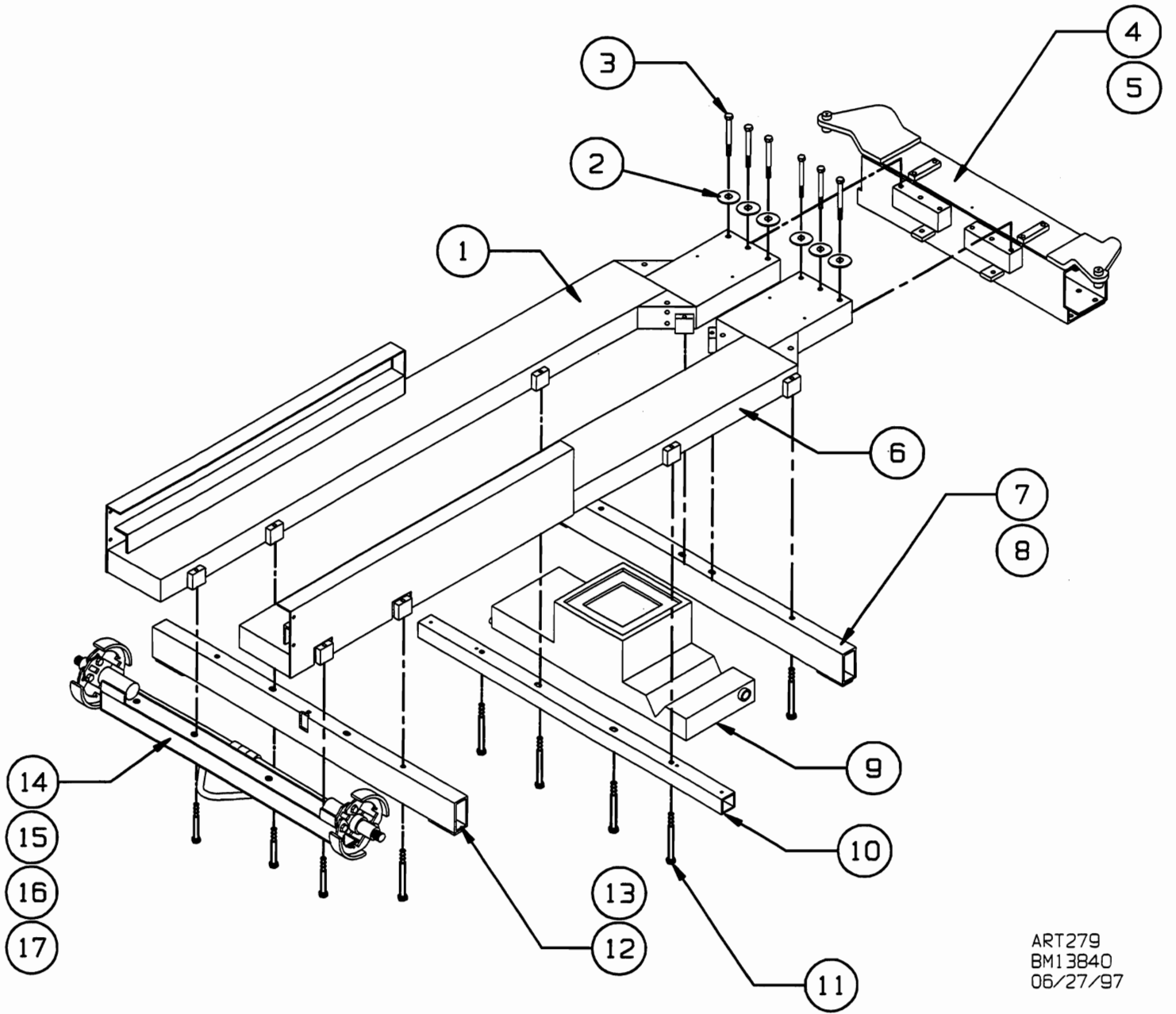
FIG. 7-8 Crossover Manifold Installation

HITE-MASTER

BASE



NOTES:



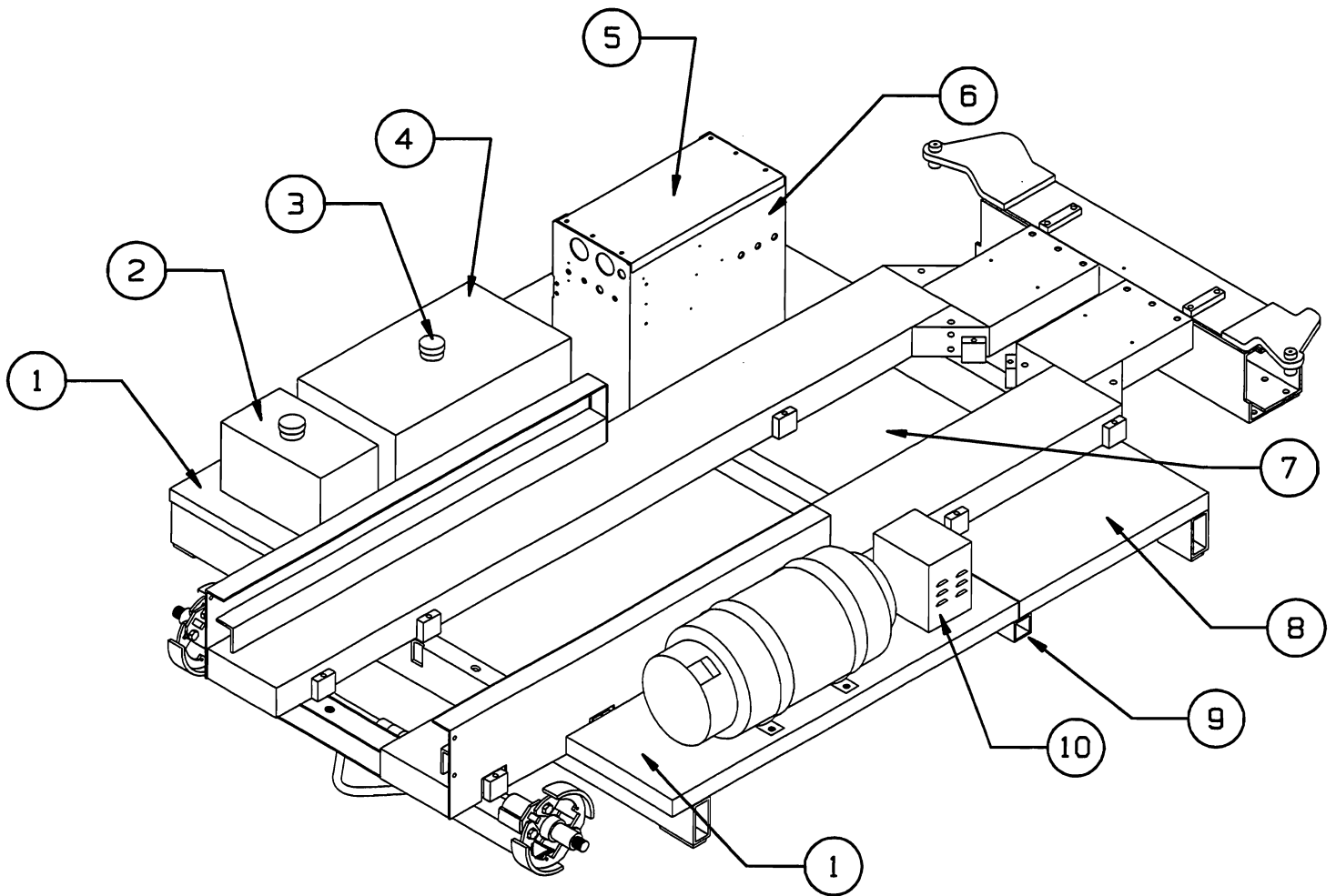
ART279
 BM13840
 06/27/97

FIG. 8-1 48''/58'' Base Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3138	1	BASE WELDMENT L.H.
2	5012	12	WRSPLITLO.5150.8590.125STZYN
3	7990	12	BTCAPHEX .500 131.25Y 8N
4	3140	1	FRONT AXLE WELDMENT 48"
5	3141	1	FRONT AXLE WELDMENT 58"
6	3139	1	BASE WELDMENT R.H.
7	3206	1	BOX SUPPORT WELDMENT 48"
8	3207	1	BOX SUPPORT WELDMENT WIDE 58"
9	20061	1	HITE - RESERVOIR WELDMENT
10	3123	1	BATTERY SUPPORT - FRONT
11	5202	16	BTCAPHEX .500 131.25Y 8N
12	3204	1	REAR BATTERY SUPPORT WELDMENT 48"
13	3205	1	REAR BATTERY SUPPORT WIDE 58"
14	3166	1	REAR AXLE - NARROW 48"
15	3167	1	REAR AXLE - WIDE 58"
16	3796	4	REAR AXLE WLDMNT WIDE DF 58"
17	3832	4	REAR AXLE 48" HM FF TR

ART279
BM13840
06/27/97

FIG. 8-1 48"/58" Base Assembly



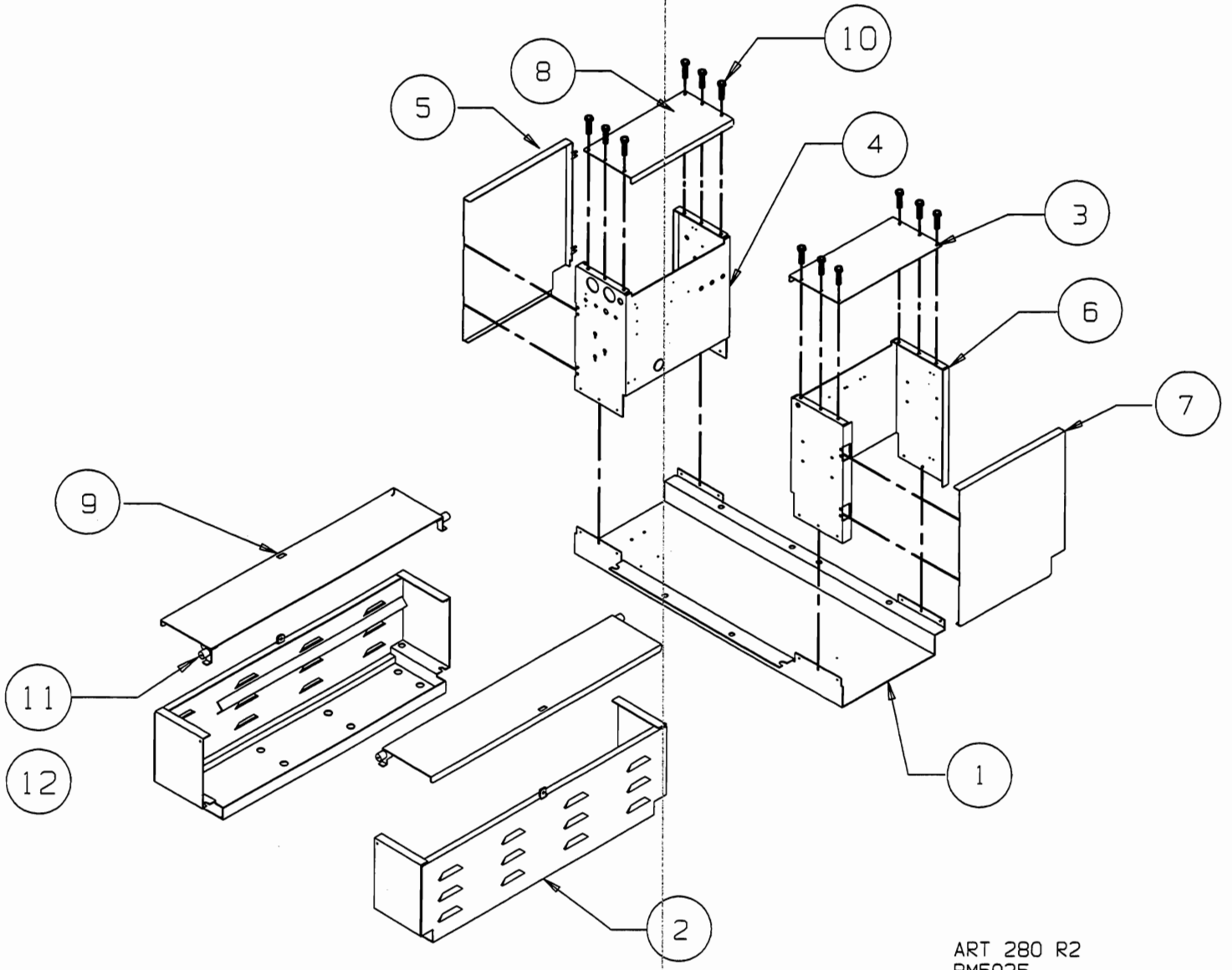
ART644
 BM14007
 06/27/97

FIG. 8-2 Dual Fuel Base Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3414	2	TANK AND BATTERY TRAY
2	3419	1	GAS TANK
3	6978	2	CAP-GAS & HYD. OIL TANKS
4	6856	1	RESERVOIR
5	3820	1	COVER TOP VALVE HOUSING, D.F.
6	3821	1	VALVE HOUSING HM D.F.
	3824	1	DOOR WELDMENT HM D.F.
7	3392	1	HOSE CROSS-OVER TRAY
8	3404	1	ENGINE MOUNTING TRAY
9	3402	1	ENGINE & COMPONENT SUP'T
10	3431	1	BATTERY BOX WELDMENT

ART644
BM14007
06/27/97

FIG. 8-2 Dual Fuel Base Assembly



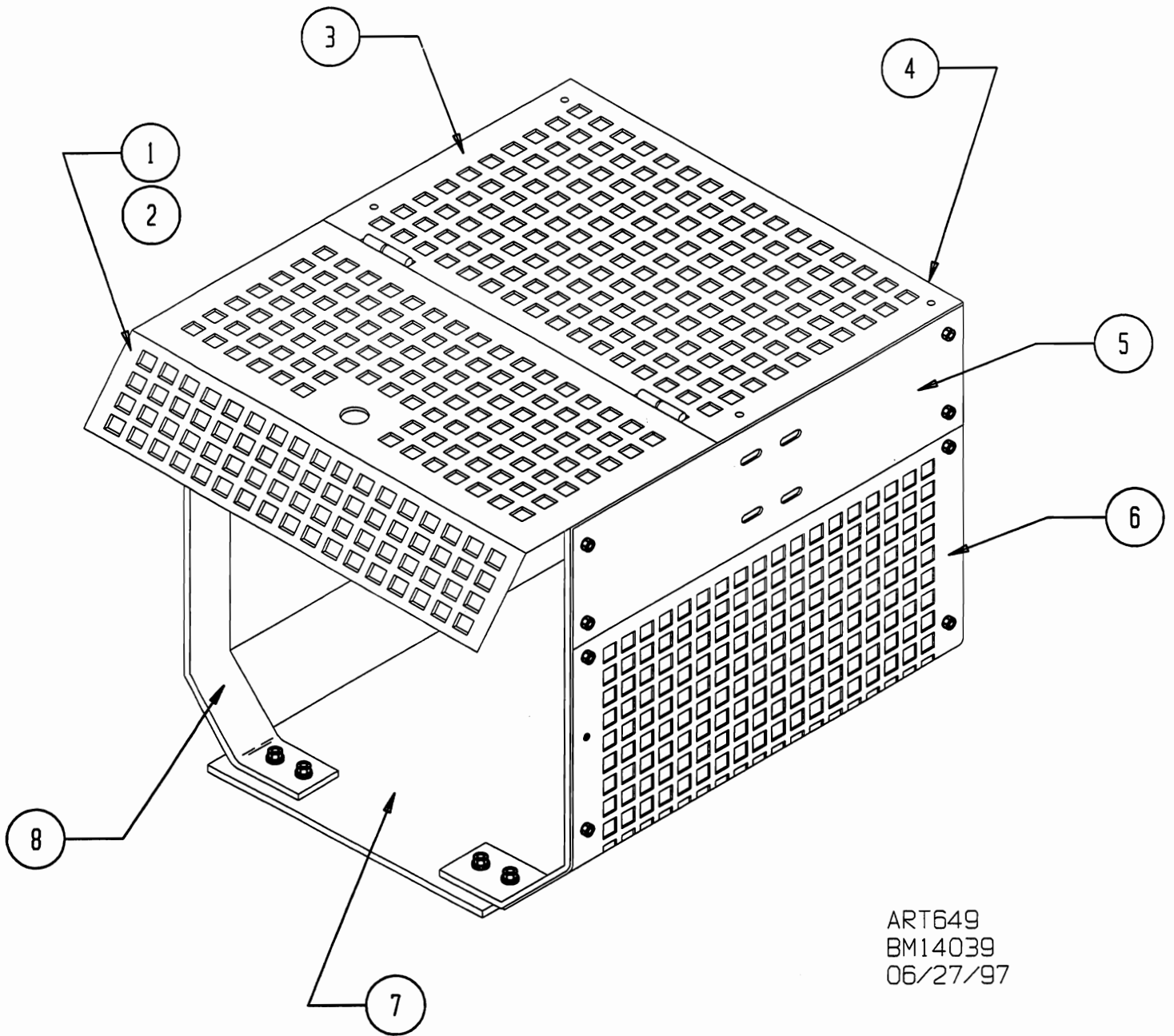
ART 280 R2
 BM5025
 12/16/97

FIG. 8-3 48"/58" Cabinet & Battery Box Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3179	1	RESERVOIR TRAY
2	3195	2	BATTERY BOX
3	3810	1	COVER
4	3812	1	HOUSING - VALVE
5	3814	1	DOOR-VALVE HOUSING
6	3815	1	HOUSING - MOTOR
7	3818	1	DOOR-MOTOR HOUSING
8	3841	1	COVER MANIFOLD SIDE
9	3270	2	COVER BATTERY BOX
10	HDW6455	32	BTTITETAP .250 200.50Z 5Y
11	HDW6807	1	COVER PIN 1/4 X 1-3/4
12	HDW6808	1	COTTER PIN
	7798	2	BATTERY HOLD DOWN
	4566	8	ROD HOLD DOWN
	6110	8	WING NUT
	5217	8	WASHER

ART 280 R2
BM5025
12/16/97

FIG. 8-3 48"/58" Cabinet & Battery Box Assembly



ART649
BM14039
06/27/97

FIG. 8-4 Dual Fuel Engine Cabinet Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	3453	1	GUARD - INNER MUFFLER
2	3452	1	GUARD - MUFFLER
3	3437	1	COVER WELDMENT
4	3423	1	FRONT WELDMENT - MOTOR HOUSING
5	3416	1	OUTER SIDE PANEL
6	3413	1	SIDE PANEL MOTOR HOUSING
7	3404	1	ENGINE MOUNTING TRAY
8	3424	1	REAR WELDMENT - MOTOR HOUSING

ART649
BM14039
06/27/97

FIG. 8-4 Dual Fuel Engine Cabinet Assembly

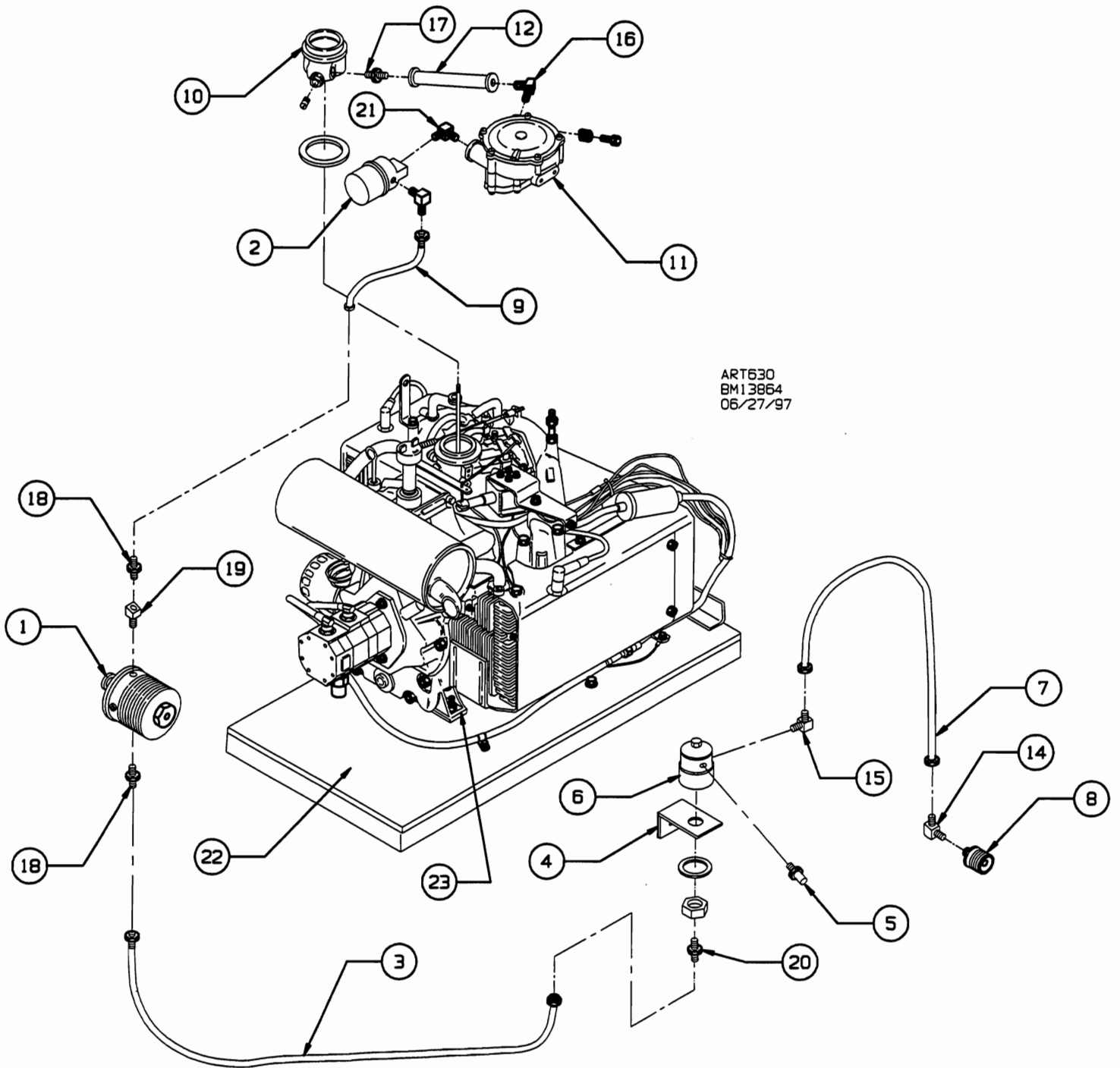
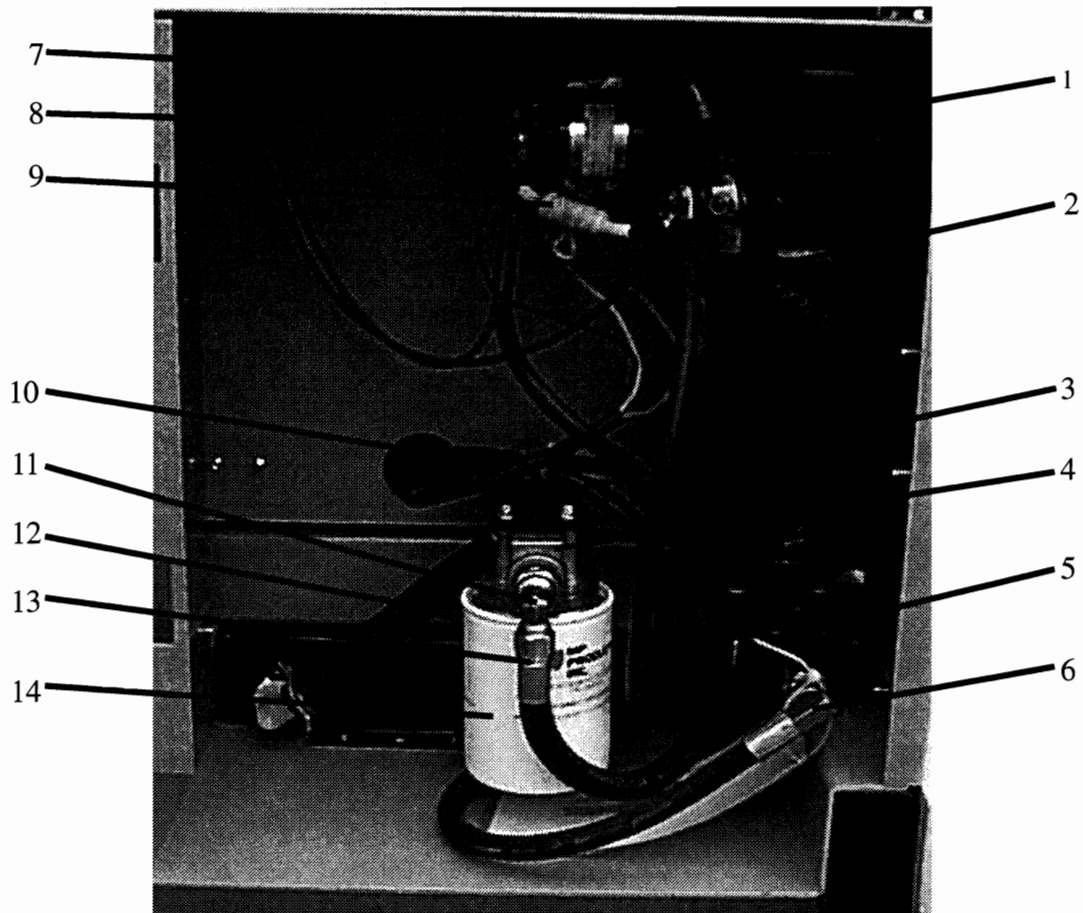


FIG. 8-5 L.P. Assembly Dual Fuel Engine

ITEM	PART NO.	QTY.	DESCRIPTION
1	6884	1	VAPORIZER, LPG
2	6867	1	SOLENOID SHUT-OFF VALVE, LPG
3	6891	1	HOSE ASSEMBLY, LPG (HIGH PRESSURE)
4	3465	1	MOUNTING BRACKET, LPG FILTER
5	6938	1	PRESSURE RELIEF, LPG FILTER
6	6861	1	FILTER, LPG
7	6890	1	HOSW ASSEMBLY, LPG (HIGH PRESSURE)
8	6868	1	QUICK DISCONNECT (LPG TANK)
9	6971	1	HOSE, LPG (LOW PRESSURE)
10	6885	1	LPG CARBURETOR ADAPTOR
11	6883	1	REGULATOR, LPG
12	6972	1	HOSE, LPG (LOW PRESSURE)
13	6979	1	SOLENOID, START
14	6895	1	45° FITTING
15	6894	1	ELBOW FITTING
16	6926	1	90 ° BAYONET
17	6927	1	BAYONET
18	6924	2	HEX NIPPLE
19	6929	1	45° ELBOW
20	6896	1	STRAIGHT FITTING
21	6923	1	ELBOW FITTING
22	3404	1	ENGINE MOUNTING TRAY
-	3429	1	ENGINE SPACER PLATE
-	3413	1	SIDE PANEL MOTOR HOUSING
-	3416	1	OUTER SIDE PANEL
-	3424	1	REAR WELDMENT - MOTOR HOUSING
-	3423	1	FRONT WELDMENT - MOTOR HOUSING
-	3417	1	INNER SIDE PANEL
-	3437	1	COVER WELDMENT
-	6853	1	ENGINE
-	6942	SERV	AIR FILTER
-	6940	SERV	OIL FILTER
-	6979	SERV	START SOLENOID

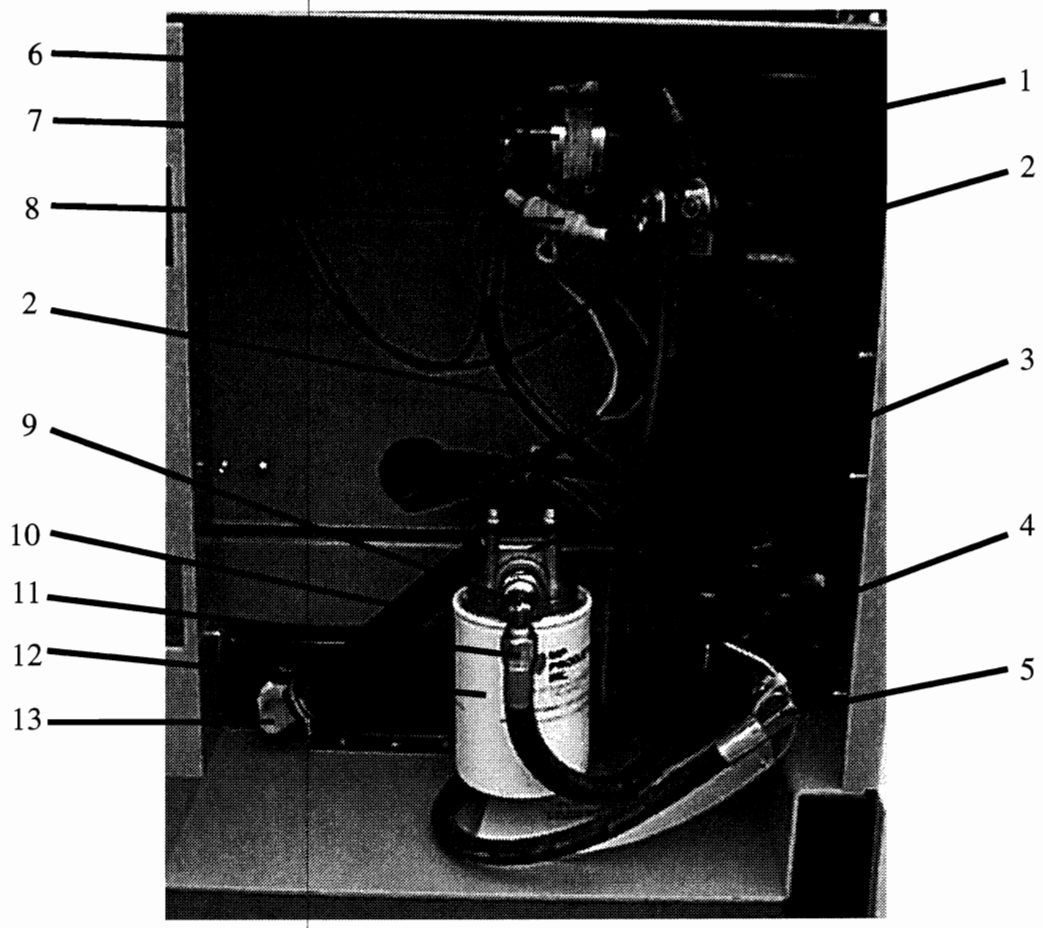
FIG. 8-5 L.P. Assembly Dual Fuel Engine

ART630
BM13864
06/27/97



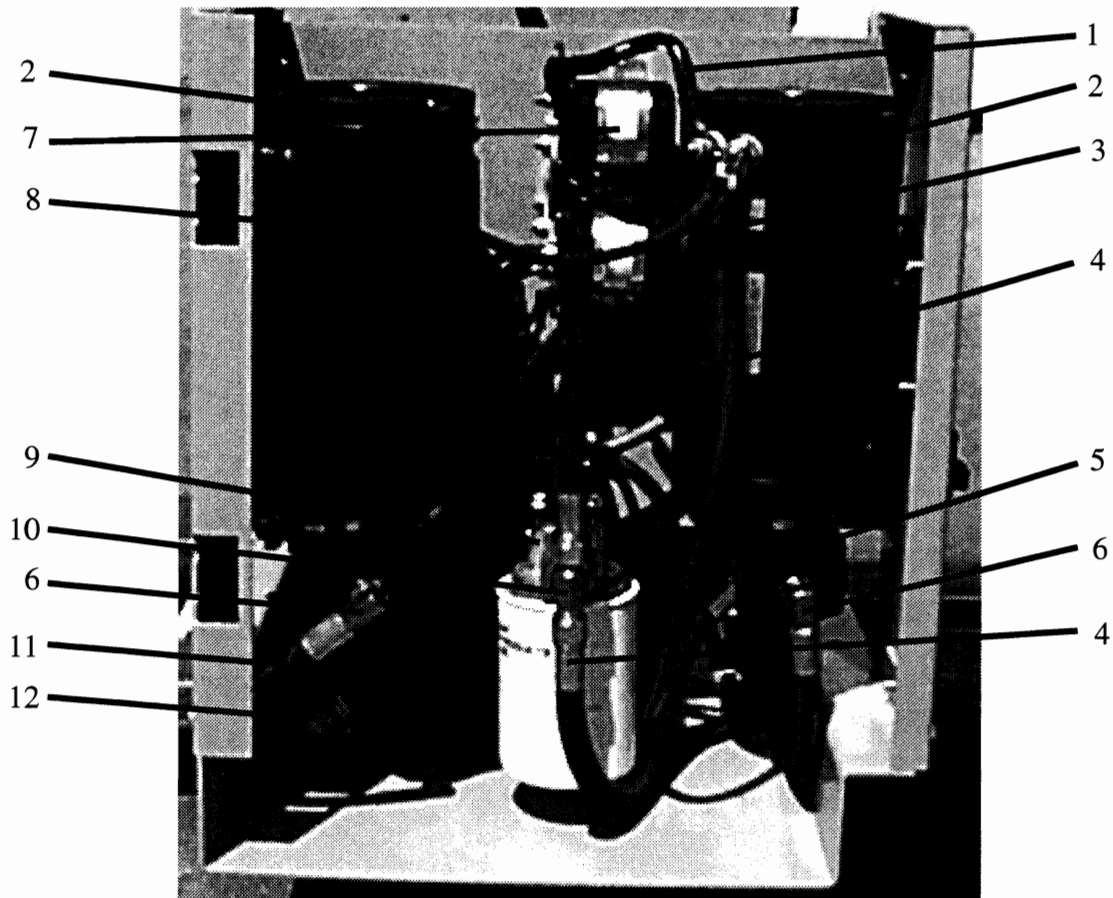
Item	Part Number	Quantity	Description
1	6661	1	36v Motor
	4041	Service	Brush Kit Leeson
	7027	Service	Brushes Ohio
	8141	Service	Kit Brush Holder Ohio
2	6686	1	Connector Cable Motor
3	3395	1	Oil Filter Bracket
4	6714	1	Filter Head
5	6662	1	Pump (2 GPM)
6	6723	1	Hose Pump to Manifold
7	6208	1	Motor Cable
8	6674	1	36v Contactor
9	6809	1	Wire Harness
10	5863	2	Rubber Grommet
11	6510	1	Fitting
12	6869	1	Hose Suction
	6960	2	Hose Clamp
13	5995	1	Hose Filter to Pump
14	6156	1	Filter

FIG 8-6 Standard Motor Cabinet Assembly



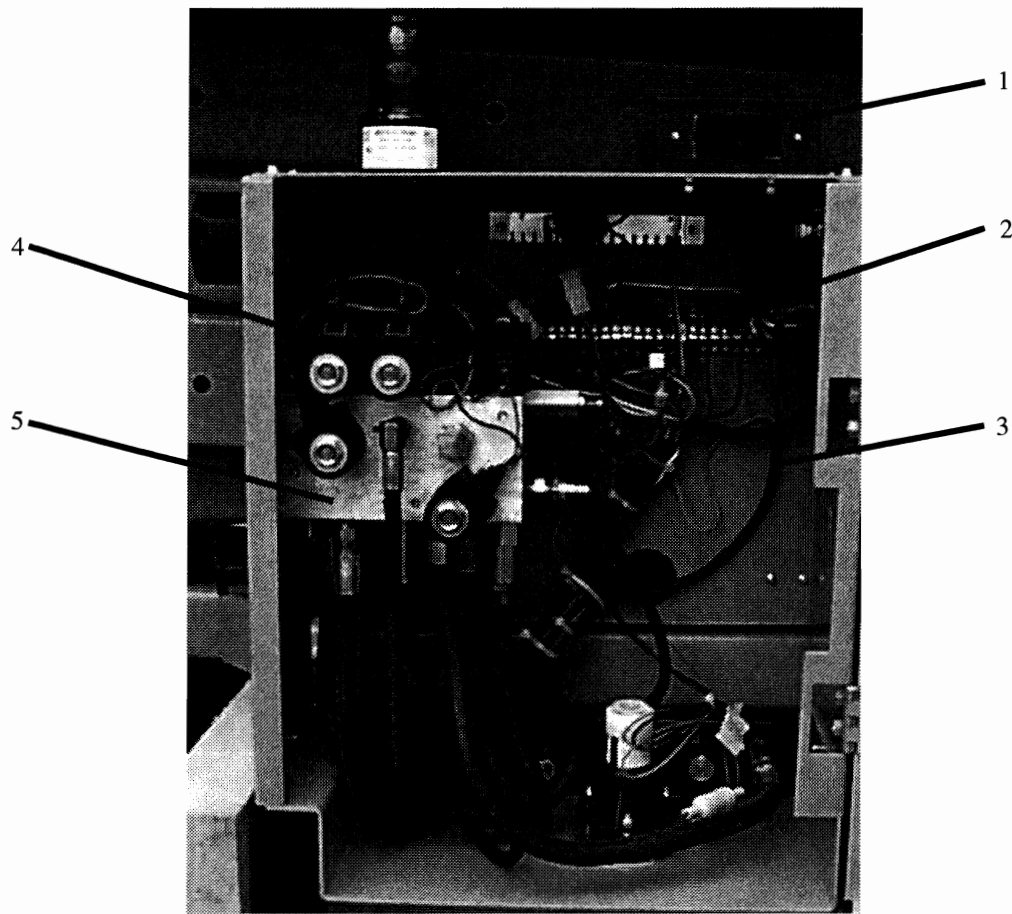
Item	Part Number	Quantity	Description
1	7170	1	36v Motor "EE"
2	7860	1	Cable / Connector Assy. "EE"
3	6714	1	Filter Head
	3395	1	Filter Head Bracket
4	6662	1	Hydraulic Pump
5	6723	1	Hose Pump to Manifold
6	7614	1	Battery Jumper "EE"
7	6674	1	Contactora
8	8100	1	Harness "EE" Standard Drive
9	6510	1	Fitting
10	6869	1	Hose Suction
	6960	2	Clamp
11	5995	1	Hose Filter to Pump
12	6156	1	Filter
13	6866	1	Fitting

FIG. 8-7 Standard "EE" Motor Cabinet Assembly



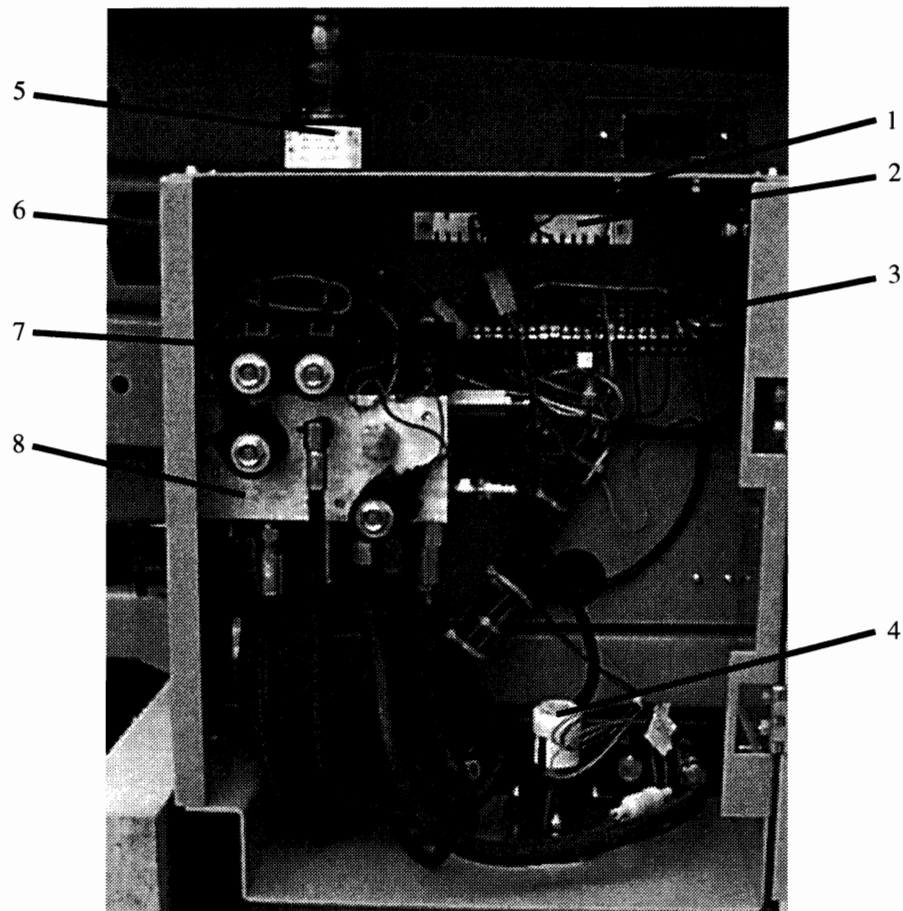
Item	Part Number	Quantity	Description
1	6208	2	Motor Cable
2	6661	2	36v Motor
	4041	Service	Brush Kit Leeson
	7027	Service	Brushes Ohio
	8141	Service	Kit Brush Holder Ohio
3	6686	1	Connector Cable Motor
4	5995	2	Hose Filter to Pump
5	6662	2	Pump (2 GPM)
	6314	Service	Coupler Barnes Pump
	8002	Service	Coupler Fenner Pump
6	6723	2	Hose Pump to Manifold
7	6674	2	36v Contactor
	3199	1	Brass Bar
8	6123	1	Motor Cable
9	6714	1	Filter Head
	3395	1	Filter Head Bracket
10	6719	1	T-Fitting
11	6869	1	Suction Hose
	6960	2	Hose Clamp Suction
12	6866	2	Fitting

FIG. 8-8 High Torque Motor Cabinet Assembly



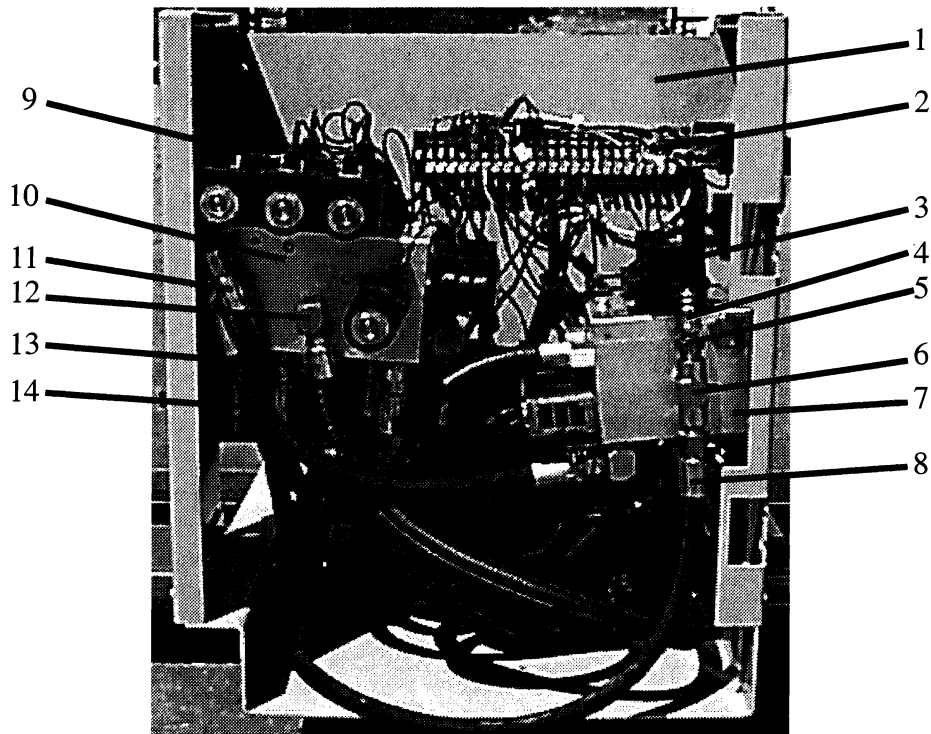
Item	Part Number	Quantity	Description
1	3903	1	110v Outlet to Platform
	4319	1	Box Ground Fault
	4333	1	Receptacle Box Duplex
	5381	1	Receptacle Duplex
	6456	2	Cord Grip Steel
	7263	1	Receptacle Duplex GF.
	7617	49 ft/	Bulk Wire
	8006	2	Conduit Nut
	8208	1	Flexible Conduit
	8209	1	Ferrule Conduit
	5229	4	#6 Screw
	8501	2	Nut
	2	6947	1
7970		1	Backing Strip
3	6805	1	Wire Harness Standard Manifold
4	6803	9	Coil 36v Single Spade
5	3655	1	Standard Manifold Assembly
	*See Figure 7-1		

FIG. 8-9 Standard Manifold Cabinet Assembly



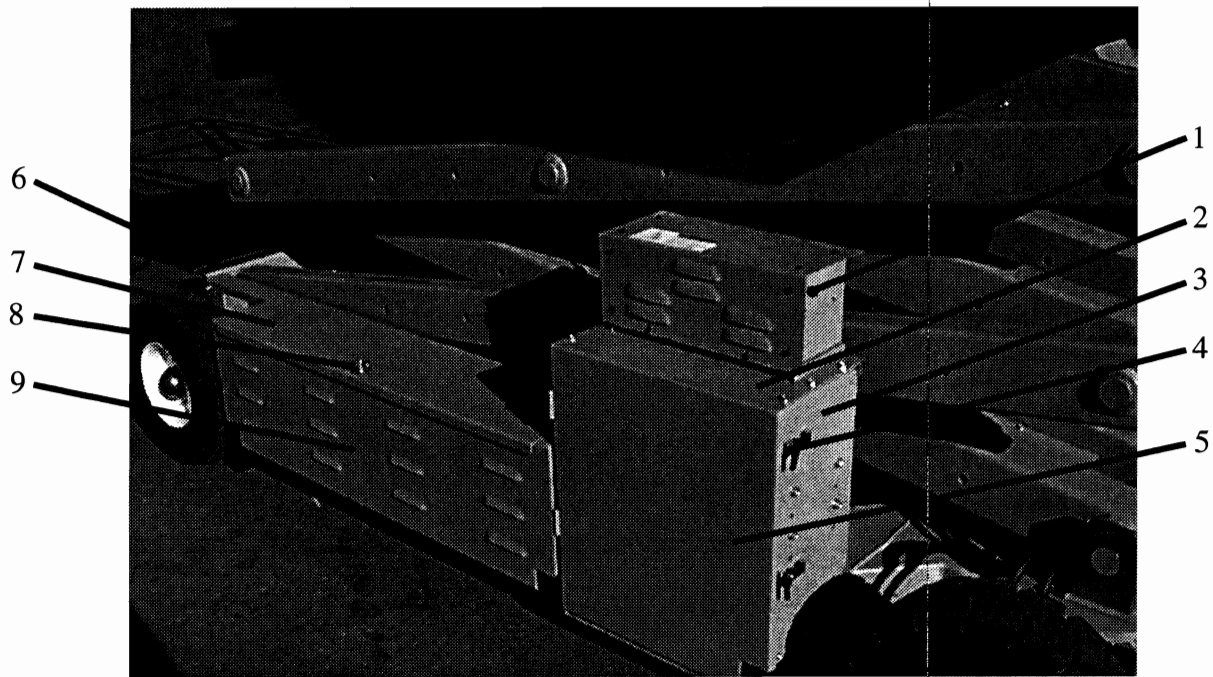
Item	Part Number	Quantity	Description
1	7556	Option	Voltage Regulator
2	3578	1	Grounding Bracket
3	6947	1	Terminal Strip
	7970	1	Backing Strip
4	7552	Option	Tilt Sensor
5	7595	Option	Flashing Light
	8933	Service	Bulb
6	7630	Option	Motion Alarm "EE"
7	7673	9	Coil 36v Double Spade
8	3836	1	Manifold Assembly
	3239	Service	Manifold Block w/o Plugs
	5971	20	Hole Plug

FIG. 8-10 Standard "EE" Manifold Cabinet Assembly



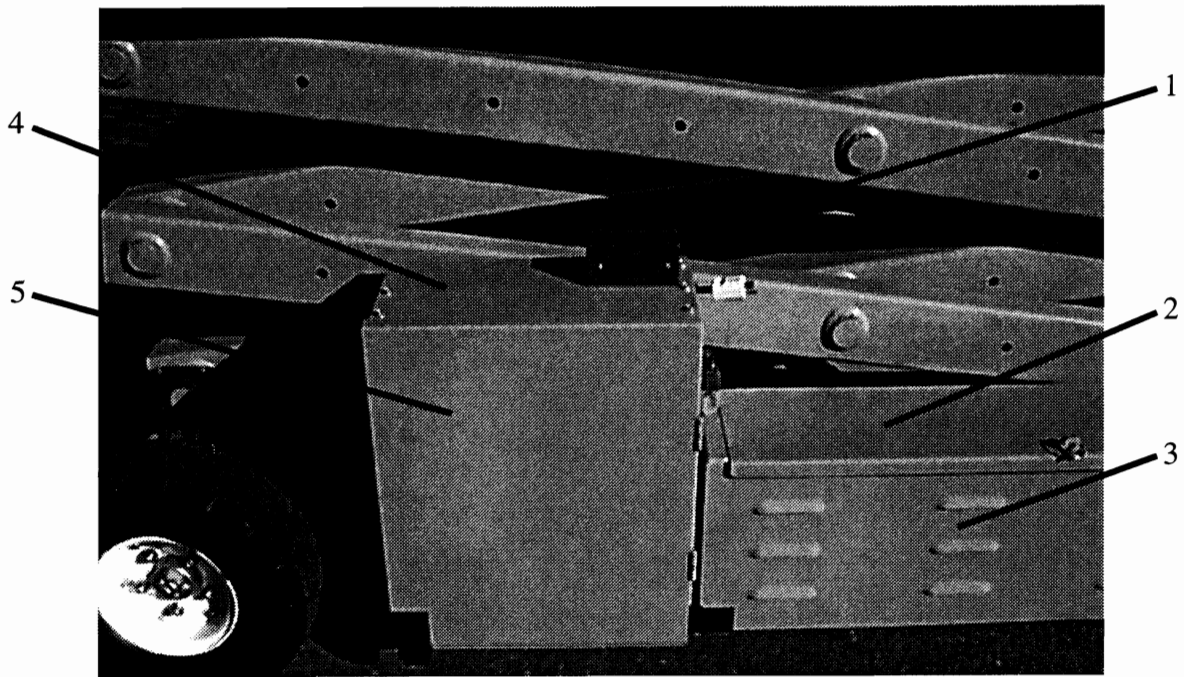
Item	Part Number	Quantity	Description
1	3812	1	Valve Housing
2	6947	1	Terminal Strip
	7970	1	Backing Strip
3	6803	16	36v Coil
4	7297	1	Male Quick Disconnect
	8106	Service	Female Quick Disconnect
5	7305	1	Adapter Fitting
6	6446	1	T - Fitting
7	3654	1	Primary Manifold Assy.
	3595	Service	Manifold Block W/Plugs
8	6723	2	Hose Pump to Manifold
9	7976	3	4-Way Valve
10	3653	1	Secondary Manifold Assy.
	3480	Service	Manifold Block W/Plugs
11	6718	2	Steering Hose
12	5472	6	90 Degree Fitting
13	6225	2	Hose Manifold to Tank
14	5999	2	Hose Manifold to Manifold

FIG. 8-11 High Torque Manifold Assembly



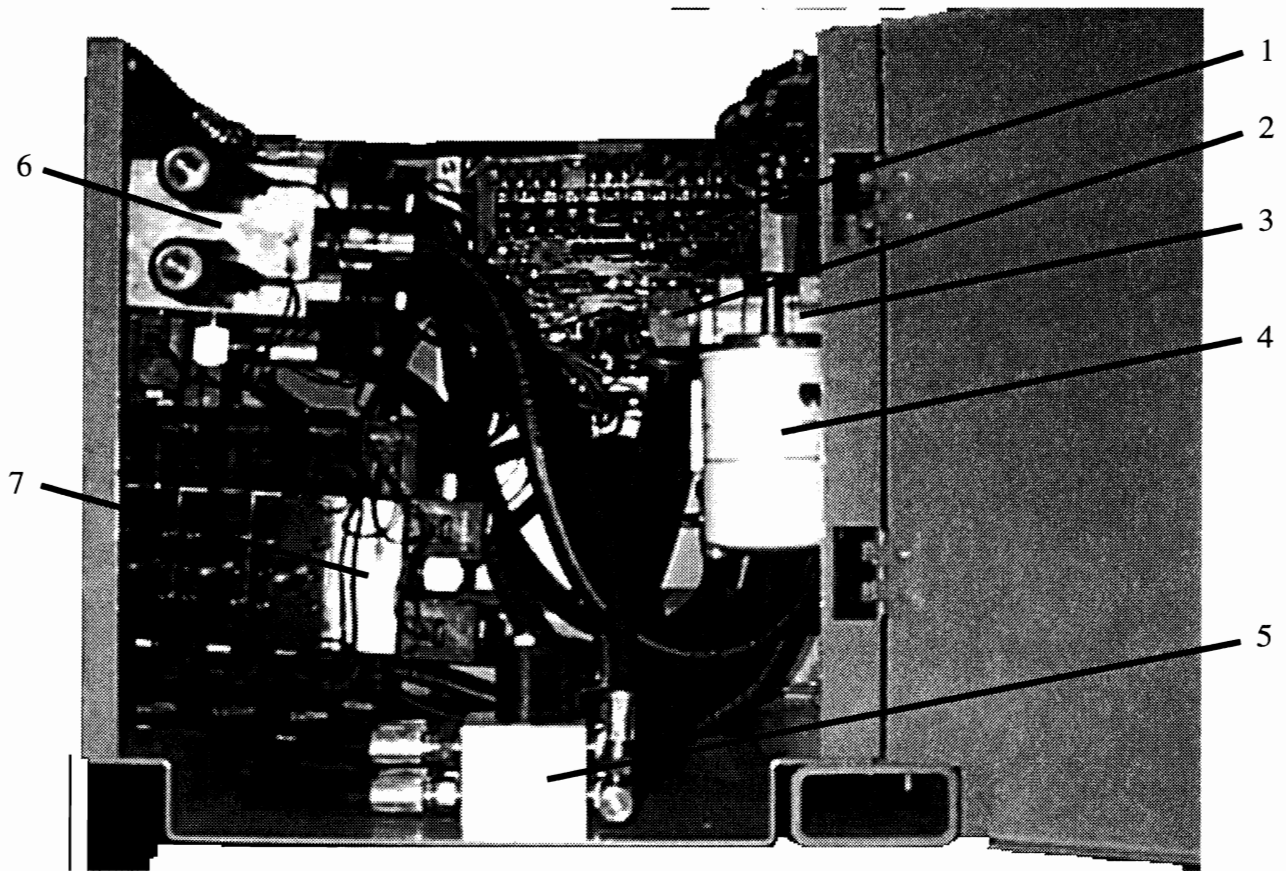
Item	Part Number	Quantity	Description
1	8707	1	Charger 36v 60hz - 120vac
	8735	Option	Charger Auto 36v 60hz 230vac
	8724	Option	Charger Auto 36v 50hz 230vac
	8117	Option	Charger 36v 380vac
2	3810	1	Cover Motor Housing
3	3815	1	Motor Housing
4	7966	4	Rubber T-Handle
5	3817	1	Door Motor Housing
6	3198	1	Rear Step
7	3270	2	Battery Box Cover
	6807	2	Pin
	6808	2	Cotter Pin
8	6751	2	Lynch Pin
9	3195	2	Battery Box

FIG. 8-12 Hitmaster Electric Series Right Side



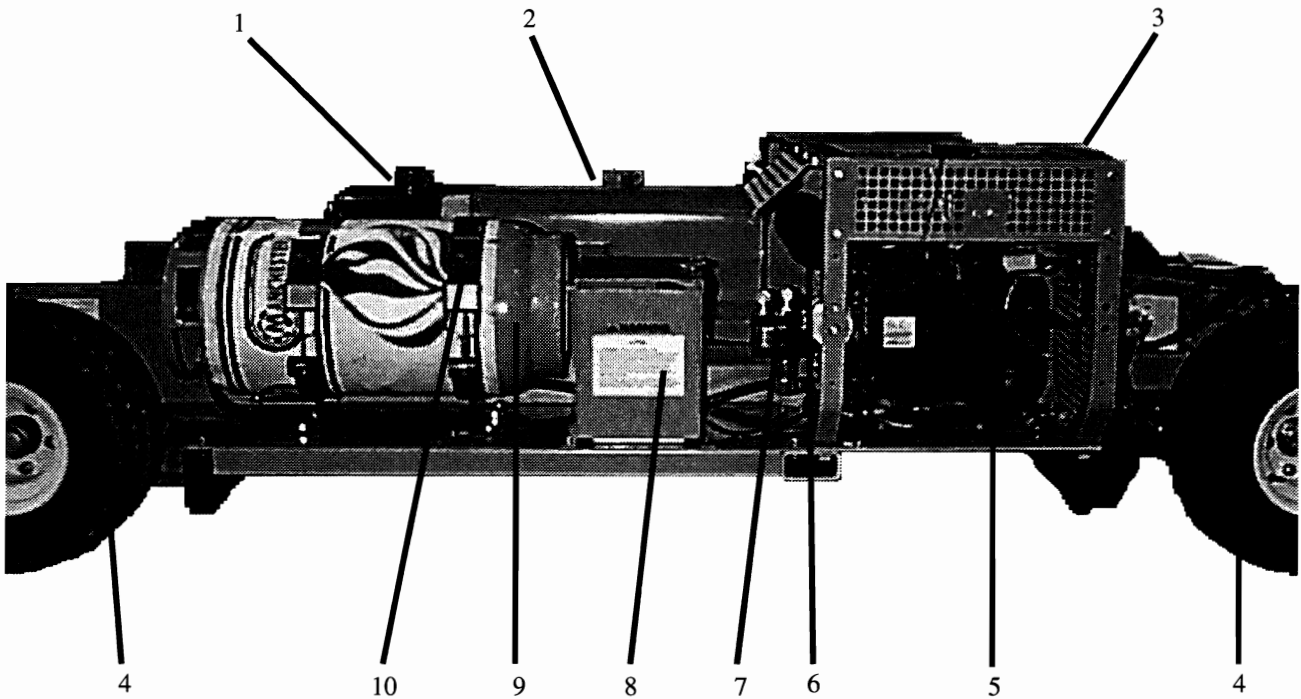
Item	Part Number	Quantity	Description
1	4319	1	Box Ground Fault
	7263	1	Receptacle
	8479	1	Bushing
	8476	1	Connector Wire Nut
	5229	2	Bolt #6
	5204	2	Bolt
	5005	2	Nut
2	3270	2	Cover Battery Box
3	3195	2	Battery Box
4	3841	1	Cover Valve Housing
	6455	6	Bolt 1/4 Self Tapping
5	3814	1	Door Valve Housing

FIG. 8-13. Hitmaster Electric Series Left Side



Item	Part Number	Quantity	Description
1	9021	1	Relay Board
	9065	Service	Adapter Harness
2	6865	1	Elbow Brass
3	6714	1	Filter Head
4	6156	1	Filter
5	3908	1	Manifold Assembly
	*See Figure 7-6		
6	3906	1	Primary Manifold Assembly
	*See Figure 7-4		
7	3907	1	Secondary Manifold Assembly
	*See Figure 7-5		

FIG. 8-14 Hitmaster Dual Fuel Manifold Cabinet Assembly



Item	Part Number	Quantity	Description
1	3419	1	Gas Tank
	6978	Service	Gas & Hydraulic Cap
2	6856	1	Hydraulic Tank
	6978	Service	Gas & Hydraulic Cap
3	*See Figure		
4	3925	4	Tire Assembly
5	6853	1	Kohler M18 Engine
	6942	Service	Air Filter
	8131	Service	Starter
6	6941	Service	Muffler
7	6855	1	Pump
8	3431	1	Battery Box
	6854	1	12v Starter Battery
9	6859	1	L.P. Tank
10	6860	1	Mounting Brackets L.P. Tank

FIG. 8-15 Dual Fuel Engine Side

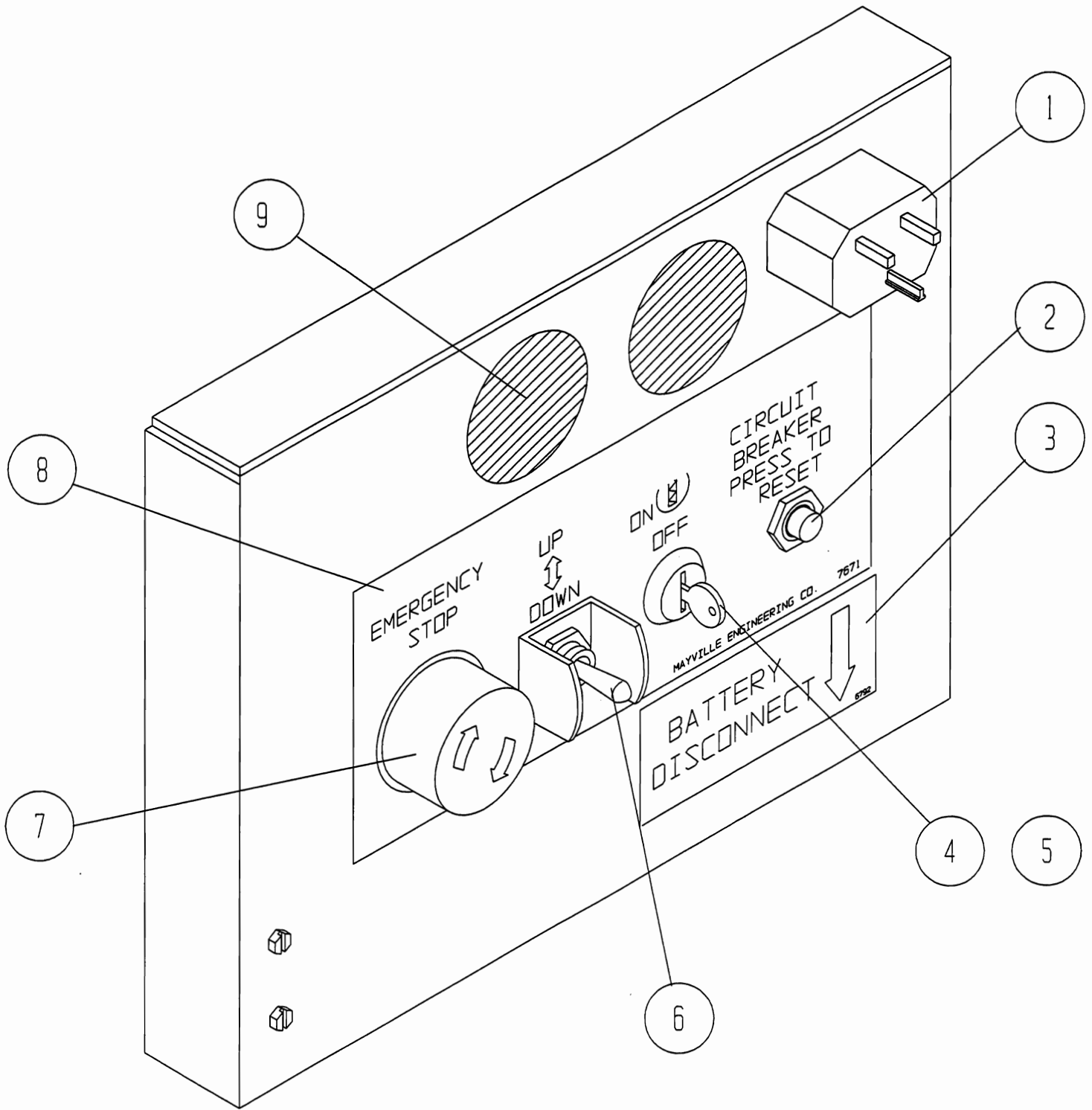


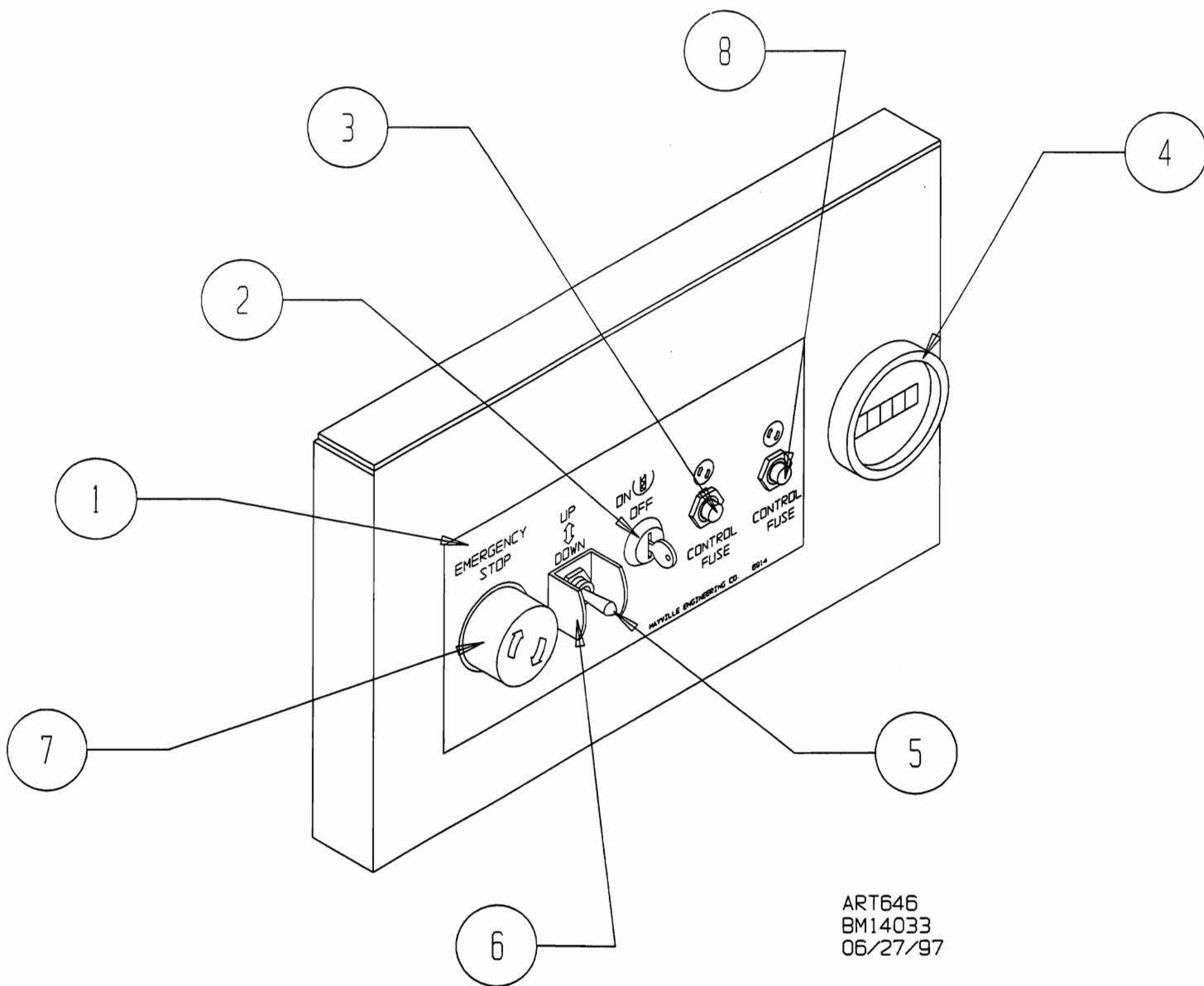
FIG. 8-16 Electric Series Lower Control Panel

ART643
 BM14005
 06/27/97

ITEM	PART NO.	QTY.	DESCRIPTION
1	5382	1	110V PLUG
	5232	1	STRAIN RELIEF
	7617	49FT	BULK WIRE
2	7235	1	15 AMP CIRCUIT BREAKER
3	6791	1	DECAL BAT. DISCONNECT LH
	6792	1	DECAL BAT. DISCONNECT RH
4	5936	1	KEY SWITCH
	6117	SERV	KEY
5	7234	1	KEY RING
6	5230	1	SWITCH
	1313	1	SWITCH GUARD
7	7800	1	EMERGENCY STOP
	8082	SERV	N.O. CONTACT BLOCK
	8083	SERV	N.C. CONTACT BLOCK
8	7671	1	DECAL BASE CONTROL
9	7115	2	HOLE PLUG
	7100	OPTL	36V BATTERY INDICATOR
	7909	OPTL	HOUR METER

ART643
BM14005
06/27/97

FIG. 8-16 Electric Series Lower Control Panel



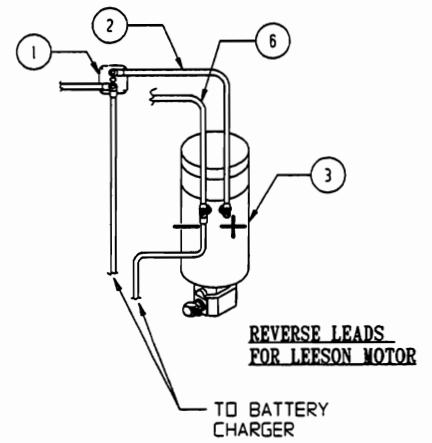
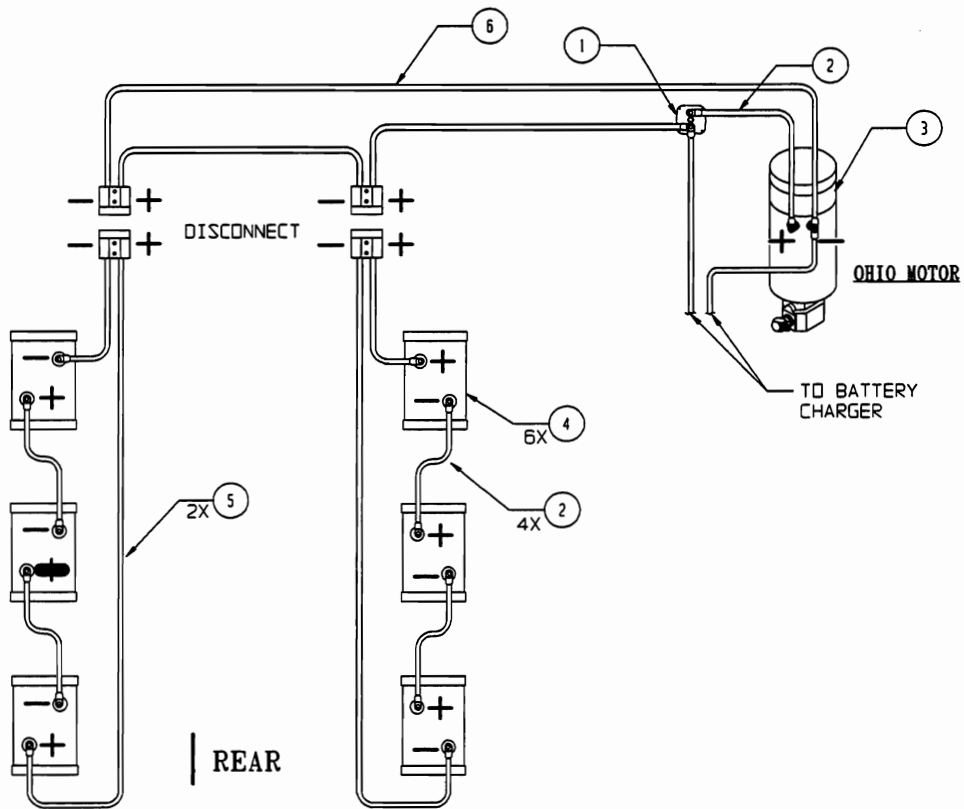
ART646
 BM14033
 06/27/97

FIG. 8-17 Dual Fuel Series Lower Control Panel

ITEM	PART NO.	QTY.	DESCRIPTION
1	6914	1	DECAL-LOWER CONTROL
2	5936	1	KEY SWITCH
	6117	SERV	KEY ONLY (#H 2007)
3	7235	2	15 AMP CIRCUIT BREAKER
4	6857	1	HOUR METER
5	5230	1	SWITCH
6	1313	1	SWITCH GUARD
7	7800	1	EMERGENCY STOP
8	7447	1	30 AMP CIRCUIT BREAKER

ART646
BM14033
06/27/97

FIG. 8-17 Dual Fuel Series Lower Control Panel



ART512 R3
 BM11012
 07/07/97

FIG. 8-18 Standard Series Battery & Motor Cable Layout

H I T E - M A S T E R - S T A N D A R D

ITEM	PART NO.	QTY.	DESCRIPTION
1	6674	1	CONTACTORS, 36 VOLT
2	6208	5	JUMPER, BATTERY
3	6661	1	MOTOR, 36 V, DC
4	5970	6	BATTERY, 6V
5	6685	2	CONNECTOR/CABLE ASSEMBLY
6	6686	1	CONNECTOR/CABLE ASSEMBLY, MOTOR

ART512 R3
BM11012
07/07/97

FIG. 8-18 Standard Series Battery & Motor Cable Layout

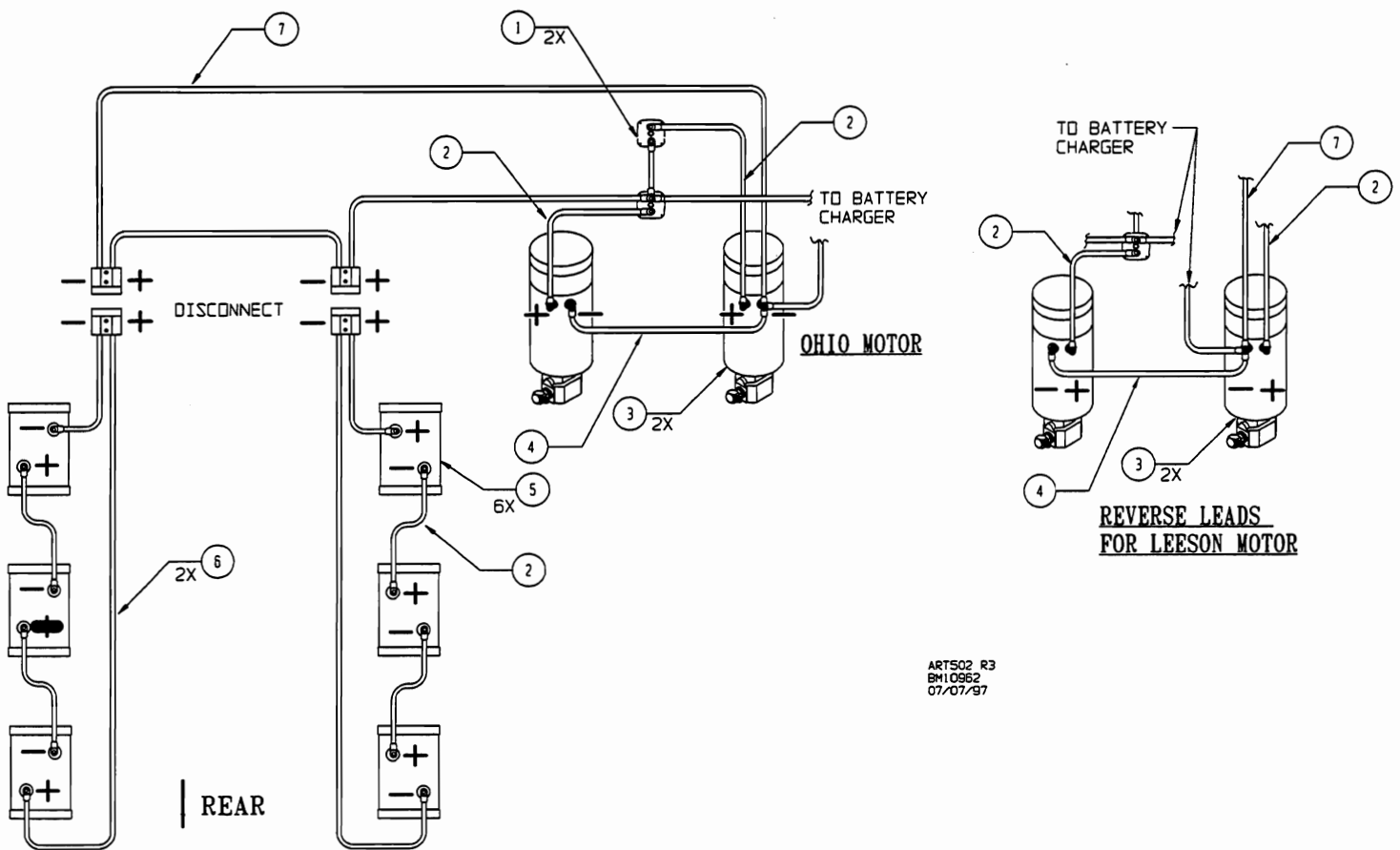


FIG. 8-19 High Torque Series Battery & Motor Cable Layout

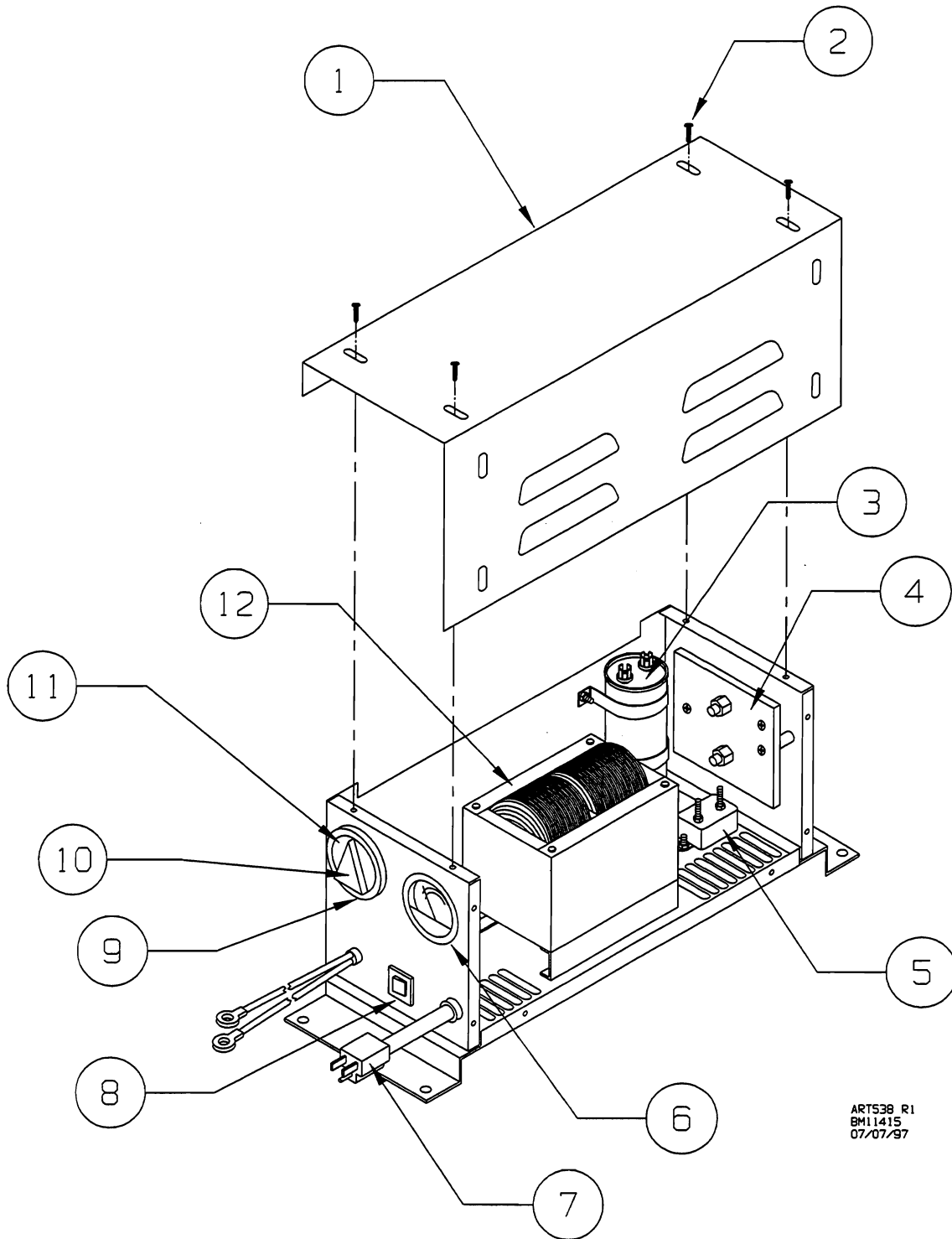
HITE-MASTER 2548 HT & 2558 HT

ITEM	PART NO.	QTY.	DESCRIPTION
1	6674	2	CONTACTORS, 36 VOLT
2	6208	6	JUMPER, BATTERY
3	6661	2	MOTOR, 36 V, DC
4	6207	1	JUMPER, MOTOR #2
5	5970	6	BATTERY, 6V
6	6685	2	CONNECTOR/CABLE ASSEMBLY
7	6686	1	CONNECTOR/CABLE ASSEMBLY, MOTOR

ART502 R3
BM10962
07/07/97

FIG. 8-19 High Torque Series Battery & Motor Cable Layout

Part Number 8707



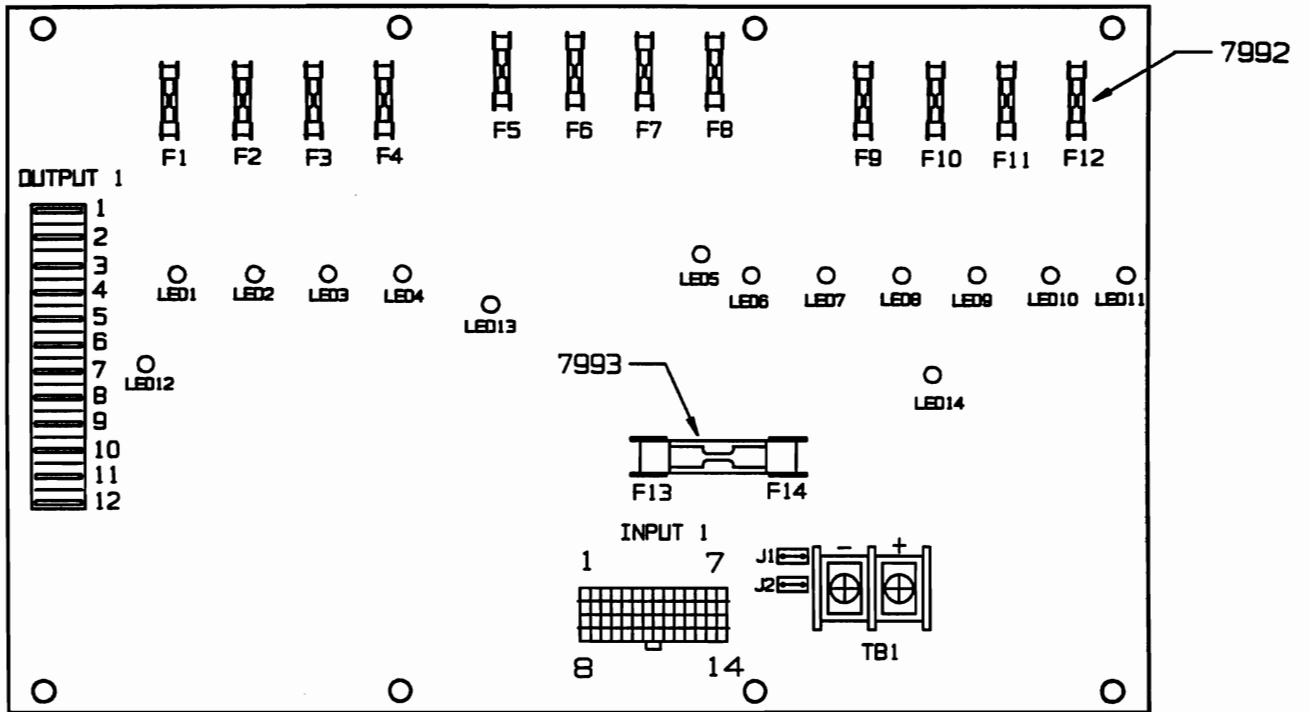
ART538 R1
BM11415
07/07/97

FIG. 8-20 8707 Charger

ITEM	PART NO.	QTY.	DESCRIPTION
1	3193	1	CHARGER COVER - 36 VOLT
2	HDW5385	8	SCREW, #8-32 X 3/8", GRADE 5
3	6783	1	CONDENSER - 36 VOLT
4	8720	1	HEATSINK RECTIFIER ASSEMBLY
5	6522	1	CIRCUIT BREAKER, 12 VOLT, 50 AMP
6	5554	1	AMMETER - 20 AMP
7	5649	1	A.C. CORD
8	8721	1	CIRCUIT BREAKER - 15 AMP
9	5643	1	TIMER DIAL PLATE
10	5556	1	TIMER KNOB
11	5642	1	TIMER, 16 HOUR, 60 HZ
12	8722	1	TRANSFORMER, 36 VOLT, 17 AMP

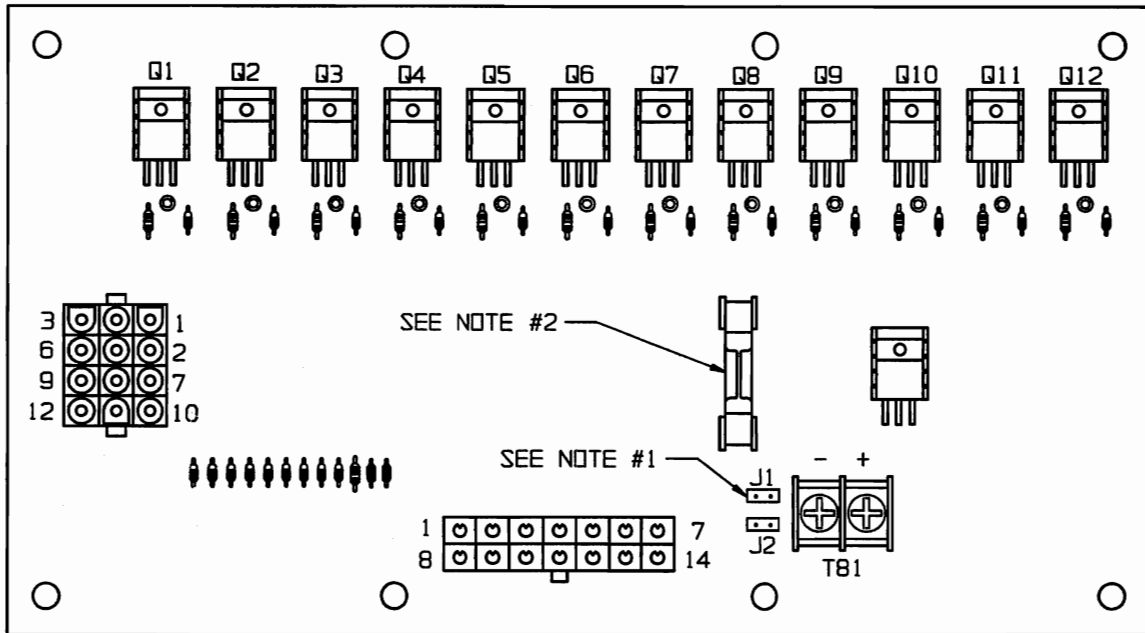
ART538 R1
BM11415
07/07/97

FIG. 8-20 8707 Charger



7273 Relay Board Replaced By 9021

BLANK IN
ORIGINAL
7273-2



9021 Relay Board









Note 1. Cut Jumper J1 for Quadrex RT ONLY.

Note 2. Fuse Part Number 7993

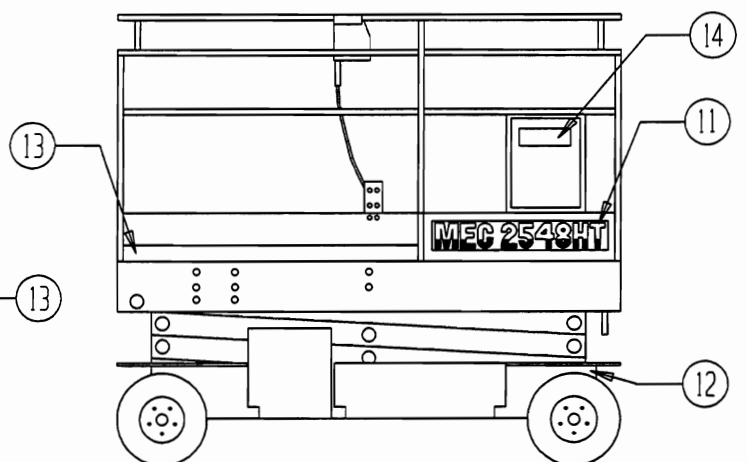
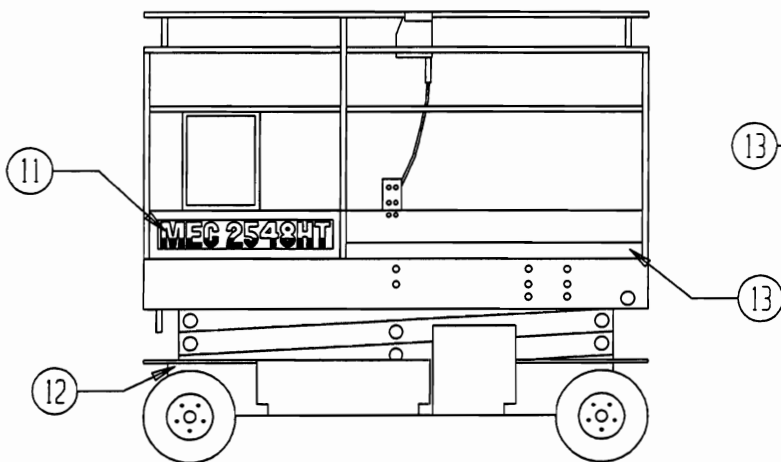
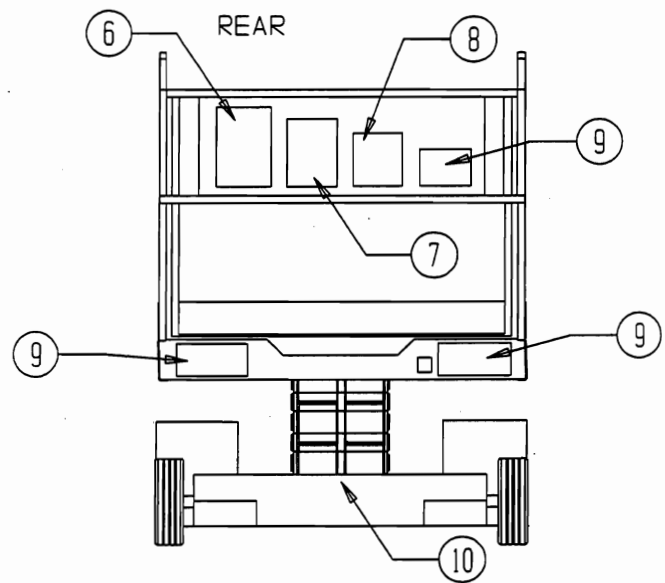
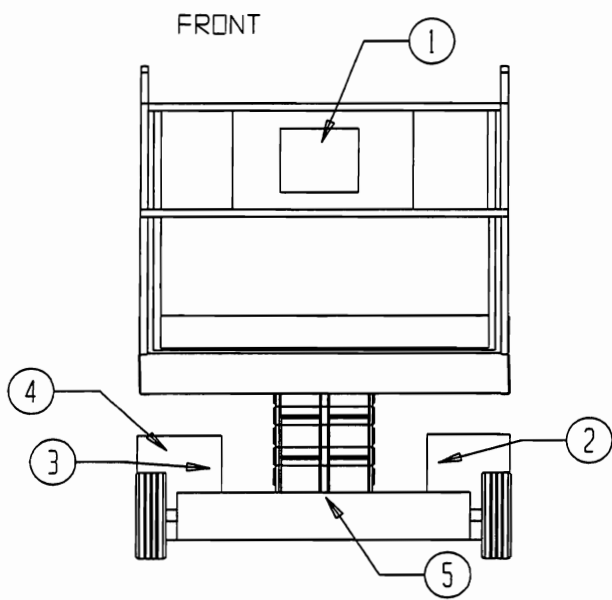
FIG. 8-21 Relay Boards

HITE-MASTER

Decals

 DANGER	
<p>YOU MUST NOT OPERATE THIS MACHINE:</p> <p>UNLESS YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS MACHINE.</p> <p>TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATING INSTRUCTIONS CONTAINED IN THE MANUFACTURERS MANUAL, YOUR EMPLOYERS WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.</p> <p>AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.</p>	<p>TIP-OVER HAZARDS</p> <div style="display: flex; justify-content: space-around;">   </div> <p>DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS</p>
<p> ELECTROCUTION HAZARD THIS MACHINE IS NOT ISOLATED</p> <p>MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.</p> <p>THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.</p> <p>YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THIS MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.</p>	<div style="display: flex; justify-content: space-around;">  <p>DO NOT ELEVATE PLATFORM ON UNEVEN OR SOFT SURFACES. DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED</p> </div> <div style="display: flex; justify-content: space-around;">   </div> <p>DO NOT RAISE PLATFORM ON SLOPE, OR DRIVE ONTO SLOPE WHEN ELEVATED</p>
<p>DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE</p>	<div style="display: flex; justify-content: space-around;">  <p>DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS</p> </div> <p>DEATH OR SERIOUS INJURY WILL RESULT FROM IMPROPER USE OF THIS EQUIPMENT</p> <p style="font-size: small; text-align: center;">MAYVILLE ENGINEERING CO. 2522</p>

NOTES:



ART635
 BNI 3901
 06/27/97

FIG. 9-1 Electric Series Decal Location

ITEM	PART NO.	QTY.	DESCRIPTION
1	8811	1	DECAL - MEC OVAL (WHITE)
2	6792	1	DECAL - BATTERY DISCONNECT-RH
3	6791	1	DECAL - BATTERY DISCONNECT-LH
4	7671	1	DECAL - BASE CONTROL HM
5	6557	1	DECAL - EMERGENCY DOWN
6	7527	1	DECAL - CAUTION
7	7523	1	DECAL - CAUTION ELEC/TIP HAZARDS
8	6842	1	DECAL - EXTENDING PLATFORM
9	6050	3	LABEL - OPERATORS, 1000-300#
10	6556	1	DECAL - FORK POCKETS
11	8798	2	DECAL - MODEL# HITE 2548HT
12	8519	2	DECAL WARNING TIRE REPLACEMENT
13	8402	2	DECAL RAIL STRIPE SHIP150' ROLL
14	8911	1	DECAL, MANUAL CASE

ART635
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06/27/97

FIG. 9-1 Electric Series Decal Location

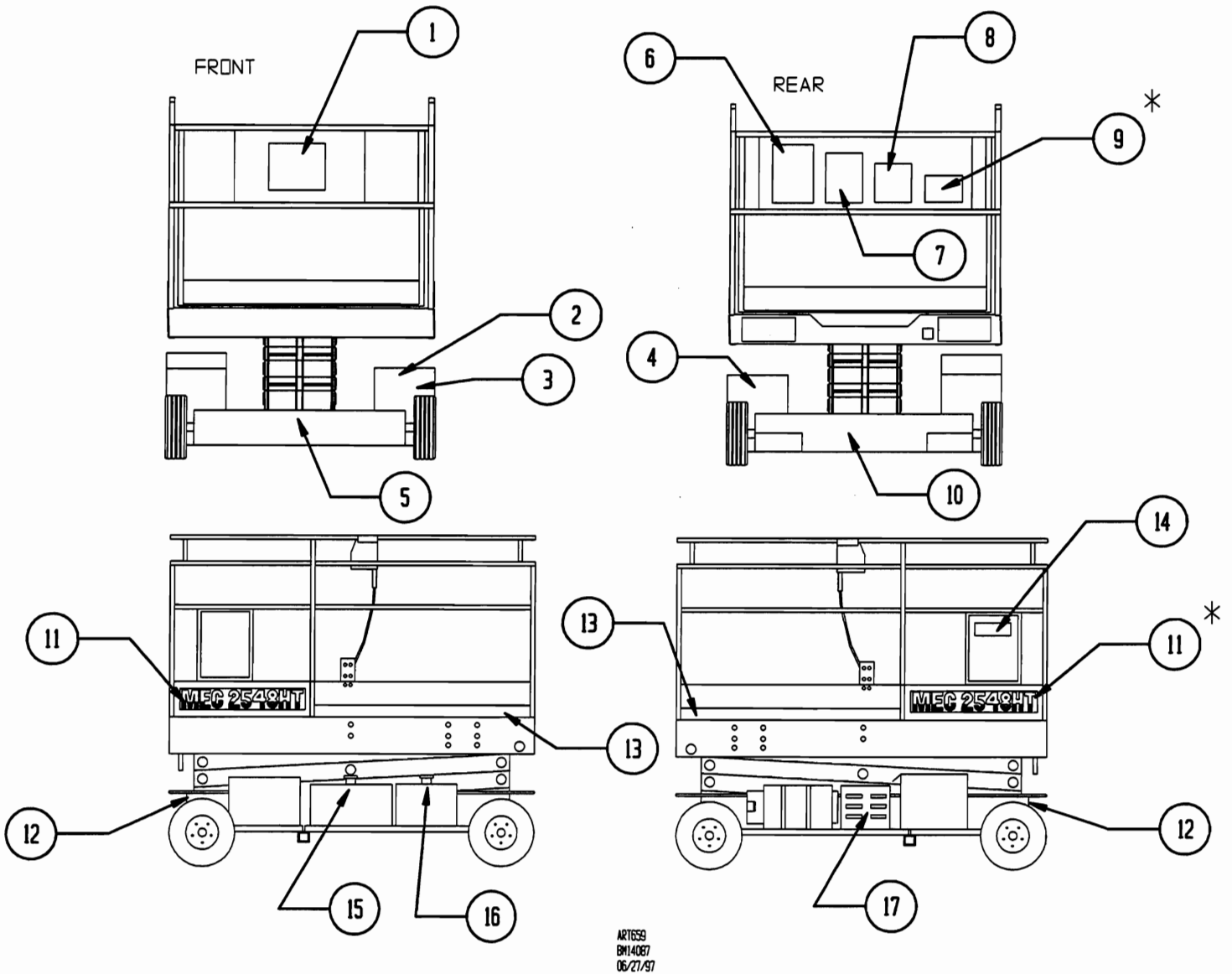


FIG. 9-2 Dual Fuel Series Decal Location

ITEM	PART NO.	QTY.	DESCRIPTION
1	8811	1	DECAL - MEC OVAL (WHITE)
2	6913	1	DECAL - ENGINE CONTROL
3	6912	1	DECAL - FUEL CHANGE OVER
4	7675	1	DECAL - CAUTION
5	6557	1	DECAL - CAUTION ELEC/TIP HAZARDS
6	7527	1	DECAL - EXTENDING PLATFORM
7	7523	3	DECAL - CAPACITY 1250#
8	6842	1	DECAL - FORK POCKETS
9	6834	2	DECAL - MODEL# HITE 2558
10	6556	2	DECAL WARNING TIRE REPLACEMENT
11	8799	2	DECAL RAIL STRIPE SHIP150' ROLL
12	8519	1	DECAL, MANUAL CASE
13	8402	1	DECAL - FORK POCKETS
14	8911	2	DECAL - MODEL# HITE 2558
15	6873	1	DECAL - HYDRAULIC FLUID
16	6872	1	DECAL - GASOLINE
17	6948	1	DECAL - LPG INSTRUCTION

ART659
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06/27/97

FIG. 9-2 Dual Fuel Series Decal Location

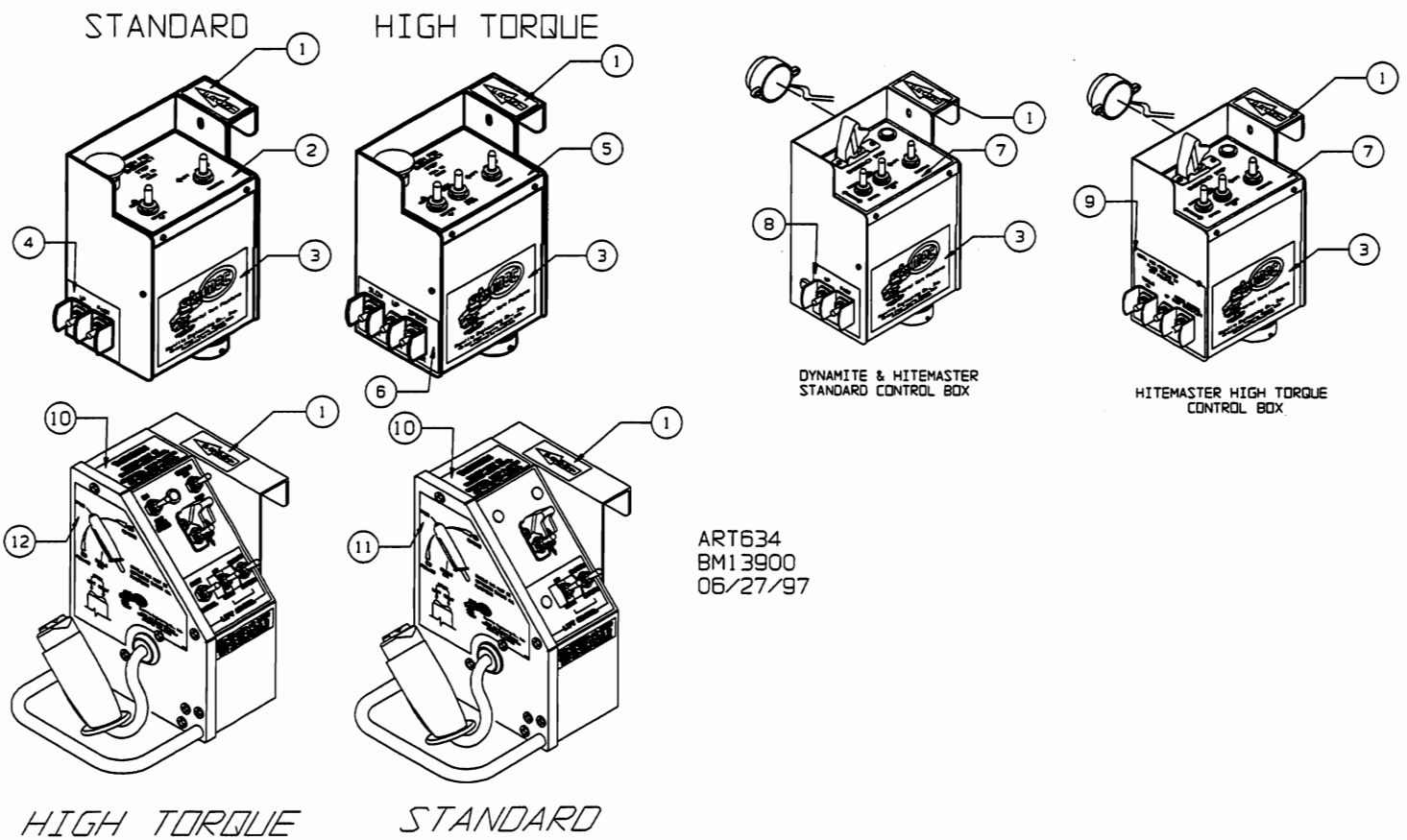


FIG. 9-3 Control Box Decal Location

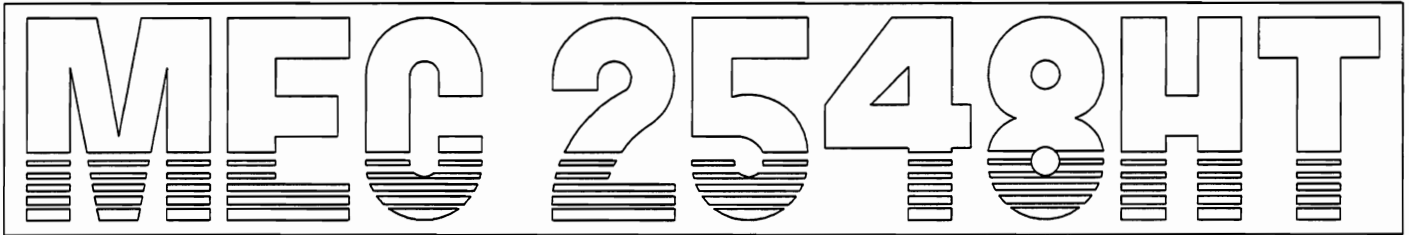
ITEM	PART NO.	QTY.	DESCRIPTION
1	7156	6	FRONT DECAL
2	6573	1	DECAL - CONTROL BOX W/O BRAKE
3	6839	4	DECAL - AWP LOGO
4	6572	1	DECAL - SPEED & UP/DOWN
5	6574	1	DECAL - UPPER CONTROL BOX
6	6557	1	DECAL - EMERGENCY DOWN
7	7620	2	DECAL, UPPER CONT. BOX-EE SERIES
8	7659	1	DECAL, CONT. BOX STD. EE
9	7621	1	DECAL - CONT. BOX SIDE-EE SERIES
10	7827	2	DECAL - WARNING LIGHT QUADREX
11	8654	2	DECAL, DIRECTIONS JS #3

ART634
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FIG. 9-3 Control Box Decal Location

8798

*



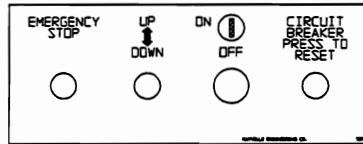
6794

MAINTENANCE LOCK

8779



7671



ART625
BM13845
06/27/97

7685

ОК-ЛОКЪ ЛОУ

7895

BOTH DIRECTION AND SAFETY SWITCHES MUST BE HELD TO LIFT AND LOWER PLATFORM.

* 6050



7385

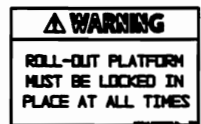
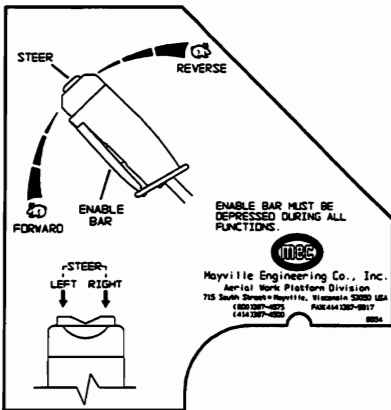


FIG. 9-4 Decals

8624



7523

⚠ DANGER	
<p>YOU MUST NOT OPERATE THIS MACHINE!</p> <p>UNLESS YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS MACHINE.</p> <p>TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATING INSTRUCTIONS CONTAINED IN THE MANUFACTURERS MANUAL, YOUR EMPLOYERS WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.</p> <p>AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.</p> <p>ELECTROCUTION HAZARD THIS MACHINE IS NOT ISOLATED</p> <p>MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APPARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.</p> <p>THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.</p> <p>YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THIS MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.</p> <p>DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE</p>	<p>TIP-OVER HAZARDS</p> <p> DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS</p> <p> DO NOT ELEVATE PLATFORM ON UNEVEN OR SOFT SURFACES. DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED.</p> <p> DO NOT RAISE PLATFORM ON SLOPE, OR DRIVE ONTO SLOPE WHEN ELEVATED.</p> <p> DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS</p> <p>DEATH OR SERIOUS INJURY WILL RESULT FROM IMPROPER USE OF THIS EQUIPMENT</p>

7156

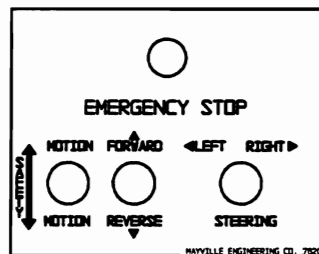


7253

OPERATORS MANUAL
ENCLOSED

7253

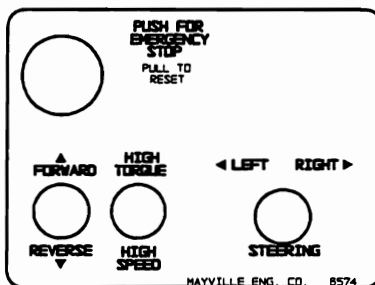
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ART625
BM13845
06/27/97

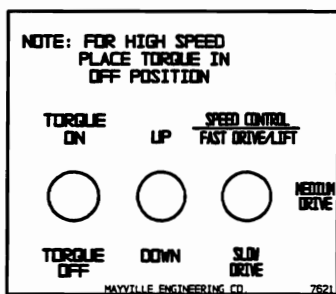
FIG. 9-4 Decals

6574

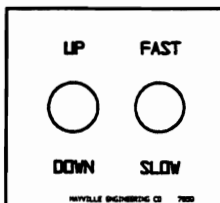


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06/27/97

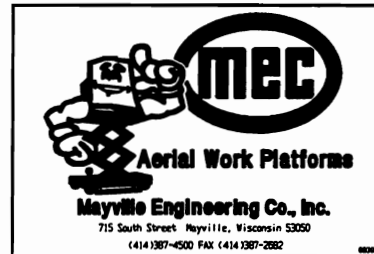
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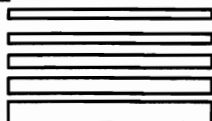
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6839



8402



6562

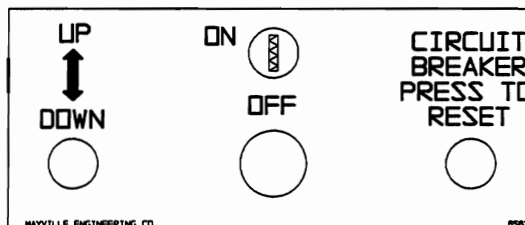
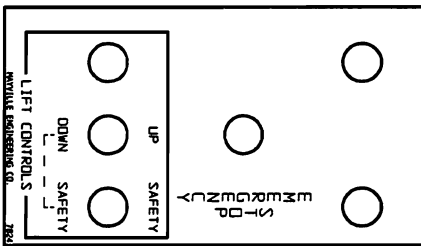


FIG. 9-4 Decals

7824



6942

▲ WARNING

DO NOT USE EXTENDING PLATFORM WITHOUT RAILINGS FULLY EXTENDED

TO EXTEND PLATFORM

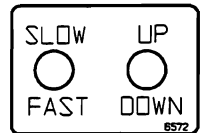
- LOWER THE PLATFORM DECK BY PUSHING PLATFORM FORWARD
- LIFT LOCK HANDLES AND PUSH RAIL ASSEMBLY FORWARD TO FULL EXTENSION.
NOTE: BE SURE RAILING IS LOCKED IN OUT POSITION.

TO RETRACT PLATFORM

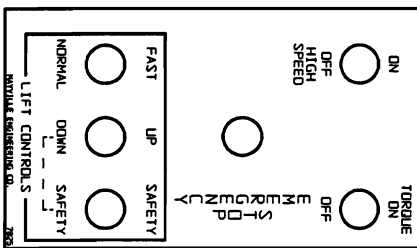
- LIFT LOCK HANDLES AND PULL RAIL ASSEMBLY TO STORED POSITION.
NOTE: RAIL ASSEMBLY MUST BE FULLY RETRACTED AND LOCKED BEFORE EXTENDING PLATFORM CAN BE RETRACTED.
- RETRACT PLATFORM DECK BY PULLING SUPPORT CABLE.

HAYVILLE ENGINEERING CO. 6942

6572



7825



ART625
BM13845
06/27/97

FIG. 9-4 Decals

7522

CAUTION	
<p>INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY, THAT ALL NAME PLATE AND HAZARD SIGNS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.</p> <p>OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.</p>	
<p>FOR DRIVING ON ANY GRADE OR SIDE SLOPE:</p> <ul style="list-style-type: none"> ● PLATFORM MUST BE FULLY LOWERED. ● DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED. PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE. ● DO NOT DRIVE ON SIDE SLOPE IF OVER 5%. ● DO NOT DRIVE UP OR DOWN A GRADE OF OVER 25%. MACHINE MUST BE TOWED UP OR DOWN ANY GRADE EXCEEDING 25%. 	<p style="text-align: center;">OTHER HAZARDS</p> <ol style="list-style-type: none"> 1. DO NOT OVERLOAD. 2. DO NOT USE WITHOUT RAILINGS AND ENTRY GATE IN PLACE. 3. DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN. 4. DO NOT USE NEAR MOVING VEHICLES OR CRANES. 5. DO NOT STAND OR SIT ON GUARDRAILS. 6. DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. 7. DO NOT OVERRIDE SAFETY DEVICES. 8. DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH. 9. DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORK LIFT, OR OTHER DEVICE OR VEHICLE. 10. DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM. 11. DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.
<p>FOR DRIVING WITH PLATFORM ELEVATED.:</p> <ul style="list-style-type: none"> ● DRIVE ONLY ON A SMOOTH, FIRM, AND LEVEL SURFACE FREE OF OBSTRUCTIONS. ● DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD CAPACITY. ● LOAD MUST BE UNIFORMLY DISTRIBUTED. ● USE EXTREME CAUTION. 	
<p>IMPROPER OPERATION OF THIS MACHINE MAY CAUSE DEATH OR SERIOUS INJURY.</p> <p style="font-size: small; margin-top: 0;">MAYVILLE ENGINEERING CO. 7522</p>	

8519

WARNING
<ul style="list-style-type: none"> ● REPLACE TIRES WITH MANUFACTURER'S EQUIPMENT ONLY. ● FAILURE TO USE MANUFACTURER'S TIRES MAY CAUSE MACHINE INSTABILITY. ● REFER TO MAINTENANCE MANUAL FOR REPLACEMENT PART NUMBER. <p style="font-size: x-small; margin-top: 0; text-align: right;">MAYVILLE ENGINEERING CO. 8519</p>

6556

ART625
BM13845
06/27/97

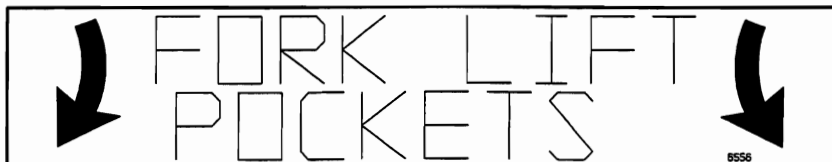
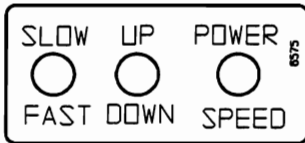


FIG. 9-4 Decals

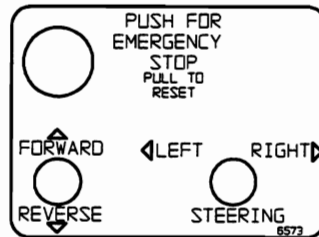
6557



6792



6573



6791



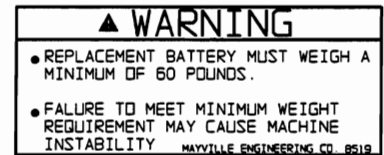
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6557



8520







7155



ART625
BM13845
06/27/97

FIG. 9-4 Decals

! DANGER

<p>YOU MUST NOT OPERATE THIS MACHINE:</p> <p>UNLESS YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS MACHINE.</p> <p>TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATING INSTRUCTIONS CONTAINED IN THE MANUFACTURERS MANUAL, YOUR EMPLOYERS WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.</p> <p>AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.</p> <p>ELECTROCUTION HAZARD THIS MACHINE IS NOT INSULATED</p> <p>MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.</p> <p>THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.</p> <p>YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THIS MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.</p> <p>DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE</p>	<p style="text-align: center;">TIP-OVER HAZARDS</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS.</p> </div> <div style="text-align: center;">  <p>DO NOT ELEVATE PLATFORM ON UNEVEN OR SOFT SURFACES. DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED.</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>DO NOT RAISE PLATFORM ON SLOPE, OR DRIVE ONTO SLOPE WHEN ELEVATED.</p> </div> <div style="text-align: center;">  <p>DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS.</p> </div> </div> <p>DEATH OR SERIOUS INJURY WILL RESULT FROM IMPROPER USE OF THIS EQUIPMENT</p> <p style="text-align: right; font-size: small;">MAYVILLE ENGINEERING CO. 7523</p>
---	---

7523

6872

GASOLINE

6872

! CAUTION

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY, THAT ALL NAME PLATE AND HAZARD SIGNS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.

OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.

FOR DRIVING ON ANY GRADE OR SIDE SLOPE:	OTHER HAZARDS
<ul style="list-style-type: none"> ● PLATFORM MUST BE FULLY LOWERED. ● DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED. PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE. ● DO NOT DRIVE ON SIDE SLOPE IF OVER 5%. ● DO NOT DRIVE UP OR DOWN A GRADE OF OVER 25%. MACHINE MUST BE TOWED UP OR DOWN ANY GRADE EXCEEDING 25%. 	<ol style="list-style-type: none"> 1. DO NOT OVERLOAD. 2. DO NOT USE WITHOUT RAILINGS AND ENTRY GATE IN PLACE. 3. DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN. 4. DO NOT USE NEAR MOVING VEHICLES OR CRANES. 5. DO NOT STAND OR SIT ON GUARDRAILS. 6. DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. 7. DO NOT OVERRIDE SAFETY DEVICES. 8. DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH. 9. DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORK LIFT, OR OTHER DEVICE OR VEHICLE. 10. DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM. 11. DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.

IMPROPER OPERATION OF THIS MACHINE MAY CAUSE DEATH OR SERIOUS INJURY.

MAYVILLE ENGINEERING CO. 7527

ART658
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06/27/97

7527

FIG. 9-4 Decals

▲ WARNING


L.P.G.

1. NO SMOKING - WHILE CHANGING TANKS.
2. "MOUNT TANKS PROPERLY" USING HOLES IN COLLAR FOR HORIZONTAL MOUNTING AND SLOT FOOTRINGS FOR VERTICAL MOUNTING TO INSURE FULL USAGE.
3. OPEN VALVE SLOWLY SO THAT HOSE AND TANK PRESSURE CAN EQUALIZE OR VALVE MAY SLUG.
4. CLOSE VALVE BEFORE DISCONNECTING AND USE LP FUEL STILL IN LINE.
5. FOR PROPER USE OF THE L.P. SYSTEM, THE USE OF FUEL MANUFACTURED TO NATURAL GAS PROCESSORS ASSN. SPECIFICATIONS - "HO-5" - IS RECOMMENDED

HAYVILLE ENGINEERING CO. 0048

6948

LOCATE CONTROL BOX HERE



7155 FOR NORMAL OPERATION OF THIS UNIT

7155

▲ CAUTION - FLAMMABLE LIQUIDS. WHEN SWITCHING FROM LP-GAS TO LIQUID FUEL, BE SURE THAT THERE IS NO SPILLAGE OF LIQUID FUEL FROM THE CARBURETOR FLOAT SYSTEM. ▲

**FUEL CHANGEOVER INSTRUCTIONS
DUAL FUEL SYSTEM**

1. SHUT OFF BOTH FUEL LINES COMPLETELY BY PLACING SWITCH IN THE OFF POSITION.
2. START WNGINE AND RUN UNTIL SYSTEM IS PURGED OF ALL FUEL AND STOPS.
3. TURN SWITCH TO DESIRED FUEL SELECTION, LPG OR GASOLINE.
4. START ENGINE AS USUAL.

6912

6912

▲ PULL EMERGENCY DOWN 6557

6557

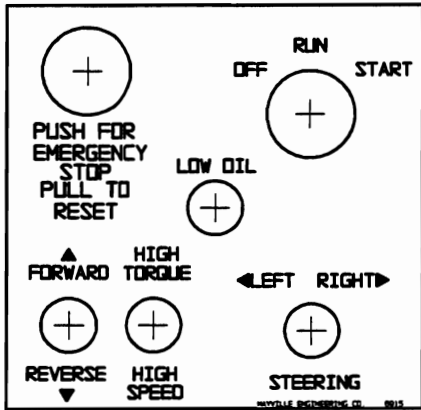
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BM14081
06/27/97

7685

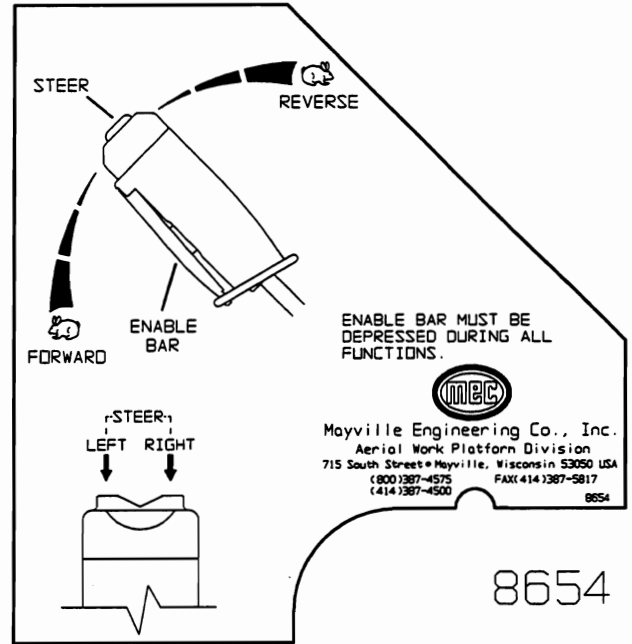
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BM14081
06/27/97

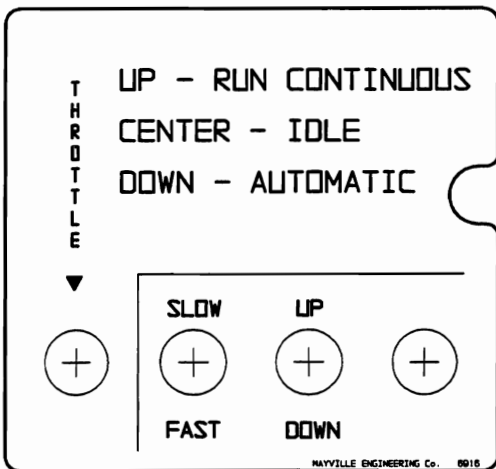
FIG. 9-4 Decals



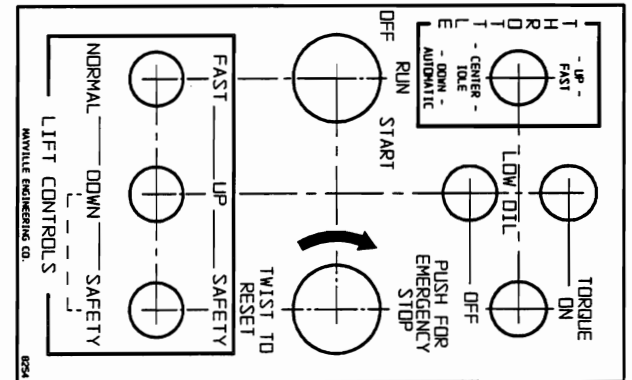
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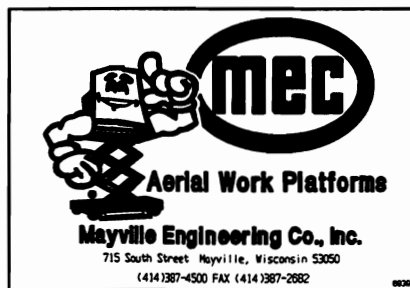


6916




8254

ART658
 BM14081
 06/27/97



6839

FIG. 9-4 Decals

LIFT PIN

 TO EXTEND
 PLATFORM 7157

7157

UP - CONTINUOUS
 CENTER - IDLE
 DOWN - AUTOMATIC

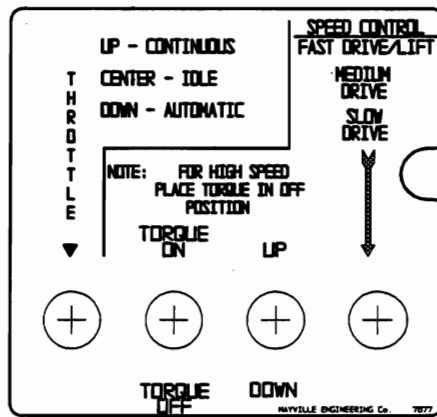
SPEED CONTROL
 FAST DRIVE/LIFT
 MEDIUM
 DRIVE
 SLOW
 DRIVE

NOTE: FOR HIGH SPEED
 PLACE TORQUE IN OFF
 POSITION




TORQUE ON LP

TORQUE OFF DOWN

MAYVILLE ENGINEERING CO. 7677



7677

ENGINE CONTROL		FUEL SELECTION
START	PLATFORM	GAS
		
STOP	BASE	LPG

MAYVILLE ENGINEERING CO. 6913

6913

ART658
 BM14081
 06/27/97

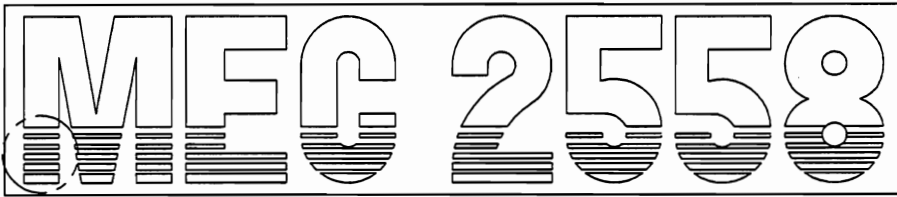
WARNING!

WARNING LIGHT ON
 INDICATES UNSAFE LEVEL
 CONDITION, LOWER PLATFORM
 AND REPOSITION MACHINE.

MAYVILLE ENGINEERING CO 7827

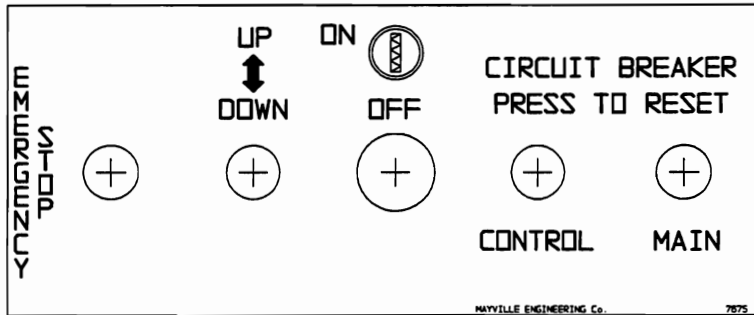
7827

FIG. 9-4 Decals

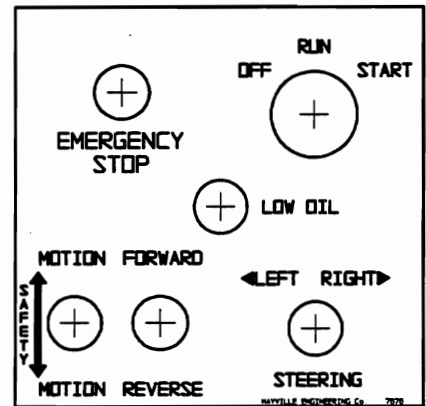


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8799 *



7675

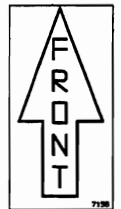


7676

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6873



7156

FIG. 9-4 Decals

▲ WARNING

- REPLACE TIRES WITH MANUFACTURER'S EQUIPMENT ONLY.
- FAILURE TO USE MANUFACTURER'S TIRES MAY CAUSE MACHINE INSTABILITY.
- REFER TO MAINTENANCE MANUAL FOR REPLACEMENT PART NUMBER.

MAYVILLE ENGINEERING CO. 8519

8519

**OPERATORS MANUAL
ENCLOSED**

7253

▲ WARNING

DO NOT USE EXTENDING PLATFORM WITHOUT RAILINGS FULLY EXTENDED

TO EXTEND PLATFORM

- LOWER THE PLATFORM DECK BY PUSHING PLATFORM FORWARD
- LIFT LOCK HANDLES AND PUSH RAIL ASSEMBLY FORWARD TO FULL EXTENSION.
NOTE: BE SURE RAILING IS LOCKED IN OUT POSITION.

TO RETRACT PLATFORM

- LIFT LOCK HANDLES AND PULL RAIL ASSEMBLY TO STOWED POSITION.
NOTE: RAIL ASSEMBLY MUST BE FULLY RETRACTED AND LOCKED BEFORE EXTENDING PLATFORM CAN BE RETRACTED.
- RETRACT PLATFORM DECK BY PULLING SUPPORT CABLE.

MAYVILLE ENGINEERING CO. 6842

6842

MAINTENANCE LOCK

6794

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↓ FORK LIFT POCKETS ↓

6556

▲ WARNING

- DO NOT OPERATE UNIT UNLESS QUALIFIED.
- COMBINED DISTRIBUTED PLATFORM CAPACITY 1250 LBS. OR 568 KGS. OR SIX (6) PERSONS MAX. EXTENDED PLATFORM 300 LBS. OR 136 KGS. MAX.
- DO NOT OPERATE ON INCLINE, UNEVEN OR UNSTABLE SURFACE.

SEE MANUAL FOR INSTRUCTIONS

MAYVILLE ENGINEERING CO. 6834

6834

FIG. 9-4 Decals

PART NO.	QTY.	DESCRIPTION
8795	2	DECAL, MODEL NUMBER-HITE 1948
8796	2	DECAL, MODEL# HITE 1948HT
8797	2	DECAL, MODEL NUMBER-HITE 2548
8798	2	DECAL, MODEL# HITE 2548HT
8793	2	DECAL, MODEL NUMBER-HITE 1958
8794	2	DECAL, MODEL# HITE 1958HT
8799	2	DECAL, MODEL NUMBER-HITE 2558
8800	2	DECAL, MODEL# HITE 2558HT
3932	Service	DECAL KIT
3933	Service	DECAL KIT 2107/2992 TB CONT
13559	Service	DECAL KIT 3797/3798 JYSTK CONT
3934	Service	DECAL KIT HTE ELEC WARN INFO
3935	Service	DECAL KIT HTE DF WARN & INFO
3939	Service	TOGGLE BOX KIT PRE 92 DF
13557	Service	DECAL KIT 3459 TB CONT D.F.
8099	3	DECAL - HM 1948 R/O
6835	3	DECAL, CAPACITY 1500#
8098	3	DECAL - HM 2548 R/O
6050	3	LABEL, OPERATORS, 1000-300#
6836	3	DECAL, CAPACITY 1750#
6834	3	DECAL, CAPACITY 1250#

FIG. 9-4 Decals

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.





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