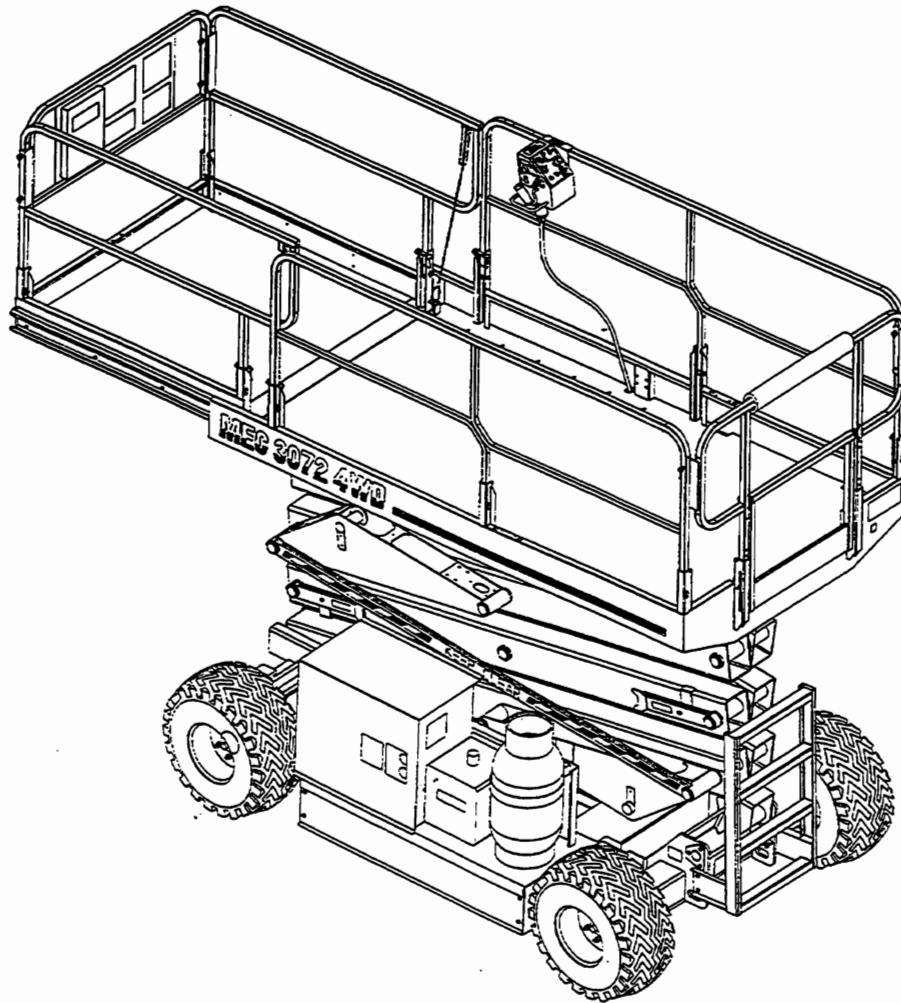


MEC 3072 4WD

Parts & Service Manual



#9241
REVISION 1
6/99

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 purchased 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.

Foreword

The purpose of this manual is to provide users with the operating procedures essential for the promotion of proper machine operation for its intended purpose. It is important to over stress proper machine usage. All information in this manual should be **READ** and **UNDERSTOOD** before any attempt is made to operate the machine. **YOUR OPERATING MANUAL IS YOUR MOST IMPORTANT TOOL** - keep it with the machine. **REMEMBER THAT ANY EQUIPMENT IS ONLY AS SAFE AS THE OPERATOR.**

BECAUSE THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION, PROPER SAFETY PRACTICES ARE THE RESPONSIBILITY OF THE USER AND ALL OPERATING PERSONNEL.

ALL INSTRUCTIONS IN THIS MANUAL ARE BASED ON THE USE OF THE MACHINE UNDER PROPER OPERATING CONDITIONS, WITH NO DEVIATION FROM THE ORIGINAL DESIGN. ANY ALTERATION AND/OR MODIFICATION OF THE MACHINE IS STRICTLY FORBIDDEN WITHOUT EXPRESS WRITTEN APPROVAL FROM MAYVILLE ENGINEERING COMPANY, INC.

All procedures herein are based on the use of the machine under proper operating conditions, with no deviations from original design intent as per ANSI regulations.

Read and Comply

The ownership, use, service and/or maintenance of this machine is subject to various federal, state and local laws and regulations. It is the responsibility of the owner/user to be knowledgeable of these laws and regulations and comply with them. The owner/user/operator must be familiar with Sections 6, 7, 8, 9 and 10 of ANSI A92.6 Standard. These sections contain the responsibilities of the owners, users, operators, lessors and lessees concerning safety, training, inspection, maintenance, application and operation.



Any modification of this machine without the express written consent of the manufacturer is prohibited. Do not replace any component or part with anything other than the original MEC replacement parts without the manufacturer's consent.

Fall Protection Notice

The **Guardrail** System around the perimeter of the platform is the **fall protection system** for self-propelled elevating work platforms per the American National Standards Institute ANSI/SIAA92.6 Standard. It is **prohibited** to use an Aerial Work Platform manufactured by Mayville Engineering Company, Inc. with any portion, or all, of the guardrails **removed**.

Lanyard anchorage points on this type of equipment are not required to conform to the applicable ANSI/SIA Standard.

However, if anchorage points for lanyard attachments are required by site authorities, or other regulations, the anchorage points on all equipment manufactured by Mayville Engineering Company, Inc. are recommended to be used for **work positioning restraints** of personnel only. Lanyard lengths are to be determined by operator/owner to restrict the operator to the confines within the **Guardrail System**.



Use of fall arrest systems attached to anchorage points on mobile equipment may cause machine to tip resulting in serious injury or death.



Failure to comply with safety precautions could result in death or serious injury.

Shut off all power, making the machine inoperative before making any adjustments, performing maintenance, or replacing components.

Platform should be in the fully stowed position if possible, or maintenance locks should be in place.

Hydraulic pressures should be relieved before loosening or replacing components.

Do not replace any component or part with anything other than original MEC replacement parts without the manufacturers consent.

Remove all rings, watches, and jewelry before performing any maintenance.

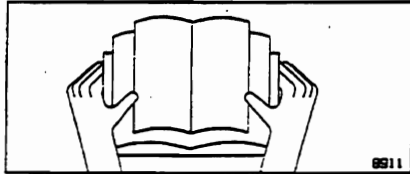
Restrain long hair, and do not wear loose clothing or neckties which could become caught or entangled in the equipment.

Observe and obey all warnings and cautions on machines and in manuals.

Keep oil, grease, water, etc. wiped from all standing surfaces and hand holds.

Use only approved, non flammable cleaning solvents.

Altering or disabling safety devices is strictly prohibited.



Equipment Literature

The machine is shipped with the following literature, which is inserted in the manual case located at the front rail of the platform.

Material Safety Data Sheet - #6535

3072 4WD Operating Safety and Maintenance Manual - #9240

ANSI/SIA Manual of Responsibilities - #7822

Dealer Pre-Delivery Inspection Form - #7197

Warranty Registration Card - #5524

EMI Safety Manual - #7004

Safety Instruction Sheet - #5615

Replacement literature and parts manuals can be ordered by contacting the factory. To help us serve you, please be prepared to provide the complete publication name and part number.

SAFETY



Following are definitions of labeling you might encounter on aerial platforms:

Caution - Yellow - Hazards or unsafe practices which could result in minor personal injury or product damage.

Warning - Orange - Hazards or unsafe practices which could result in severe personal injury or death.

Danger - Red - immediate hazards which **will** result in severe personal injury or death.

MEC designs its work platforms to be safe and reliable. They are rugged and maneuverable, but must be used only for purposes intended. **That is to raise personnel, tools, and necessary equipment to overhead work areas.** Respect your machine; **do not** neglect or misuse it.

Do not operate or maintain this machine until this manual is read and operation of the machine, under the supervision of an experienced and qualified operator, has been completed.

Qualified Operator - A person with knowledge, experience, or training that is familiar with the operation to be performed and the hazards involved.

Never take chances. Do not use the machine if your physical or mental capabilities are limited. Due to illness or tiredness, or if you are taking over the counter or prescription drugs that might impair or limit your capabilities.

Certain hazards cannot be protected by mechanical means. It is essential that operators be competent, careful, physically and mentally fit and thoroughly trained in the safe operation of this machine.

If an individual fails to understand any segment of this manual, his or her supervisor can clarify the misunderstanding through written correspondence or a phone call to:

Mayville Engineering Co., Inc.
Aerial Work Platforms
715 South Street
Mayville, WI 53050 USA
Phone: 920-387-4500
800-387-4575
Fax: 920-387-5817

It is **important** that Mayville Engineering be notified immediately of any incident involving a MEC product. Even if no injury or property damage is visible. Failure to notify the manufacturer of an incident involving a MEC product within 48 hours, may void any warranty consideration on that particular machine.



Do not perform installations, operate, service, replace, adjust, or maintain equipment on this machine until you have thoroughly read and understood all sections of the manual that apply to the job you are doing on this machine.

Failure to comply with all warnings posted on this machine and written in this manual could cause death, serious injury, or property damage.

SAFETY



Do not operate machine near power lines.

Do not allow machine, personnel, or conductive materials inside minimum safe approach distance. Allow for platform movement and wire sway or sag.

Assume all electrical parts and wires are energized unless known otherwise.

Keep it Safe !

Under **no** circumstances will any person on the ground attempt to operate the base controls when the machine is in contact with electrical wires .

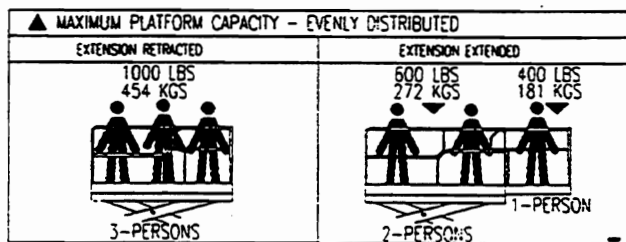
Voltage Range Phase to Phase Minimum Safe Approach Distance

	Feet	Meters
0 to 300V	AVOID CONTACT	
Over 300V to 50 KV	10	3.05
Over 50 KV to 200 KV	15	4.60
Over 200 KV to 350 KV	20	6.10
Over 350 KV to 500 KV	25	7.62
Over 500 KV to 750 KV	35	10.67
Over 750 KV to 1000 KV	45	13.72

Failure to meet minimum weight requirements may cause machine instability.

Replace tires with manufacturer's equipment only.

Do not exceed the load capacity of the platform.



Do not enter or exit platform while machine is in motion.

Keep platform floor clean and clear of debris.

Keep hands and limbs out of scissors.

Machine will move at less than 1 mph (1.6 kmh) when the platform is raised above approximately 10 feet (3.1m). Maximum ground speed with platform raised less than 10 feet (3.1m) is 1-2 mph (1.6-3.2 kmh).

MAINTENANCE



WARNING

**Keep machine clear
of lubricants and
other combustible
material.**

Maintenance Safety

Disconnect all power before maintaining machine.

Check that all controls are in the **off** position.

Secure machine from any movement.

Put platform in **fully stowed** position. If this is not possible use maintenance locks.

Relieve all hydraulic pressure before loosening or removing hydraulic components.

Replace all components with those that are equal or identical to the original.

Lubrication & Fluids

The aerial work platforms are almost lubrication free. Pivot points within the scissors include self-lubricating bearings. Other requirements:

Rails.....Sheet Gate Slide Area.....Light Grease.....Semi-annually

Scissors.....Platform Slides (1).....Light Grease.....Semi-annually

Base Slides (2).....Light Grease.....Semi-annually

Rear Axle.....Rear Hubs.....Bearing Grease.....Annually

Hydraulics.....Hydraulic Oil.....Standard 10W.....Annually
Non-Detergent
Hydraulic Oil

Hydraulic Oil Filter.....10 Micron.....Annually
Spin On
Oil Filter

MAINTENANCE

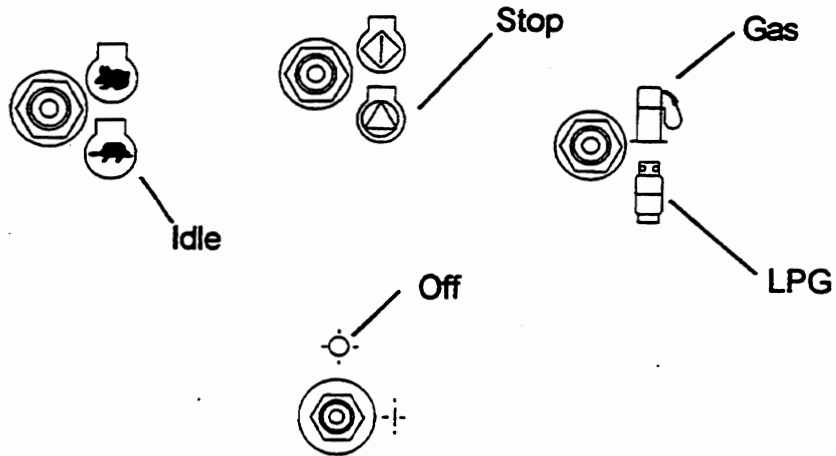


WARNING

FLAMMABLE LIQUIDS

Do not smoke or use other combustibles while changing LPG tanks.

Do not change tanks near flames or sparks. Escaping fumes could cause explosion if ignited by flame or spark.



Machine Shutdown

1. Lower the platform fully.
2. If the engine has been operating at high speed, allow it to idle for a few minutes. The engine temperature will drop and equalize throughout the engine block.
3. Shut off the engine by placing the START/RUN/STOP selector in the STOP position.
4. Shut off the master keyswitch and remove key.



WARNING



Do not powerwash or spray electronic components or connectors. Moisture may cause damage and/or erratic operation.

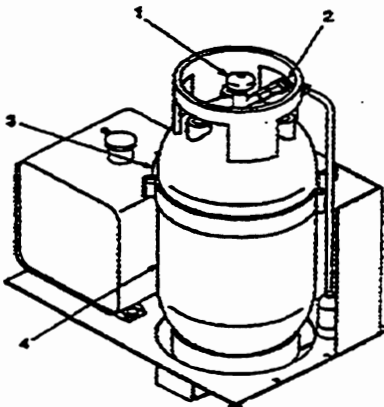
MAINTENANCE

WARNING

Before disconnecting any line or component in the LPG fuel system, make sure that all the fuel trapped between the tank and the engine has been used up. To insure this, close the shut-off valve on the LPG tank and then start the engine on LPG. Allow the engine to run until the trapped fuel has been used up and the engine stops. The trapped fuel is under pressure, and opening any connection in the system will allow gas to escape at high speed. The escaping gas can cause severe eye injury, or can propel a fitting or hose at a speed fast enough to cause bodily injury. Use extreme care when performing maintenance work on the LPG system.

Changing LPG Tank

The replacement tank must contain fuel manufactured to Natural Gas Processors Association Specification HD-5. No other LPG fuel is recommended for use in this engine.



1. Close shut off valve on top of fuel tank.
2. Start engine on LPG fuel and run until engine stops. Purging the fuel lines.
3. Disconnect fuel hose fitting from tank valve.
4. Release tank strap latches and carefully lift tank from its bracket.
5. Position new tank so that valve outlet aligns with fuel hose fitting.
6. Connect fuel hose fitting to tank valve.
7. Secure tank strap latches.
8. Connect fuel line to fuel shut off valve on tank.
9. Use soapy water to check fuel line for leaks. Check connections for leaks. Repair leaks immediately.

MAINTENANCE



WARNING

Never inspect hydraulic hoses with hands. Escaping fluids can cause serious injury. Use a piece of cardboard or other material to inspect for leaks. Escaping fluid under pressure can be invisible and penetrate the skin, causing serious injury.

If any fluid is injected into the skin, seek medical attention immediately.

Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before re-applying pressure. Keep line connections tight but not to the point of distortion.

Hydraulic System Bleeding

The hydraulic system is self-bleeding. After the system has been drained, such as during the replacement of a hydraulic component, move the machine up and down for six cycles and recheck the reservoir fluid level between each cycle. Fill to a point 2 inches (5.1 cm) below top of tank.

Hydraulic Pump/Motor Servicing

The brushes and commutator should be checked every six months and replaced if necessary $\frac{1}{4}$ " minimum length on brushes.

Time spans vary depending on how the machine is used.

Check and Fill Hydraulic Reservoir

1. Lower platform to **fully stowed** position.
2. Remove filler cap by turning to the left.
3. Check hydraulic fluid level. Fluid should be 2 inches (5.1 cm) from the top of the tank. Add fluid as necessary.
4. Replace filler cap.
5. Keep fluid clean during storage and use.

Oil Filter Replacement

The spin-on oil filter in the hydraulic system should be changed yearly.

Replace with filter part number: **6156 only**.

MAINTENANCE



WARNING

Never set the operating pressure of any component higher than recommended.

Setting pressures higher than recommended could damage hoses and other hydraulic components and result in death, personal injury or property damage.

Lift Pressure Relief

Connect pressure gauge (0-3500 PSI) with female quick disconnect to primary test port and elevate platform to full extension. Hold switch to UP position until an accurate reading results on the gauge.

If adjustment is needed, set pressure to proper setting provided in the Operation, Safety & Maintenance manual. Also, refer to the hydraulic schematics and manifolds for more information.

Loosen lock nut on relief valve. Turn the adjustment screw **in** to increase the pressure and **out** to decrease the pressure. When set, tighten the lock nut and retest.

Steering Pressure Relief

Plumb a pressure gauge capable of 3000 PSI into the primary test port and energize the steering to full left. Hold switch long enough until an accurate reading results on the gauge.

If adjustment is needed, set pressure to proper setting provided in the Operation, Safety & Maintenance manual. Also, refer to the hydraulic schematics and manifolds for more information.

Loosen lock nut on steering relief valve and turn the adjustment screw **in** to increase the pressure and **out** to decrease the pressure. When set, tighten the lock nut and retest.

Counter Balance Valve

Install pressure gauge at test port. Remove forward wire #11 from both forward coils. Activate **forward** drive and observe reading.

If adjustment is needed, set pressure to proper setting provided in the Operation, Safety & Maintenance manual. Also, refer to the hydraulic schematics and manifolds for more information.

Loosen lock nut and turn the screw **in** to increase the pressure and **out** to decrease the pressure. When set, tighten the lock nut and retest.

Down Flow Control

The down flow control is adjusted by loosening the lock nut and turning the adjustment bolt **in** to increase the descent speed of the platform and **out** to decrease the descent speed. The descent speed is listed in the Operation, Safety & Maintenance manual.

MAINTENANCE

▲ WARNING

- "HOLDING BRAKE RELEASE" TO BE USED ONLY FOR MANUAL TOWING OR WHEN MAIN SYSTEM IS OUT OF SERVICE.

OPERATING THIS MACHINE WITH BRAKES RELEASED WILL CAUSE LOSS OF CONTROL WHEN DRIVING & PARKING ON INCLINE.

- BEFORE RETURNING MACHINE TO SERVICE INSURE BRAKE SYSTEM IS EMPLOYED.
- CHECK BRAKING FUNCTIONS PER SERVICE MANUAL.



Drive/Speed Limit Switch

Raise platform to approximately 10 feet. Switch can be adjusted in or out at this point. When platform reaches this height slow speed bypass valve will be de-energized, allowing machine to travel in slow speed only.

Automatic Parking Brake

The Automatic Parking Brake is a spring actuated, normally ON system. The brake is released during the drive cycle by hydraulic pressure built up in the drive circuit. A brake valve is used to maintain release during drive. When finished driving, an orifice is employed to control the braking function during deceleration.

To Manually Lock Out Brakes

Turn thumbscrew **clockwise** until completely closed. Pump upper plunger until it has built up pressure and stops.

To Release Locked Out Brakes

Turn thumbscrew **counter clockwise** until fully open. The machine is in normal Drive/Lift mode with the thumbscrew in this position.

Braking Function

Check thumbscrew on rear of manifold to see that it is in fully open position to ensure normal drive/lift operation. Check braking capabilities on a level surface before checking its capabilities on an uphill incline. This incline must be no more than the machine is capable of climbing. Gradeability information can be found in the Operation, Safety & Maintenance manual. This braking system is a parking brake not a friction brake system.

Bleeding Brakes

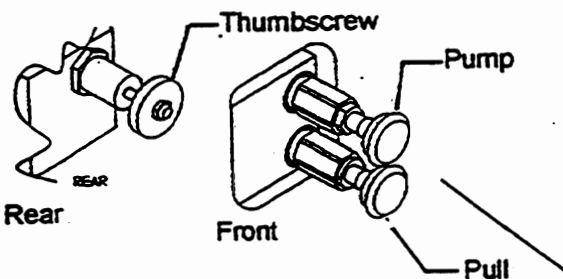
- Remove plug next to brake line.
- Close thumbscrew on Emergency Down manifold.
- Pump system by using plunger on manifold.
- Hand pump until system is free of air.
- Replace plug and open thumbscrew returning unit to normal drive/lift mode.

Note

If brakes require servicing, refer to dealer.

Bleeding Emergency Down System

To bleed Emergency Down Hydraulic System, loosen hose at lift cylinder and pump manifold until system is free of air. Replace hose.



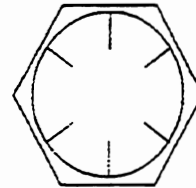
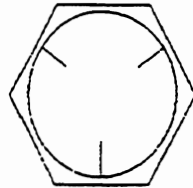
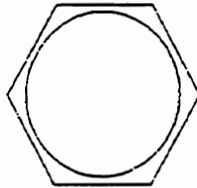
! WARNING

Bleeding brakes requires that brakes be inoperable while in drive mode.

Only perform this procedure on a level surface with enough clearance in front of machine so it will roll to a stop or with a barrier to stop the unit.

MAINTENANCE

Bolt Torque



Bolts	Grade 2	Grade 5	Grade 8
1/4" - 20	49 in lbs. (5.5 NM)	76 in lbs. (8.6 NM)	9 ft lbs. (12 NM)
5/16" - 18	8 ft lbs. (11 NM)	3 ft lbs. (18 NM)	18 ft lbs. (24 NM)
3/8" - 16	15 ft lbs. (20 NM)	23 ft lbs. (31 NM)	33 ft lbs. (45 NM)
7/16" - 14	24 ft lbs. (33 NM)	37 ft lbs. (50 NM)	52 ft lbs. (70 NM)
1/2" - 13	37 ft lbs. (50 NM)	57 ft lbs. (77 NM)	80 ft lbs. (109 NM)

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

Note:

**Any bolt replacement should be of the same grade or greater than the original bolt.
Any questions, call the factory for verification.**

Control Boxes

TROUBLESHOOTING



WARNING

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

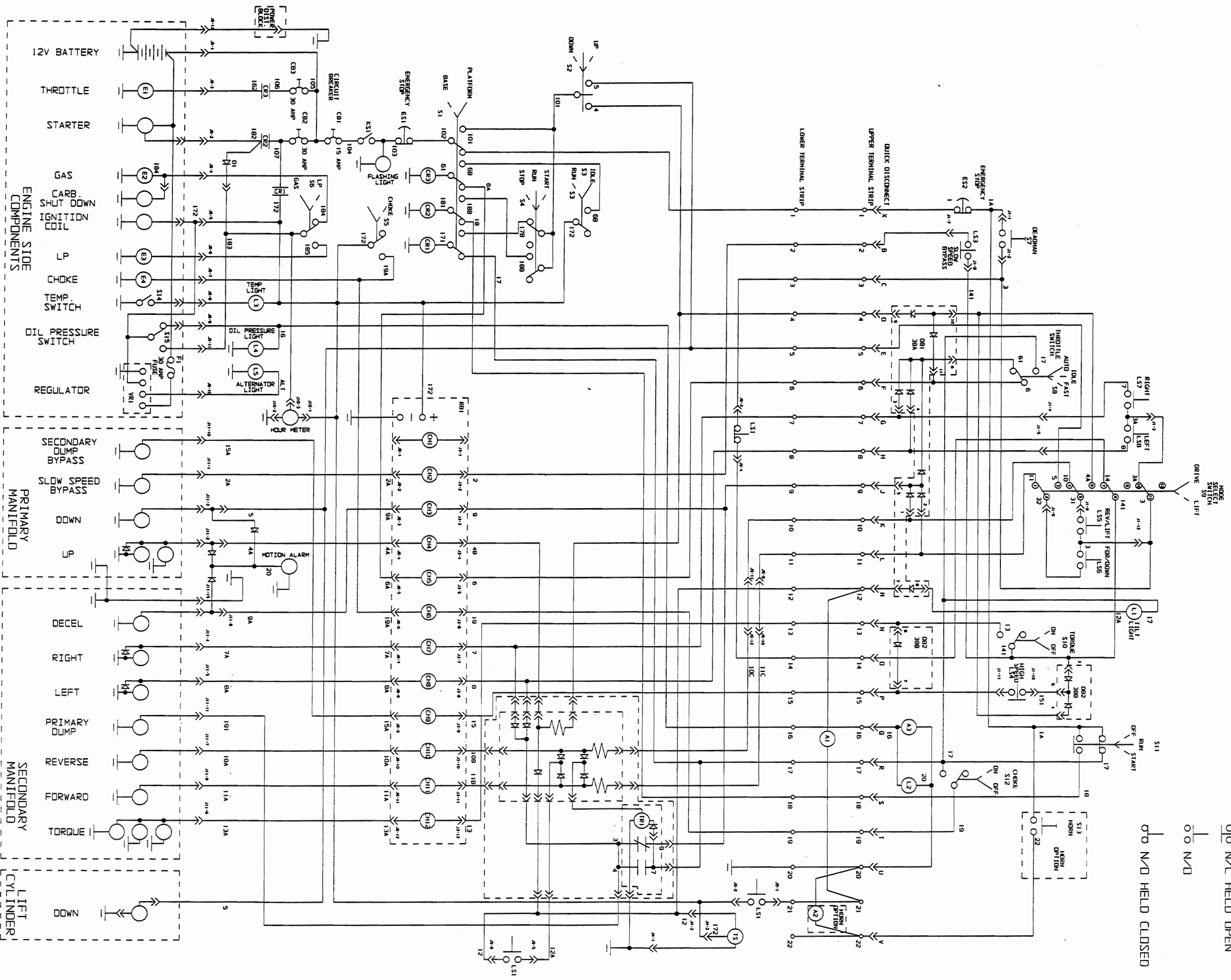
**Working through beams
creates a hazardous
situation which could
cause death or personal
injury.**

Service Helps

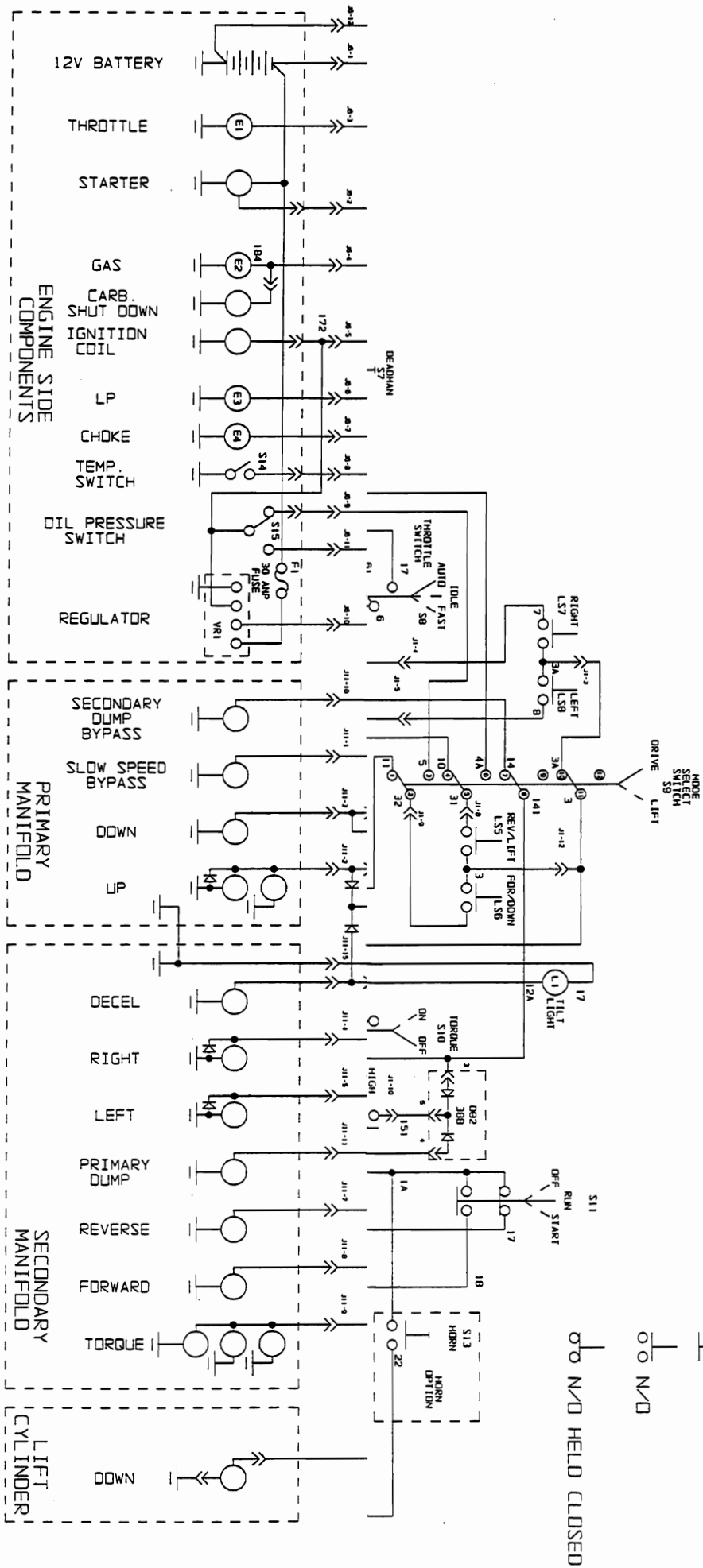
If machine is not functioning, check the following items **BEFORE** calling a service technician:

1. Base control switch is not in base position on control panel.
2. Circuit breaker needs to be reset.
3. Emergency stop switch is activated. (Either on lower control panel or upper control box.) to reset turn red cap approximately a quarter turn clockwise until the cap pops out.

3072 4WD ELECTRICAL SCHEMATIC



3072 4WD ELECTRICAL SCHEMATIC



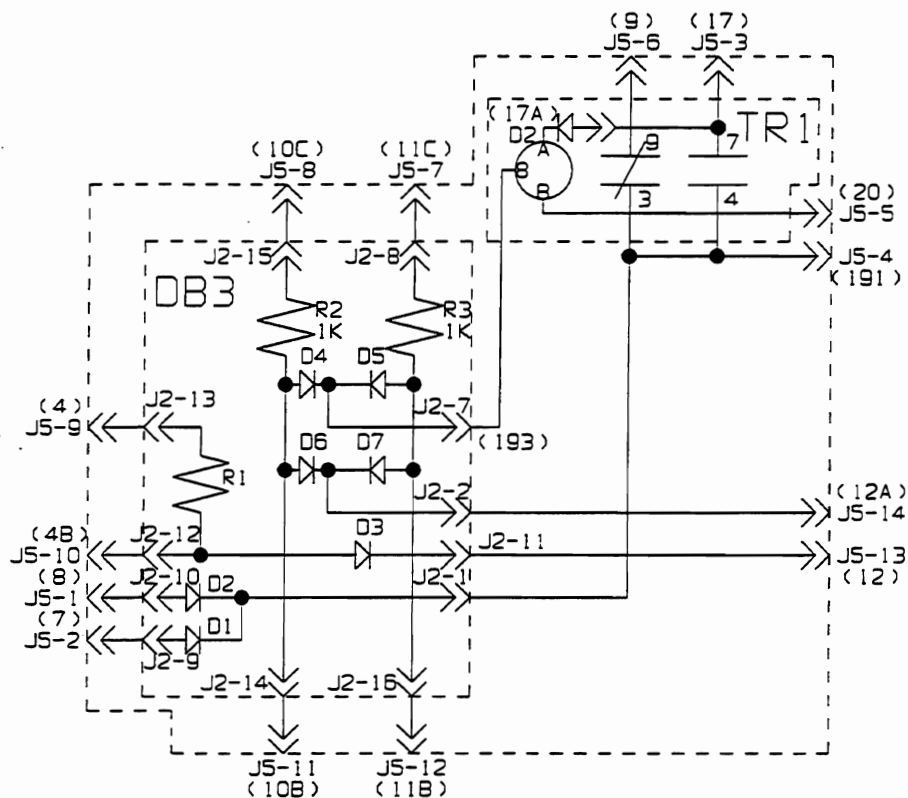
olo N/C

olo N/C HELD OPEN

olo N/C

olo N/D HELD CLOSED

THE J5 CONNECTOR CONNECTS THE MAIN WIRE HARNESS
TO THE DIODE BOARD (9193) THROUGH THE J2 CONNECTOR
AND 12V ONE SEC TIME DELAY (9208) WITH .250 FEMALE PUSHINS



1. LS1 TO BE SET AT SPECIFIED HEIGHT.
2. LS2 TO BE SET AT SPECIFIED HEIGHT.
3. S1 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE PLATFORM POSITION.
4. S2 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS HELD IN THE UP POSITION.
5. S3 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE PLATFORM POSITION.
6. S4 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN STOP POSITION, MAKES CONTACT TO THE LEFT WHEN HELD IN THE START POSITION, MAKES CONTACT TO OPPOSITES DIRECTION WHEN PLACED IN THE RUN POSITION.
7. S5 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS HELD IN THE CHOKE ON POSITION.
8. S6 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE LP POSITION.
9. S8 MAKES CONTACT TO THE LOWER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE AUTO POSITION, DOES NOT MAKE CONTACT WHEN PLACED IN THE IOLE POSITION.
10. S9 MAKES CONTACT TO THE LOWER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE DRIVE POSITION.
11. S10 MAKE CONTACT TO THE UPPER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE TORQUE OFF POSITION.
12. S11 BREAKS CONTACT TO THE UPPER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN OFF POSITION, MAKES CONTACT TO THE UPPER WHEN PLACED IN THE RUN POSITION, MAKES CONTACT TO BOTH WHEN PLACED IN THE START POSITION.

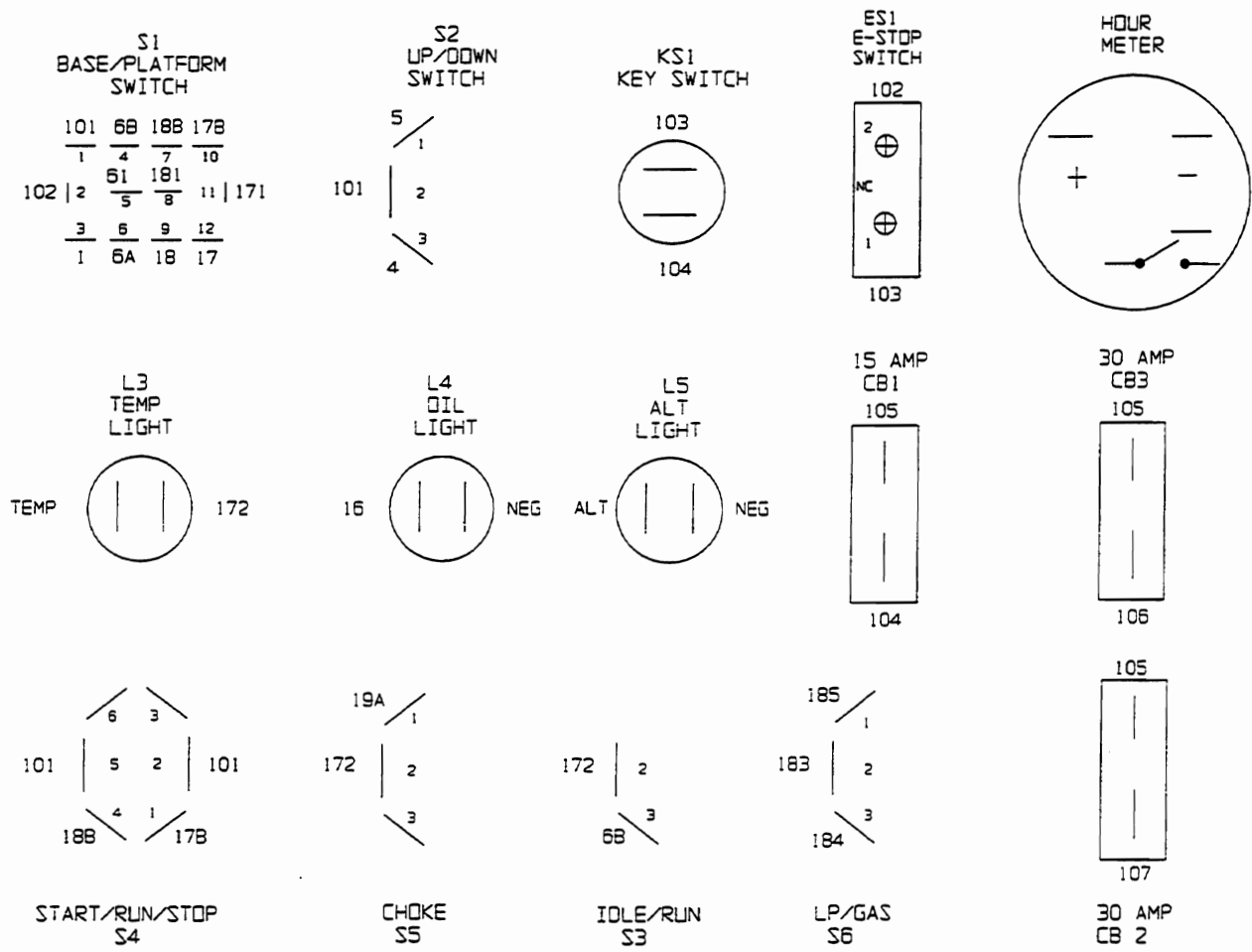
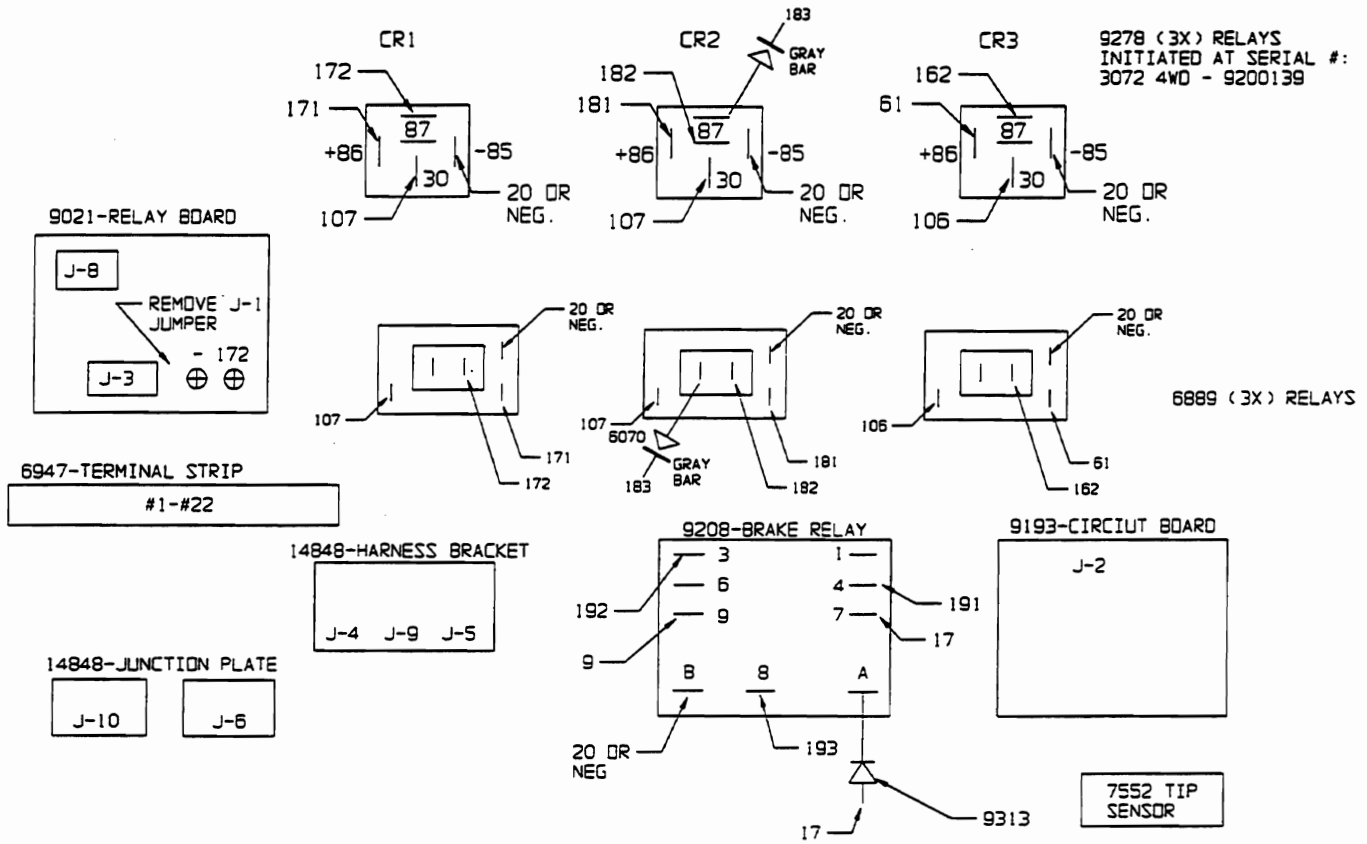
ITEM	PART NO.	QTY.	DESCRIPTION	FUNCTION	LOCATION
A1	7435	1	12V WARNING ALARM	TO WARN WHEN MACHINE HAS PASSED 4.5 DEG ABOVE 10 FEET	UNDER RIGHT SIDE OF PLATFORM
A2	14839	1	HORN OPTION PARTS	TO BEEP WHEN THE HORN SWITCH IS DEPRESSED	UNDER RIGHT SIDE OF PLATFORM
A3	9173	1	Buzzer, 10-48 VOLT DC	TO INFORM OPERATOR OIL PRESSURE IS LOW	ON CONTROL BOX
B1	6854	1	BATTERY, 12 VOLT STARTING	SUPPLY POWER	IN ENGINE CABINET ABOVE PUMP
C1	7235	1	CIRCUIT BREAKER-15 AMP MANUAL	TO FUSE CONTROL CIRCUITRY	LOWER CONTROL PANEL
C2	7447	1	CIRCUIT BREAKER-30 AMP MANUAL	TO FUSE STARTER AND BASE POWER	LOWER CONTROL PANEL
C3	7447	1	CIRCUIT BREAKER-30 AMP MANUAL	TO FUSE THROTTLE SOLENOID	LOWER CONTROL PANEL
CRI	6889	1	POWER RELAY 12 VOLT DC 25 AMP	TO TURN ON BASE POWER	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
CR2	6889	1	POWER RELAY 12 VOLT DC 25 AMP	TO TURN ON STARTER	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
CR3	6889	1	POWER RELAY 12 VOLT DC 25 AMP	TO TURN ON THROTTLE	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
D1	6070	1	DIODE ASSEMBLY	ALLOW POWER UP OF THE FUEL SELECTED DURING START UP MODE	FROM POWER RELAY CR2 TO WIRE 183
D2	9313	1	DIODE ASSEMBLY	X	X
DB1	7451	1	CIRCUIT BOARD - CONTROL BOX	THROTTLE UP DURING DRIVE / LIFT / STEER FLUCTUATIONS	INSIDE CONTROL BOX
DB2	7451	1	CIRCUIT BOARD - CONTROL BOX	TO ALLOW USE OF THE HIGH SPEED SWITCH	INSIDE CONTROL BOX
DB3	9193	1	CIRCUIT BOARD	PICK UP DRIVE / LIFT SIGNALS FOR TIP CUT-OUT AND BRAKES	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
E1	7398	1	SOLENOID, ENGINE SPEED	TO BRING ENGINE SPEED UP	BACK OF MOTOR NEAR AIR CLEANER
E2	X	1	FUEL PUMP KAWASAKI	PUMP GASOLINE TO CARB	BACK LOWER WALL ENGINE CABINET
E3	6867	1	LP LOCKOFF VALVE	CUT-OFF LP BEFORE CARB	LEFT TOP OF MOTOR
E4	7397	1	SOLENOID, CHOKE	TO PULL IN CHOKE ON CARB.	FRONT TOP OF MOTOR UNDER AIR CLEANER
ES1	7800	1	SWITCH STOP, ASSEMBLY	STOP POWER TO BASE CONTROLS	LOWER CONTROL PANEL
ES2	7800	1	SWITCH STOP, ASSEMBLY	STOP POWER TO CONTROL BOX CONTROLS	INSIDE CONTROL BOX
F1	X	1	FUSE, 30AMP AGC	TO FUSE CHARGING CIRCUIT	RIGHT LOWER SIDE OF MOTOR
KS1	5936	1	SWITCH-KEY	TO LOCK OUT POWER TO MACHINE CONTROLS	LOWER CONTROL PANEL
L1	9188	1	LIGHT, DAY/NET	TO WARN WHEN MACHINE HAS PASSED 4.5 DEG	INSIDE CONTROL BOX
L2	9188	1	LIGHT, DAY/NET	TO INFORM OPERATOR OIL PRESSURE IS LOW	INSIDE CONTROL BOX
L3	6906	1	INDICATOR LIGHT	TO INFORM THAT ENGINE TEMP. IS TOO HOT	LOWER CONTROL PANEL
L4	6906	1	INDICATOR LIGHT	TO INFORM THAT OIL PRESSURE IS LOW	LOWER CONTROL PANEL
L5	6906	1	INDICATOR LIGHT	TO INFORM THAT ALTERNATOR IS NOT FUNCTIONING CORRECTLY	LOWER CONTROL PANEL
LS1	8932	1	SWITCH, LIMIT MICRO - V7	ACTIVATE SLOW SPEED, AND TILT SENSOR CIRCUIT	REAR OF MACHINE AT BEAM BASE ATTACHMENT
LS3	8696	1	SWITCH, LIMIT MICRO - V7	ACTIVATE THE SLOW SPEED BYPASS VALVE	INSIDE CONTROL BOX
LS4	8696	1	SWITCH, LIMIT MICRO - V7	ACTIVATE THE SECONDARY DUMP BYPASS VALVE	INSIDE CONTROL BOX
LS5	8696	1	SWITCH, LIMIT MICRO - V7	ACTIVATE THE REVERSE OR LIFT VALVE	INSIDE CONTROL BOX
LS6	8696	1	SWITCH, LIMIT MICRO - V7	ACTIVATE THE FORWARD OR DOWN VALVE	INSIDE CONTROL BOX
LS7	8448	1	SWITCH V3 P-Q	ACTIVATE THE RIGHT VALVE	INSIDE CONTROL BOX
LS8	8448	1	SWITCH V3 P-Q	ACTIVATE THE LEFT VALVE	INSIDE CONTROL BOX
RB1	9021	1	RELAY BOARD 2, SOLID STATE	SUPPLY THE COILS WITH POWER AFTER RECEIVING A FUNCTION SIGNAL	BACK LEFT WALL OF ELECTRICAL CABINET
S1	8638	1	SWITCH, TOGGLE 4 POLE 2 POS.	TO SELECT BASE OR PLATFORM CONTROLS	LOWER CONTROL PANEL
S2	5894	1	SWITCH, TOGGLE	TO SELECT LIFT OR LOWER AT THE BASE CONTROLS	LOWER CONTROL PANEL
S3	5830	1	SWITCH, TOGGLE	TO SELECT IDLE OR RUN AT THE BASE CONTROLS	LOWER CONTROL PANEL
S4	9149	1	SWITCH, TOGGLE 2 POLE 3 POS.	TO SELECT STOP / RUN / OR STOP AT THE BASE CONTROLS	LOWER CONTROL PANEL
S5	7423	1	SWITCH, TOGGLE 1 POLE 2 POS.	TO CHUKE THE MOTOR AT THE BASE CONTROLS	LOWER CONTROL PANEL
S6	6234	1	SWITCH, TOGGLE 1 POLE 2 POS.	TO SELECT LP OR GAS AT THE BASE CONTROLS	LOWER CONTROL PANEL
S7	8753	1	SWITCH, MOTION	TO ALLOW OTHER CONTROLS TO BE USED AT THE PLATFORM CONTROLS	INSIDE HANDLE ASSEMBLY AT CONTROL BOX
S8	6805	1	SWITCH, TOGGLE	TO SELECT IDLE / RUN / OR AUTO AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
S9	8638	1	SWITCH, TOGGLE 4 POLE 2 POS.	TO SELECT LIFT OR DRIVE AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
S10	5830	1	SWITCH, TOGGLE	TO SELECT TORQUE AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
S11	8075, 8076	1	SWITCH, START STOP W/ CONTACTS	TO SELECT STOP / RUN / OR STOP AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
S12	7423	1	SWITCH, TOGGLE 1 POLE 2 POS.	TO CHUKE THE MOTOR AT THE PLATFORM POSITION	INSIDE CONTROL BOX
S13	8044	1	SWITCH, HORN	TO ACTIVATE THE HORN AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
S14	X	1	SWITCH, TEMP. KAWASAKI	TO ACTIVATE WHEN TEMP IS HOT	LEFT SIDE OF MOTOR
S15	6887	1	SWITCH, OIL PRESSURE	TO ACTIVATE WHEN OIL PRESSURE IS LOW	RIGHT SIDE OF MOTOR
TS1	7552	1	12VOLT 4.5 DEG TILT SENSOR	ACTIVATE AT 4.5 DEG.	BACK LOWER RIGHT WALL OF ELEC. CABINET
TR1	9208	1	RELAY, 12V ONDELAY 1 SEC. TIMER	TO ACTIVATE AND HOLD THE BRAKES	BACK RIGHT WALL OF ELECTRICAL CABINET
VR1	X	1	REGULATOR, VOLTAGE KAWASAKI	TO RECHARGE THE BATTERY	NEAR RADIATOR AT FRONT OF MOTOR CABINET
X	X	1	X	X	X

ART142 R3
BM16067
7/27/98

WIRE HARNESS ASSEMBLIES AND CABLES

0159	COVER ASSEMBLY WIRE HARNESS
0210	CONTROL BOX ASSEMBLY WIRE HARNESS
9215	3072 MAIN WIRE HARNESS ASSEMBLY
9211	18 GA 25 COND. CABLE ASSEMBLY
9158	UPPER CONTROL CDRD CABLE ASSEMBLY
9214	DOWN CABLE ASSEMBLY
9209	ENGINE WIRE HARNESS
9212	LIMIT SWITCH CABLE ASSY.
9213	DIODE BOARD / BRAKE WIRE HARNESS
9269	MANIFOLD HARNESS
9304	HARNESS, MOTION ALARM

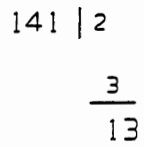
9278 (3X) RELAYS
INITIATED AT SERIAL #: 3072 4WD - 9200139



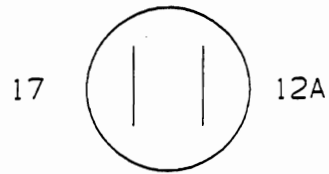
3072 4WD LOWER CONTROL PANEL
VIEW FROM BACK OF SWITCHES

ART759 R2
BM16647
7/27/98

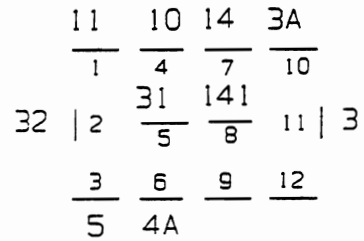
TORQUE



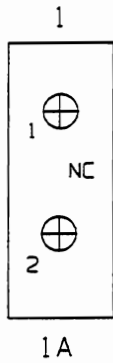
TIP LIGHT



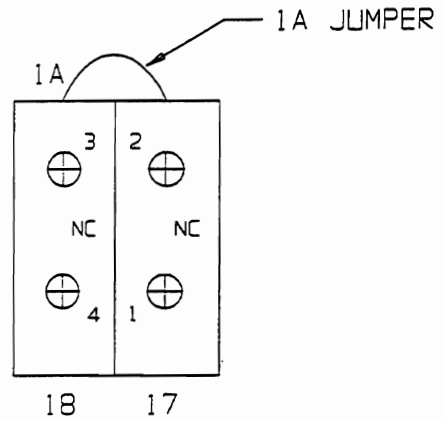
LIFT/DRIVE



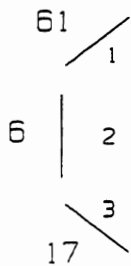
E-STOP



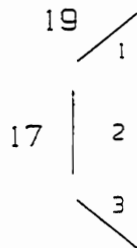
START/RUN/STOP



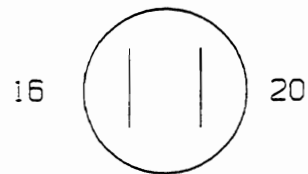
THROTTLE



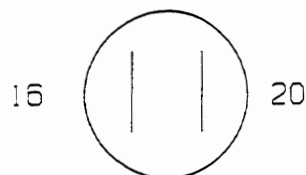
CHOKE



OIL LIGHT

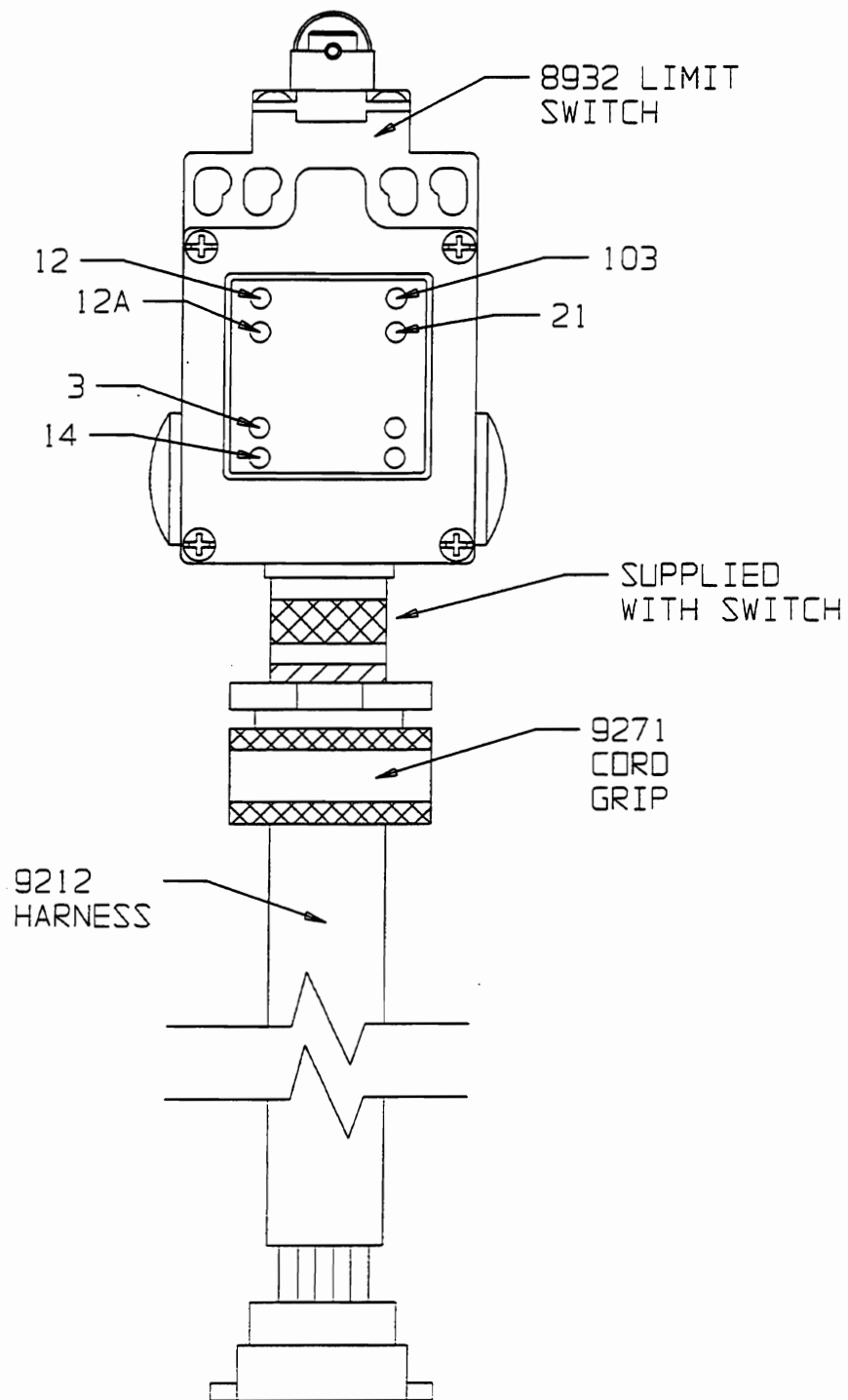


BUZZER

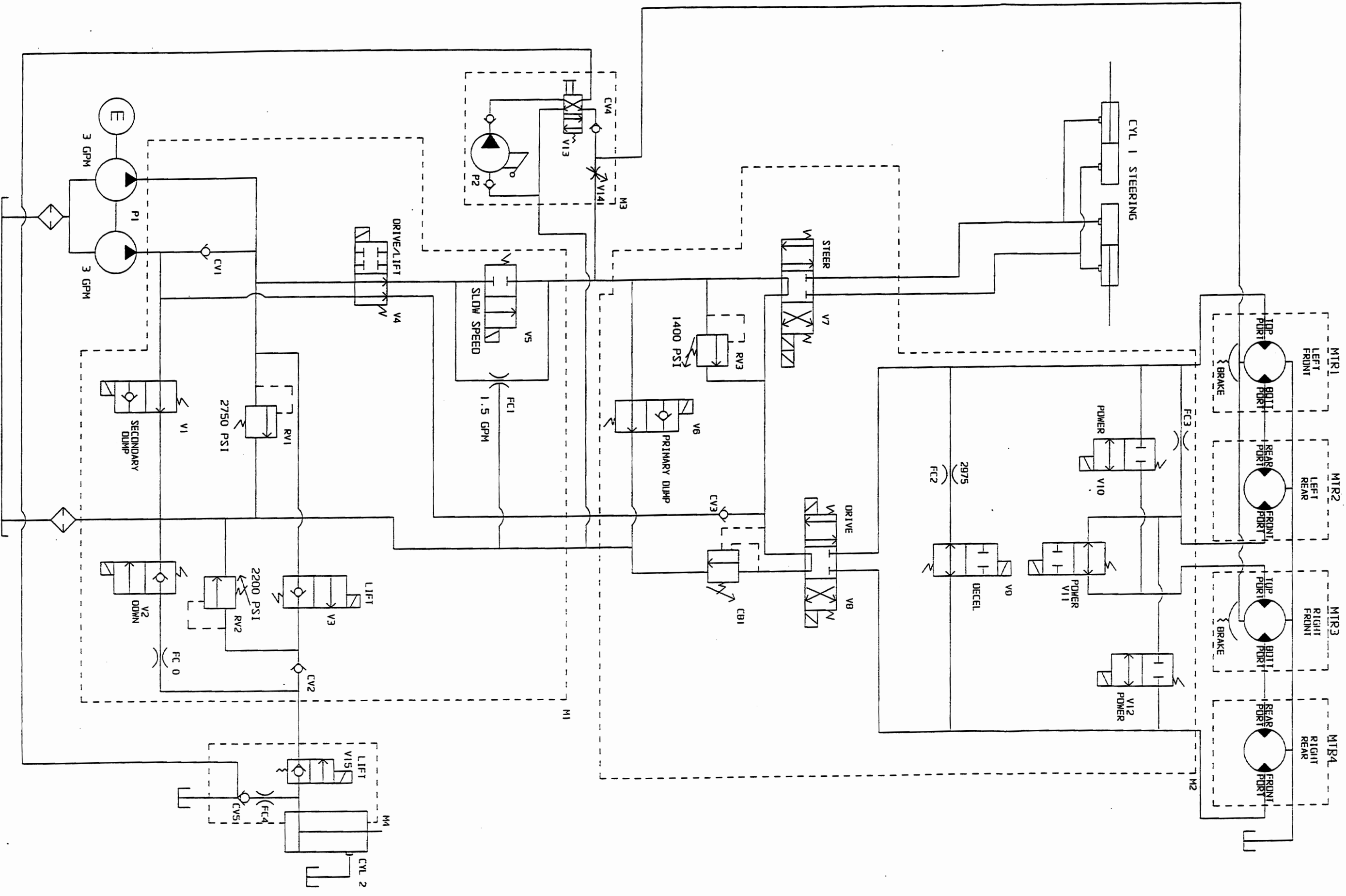


3072 4WD CONTROL BOX
VIEW FROM BACK OF SWITCHES

ART759 R2
BM16647
7/27/98

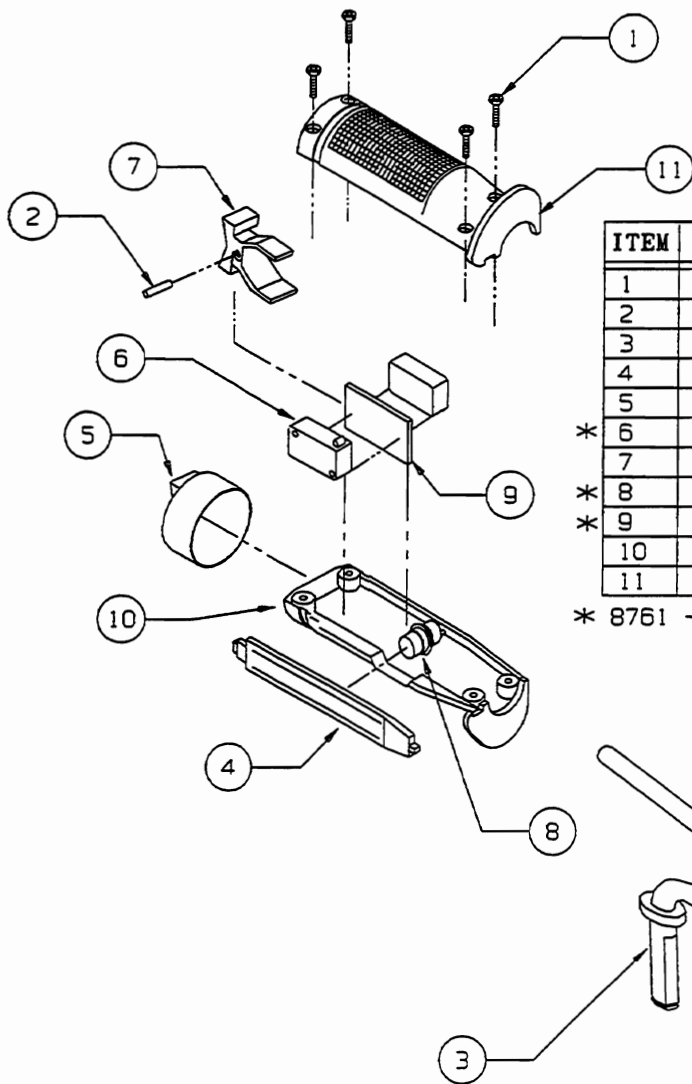


14943 - LIMIT SWITCH
ASSEMBLY



ITEM	PART #	WIRE #	DESCRIPTION
P1	6855		HYD PUMP-
MTR1	8843		HYD. WHEELMOTOR #46 W/BRAKE
MTR2	7300		HYD WHEEL MOTOR 45 3/IN
MTR3	8843		HYD. WHEELMOTOR #46 W/BRAKE
MTR4	7300		HYD WHEEL MOTOR 46 3/IN
CYL1	10329		STEERING CYLINDER ASSY
CYL2	8809		CYLINDER 3068
M1	14958		PRIMARY MANIFOLD
CV1	5434		VALVE,CHECK-IN LINE
CV2	5434		VALVE,CHECK-IN LINE
FC0	10915		METERING PLUG
FC1	8931		VALVE, PRIORITY FLOW 1.5 GPM
RV1	8490		VALVE PRESSURE RELIEF 4000 PSI
RV2	8490		VALVE PRESSURE RELIEF 4000 PSI
V1	6974	15A	VALVE NO POPPET 2/W
V2	6973	5A	VALVE N.C. POPPET 2 WAY
V3	6973	4A	VALVE N.C. POPPET 2 WAY
V4	9291, 9302	4A	VALVE, 4WAY, 2POS DELTA
V5	7151	2A	VALVE 2 WAY N.C. SPOOL
M2	14957		SECONDARY MANIFOLD
CB1	6712		COUNTER BALANCE VALVE
CV3	5434		VALVE,CH
RV3	9264		VALVE, PRESSURE RELIEF 1500PSI
V6	6974	191	VALVE NO POPPET 2/W
V7	9041	7A/8A	VALVE, 4 WAY, 3 POSITION
V8	9290	10A/11A	VALVE, DO1, 4WAY, 3 POS
V9	6975	9A	VALVE N.O. SPOOL 2 WAY
V10	7151	13A	VALVE 2 WAY N.C. SPOOL
V11	6975	13A	VALVE N.O. SPOOL 2 WAY
V12	7151	13A	VALVE 2 WAY N.C. SPOOL
M3	14510		MANIFOLD EMERGENCY DOWN
CV4	5434		VALVE, CHECK-IN LINE
V13	8848		VALVE, MANUAL PULL 4-WAY
V14	8855		VALVE, MANUAL ADJ FLOW CONTROL
P2	8849		VALVE, HYD. HAND PUMP
M4	14523		MANIFOLD LIFT CYLINDER
CV5	7445		VALVE, PILOT OPER. BALL CHECK
FC4			DRILLED ORFICE, NON SERVICEABLE
V15	6973	5A	VALVE N.C. POPPET 2 WAY

ASSEMBLY 13647



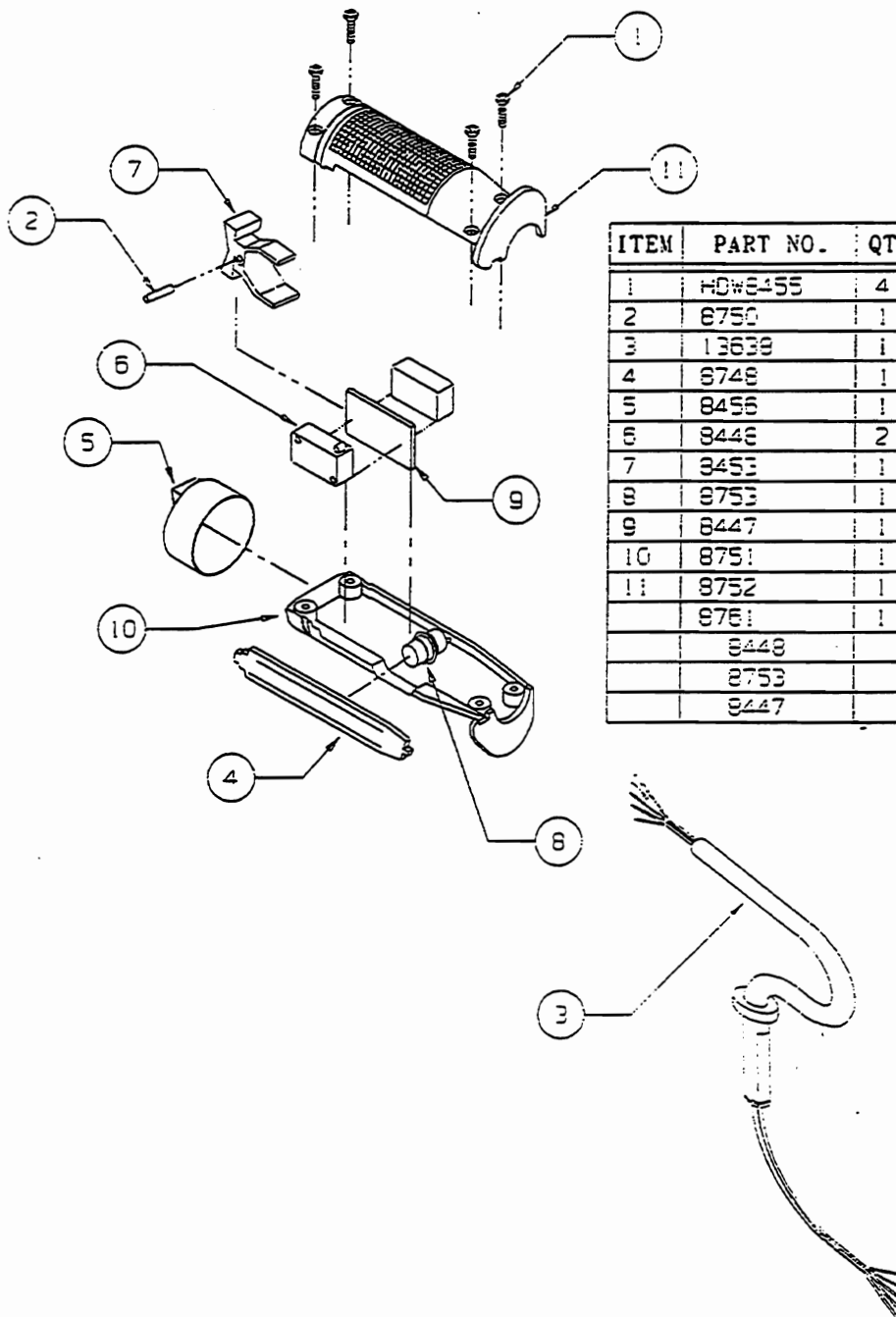
ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW8455	4	SCREW, 6 X 1/2 TAPTITE
2	8750	1	PIN
3	13638	1	CONTROL ARM WITHOUT WIRE
4	8748	1	TRIGGER
5	8456	1	ROCKER BOOT
* 6	8448	2	SWITCH - V3 P-Q
7	8453	1	SWITCH ACTUATOR
* 8	8753	1	MOTION SWITCH, ON-OFF
* 9	8447	1	SWITCH SEPARATOR
10	8751	1	GRIP - BOTTOM HALF
11	8752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

* 8761 - SWITCH ASSEMBLY-INCLUDES WIRING AND ITEMS 6, 8, & 9

ART188 R3
BMS040
01/04/99

Figure 3-1. 3072 4WD Control Arm Joystick Assembly

ASSEMBLY 13647



ITEM	PART NO.	QTY.	DESCRIPTION
1	HDWE455	4	SCREW, 6 X 1/2 TAPITE
2	8750	1	PIN
3	13639	1	CONTROL ARM ASSEMBLY JS #2
4	8748	1	TRIGGER
5	8456	1	ROCKER BOOT
6	8446	2	SWITCH - V3 P-D
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-D
	8753	1	MOTION SWITCH, ON-OFF
	8447	1	SWITCH SEPARATOR

ART 152 42
BMS-44
07/07/87

Figure 3-1 3072 4WD Control Arm Joystick Assembly

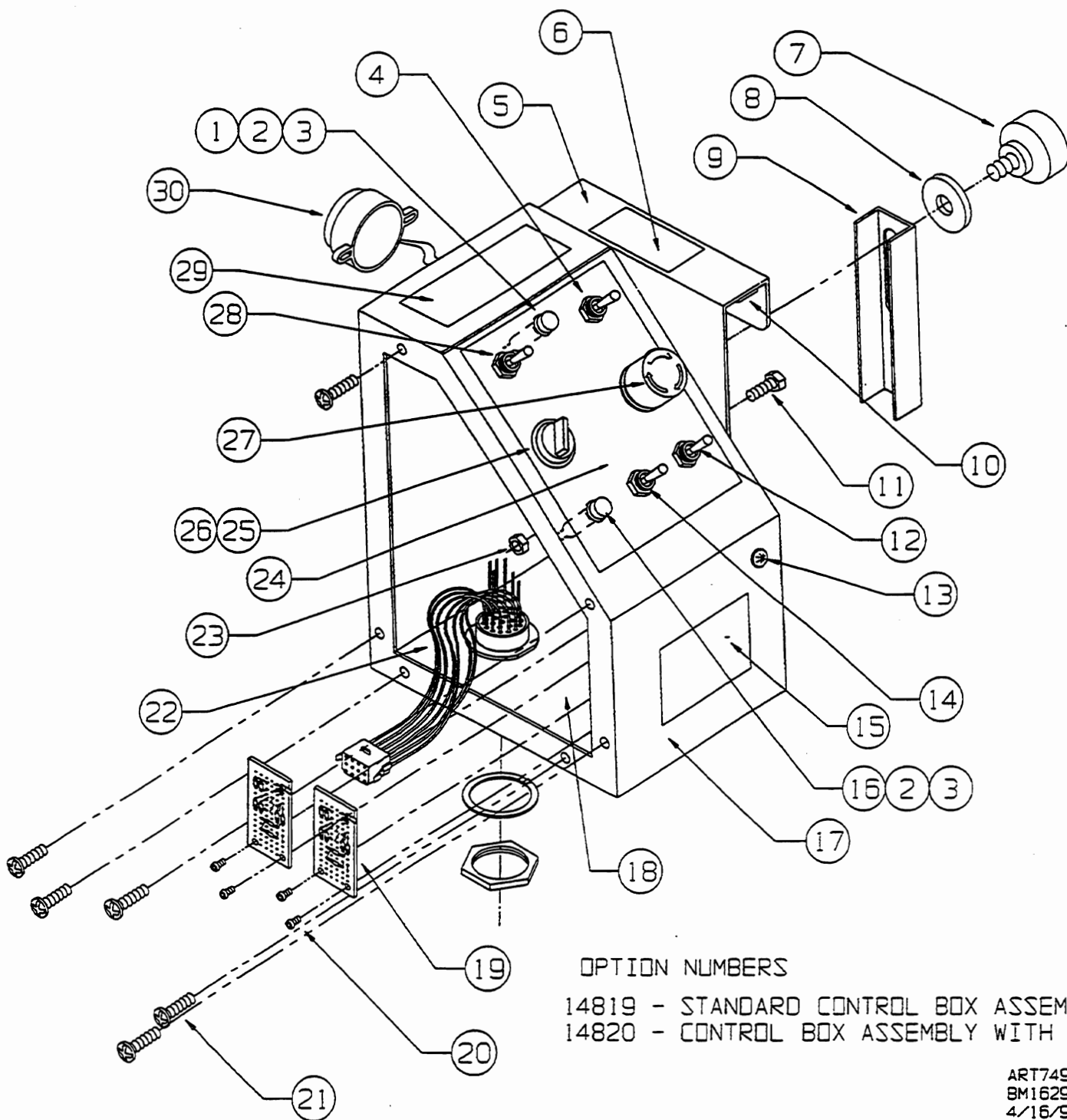
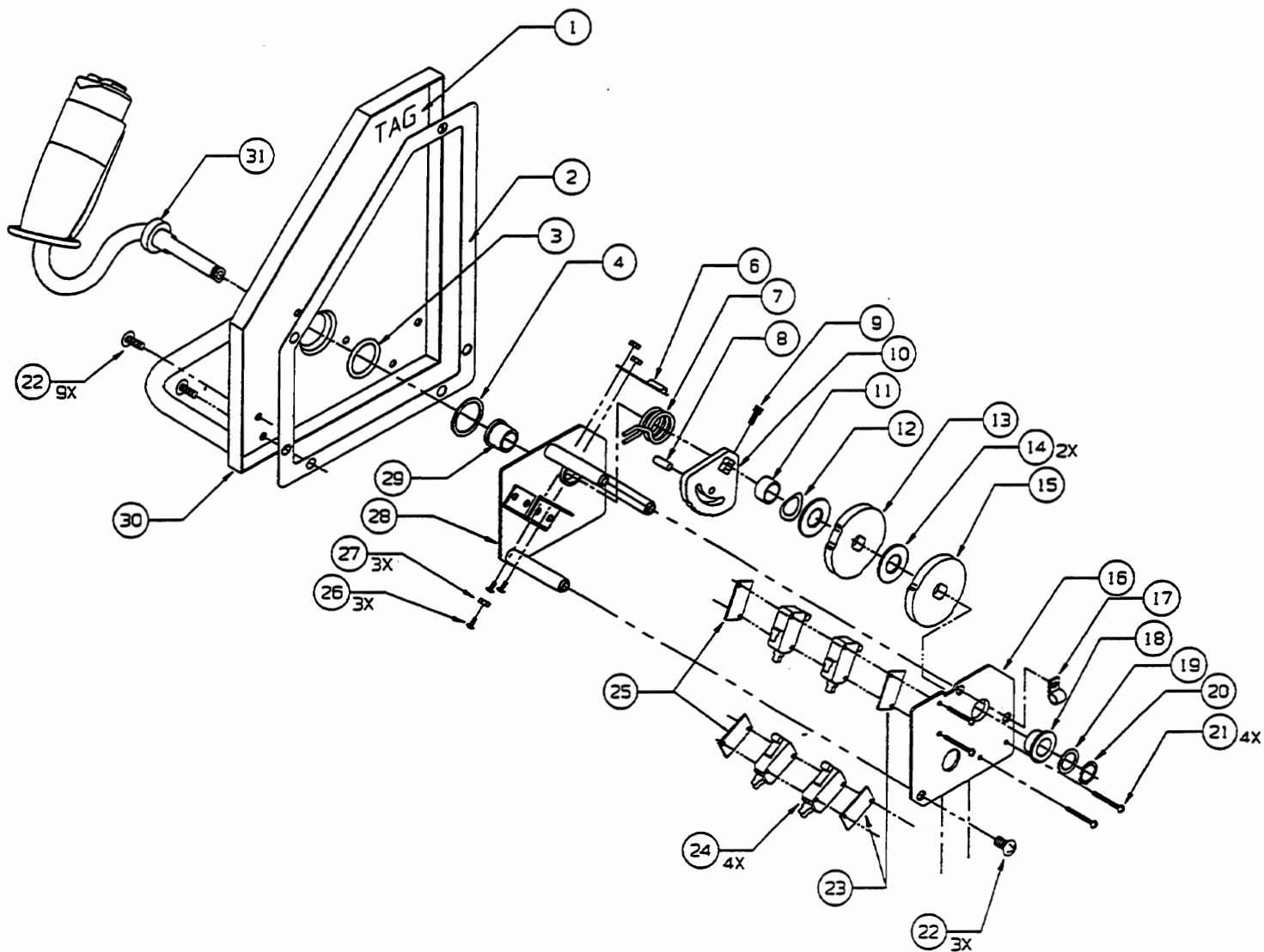


Figure 3-2 3072 4WD Upper Control Box Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
	20196 - STANDARD CONTROL BOX ASSEMBLY		
	20197 - CONTROL BOX ASSEMBLY WITH HORN		
1	9184	1	LIGHT LENS - YELLOW
2	9188	2	LIGHT BAYONET, 14 VOLT
3	9179	2	SOCKET, INDICATOR LIGHT
4	5630	1	SWITCH, TOGGLE, 2 POSITION MAINTAINED
5	13865	1	BRACKET, CONTROL BOX HOLDER
6	7156	1	DECAL, FRONT
7	8826	1	SCREW, 5/16"-18 FLOWER THUMBSCREW
8	HDW8294	1	WASHER, FLAT
9	13864	1	BRACKET, CONTROL BOX LOCK
10	6350	.5	FOAM TAPE
11	HDW5724	1	SCREW, 5/16"-18, 3/4" LONG
12	6905	1	SWITCH, TOGGLE, 3 POSITION MAINTAINED, CENTER-OFF
13	7579	1	PLUG, PLASTIC
	8044	1	SWITCH, HORN - OPTIONAL
14	7423	1	SWITCH, TOGGLE-1 POLE, 2 POSITION, MOMENTARY
15	9239	1	DECAL, CONTROL BOX ID
16	9183	1	LIGHT LENS - RED
17	20134	1	WELDMENT, CONTROL BOX; JOYSTICK
18	8066	1	TAG (INSPECTION)
19	7451	2	CIRCUIT BOARD
20	HDW5978	4	SCREW, #6-32, 1/4" LONG
21	HDW7888	6	SCREW, #10-32, 1/2" LONG
22	9210	1	WIRE HARNESS, CONTROL BOX
23	HDW7120	1	NUT, 5/16"-18
24	8517	1	DECAL, JOYSTICK CONTROL BOX
25	8075	1	SWITCH, SELECTOR 3 POSITION
26	8076	1	BASE-MOUNTING WITH 2 CONTACT BLOCKS
27	7800	1	SWITCH, EMERGENCY STOP
28	8638	1	SWITCH, TOGGLE, 4 POLE, 2 POSITION
29	7827	1	DECAL, WARNING LIGHT
30	9173	1	BUZZER, 10-48 VOLT DC

ART749 RO
BM16299
4/16/98

**Figure 3-2 3072 4WD Upper Control Box
Assembly**



141	C	C	3
2	NO	NO	32
	NC	NC	
15	NC	NC	31
151	NO	NO	3
	C	C	

ART587 R2
BN13040
4/15/98

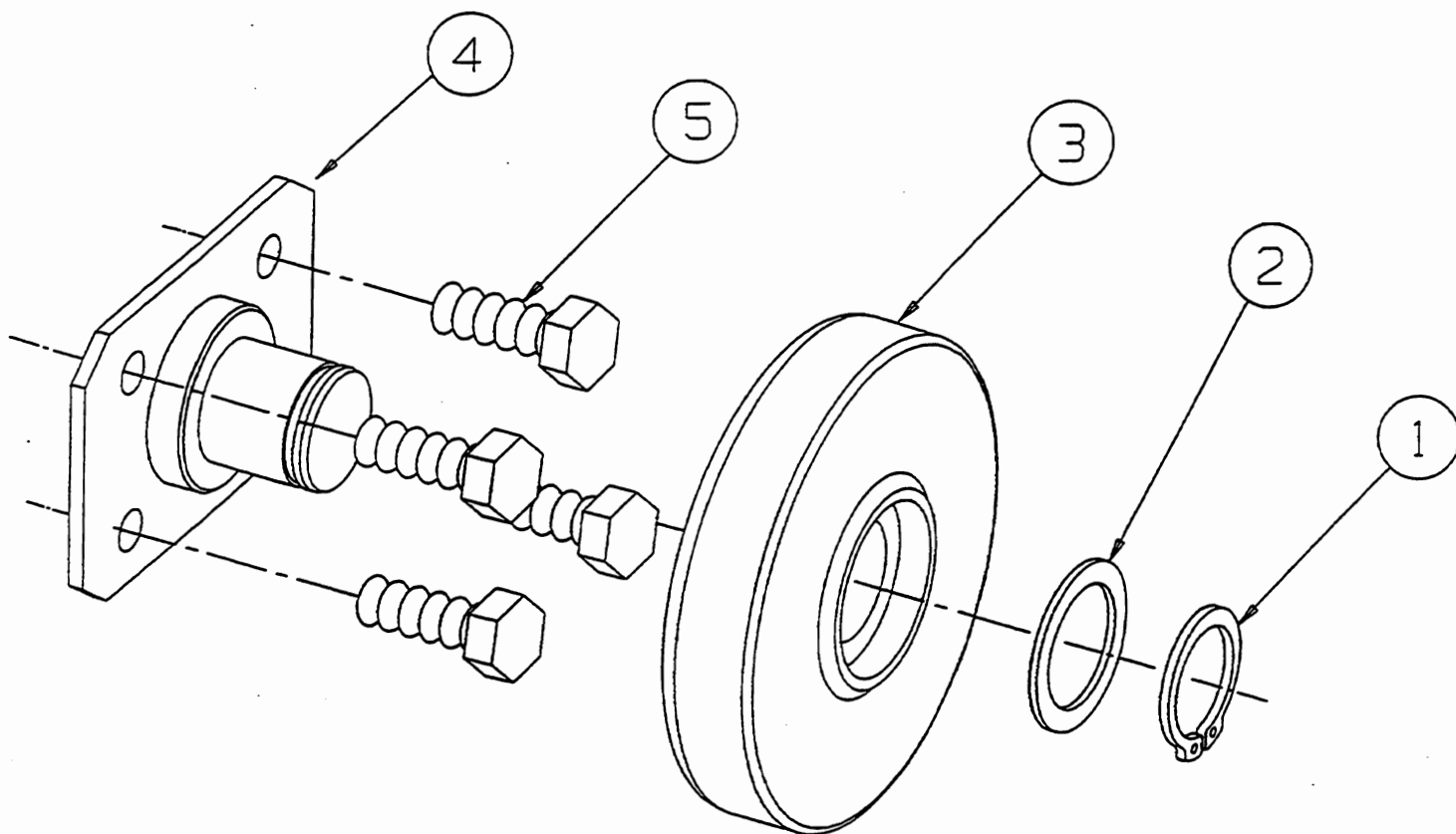
8696 LIMIT SWITCHES

Figure 3-2 3072 4WD Control Box Cam Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	8066	1	INSPECTION LINE TAG
2	7875	1	JOYSTICK GASKET
3	7882	1	O-RING, 7/8" ID, 1 1/8" OD
4	HDW3768	1	FLAT WASHER, .895 ID, 1.077 OD, .055 THICK
5	7914	2	CABLE TIE (NOT SHOWN)
6	3770	1	SPRING, SPEED LEVEL-JOYSTICK
7	8435	1	SPRING, TORSION-JOYSTICK
8	100/8348	1	HOLD DOWN PIN
9	HDW7887	1	SCREW, #6-32 X .50 LONG, GRADE 8
10	13502	1	CENTERING BRACKET-JOYSTICK
11	3763	1	STEP SPACER, JOYSTICK
12	HDW7881	1	BEVEL WASHER, .531 ID, .795 OD, .011 THICK
13	3781	1	SPEED CONTROL CAM-JOYSTICK
14	HDW8531	2	FLAT WASHER, .531 ID, 1.0 OD, .063 THICK
15	3782	1	DIRECTIONAL CAM-JOYSTICK
16	3759	1	PLATE, TOP, CONTROL BOX-JOYSTICK
17	6917	1	CABLE CLAMP, 1/4"
18	7818	1	BEARING, .502 ID, .627 OD, 5/16 HIGH
19	HDW3771	1	FLAT WASHER, .50 ID, .688 OD, .033 THICK
20	5736	1	RETAINING RING, EXT., 1/2" SHAFT
21	HDW7884	4	SCREW, #4-40 X 1 1/4" LONG
22	HDW7888	12	SCREW, #10-3 X 1/2", GRADE 2
23	3764	2	SPACER PLATE-JOYSTICK
24	8696	4	LIMIT SWITCH, MICRO - V7
25	3765	2	PLATE, STRAP-JOYSTICK
26	HDW7885	3	SCREW, #4-40 X 1/4" LONG
27	HDW7886	3	NUT, #4-40, CLASS 2
28	3766	1	TOP PLATE WELDMENT-JOYSTICK
29	7819	1	BEARING, .502 ID, .627 OD, 5/18" HIGH
30	3772	1	COVER WELDMENT-JOYSTICK
31	13647	1	CONTROL ARM ASSEMBLY-JOYSTICK #2
32	8859	1	JOYSTICK CONTROL BOX HARNESS (NOT SHOWN)

**Figure 3-2 3072 4WD Control Box Cam
Assembly**

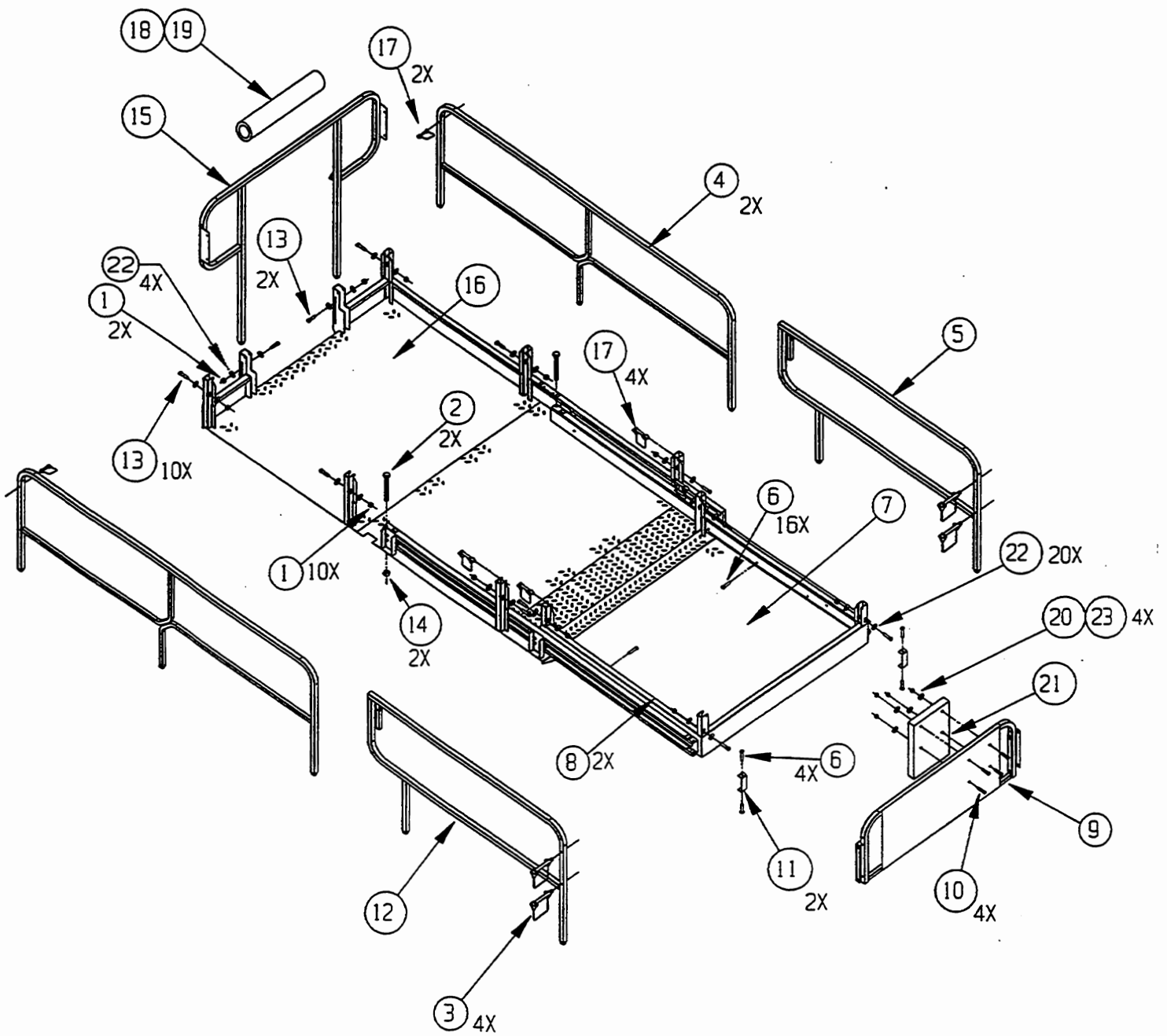
ART587 R2
BM13040
4/15/98



ITEM	PART NO.	QTY.	DESCRIPTION
1	5918	1	RETAINING RING, HEAVY DUTY-1.000-EXT.
2	HDW8370	1	WASHER 1.015 ID X 1.357 OD X .062 THK
3	13230	1	ROLLER
4	14062	1	ROLLER PLATE WELDMENT
5	HDW5724	4	SCREW, 5/16" - 18, 3/4" LONG, GRADE 5

ART 591 R1
BM13086
4/23/98

Figure 4-1 3072 4WD Roller Assembly



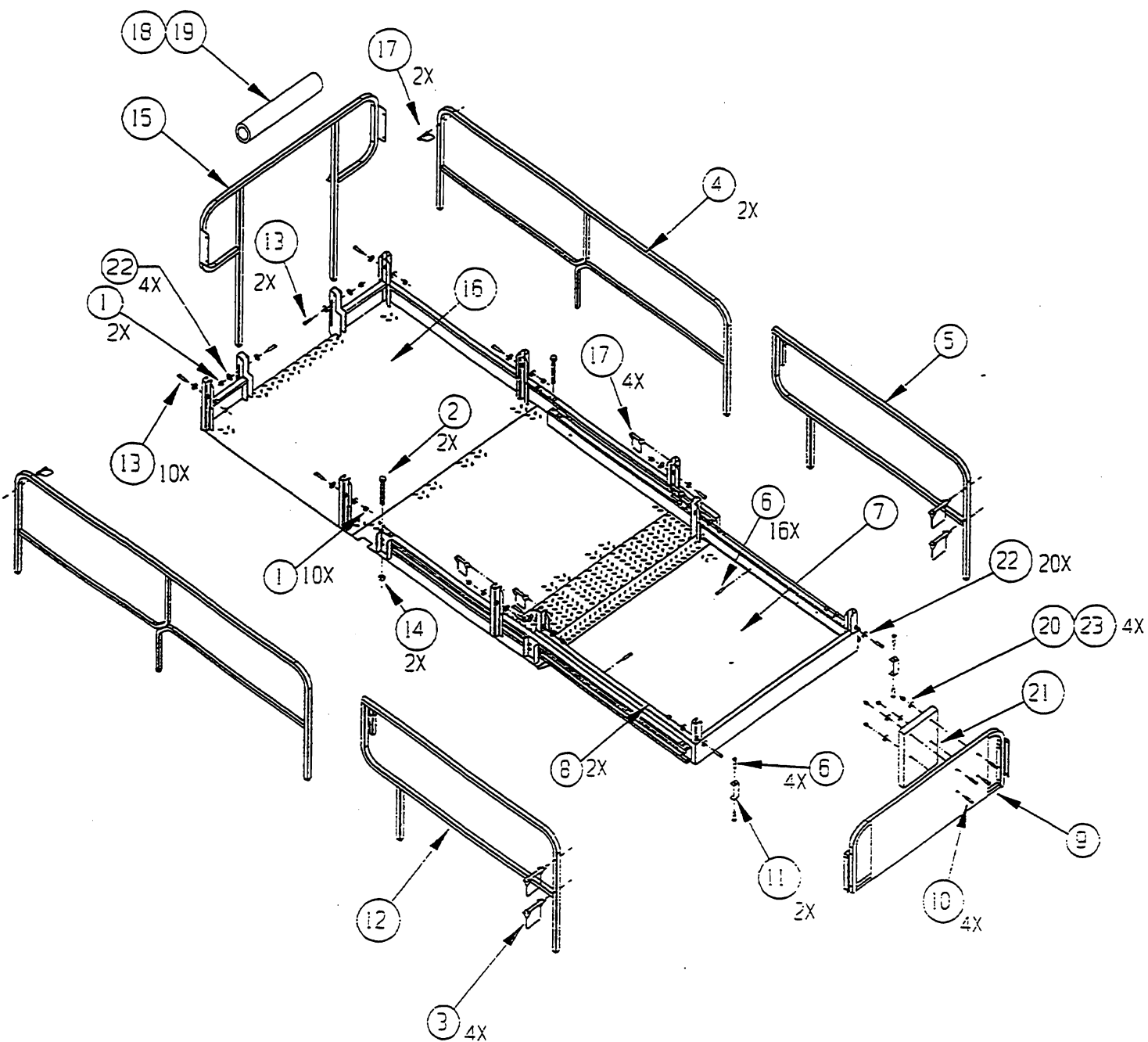
ART589 R3
BM13075
11/11/98

Figure 4-2a. 30724WD Platform & Rails Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW8304	12	NUT, 5/16"-18
2	HDW8856	2	SCREW, 1/2"-13, 5" LONG
3	HDW8974	4	WIRE LOCK PIN, SQUARE, 3/8" X 3" LONG
4	14124	2	SIDE RAIL WELDMENT-MAIN PLATFORM
5	14301	1	SIDE RAIL WELDMENT-EXTENSION PLATFORM
6	HDW5724	20	SCREW, 5/16"-18, 3/4" LONG, GRADE 5
7	40053	1	EXTENSION PLATFORM WELDMENT
8	14152	2	EXTENSION CHANNEL
9	14306	1	FRONT RAIL WELDMENT-EXTENSION
10	HDW6455	4	SCREW, 1/4"-20, 1/2" LONG
11	14415	2	EXTENSION STOP BRACKET
12	14313	1	RIGHT SIDE RAIL WELDMENT-EXTENSION PLATFORM
13	HDW7119	12	SCREW, 5/16"-18, 2 1/4" LONG, GRADE 5
14	HDW8457	2	NUT, 1/2"-13
15	40016	1	REAR RAIL WELDMENT-MAIN PLATFORM
16	40048	1	MAIN PLATFORM WELDMENT
17	HDW7593	6	WIRE LOCK PIN, SQUARE, 3/8" X 2 1/4" LONG
18	7805	1	RAIL PAD
19	7048	1	RAIL PAD COVER
20	HDW6461	4	NUT, 1/4"-20
21	8909	1	MANUAL ENCLOSURE
22	HDW5217	24	FLAT WASHER
23	HDW8294	4	FLAT WASHER
	8844	2	GROMMET, CORD PROTECTOR-PLATFORM (NOT SHOWN)

ART589 R3
BM13075
11/11/98

Figure 4-2a. 3072 4WD Platform & Rails Assembly



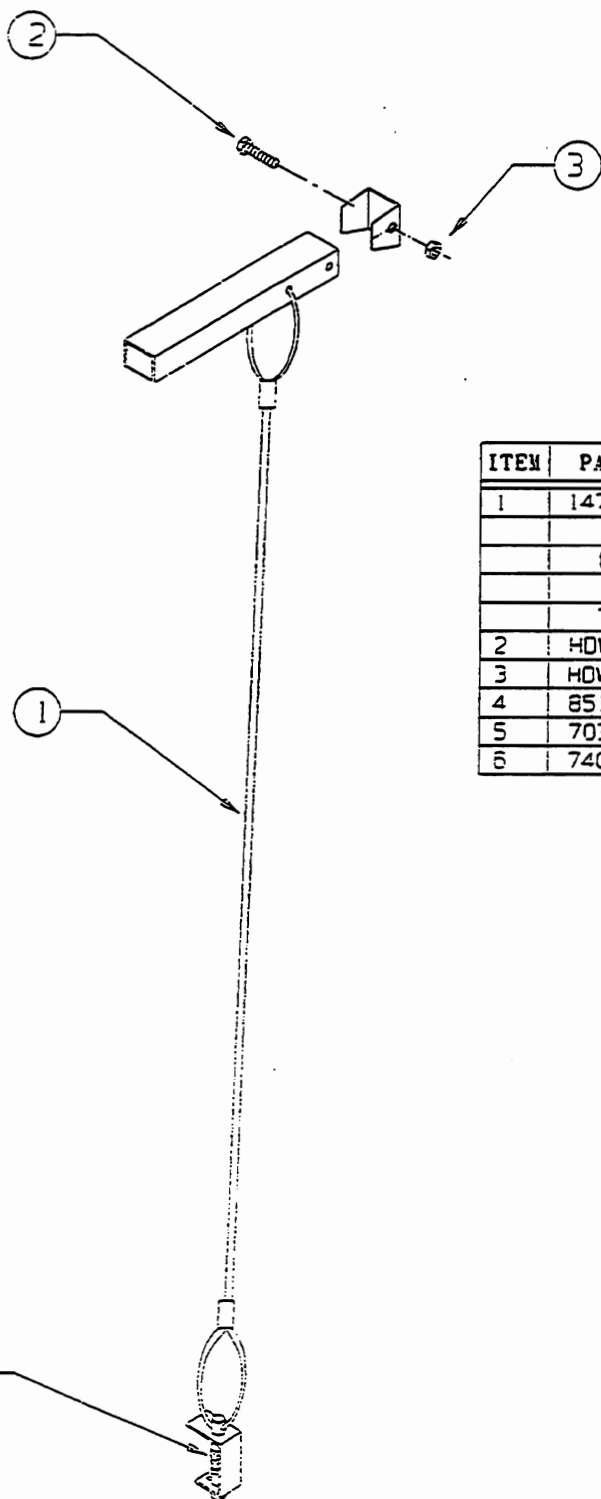
ART589 R2
 BM13075
 4/17/98

Figure 4-2 3072 4WD Platform & Rails Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW8304	12	NUT, 5/16"-18
2	HDW8856	2	SCREW, 1/2"-13, 5" LONG
3	HDW8974	4	WIRE LOCK PIN, SQUARE, 3/8" X 3" LONG
4	14124	2	SIDE RAIL WELDMENT-MAIN PLATFORM
5	14301	1	SIDE RAIL WELDMENT-EXTENSION PLATFORM
6	HDW5724	20	SCREW, 5/16"-18, 3/4" LONG, GRADE 5
7	14076	1	EXTENSION PLATFORM WELDMENT
8	14152	2	EXTENSION CHANNEL
9	14306	1	FRONT RAIL WELDMENT-EXTENSION
10	HDW6455	4	SCREW, 1/4"-20, 1/2" LONG
11	14415	2	EXTENSION STOP BRACKET
12	14313	1	RIGHT SIDE RAIL WELDMENT-EXTENSION PLATFORM
13	HDW7119	12	SCREW, 5/16"-18, 2 1/4" LONG, GRADE 5
14	HDW8457	2	NUT, 1/2"-13
15	14129	1	REAR RAIL WELDMENT-MAIN PLATFORM
16	14075	1	MAIN PLATFORM WELDMENT
17	HDW7593	6	WIRE LOCK PIN, SQUARE, 3/8" X 2 1/4" LONG
18	7805	1	RAIL PAD
19	7048	1	RAIL PAD COVER
20	HDW6461	4	NUT, 1/4"-20
21	8909	1	MANUAL ENCLOSURE
22	HDW5217	24	FLAT WASHER
23	HDW8294	4	FLAT WASHER
	8844	2	GROMMET, CORD PROTECTOR-PLATFORM (NOT SHOWN)

ART589 R2
BM13075
4/17/98

Figure 4-2 3072 4WD Platform & Rails Assembly



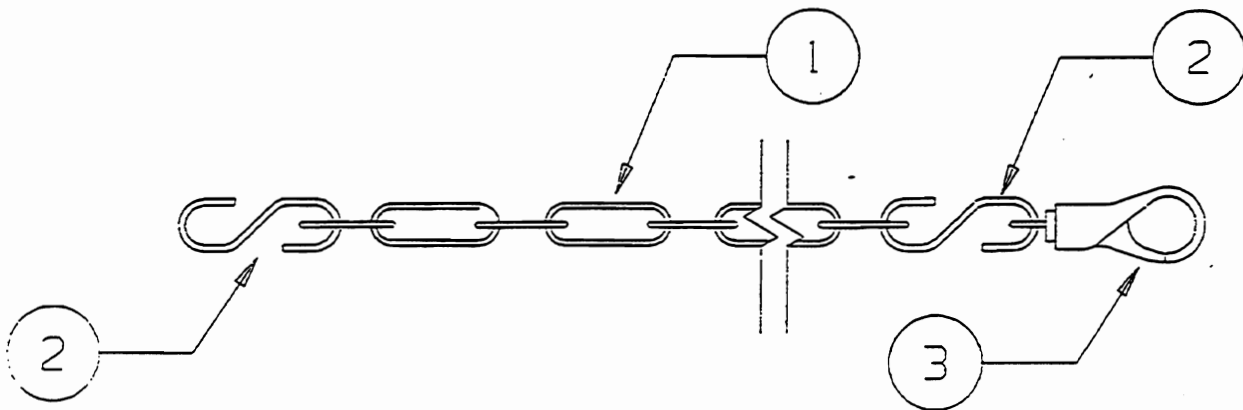
ITEM	PART NO.	QTY.	DESCRIPTION
1	14713	1	ROLLOUT LOCK PIN ASSEMBLY
	13737	1	EXTENSION LOCK PIN
	8814	2	ALUMINUM OVAL SLEEVES
	14344	1	HANDLE - ROLLOUT PLATFORM
	7184	3.7 FT	COATED & ROLLED WIRE CABLE
2	H0W8486	1	SCREW, 5/16"-18, 1.87" LONG
3	H0W8304	1	LOCKNUT 5/16"-18 GRADE 5
4	8513	1	SPRING PIN, .11/8" DIA. 3/4" LONG
5	7031	1	FLAT WASHER, 1/2" ID, 7/8" OD
6	7402	1	DECK LOCK SPRING

ART592 R1
BM13089
9/29/97

Figure 4-3 3072 4WD Platform Lock Assembly

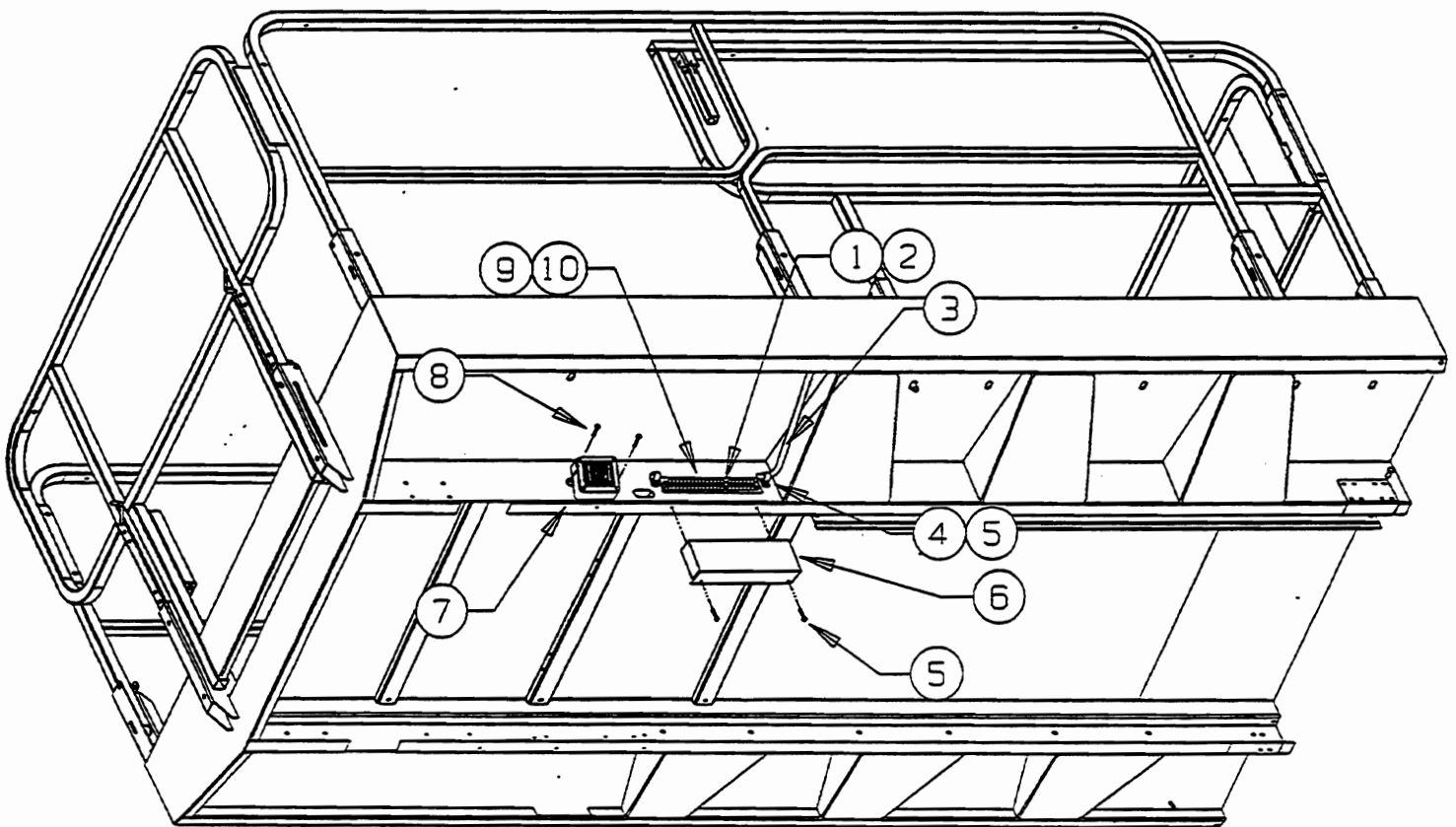
13850 CHAIN CLOSURE-STANDARD

ITEM	PART NO.	QTY.	DESCRIPTION
1	13846	1	GUARD CHAIN
2	5239	2	CONNECTING LINK, S-HOOK
3	8781	1	CHAIN LINK SNAP



ART593-RC
BM13090
3/6/97

Figure 4-4 3072 4WD Chain Gate Assembly



ART751 R0
BM16348
4/17/98

Figure 4-5 3072 4WD Platform Terminal Strip & Horn Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW5363	3	SCREW, #6-32, 1" LONG
2	HDW5364	3	NUT, #6-32
3	9158	1	CABLE, UPPER CONTROL
4	6964	2	CLAMP, 1"
5	HDW6455	4	SCREW, 1/4"-20, 1/2" LONG
6	14604	1	COVER, TERMINAL STRIP
7	7435	1	ALARM, 24VDC
8	HDW5723	2	SCREW, 1/4-20, 3/4" LONG
9	7970	1	STRIP MARKER, 1-22
10	6947	1	TERMINAL STRIP, 22 POSITION

ART751 RO
BM16348
4/17/98

Figure 4-5 3072 4WD Platform Terminal Strip & Horn Assembly

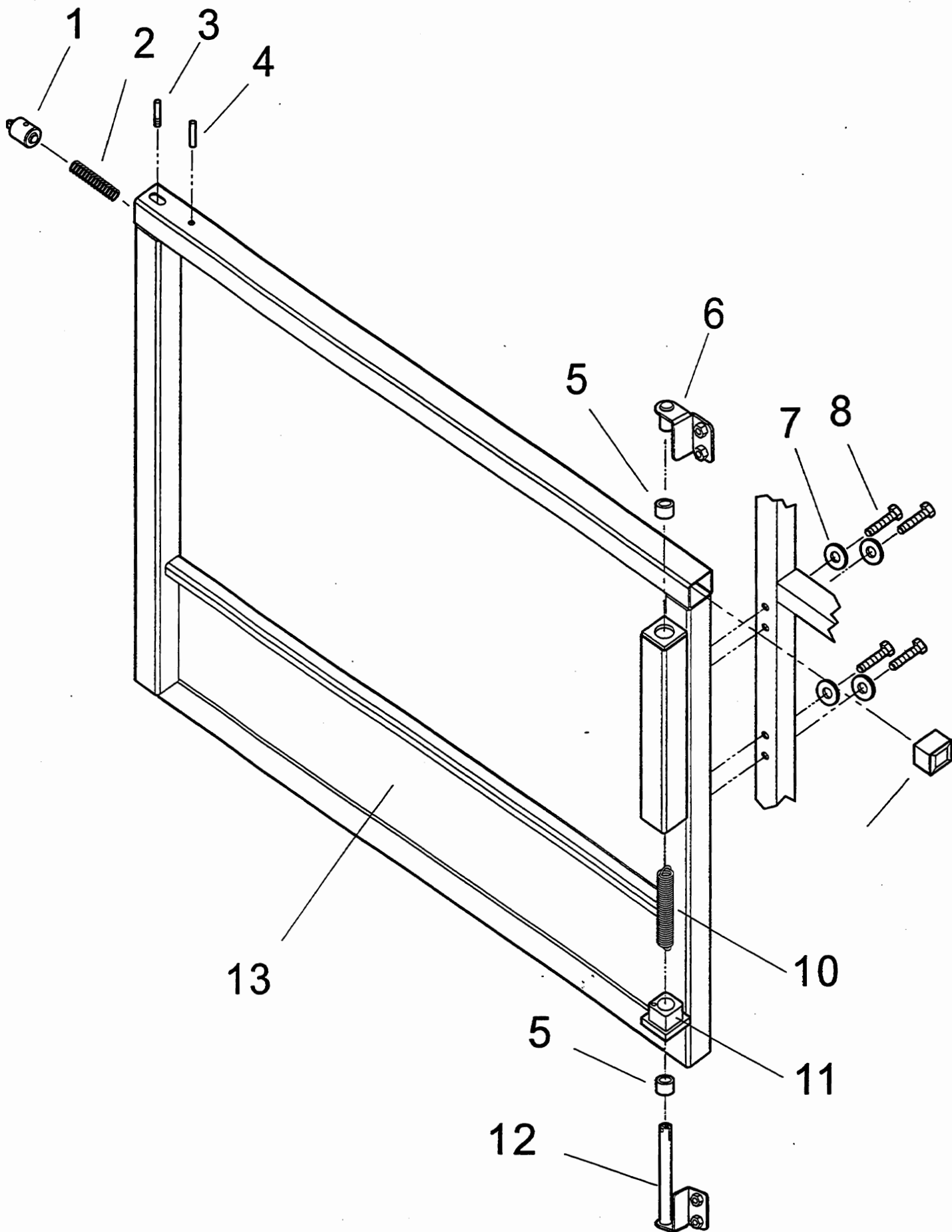
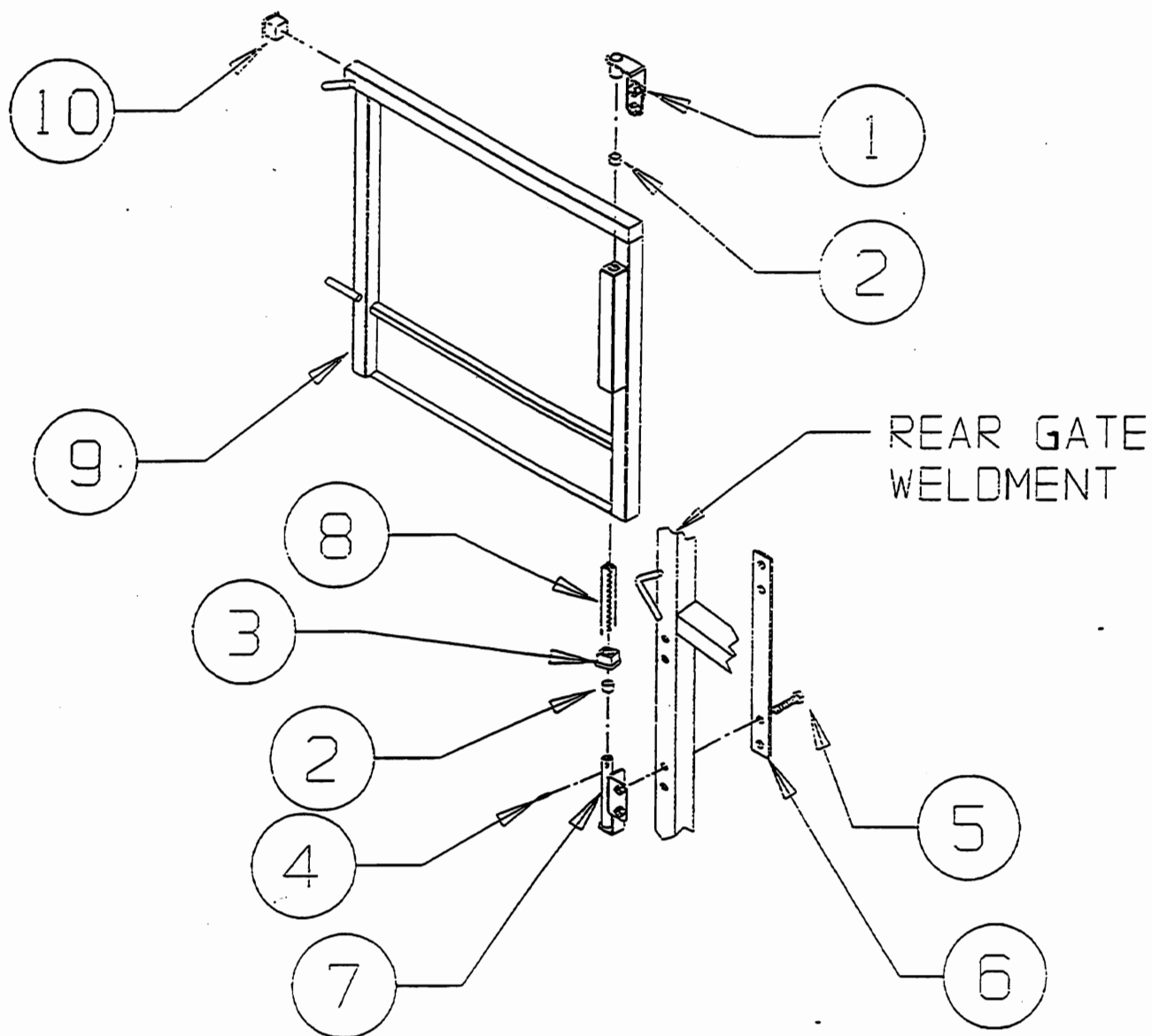


Figure 4-6a. 3072 4WD Swing Gate Assembly

14593 SHEET LOAD GATE OPTION

ITEM	PART NO.	QTY.	DESCRIPTION
1	40003	1	LATCH PIN
2	7055	1	SPRING, LATCH
3	40006	1	ROD, LATCH LEVER
4	HDW7455	1	PIN, SLOTTED SPRING, 3/16" DIA X 3/4" LG
5	8187	2	BEARING, NYLINER, FLANGED
6	40014	1	MOUNTING BRACKET, UPPER
7	HDW8294	4	WASHER, FLAT
8	HDW8486	4	SCREW, 5/16" - 18, 1 7/8" LONG
9	6823	1	CAP PLUG, 1 1/4" SQUARE
10	8300	1	SPRING, TORSION, 1" OD, 4" LONG
11	13272	1	BLOCK, PIVOT
12	40015	1	MOUNTING BRACKET, LOWER
13	40017	1	GATE, REAR WITH 6" KICK PANEL

Figure 4-6a. 3072 4WD Swing Gate Assembly

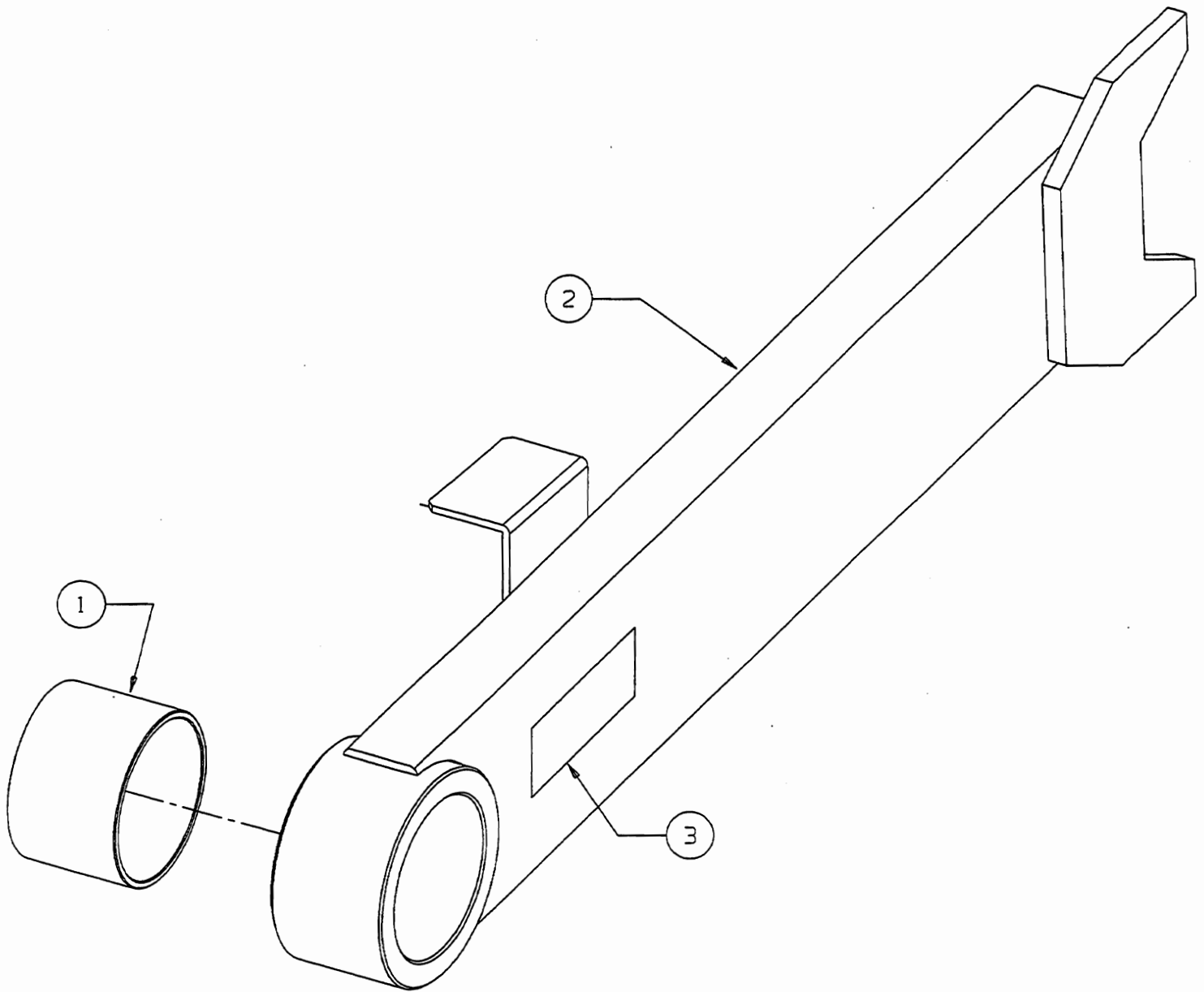


14593 SHEET LOAD GATE OPTION

ITEM	PART NO.	QTY.	DESCRIPTION
1	14613	1	UPPER REAR GATE MOUNTING BRACKET
2	8187	2	BEARING, FLANGED 5/8" ID X 5/8" LG
3	13272	1	REAR GATE PIVOT BLOCK
4	HDW7455	1	SPRING PIN 3/16" DIA X 3/4" LG
5	HDW8303	4	SCREW, 5/16"-18, 2" LONG
6	14731	1	PLATE, EURO SWING GATE MOUNT
7	14615	1	LOWER REAR GATE MOUNTING BRACKET
8	8300	1	SPRING, TORSION
9	14605	1	REAR SWING GATE - EUROPEAN
10	6823	2	CAP PLUG 1 1/4" SQ TUBE

Figure 4-6 3072 4WD Swing Gate Assembly

ART612 R1
SM13612
11/3/97

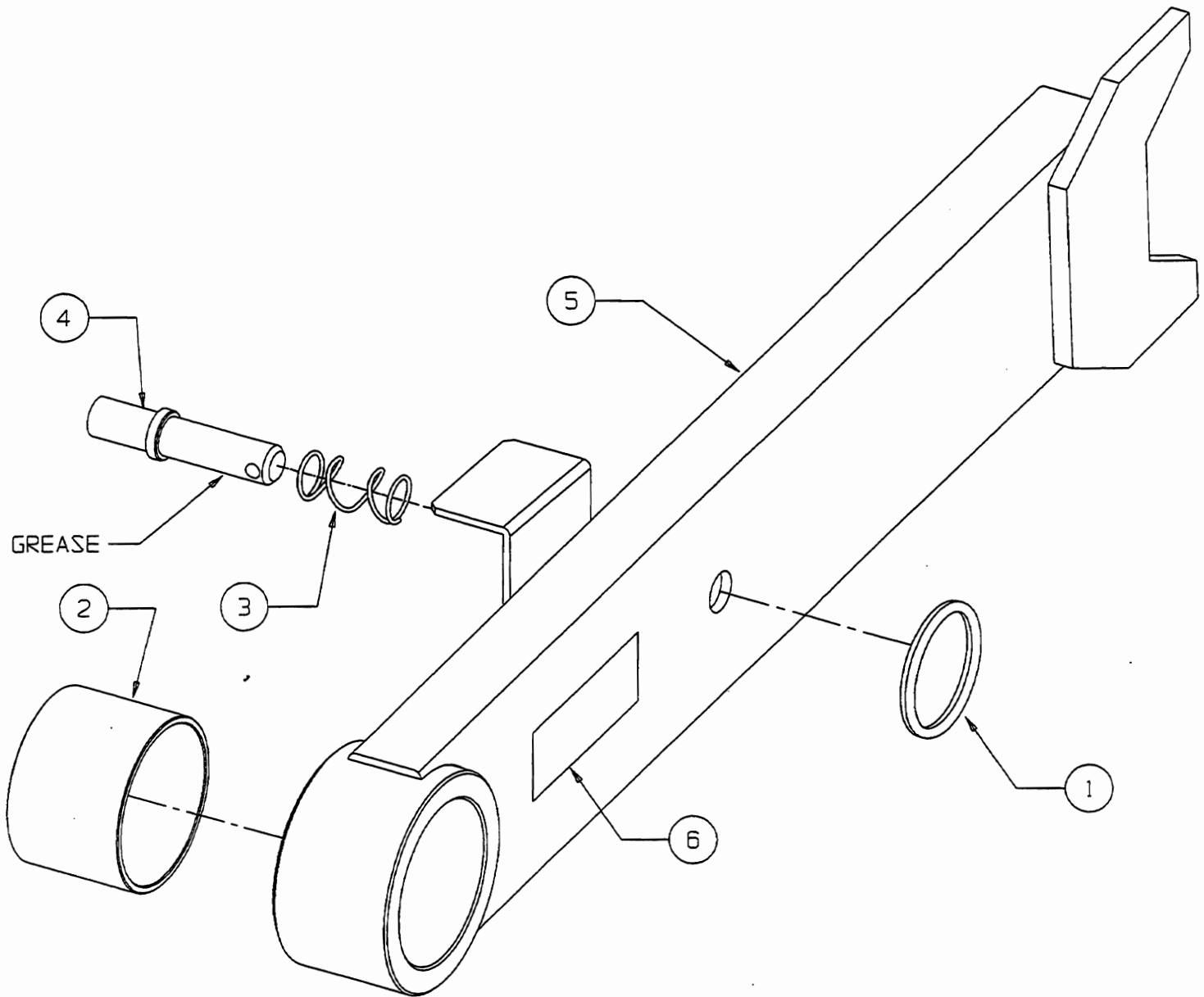


SINGLE MAINTENANCE LOCK ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	8675	1	BEARING, 2 1/4" OD X 2" ID X 1 1/2" LG
2	14990	1	MAINTENANCE LOCK WELDMENT
3	6794	1	MAINTENANCE LOCK DECAL

ART594 R3
BM13094
1/5/99

Figure 5-1. 3072 4WD Maintenance Lock Assembly



COMPONENTS OF MAINTENANCE
LOCK REPLACEMENT KIT - #40088

ITEM	PART NO.	QTY.	DESCRIPTION
1	7073	1	RING, SPLIT, 1.64 OD
2	8675	1	BEARING, 2 1/4" OD X 2" ID X 1 1/2" LG
3	8360	1	SPRING
4	8695	1	PIN, MAINTENANCE LOCK
5	14513	1	MAINTENANCE LOCK WELDMENT
6	6794	1	MAINTENANCE LOCK DECAL

Figure 5-1a. 3072 4WD Maintenance Lock Assembly

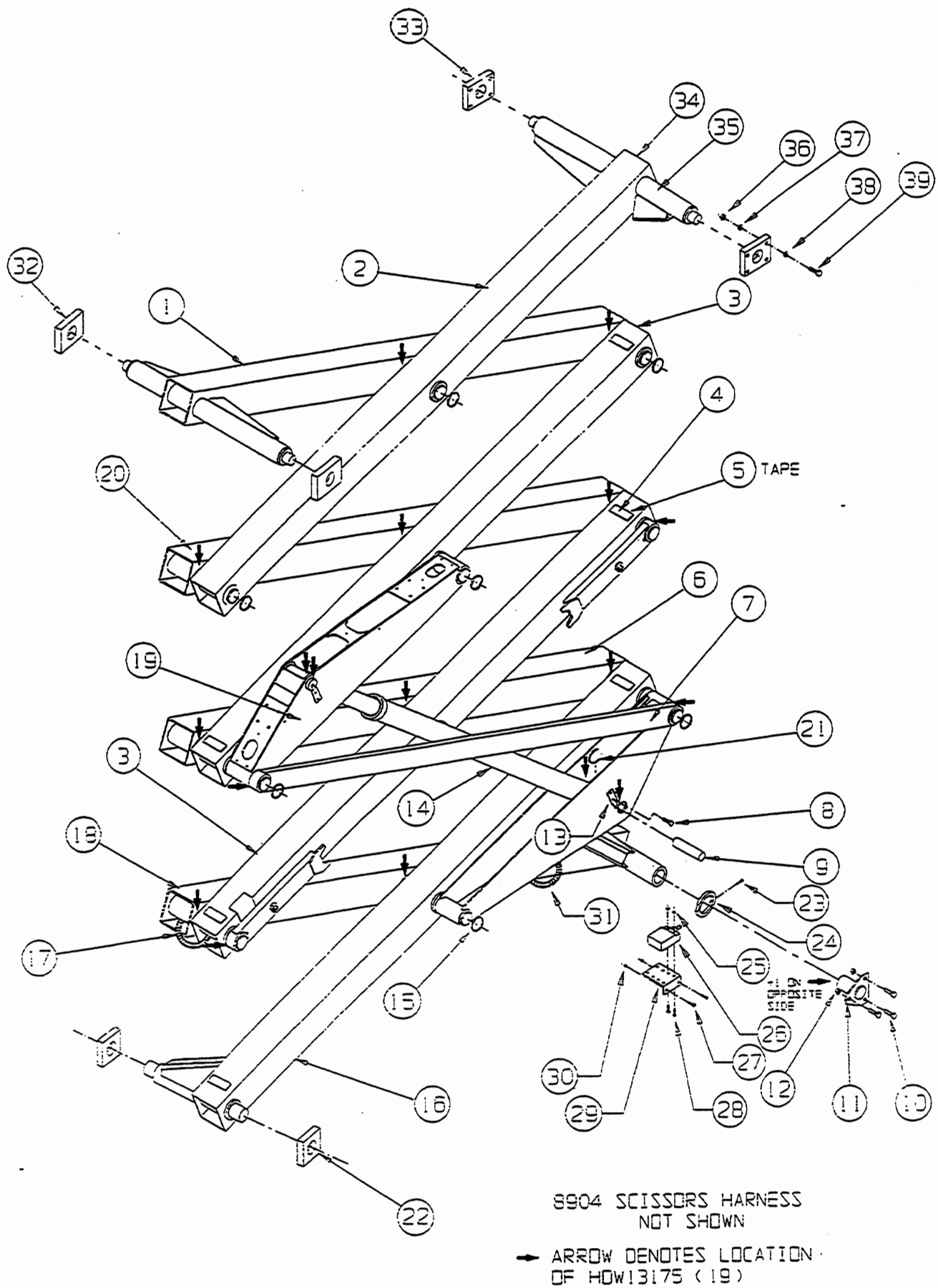
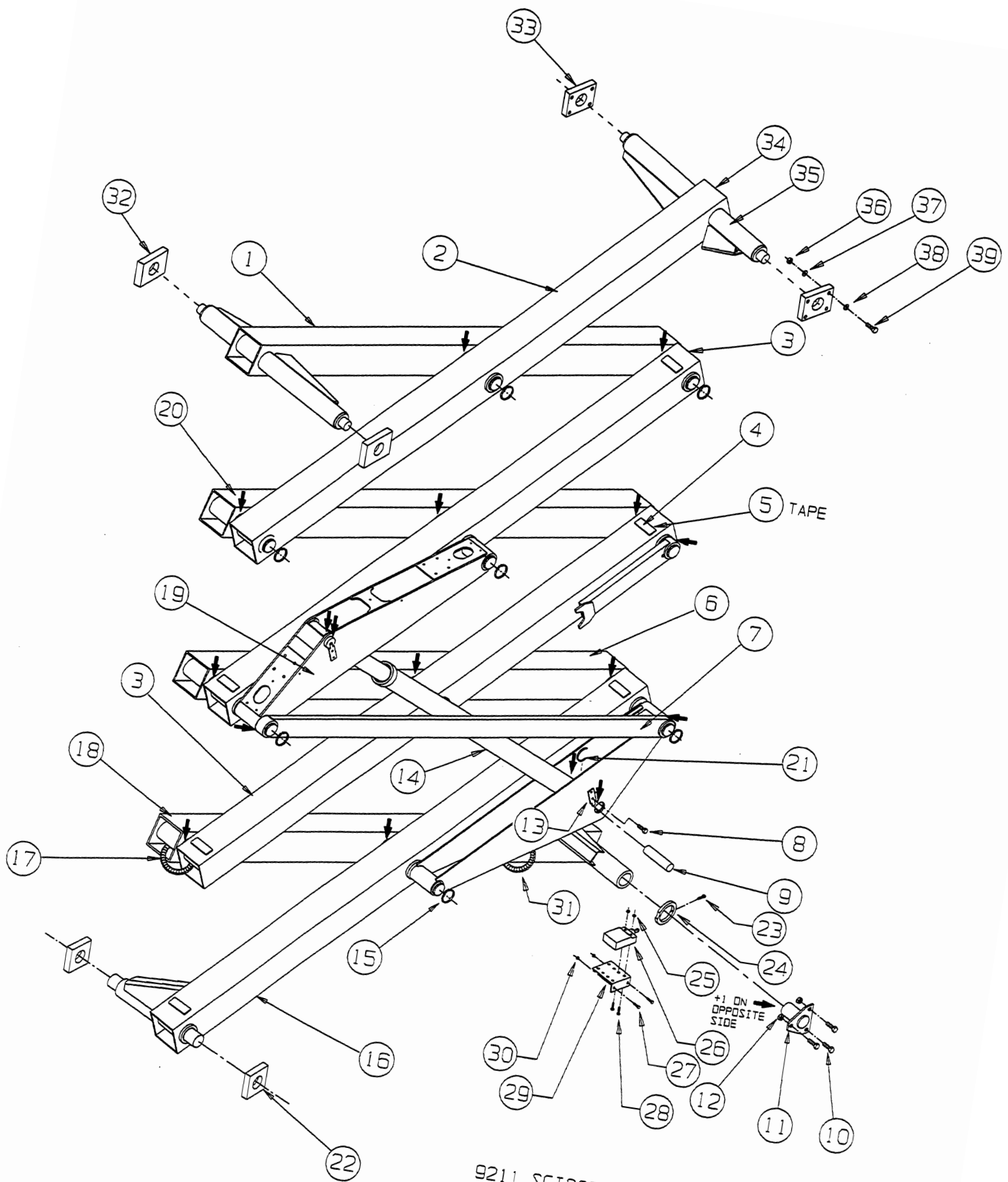


Figure 5-2 3072 4WD Scissors

ITEM	PART NO.	QTY.	DESCRIPTION
1	14270	1	BEAM, .25 WALL WITH PINS
2	14256 6669	1 6	BEAM, .25 WALL WITH BEARINGS BEARING, 32DU32
3	14255 6669	2 9	BEAM, .313 WALL, BORED BEARING, 32DU32
4	8616	6	WEAR PADS
5	8785	A/R	DOUBLE COATED TAPE - VHB
6	14267	1	BEAM, .313 WALL WITH PINS
7	14806	1	BEAM SUPPORT WELDMENT
8	HDW6455	4	SCREW, 1/4"-20 X 1/2", GRADE 5
9	14537	2	CYLINDER MOUNTING PIN
10	HDW8283	6	SCREW, 1/2"-13 X 1 1/2", GRADE 5
11	13101	2	PIN WELDMENT STATIONARY MOUNT
12	HDW8457	6	LOCNUT 1/2"-13, GRADE B
13	14538	2	CYLINDER RETAINING BRACKET
14	9809	1	LIFT CYLINDER WITH BEARINGS
15	6701	8	RETAINING RING - 2" SHAFT
16	14276 6669	1 6	BEAM, .25 WALL WITH BEARINGS BEARING, 32DU32
17	11543	4	SPRING
18	14265 6669	1 2	BEAM, .25 WALL WITH PINS BEARING, 32DU32
19	14218 7440 6669	2 2 4	CYLINDER MOUNT WELDMENT BEARING, 32DU24 BEARING, 32DU32
20	14268	1	BEAM, .313 WALL WITH PINS
21	HDW8899	2	RETAINING RING
22	14616	2	BLOCK, SCISSORS SLIDE CHANNEL
23	HDW8670	1	SET SCREW, 1/4"-20, 1/2" LONG
24	13837	1	CAM
25	HDW5251	2	NUT, 8-32
26	8932	1	LIMIT SWITCH, 2 POLE
27	HDW8273	2	SCREW, 1/4"-20, 1" LONG
28	HDW8482	2	SCREW, #8-32, 1 1/2" LONG
29	13838	1	BRACKET, SPEED LIMIT SWITCH
30	HDW8267	2	NUT, 1/4"-20
31	7510	1	SPRING, WIRE PROTECTOR, HOSES FROM CYLINDER
32	14486	2	BLOCK, SLIDE PLATFORM
33	14487	2	BLOCK, FIXED PLATFORM
34	9147	1	SPRING, 1 5/8" X 10" LONG
35	9146	1	CLAMP, 1 13/16", 2 3/4" HOSE
36	HDW8304	8	NUT, 5/16" - 18
37	HDW8294	8	FLAT WASHER
38	HDW5217	8	FLAT WASHER
39	HDW8486	8	SCREW, 5/16" - 18, 1 7/8" LONG
	HDW13175	19	FLAT NYLON WASHER, 2.062 ID, 2.620 OD, .030 THICK
	5669	5	CABLE TIE, 24" LONG-HOLDS SPRINGS TO BEAM PINS. (NOT SHOWN)

Figure 5-2 3072 4WD Scissors



9211 SCISSORS HARNESS
NOT SHOWN

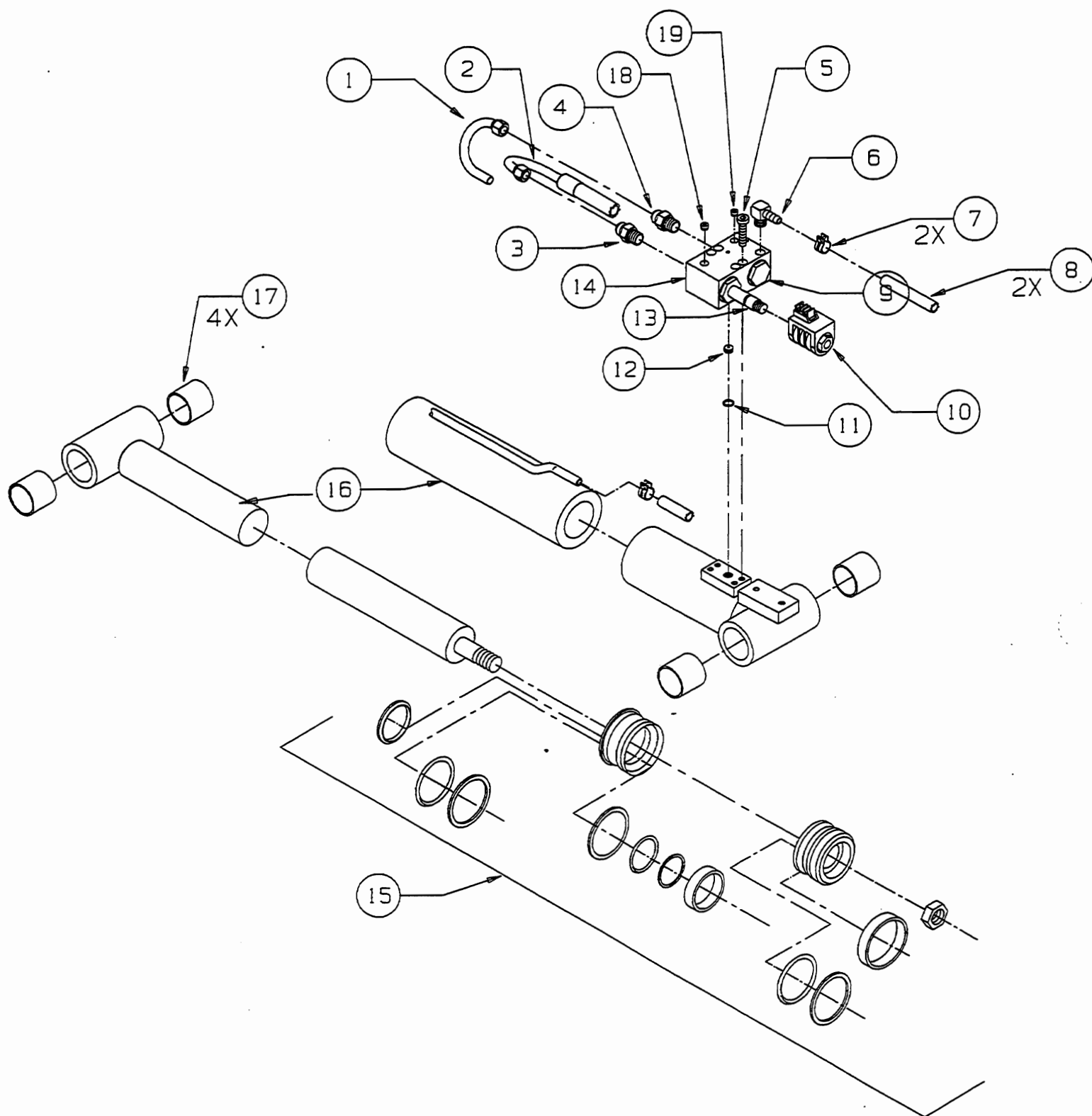
→ ARROW DENOTES LOCATION
OF HW13175 (10)

Figure 5-2

ITEM	PART NO.	QTY.	DESCRIPTION
1	40036	1	BEAM, .25 WALL WITH PINS
2	40035	1	BEAM, .25 WALL WITH BEARINGS
3	14987 6669	2 9	BEAM, .313 WALL, BORED BEARING, 32DU32
4	8616	6	WEAR PADS
5	8785	A/R	DOUBLE COATED TAPE - VHB
6	14267	1	BEAM, .313 WALL WITH PINS
7	14806	1	BEAM SUPPORT WELDMENT
8	HDW6455	4	SCREW, 1/4"-20 X 1 1/2", GRADE 5
9	14537	2	CYLINDER MOUNTING PIN
10	HDW8283	6	SCREW, 1/2"-13 X 1 1/2", GRADE 5
11	13101	2	PIN WELDMENT STATIONARY MOUNT
12	HDW8457	6	LOCNUT 1/2"-13, GRADE B
13	14538	2	CYLINDER RETAINING BRACKET
14	8809	1	LIFT CYLINDER WITH BEARINGS
15	6701	8	RETAINING RING - 2" SHAFT
16	14276 6669	1 6	BEAM, .25 WALL WITH BEARINGS BEARING, 32DU32
17	6840	4	SPRING
18	40034 6669	1 2	BEAM, .25 WALL WITH PINS BEARING, 32DU32
19	14218 7440 6669	2 2 4	CYLINDER MOUNT WELDMENT BEARING, 32DU24 BEARING, 32DU32
20	14268	1	BEAM, .313 WALL WITH PINS
21	HDW8899	2	RETAINING RING
22	14616	2	BLOCK, SCISSORS SLIDE CHANNEL
23	HDW8870	1	SET SCREW, 1/4"-20, 1/2" LONG
24	13837	1	CAM
25	HDW5251	2	NUT, 8-32
26	8932	1	LIMIT SWITCH, 2 POLE
27	HDW8273	2	SCREW, 1/4"-20, 1" LONG
28	HDW8482	2	SCREW, #8-32, 1 1/2" LONG
29	13838	1	BRACKET, SPEED LIMIT SWITCH
30	HDW8267	2	NUT, 1/4"-20
31	7510	1	SPRING, WIRE PROTECTOR, HOSES FROM CYLINDER
32	14488	2	BLOCK, SLIDE PLATFORM
33	14487	2	BLOCK, FIXED PLATFORM
34	9147	1	SPRING, 1 5/8" X 10" LONG
35	9146	1	CLAMP, 1 13/16", 2 3/4" HOSE
36	HDW8304	8	NUT, 5/16" - 18
37	HDW8294	8	FLAT WASHER
38	HDW5217	8	FLAT WASHER
39	HDW8486	8	SCREW, 5/16" - 18, 1 7/8" LONG
	HDW13175	18	FLAT NYLON WASHER, 2.062 ID, 2.620 OD, .030 THICK
	5669	5	CABLE TIE, 24" LONG-HOLDS SPRINGS TO BEAM PINS. (NOT SHOWN)

Figure 5-2a. 3072 4WD Scissors

ART732 R3
BM13110
6/17/99



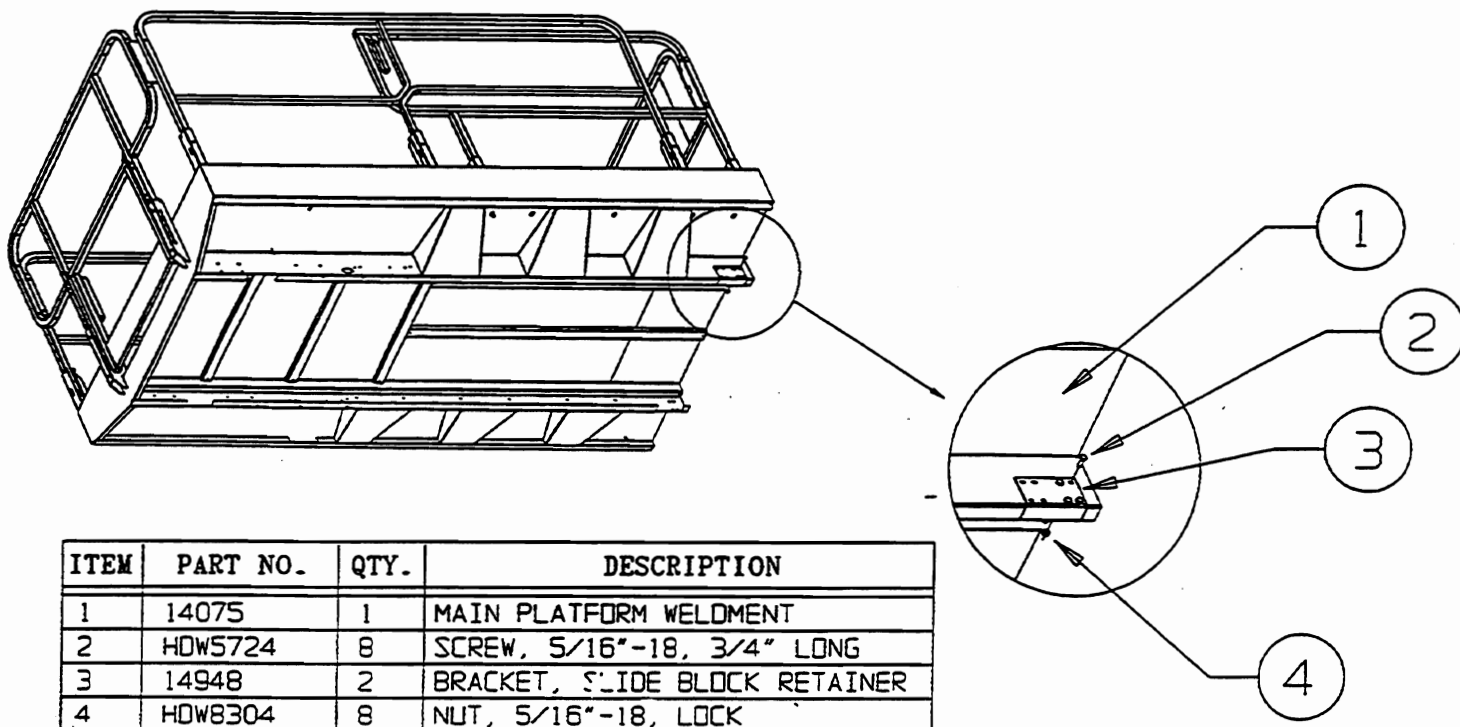
ART736 R1
BM16056
4/1/99

Figure 5-3. 3072 4WD Lift Cylinder

ITEM	PART NO.	QTY.	DESCRIPTION
1	9229	1	HOSE ASSEMBLY-LIFT CYLINDER TO EMERGENCY DOWN MANIFOLD, STRAIGHT FEMALE-37 DEGREE, STRAIGHT FEMALE 37 DEGREE, 4/16" ID X 184" LONG, SAE100R1
2	9230	1	HOSE ASSEMBLY-LIFT CYLINDER UP TO MANIFOLD, STRAIGHT FEMALE-37 DEGREE, STRAIGHT PIPE FEMALE, 6/16" ID X 174" LONG, SAE100R1
3	HDW7438	1	ADAPTER FITTING, MALE 3/8" 37 DEGREE X MALE 9/16" O-RING
4	HDW8881	1	PIPE FITTING ADAPTER, MALE 1/4", O-RING, MALE 1/4" 37 DEGREE
5	HDW8592	4	SCREW, 1/4"-20 X 1 1/2" LONG, GRADE 8
6	HDW8879	1	PIPE FITTING, 90 DEGREE ELBOW, MALE 1/8", PIPE THREAD 5/16" HOSE BARB
7	7788	2	HOSE CLAMP - 5/8"
8	6458	18'	RETURN LINE HOSE, 5/16" ID
9	7445	1	CHECK VALVE
10	6870	1	COIL-12 VOLT, 1 SPADE WITH DIODE
11	6426	1	O-RING
12	HDW8647	1	PLUG, PIPE FITTING (EUROPE ONLY)
13	6973	1	N.C. VALVE, POPPET, 2 WAY
14	14523	1	LIFT CYLINDER MANIFOLD (14825 ASSEMBLED)
15	8894	1	SEAL KIT, LIFT CYLINDER #8809
16	8809	1	3068ES LIFT CYLINDER
17	6669	4	BEARING, 2" DIAMETER X 2" LONG
18	HDW7484	1	PLUG, O-RING
19	7314	1	FITTING, PLUG, 7/16"-20, O-RING
	8921	1	CABLE, DOWN

ART736 R1
BM16056
4/1/99

Figure 5-3. 3072 4WD Lift Cylinder



ART747 R0
 BH16257
 4/15/98

Figure 5-3 3072 4WD Slide Block Retainer Bracket

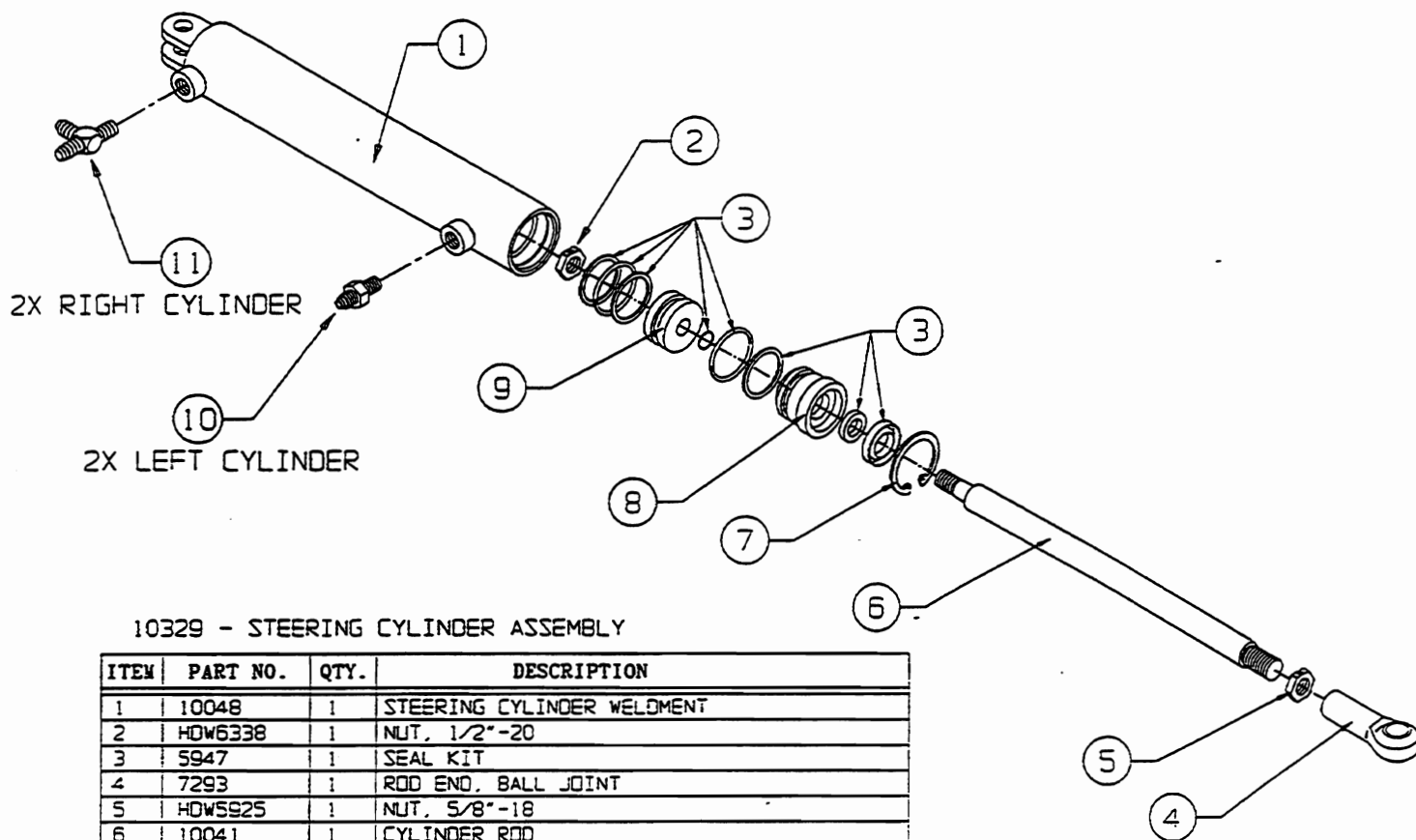
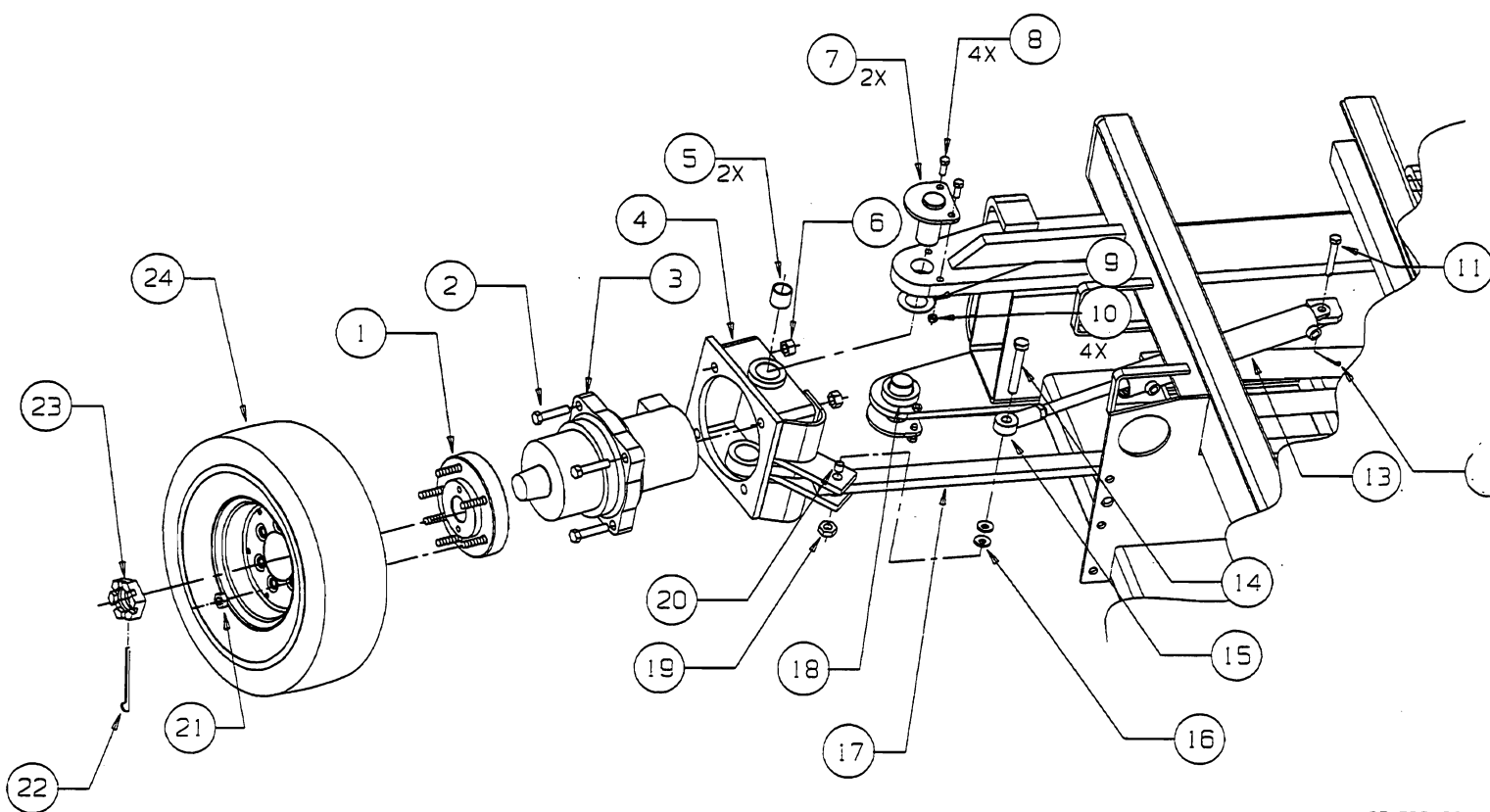


Figure 6-1 3072 4WD Steering Cylinder



ART 733 R2
BM16020
4/16/99

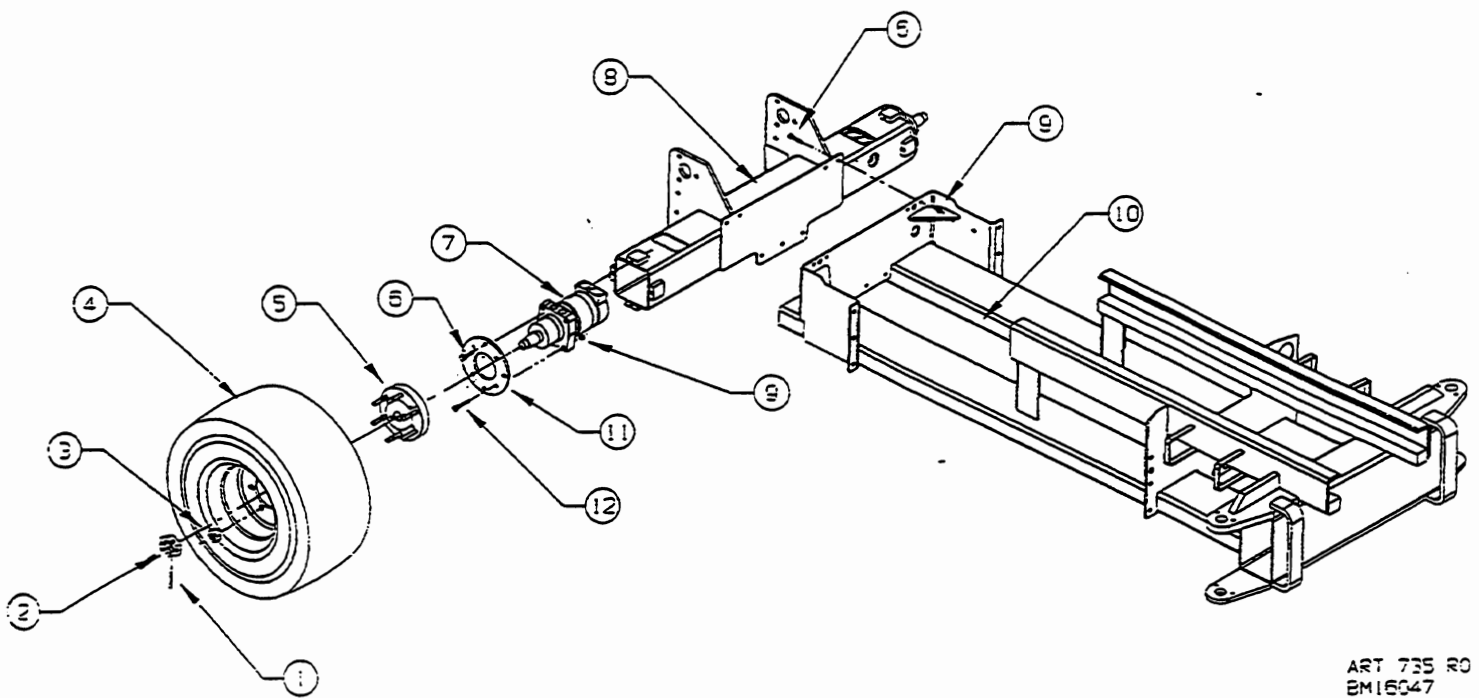
Figure 6-2. 3072 4WD Front Axle

ITEM	PART NO.	QTY.	DESCRIPTION
1	14773	1	HUB ASSEMBLY-6 BOLT
2	HDW9603	4	SCREW, 5/8"-11, 2 1/2" LONG
3	8843	1	HYDRAULIC WHEEL MOTOR WITH BRAKE
4	14380	1	WHEEL MOTOR MOUNT
5	7217	2	BEARING, 24DU24
6	HDW6499	4	NUT, 5/8"-11
7	14407	2	STEERING PIN MOUNT
8	HDW8277	4	BOLT, 3/8"-16, 1 3/4" LONG, GRADE 8
9	8868	1	THRUST WASHER, 2 1/2" OD, 1 1/2" ID
10	HDW8268	4	NUT, 3/8"-16
11	HDW5710	1	CLEVIS PIN, 1/2" DIA, 1 1/4" LONG
12	HDW5920	1	HAMMERLOC COTTER PIN, 1/8" DIA, 1" LONG
13	10329	1	STEERING CYLINDER ASSEMBLY
14	HDW7326	1	BOLT, 5/8"-11, 4" LONG, GRADE 5
15	7293	1	ROD END, BALL JOINT, 5/8"-18 FEMALE THREAD
16	HDW5785	2	5/8" FLAT WASHER
17	14331	1	TIE ROD - STEERING
18	14395	1	SPACER, WHEEL MOTOR MOUNT
19	HDW6633	1	NUT, 5/8"-11
20	7292	1	BEARING, SLEEVE, BRONZE, 5/8" X 7/8" LONG
21	HDW6677	6	LUG NUT, 1/2"-20
22	HDW8925	1	COTTER PIN, 1/4" X 3" LONG
23	HDW9037	1	CASTLE NUT, M42 X 3
24	7283	1	26 X 12 X 12 RIGHT
	7290	1	26 X 12 X 12 LEFT

QUANTITIES SHOWN ARE FOR ONE SIDE OF AXLE ASSEMBLY ONLY

ART 733 R2
BM16020
4/16/99

Figure 6-2. 4WD Front Axle



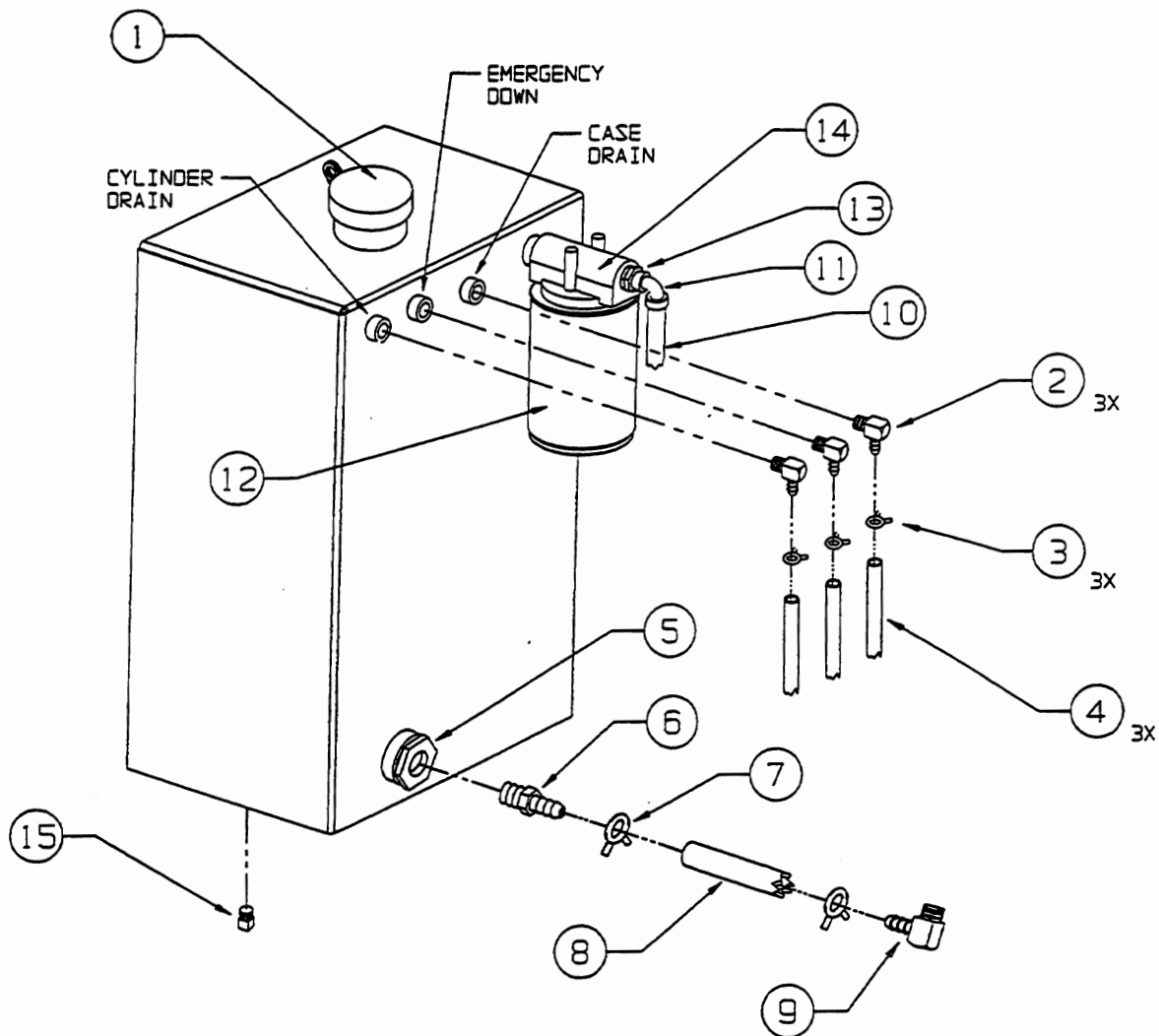
ART 735 R0
 BM16047
 3/17/98

Figure 6-3 3072 4WD Rear Axle

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW5290	1	COTTER PIN, 5/32", 1 3/4" LONG
2	HDW8568	1	SLOTTED HEX NUT, 1 1/8" - 18
3	HDW7961	6	LUG NUT, 1/2" - 20, 90 DEG CHAMFER
4	7283	1	26 X 12 X 12 RIGHT
	7290	1	26 X 12 X 12 LEFT
5	10709	1	REAR HUB
6	HDW6211	11	SCREW, 1/2" - 13, 1 1/4" LONG
7	7300P	1	WHEEL MOTOR - PAINTED
8	14772	1	REAR AXLE - 3072
9	HDW8457	11	NUT, 1/2" - 13
10	14323	1	BASE WELDMENT - 3072
11	14807	1	PLATE, REAR WHEEL MOTOR MOUNT
12	HDW6435	4	SCREW, 1/2" - 13, 2 1/2" LONG

ART 735 RO
BM16047
3/17/98

Figure 6-3 3072 4WD Rear Axle



ITEM	PART NO.	QTY.	DESCRIPTION
1	8838	1	VENTED GAS CAP
2	HDW6727	3	90 DEG. ELBOW PIPE FITTING. MALE, 5/16" HOSE BARB MALE, 1/4" NPT
3	7164	3	HOSE CLAMP, 5/16" HOSE
4	6458	3	RETURN LINE HOSE, 5/16" ID CASE DRAIN - 4' LONG EMERGENCY DOWN - 18' LONG CYLINDER DRAIN - 18' LONG
5	7712	1	SUCTION FILTER, 1 1/4" NPT
6	HDW7937	1	PIPE FITTING, UNION MALE 3/4", NPT 3/4" ID HOSE BARB
7	6960	2	HOSE CLAMP, 3/4" HOSE
8	9238	1	HOSE ASSEMBLY - RESERVOIR TO PRIMARY PUMP 3/4" ID X 16" LONG, 250 PSI WORK PRESSURE
9	6865	1	ELBOW, BRASS, 3/4" NPT
10	7763	1	HOSE ASSEMBLY-RETURN LINE, PRIMARY MANIFOLD TO TANK STRAIGHT FEMALE, 45 DEGREE STRAIGHT FEMALE, 45 DEGREE 1/2" DIA. 80" LONG, SAE 100R4
11	HDW6510	1	PIPE FITTING, 90 DEGREE ELBOW MALE 1/2", 45 DEGREE MALE 1/2", NPT
12	6156	1	OIL FILTER CARTRIDGE
13	HDW6752	1	PIPE FITTING ADAPTOR MALE, 3/4" DRY SEAL FEMALE, 1/2" NP
14	6714	1	FILTER HEAD-TO RESERVOIR INLET
15	HDW9200	1	PIPE FITTING PLUG, MALE, 1/4" NPT

Figure 7-1 3072 4WD Hydraulic Reservoir Assembly

ART740 R0
BM16060
3/17/98

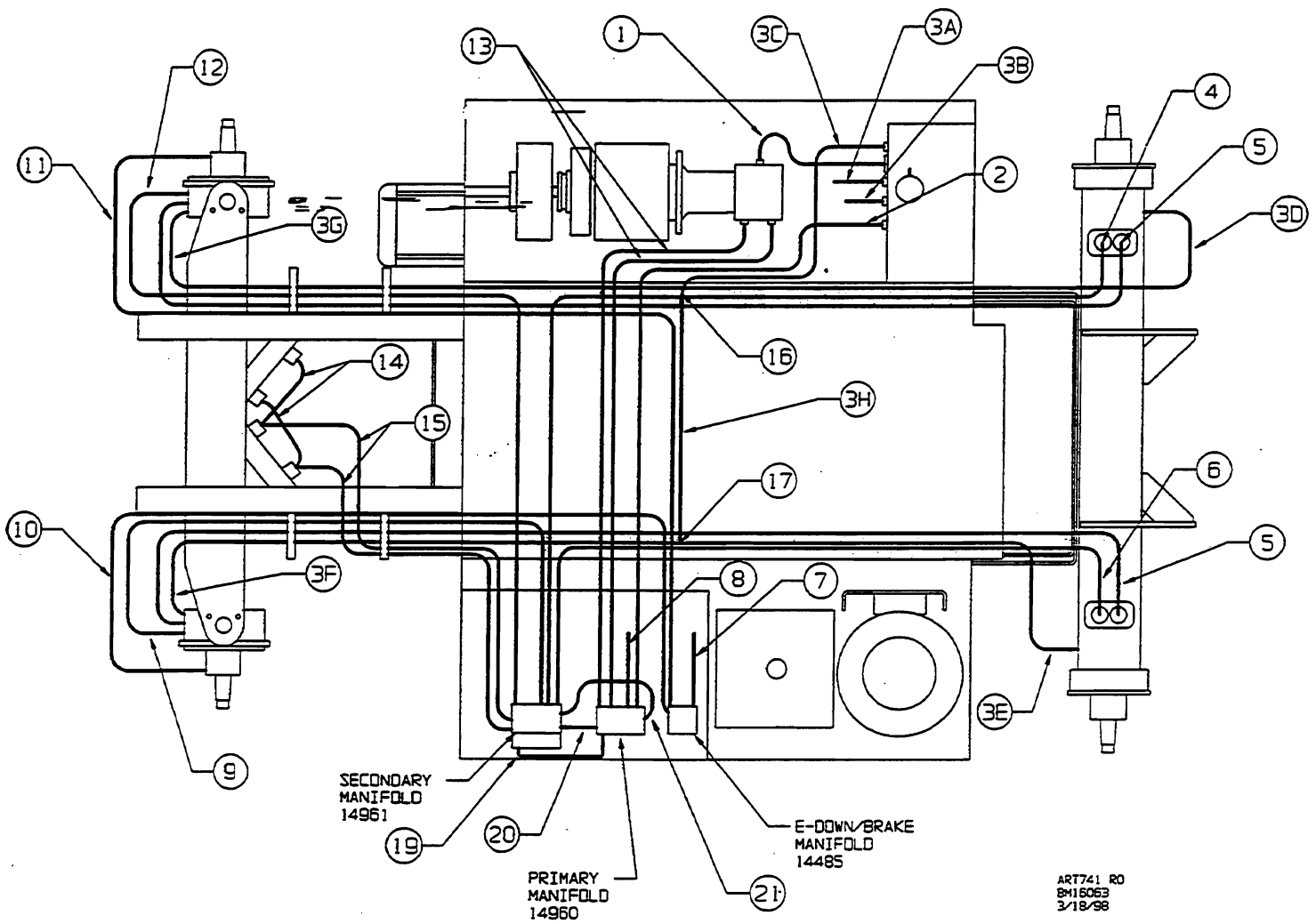


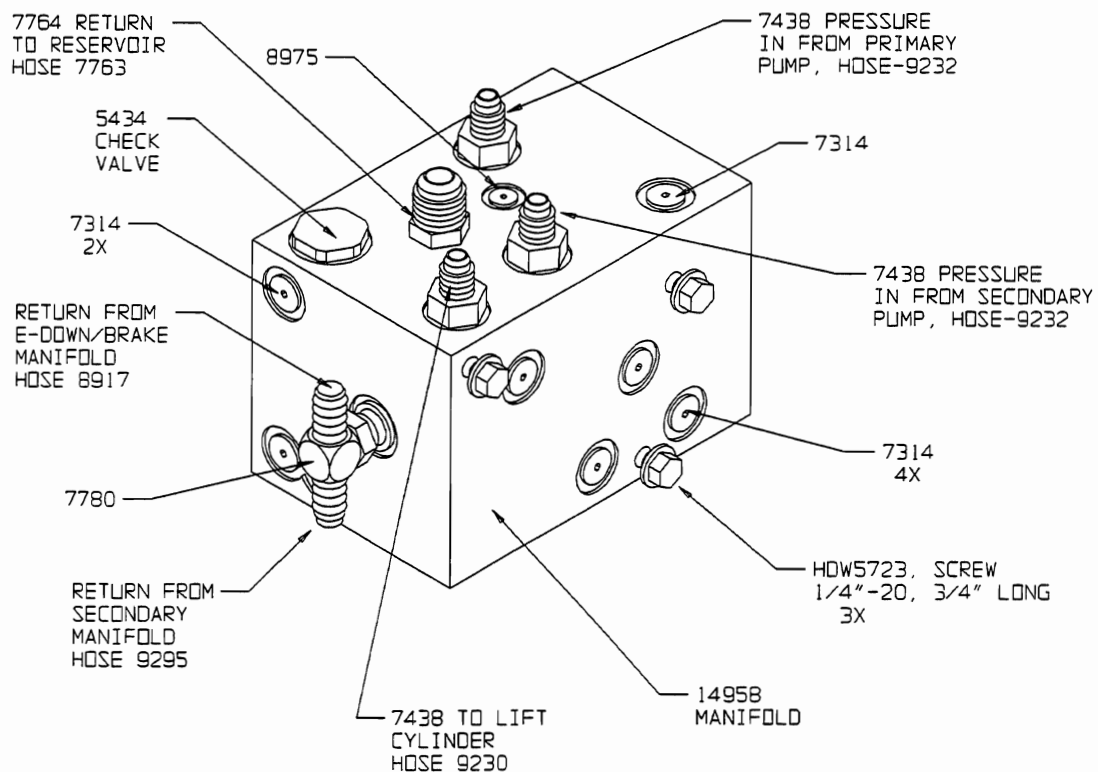
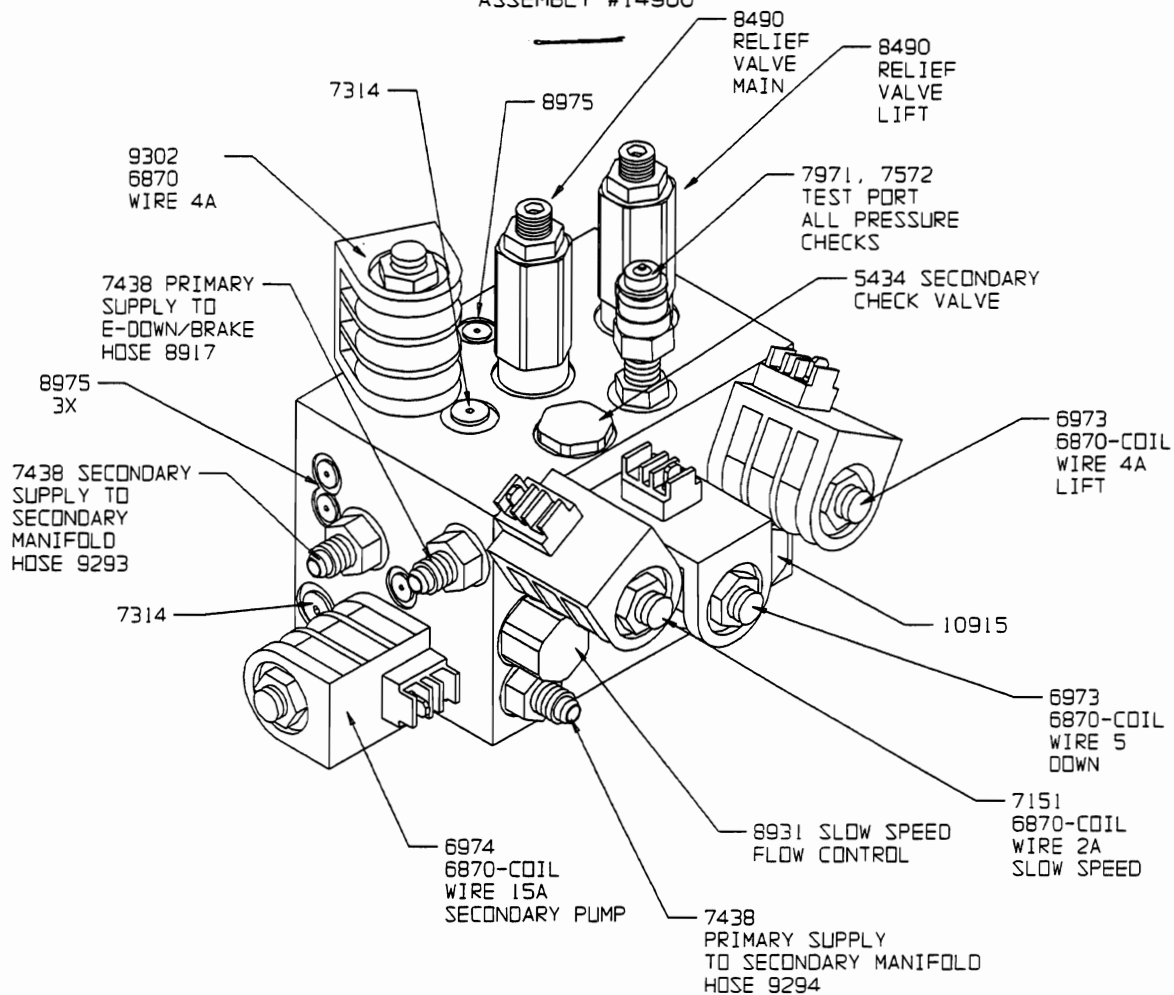
Figure 7-2 3072 4WD Hose Layout Assembly

ITEM	PART NO.	QTY.	DESCRIPTION
1	9238	1	HOSE - 3/4" ID X 16' LONG, 250 PSI RESERVOIR TO PUMP
2	7763	1	HOSE ASSEMBLY - PRIMARY MANIFOLD TO RESERVOIR STRAIGHT FEMALE 45 DEG, STRAIGHT FEMALE 45 DEG 1/2" X 62" LONG, 1R4
3	6458	8	5/16" ID FUEL LINE HOSE 3A - 18' LONG, CYLINDER DRAIN 3B - 18' LONG, EMERGENCY DOWN 3C - 4' LONG, TANK TO CROSS 3D - 6' LONG, RIGHT REAR MOTOR CASE DRAIN TO CROSS 3E - 6' LONG, LEFT REAR MOTOR CASE DRAIN TO TEE 3F - 6' LONG, LEFT FRONT MOTOR CASE DRAIN TO TEE 3G - 6' LONG, RIGHT FRONT MOTOR CASE DRAIN TO CROSS 3H - 2' LONG, TEE HOSE BARB TO CROSS HOSE BARB
4	9224	1	HOSE ASSEMBLY - SECONDARY MANIFOLD TO LEFT REAR MOTOR, FRONT PORT STRAIGHT FEMALE 37 DEG, STRAIGHT FEMALE 37 DEG 3/8" X 77" LONG, 1R1
5	9226	2	HOSE ASSEMBLY - FRONT MOTORS BOTTOM PORT, TO REAR MOTORS BACK PORT STRAIGHT FEMALE 37 DEG, ELBOW FEMALE 37 DEG. 3/8" X 116" LONG, 1R1
6	9225	1	HOSE ASSEMBLY - SECONDARY MANIFOLD TO RIGHT REAR MOTOR, FRONT PORT STRAIGHT FEMALE 37 DEG, STRAIGHT FEMALE 37 DEG 3/8" X 97" LONG 1R1
7	9229	1	HOSE ASSEMBLY - E-DOWN/BRAKE MANIFOLD TO LIFT CYLINDER MANIFOLD STRAIGHT FEMALE 37 DEG, STRAIGHT FEMALE 37 DEG 1/4" X 184" LONG 1R1
8	9230	1	HOSE ASSEMBLY - PRIMARY MANIFOLD TO LIFT CYLINDER MANIFOLD STRAIGHT FEMALE 37 DEG, SPECIAL FEMALE 37 DEG 3/8" X 174" LONG 1R1
9	9222	1	HOSE ASSEMBLY - SECONDARY MANIFOLD TO LEFT FRONT MOTOR, TOP PORT STRAIGHT FEMALE 37 DEG, ELBOW FEMALE 37 DEG 3/8" X 62" LONG 1R1
10	9227	1	HOSE ASSEMBLY - E-DOWN/BRAKE MANIFOLD TO LEFT FRONT BRAKE STRAIGHT FEMALE 37 DEG, ELBOW FEMALE 37 DEG 1/4" X 83" LONG 1R1
11	9228	1	HOSE ASSEMBLY - E-DOWN/BRAKE MANIFOLD TO RIGHT FRONT BRAKE ELBOW FEMALE 37 DEG, ELBOW FEMALE 37 DEG 1/4" X 107" LONG 1R1
12	9223	1	HOSE ASSEMBLY - SECONDARY MANIFOLD TO RIGHT FRONT MOTOR, TOP PORT STRAIGHT FEMALE 37 DEG, ELBOW FEMALE 37 DEG 3/8" X 96" LONG 1R1
13	9232	2	HOSE ASSEMBLY - DUPLEX PUMP TO PRIMARY MANIFOLD STRAIGHT FEMALE 37 DEG, STRAIGHT FEMALE 37 DEG 1/4" X 46" LONG 1R1
14	8898	2	HOSE ASSEMBLY - LEFT STEERING CYLINDER TO RIGHT STEERING CYLINDER STRAIGHT FEMALE 37 DEG, STRAIGHT FEMALE 37 DEG 1/4" X 19" LONG 1R1
15	9231	2	HOSE ASSEMBLY - SECONDARY MANIFOLD TO STEERING CYLINDER STRAIGHT FEMALE 37 DEG, STRAIGHT FEMALE 37 DEG 1/4" X 46" LONG 1R1
16	HDW9235	1	PIPE FITTING, CROSS, 1/4" MALE HOSE BARB 1/4" MALE HOSE BARB
17	HDW9234	1	PIPE FITTING, TEE, MALE 1/4" HOSE BARB MALE 1/4" HOSE BARB
18	7510	4	SPRING, WIRE PROTECTOR (NOT SHOWN) AROUND HOSES AT WHEEL MOTOR PORTS
19	9294	1	TUBE, PRIMARY
20	9293	1	TUBE, SECONDARY
21	9295	1	TUBE, RETURN

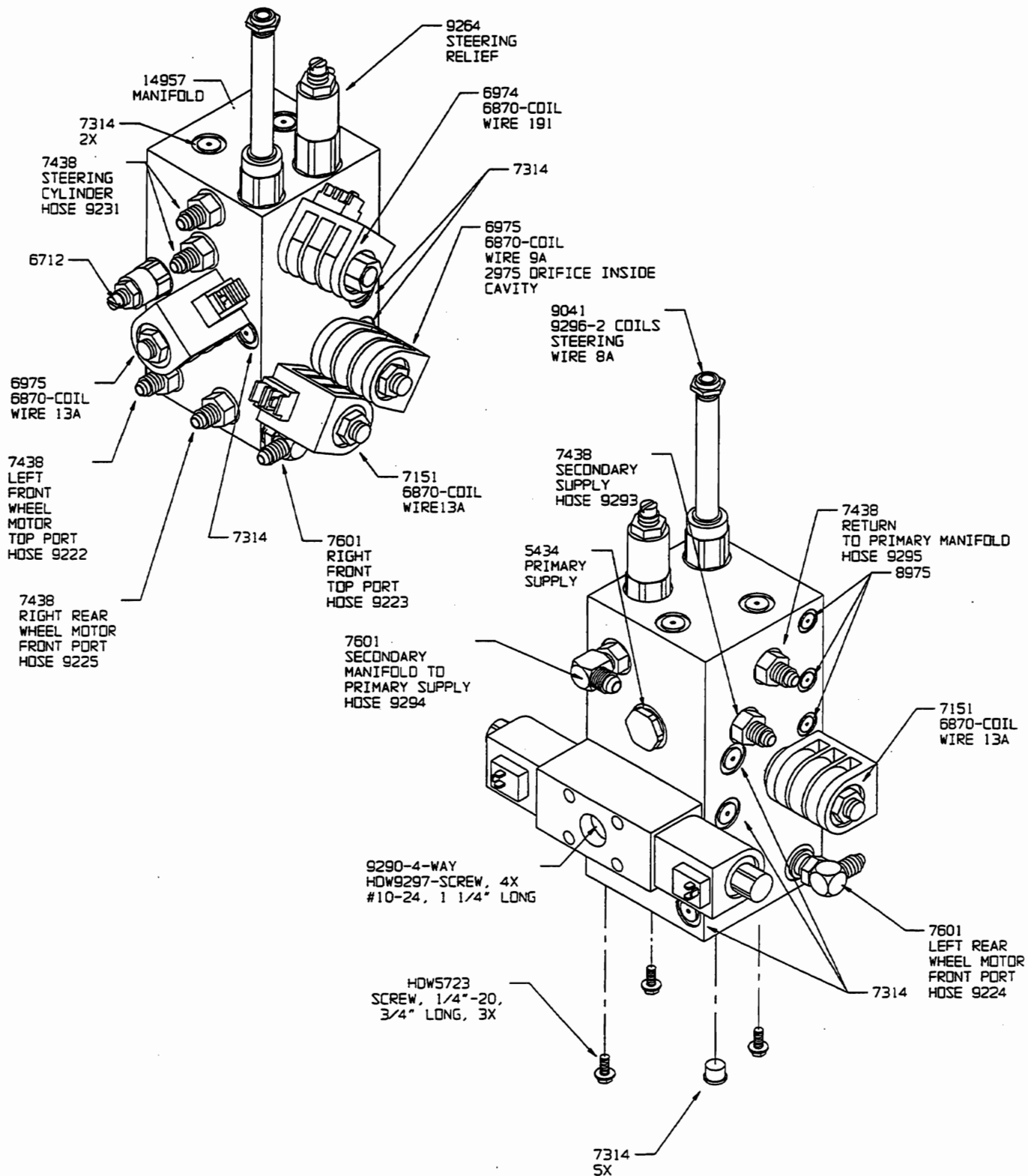
ART741 RO
BM16063
3/18/98

Figure 7-2 3072 4WD Hose Layout Assembly

PRIMARY MANIFOLD IDENTIFICATION AND PARTS BREAKDOWN
ASSEMBLY #14960



SECONDARY MANIFOLD IDENTIFICATION AND PARTS BREAKDOWN
ASSEMBLY # 14961



ART 738 R1
BM16058
8/21/98

Figure 7-4. 3072 4WD Secondary Manifold

14485 - EMERGENCY DOWN/BRAKE MANIFOLD

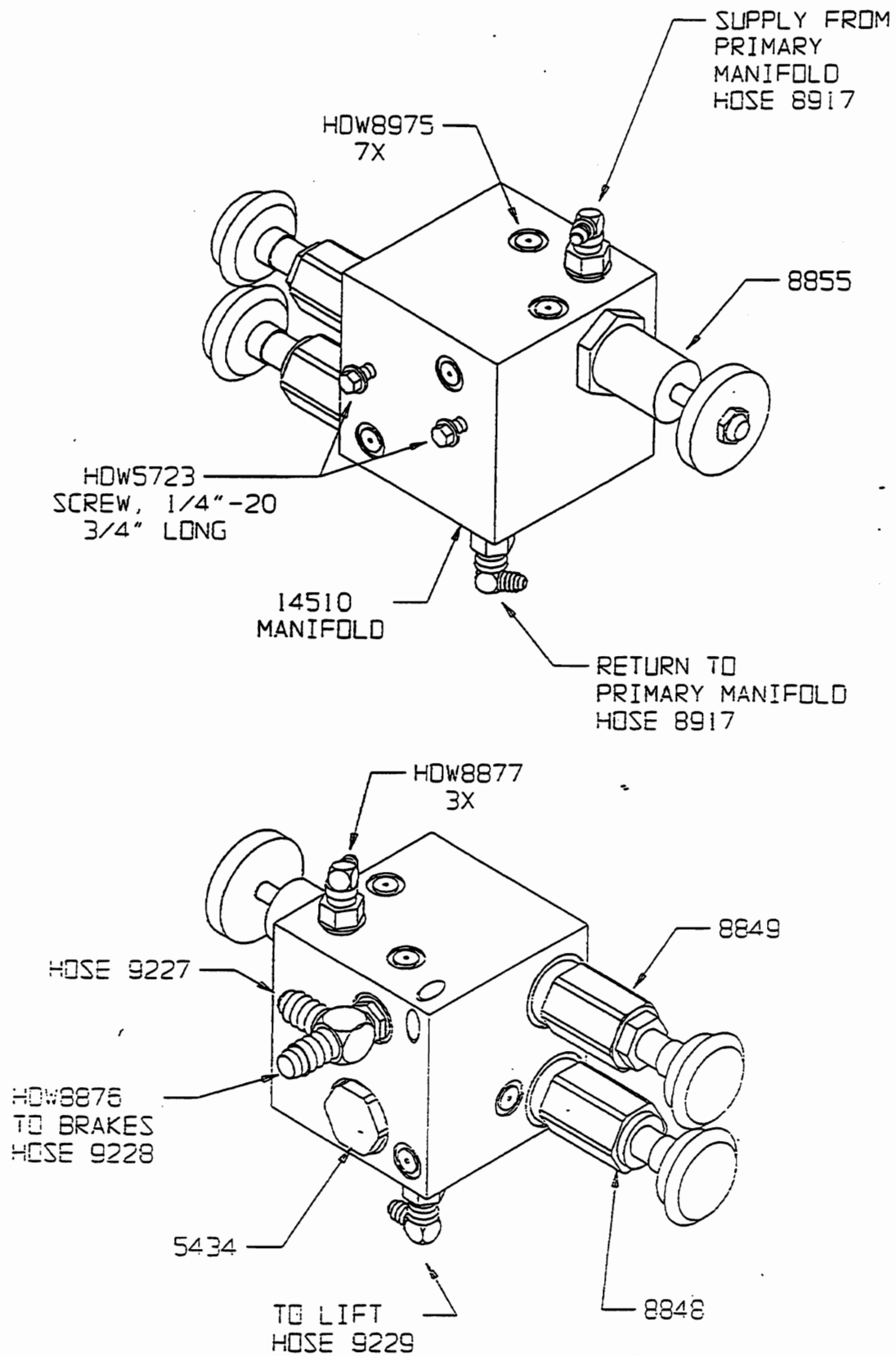
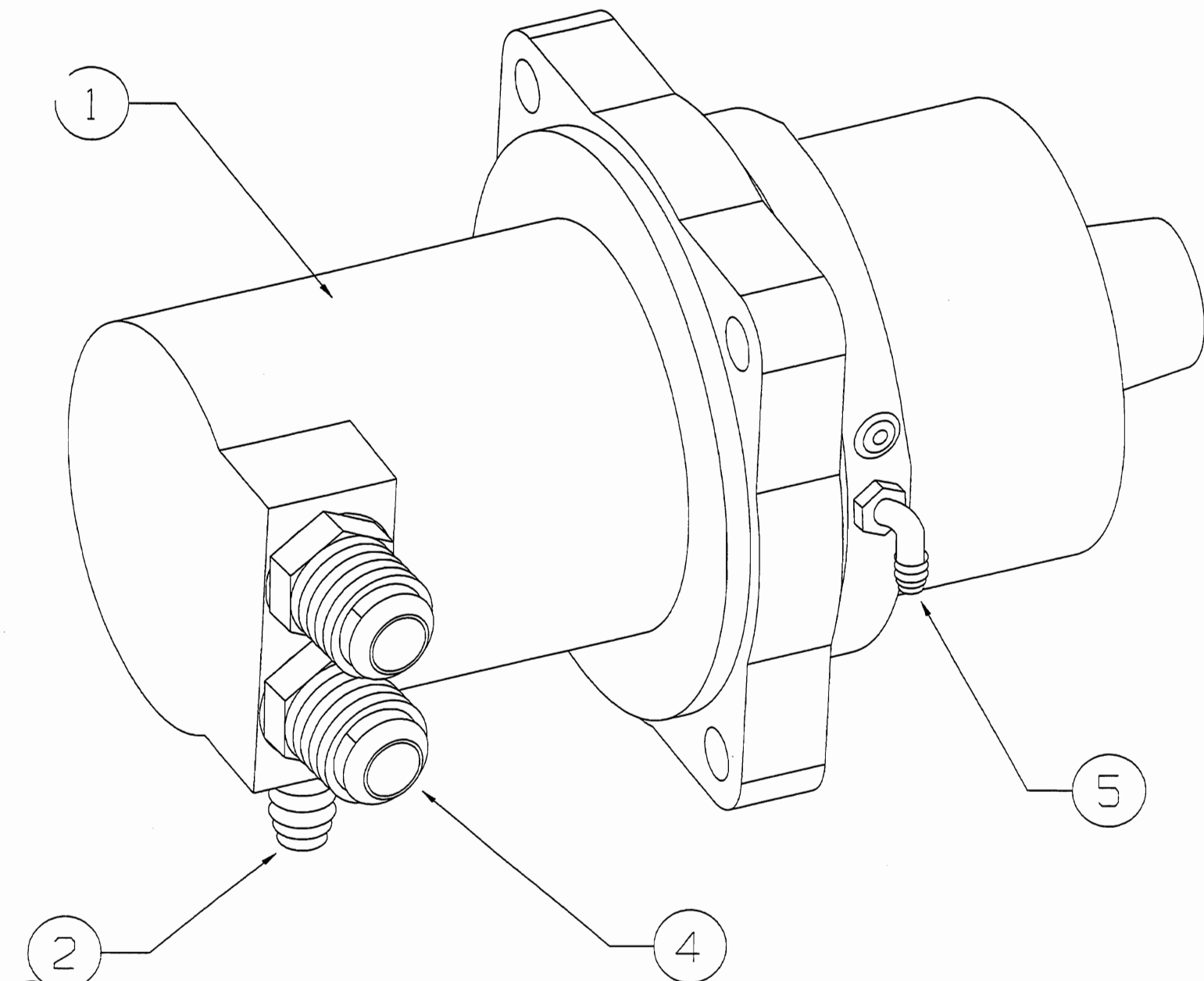


Figure 7-5 3072 4WD Emergency Down/Brake Manifold

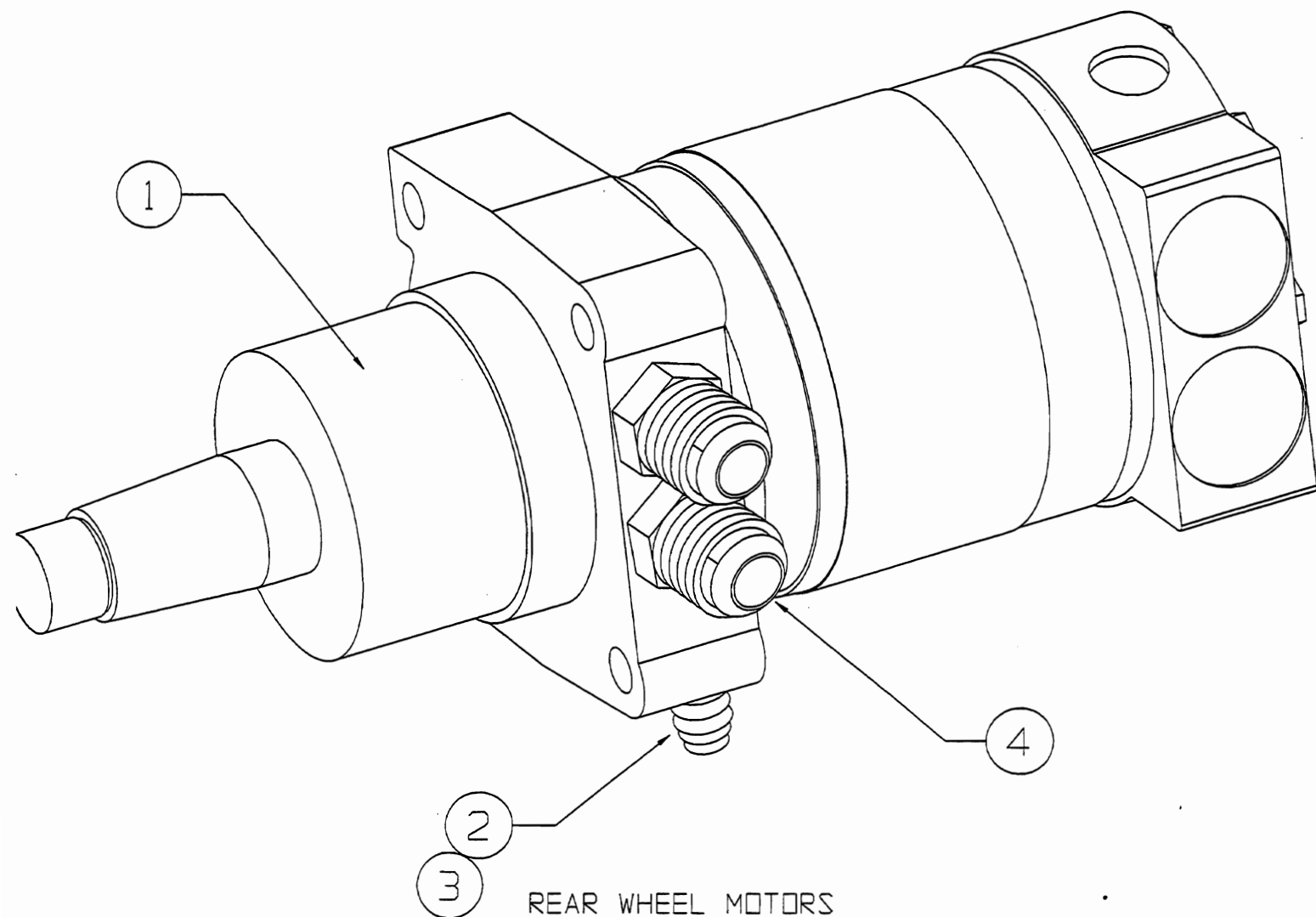


FRONT WHEEL MOTORS W/BRAKES

ITEM	PART NO.	QTY.	DESCRIPTION
1	8843	1	HYDRAULIC WHEEL MOTOR W/BRAKE
2	HDW9242	1	FITTING, ADAPTOR, MALE, 1/4", O-RING-MALE, 1/4" NPT
3	HDW6727	1	FITTING, ELBOW 90 DEG, MALE 5/16" HOSE BARB, MALE, 1/4" NPT
4	HDW8984	2	FITTING, ADAPTOR, MALE, 3/4", O-RING-MALE, 1/2", 37 DEG FLARE
5	HDW8877	1	FITTING, 90 DEG ELBOW, MALE, 1/4", O-RING-MALE, 1/4", 37 DEG FLARE

Figure 7-6 3072 4WD Front Wheel Motor w/Brakes

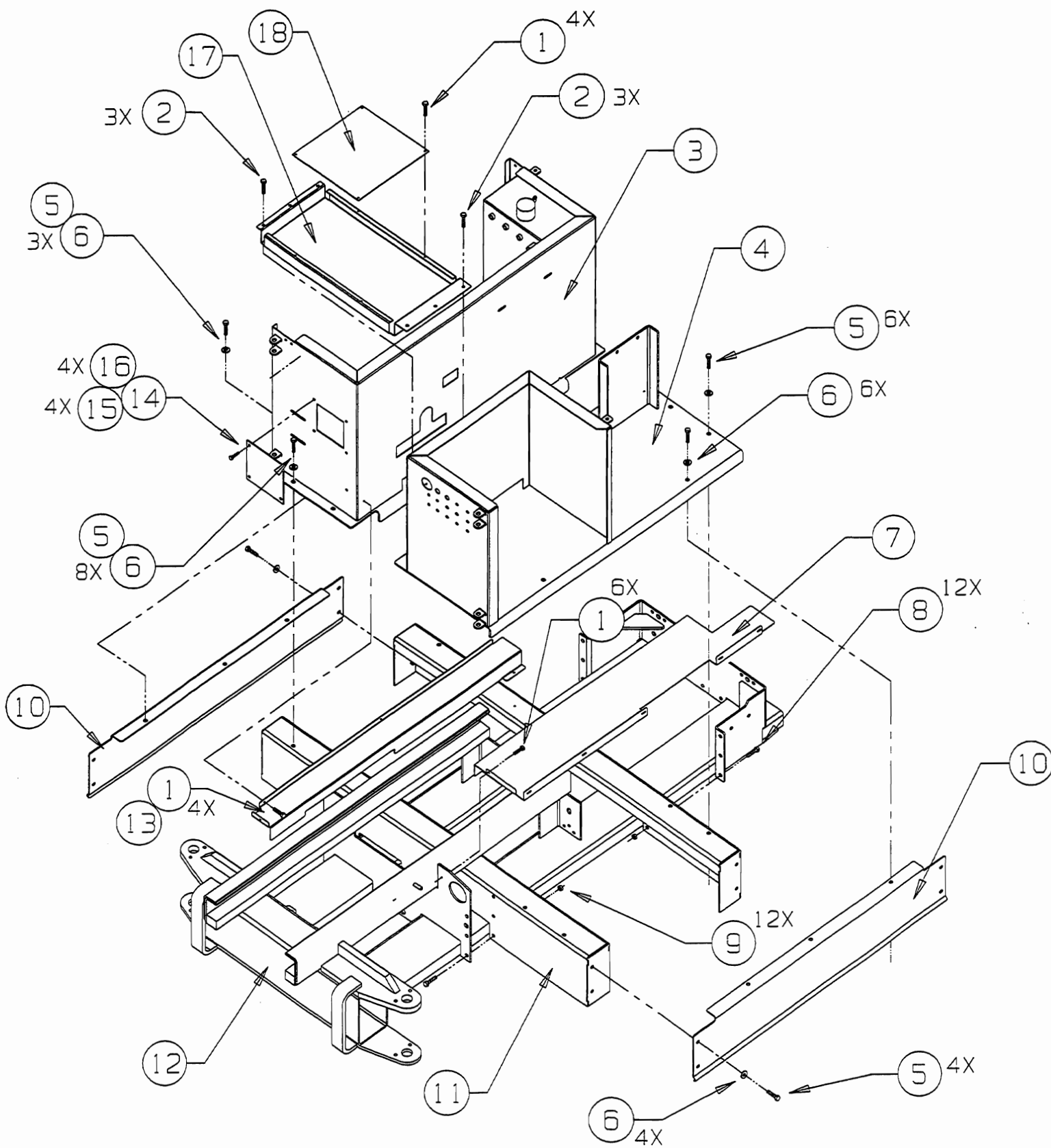
ART743 R0
BM16097
3/23/98



REAR WHEEL MOTORS

ITEM	PART NO.	QTY.	DESCRIPTION
1	7300P	1	HYDRAULIC WHEEL MOTOR
2	HOW9242	1	FITTING, ADAPTOR, MALE, 1/4", O-RING-MALE, 1/4" NPT
3	HOW6727	1	FITTING, ELBOW 90 DEG, MALE 5/16" HOSE BARB, MALE, 1/4" NPT
4	HOW8984	2	FITTING, ADAPTOR, MALE, 3/4", O-RING-MALE, 1/2", 37 DEG FLARE

Figure 7-7 3072 4WD Rear Wheel Motor



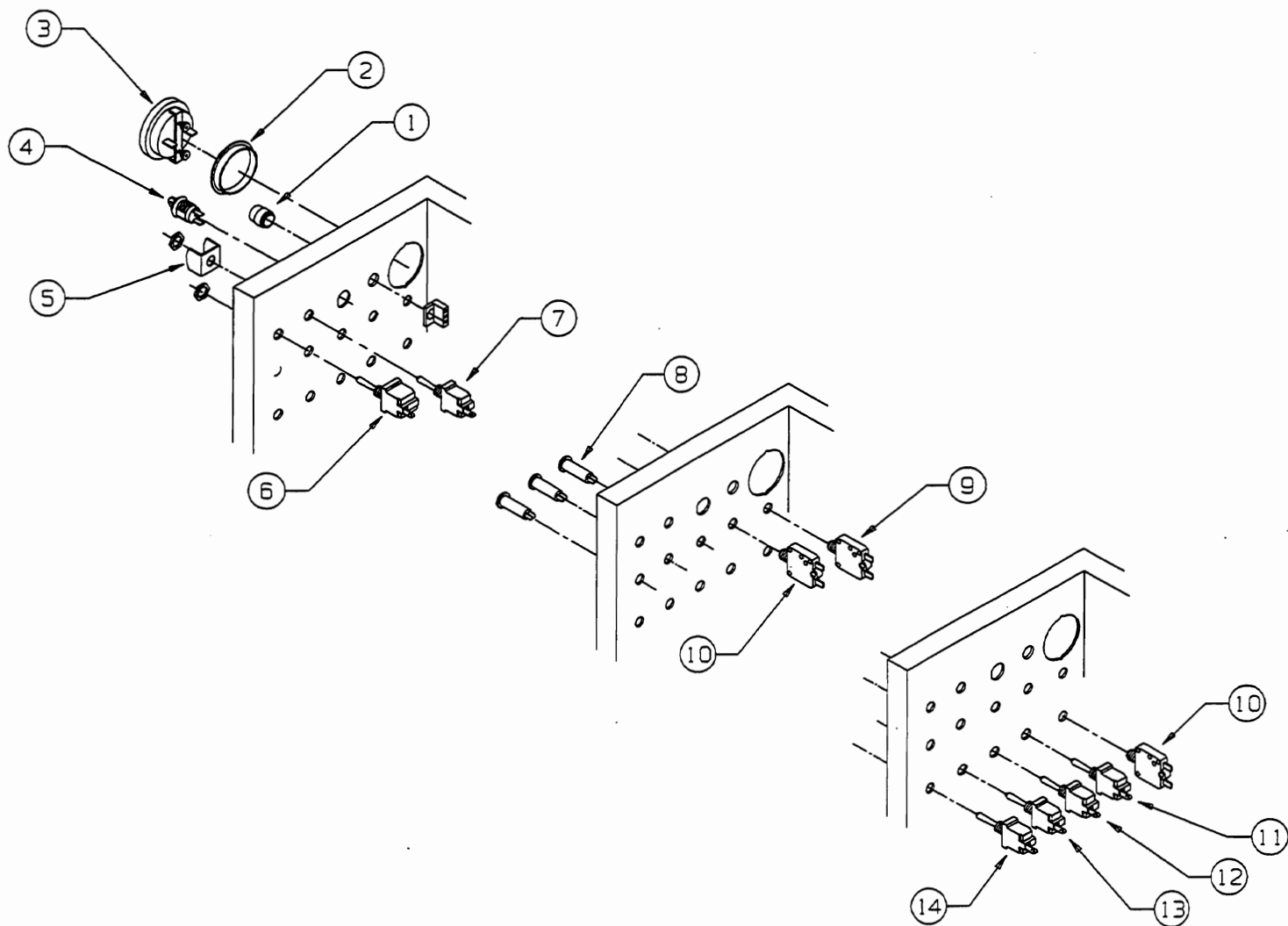
ART746 R1
BM16132
4/1/99

Figure 8-1. 3072 4WD Cabinetry

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW5723	14	SCREW, 1/2"-20, 3/4" LONG
2	HDW8273	6	SCREW, 1/4"-20, 1" LONG
3	14757	1	ENGINE CABINET WELDMENT
4	14766	1	ELECTRIC & FUEL CABINET WELDMENT
5	HDW8276	21	SCREW, 3/8"-16, 1 1/4" LONG
6	HDW5355	21	WASHER, FLAT
7	14787	1	HOSE TRAY COVER, LEFT
8	HDW6211	12	SCREW, 1/2"-13, 1 1/4" LONG
9	HDW6349	12	NUT, 1/2"-13
10	14626	2	SIDE PANEL
11	14782	2	SUPPORT TUBE WELDMENT
12	14323	1	BASE WELDMENT
13	14785	1	HOSE TRAY COVER, RIGHT
14	10913	1	GENERATOR COVER PANEL
15	HDW6432	4	SCREW, 3/8"-16, 3/4" LONG
16	HDW5039	4	NUT, 3/8"-16
17	14783	1	HOSE TRAY
18	14784	1	HOSE TRAY COVER

ART746 R1
BM16132
4/1/99

Figure 8-1. 3072 4WD Cabinetry



ART745 R2
BM16102
7/27/98

Figure 8-2. 3072 4WD Control Panel

ITEM	PART NO.	QTY.	DESCRIPTION
1	7800	1	SWITCH, EMERGENCY STOP
	9345	1	BLOCK-CONTACT N.C. (ABB) OR
	8083	1	BLOCK-CONTACT N.C. (TELEMECANIQUE)
2	7115	1	PLUG
3	7909	1	HOUR METER, 24-48 VOLT DC (OPTIONAL)
4	5936	1	KEY SWITCH
5	1313	1	SWITCH GUARD
6	8638	1	TOGGLE SWITCH, 4 POLE 2 POSITION
7	5230	1	TOGGLE SWITCH, 3 POSITION MOMENTARY, CENTER OFF
8	7806	1	INDICATOR LIGHT
9	7235	1	CIRCUIT BREAKER, 15 AMP MANUAL
10	7447	2	CIRCUIT BREAKER, 30 AMP
11	6234	1	TOGGLE SWITCH, 1 POLE 2 POSITION, MAINTAINED
12	5630	1	TOGGLE SWITCH, 2 POSITION MAINTAINED
13	7423	1	TOGGLE SWITCH, 1 POLE 2 POSITION, MOMENTARY
14	9149	1	TOGGLE SWITCH, 2 POLE 3 POSITION

ART745 R2
BM16102
7/27/98

Figure 8-2. 3072 4WD Control Panel

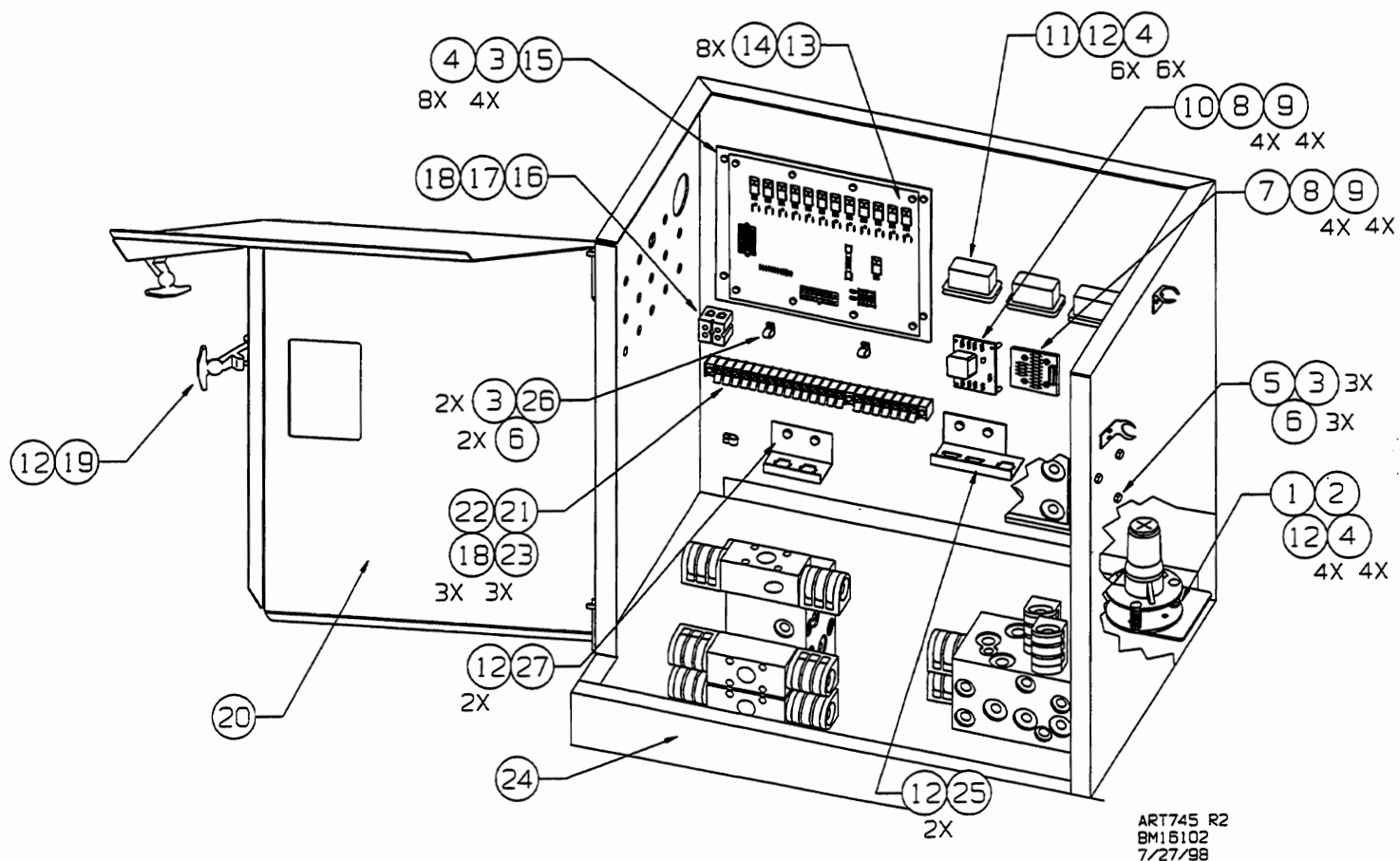
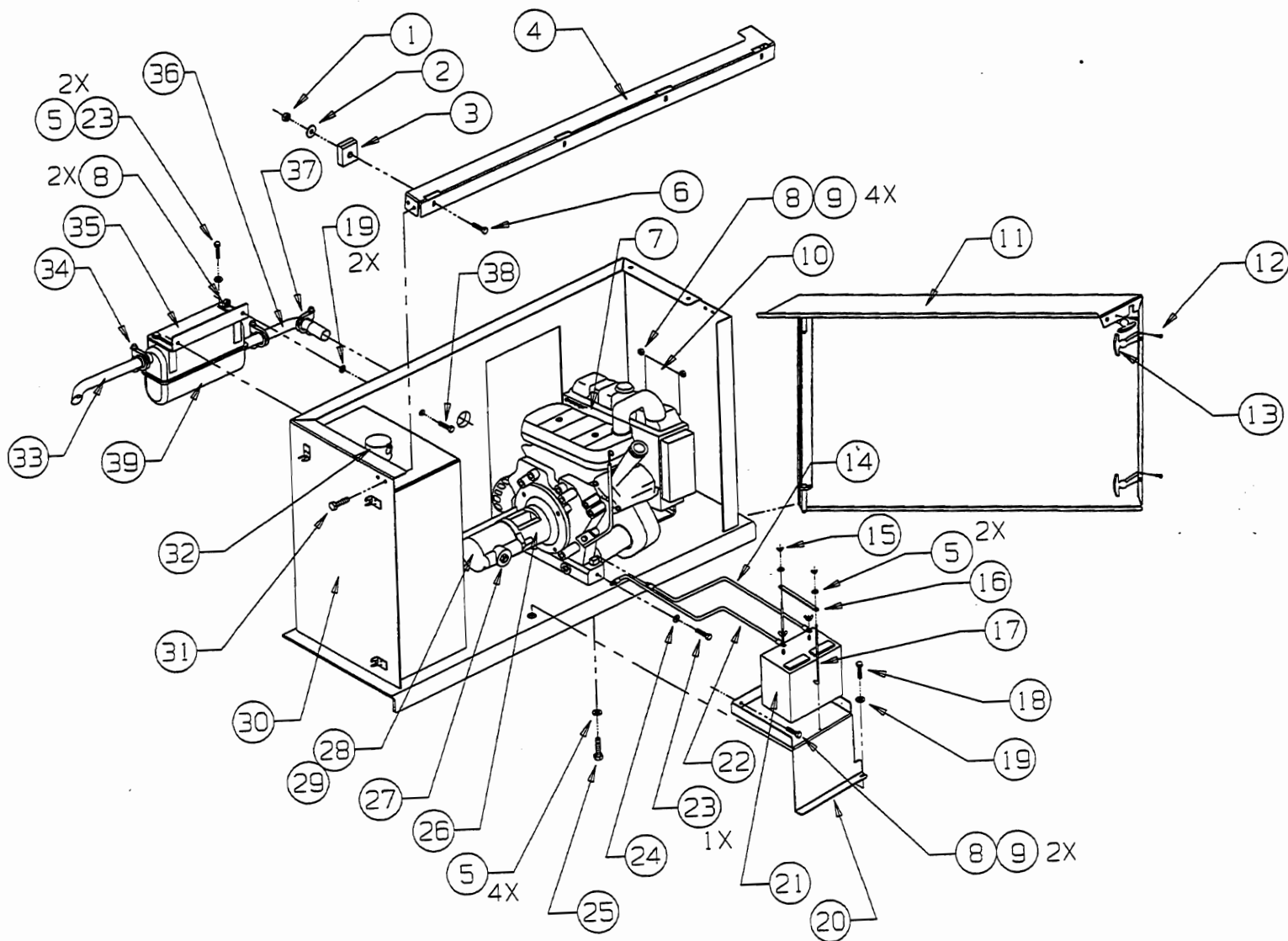


Figure 8-3. 3072 4WD Left Side Base

ITEM	PART NO.	QTY.	DESCRIPTION
1	7552 8743	1 1	LEVEL SENSOR, 4 1/2 DEG. - 1 SECOND DELAY-OPTIONAL LEVEL SENSOR, 2 DEG. - OPTIONAL
2	13683	1	BRACKET
3	HDW5723	9	SCREW, 1/4"-20, 3/4" LONG
4	HDW5276	18	NUT, 1/4-20
5	14566	1	BRACKET, MANIFOLD
6	HDW8267	5	LOCNUT, 1/4"-20
7	9193	1	CIRCUIT BOARD
8	HDW8732	8	SCREW, #4, 1" LONG
9	HDW7886	8	NUT, #4-40
10	9208	1	RELAY, 12V, ON DELAY
11	6889	3	POWER RELAY, 12 VOLT DC, 25 AMP
12	HDW6455	14	SCREW, 1/4"-20, 1/2" LONG
13	9021	1	RELAY BOARD (WITH J1 REMOVED)
14	HDW7561	8	SCREW, #6-32, 3/4" LONG
15	20125	1	RELAY PLATE
16	7492	1	TERMINAL BLOCK
17	HDW7231	1	SCREW, #6-32, 1 1/4" LONG
18	HDW5364	4	NUT, #6-32
19	7697	2	LATCH, RUBBER T-HANDLE
20	14762	1	DOOR
21	6947	1	TERMINAL STRIP
22	7970	1	STRIP MARKER, 1-22
23	HDW5363	3	SCREW, #6-32, 1" LONG
24	14766	1	ELECTRIC & FUEL CABINET
25	14801	1	JUNCTION PLATE
26	5882	3	CABLE CLAMP
27	14848	1	JUNCTION PLATE

ART745 R2
BM16102
7/127/98

Figure 8-3. 3072 4WD Left Side Base



ART 744 R1
BM1610!
4/1/99

Figure 8-4. 3072 4WD Right Side Base

ITEM	PART NO.	QTY.	DESCRIPTION
1	HDW6461	4	NUT, 1/4"-20
2	HDW10490	4	WASHER, FLAT
3	14896	4	SLIDE BLOCK, ENGINE DOOR
4	14826	1	BRACKET, ENGINE CABINET CROSS SUPPORT
5	HDW5217	6	WASHER, FLAT
6	HDW8273	6	SCREW, 1/4"-20 X 1" LONG
7	8987	1	ENGINE, 20 HP KAWASAKI
8	HDW5039	8	NUT, 3/8"-16
9	HDW6432	6	SCREW, 3/8"-16 X 3/4" LONG
10	10913	1	COVER, GENERATOR PANEL
11	14751	1	DOOR, ENGINE CABINET WELDMENT
12	HDW6455	6	SCREW, 1/4"-20 X 1/2" LONG
13	7697	3	T-HANDLE, RUBBER
14	9064	1	CABLE, BATTERY-UL1283,#2 RED, 36" LONG-TO STARTER
15	HDW6110	2	WINGNUT, 1/4"-20
16	3436	1	BAR, HOLD DOWN
17	2987	2	ROD, HOLD DOWN
18	HDW8276	1	SCREW, 3/8"-16, 1 1/4" LONG
19	HDW5355	3	WASHER, FLAT
20	14945	1	TRAY, BATTERY
21	6854	1	BATTERY, 12 VOLT STARTER
22	9243	1	CABLE, BATTERY-UL1283,#2 BLACK, 30" LONG-TO ENGINE FRAME
23	HDW19M7881	3	SCREW,TAP, M8-1.25mm X 20mm LONG
24	HDW5006	1	WASHER, SPLIT
25	HDW7482	4	SCREW, CAP, M8-1.25mm X 20mm LONG
26	8973	1	BRACKET, PUMP MOUNTING
27	6864	1	ADAPTOR, PUMP TO RESERVOIR, 3/4" X 5/8" STEEL
28	6855	1	PUMP, INCLUDE 6306-COUPPLING GREASE
29	9004	1	COUPPLING SPLINE, L100, 16/32
30	14757	1	ENGINE CABINET WELDMENT
31	HDW5724	4	SCREW, 5/16"-18 X 3/4" LONG
32	7278	1	GAS CAP, BASE LOCKING
33	9100	1	TAIL PIPE, EXHAUST
34	9273	1	CLAMP, EXHAUST, 1 1/4"
35	20120	1	BRACKET, SUPPORT, EXHAUST
36	9099	1	EXHAUST MANIFOLD
37	9205	2	CLAMP, EXHAUST ASSEMBLY
38	HDW6433	2	SCREW, 3/8"-16 X 1" LONG
39	9084	1	MUFFLER

ART 744 R1
BM16101
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Figure 8-4. 3072 4WD Right Side Base

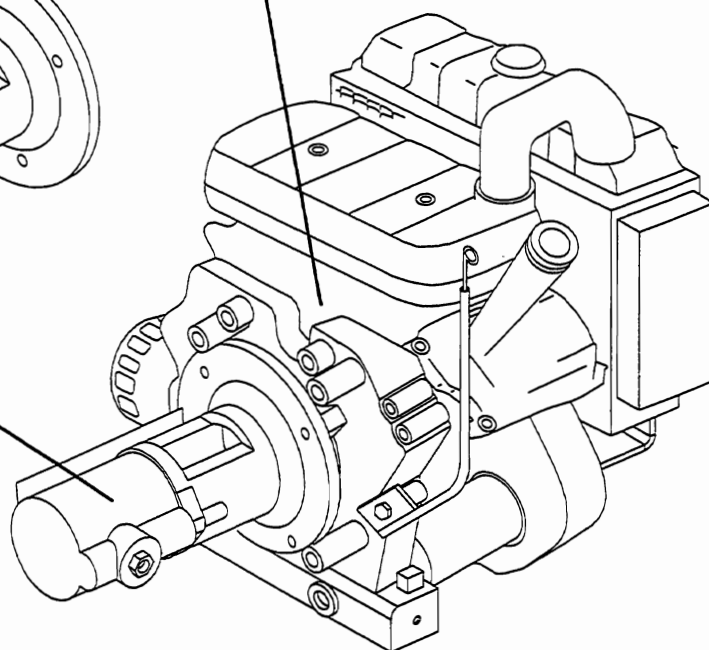
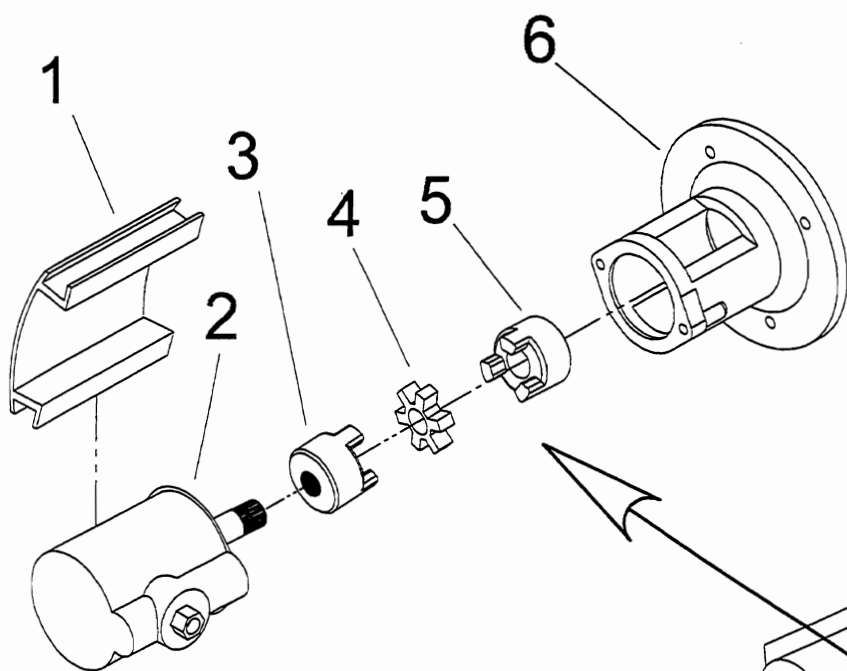
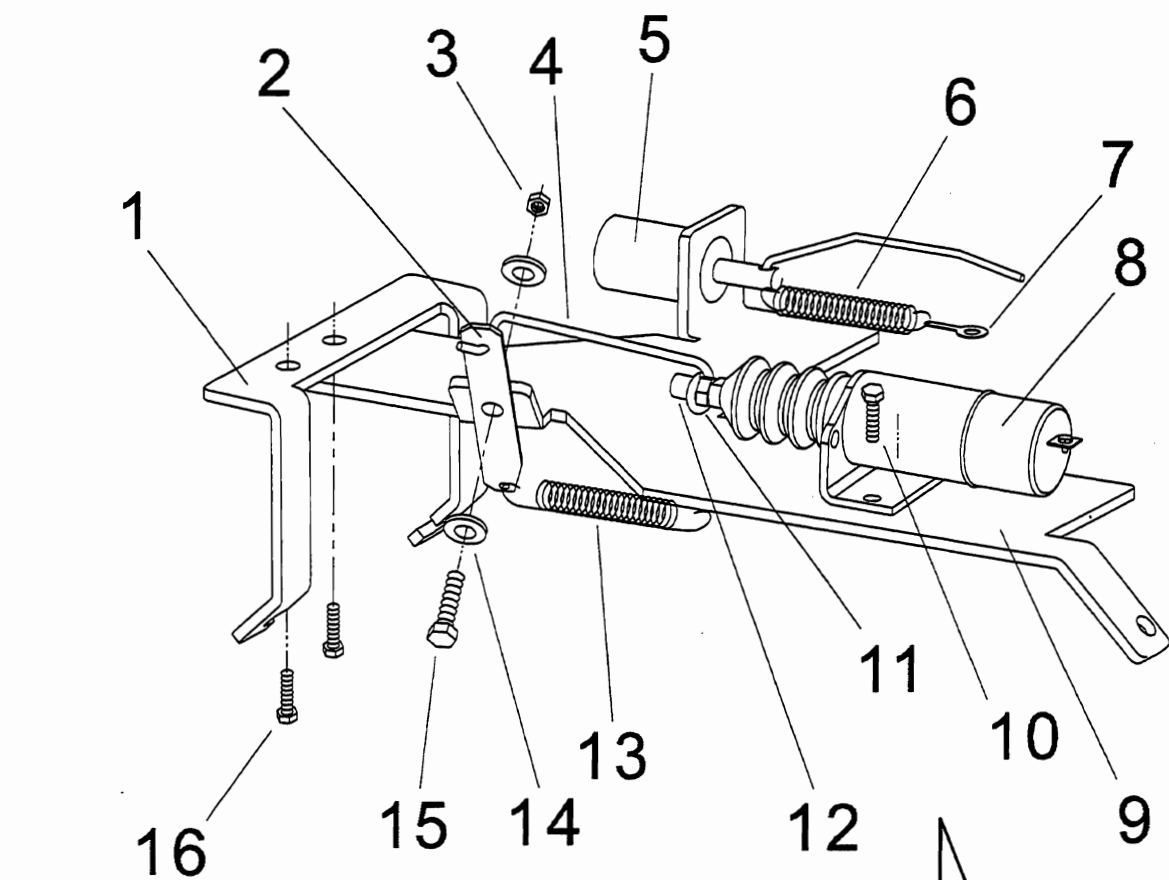
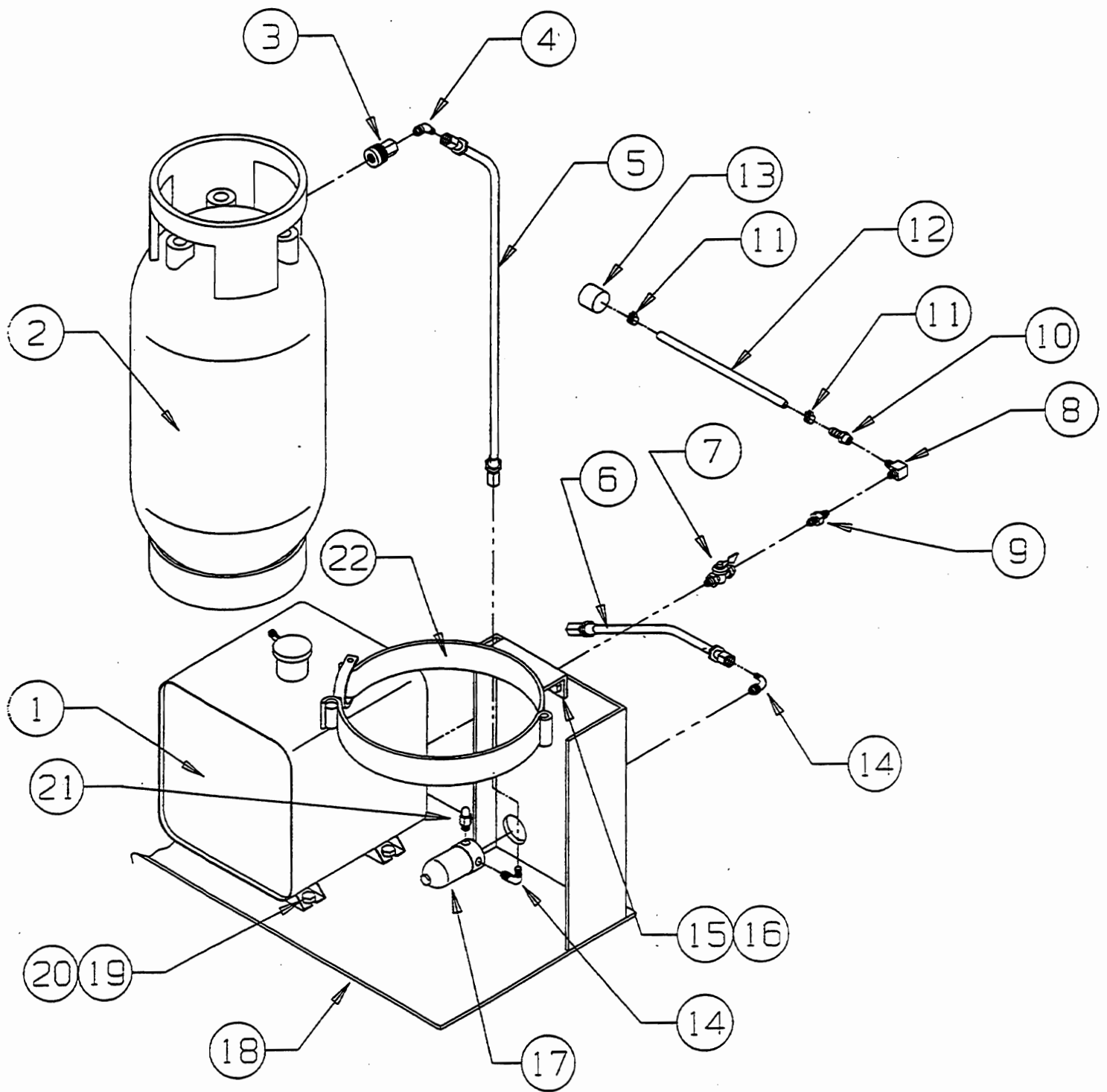


Figure 8-4. cont'd Kawaskaki Dual Fuel Components

ITEM	PART NO.	QTY.	DESCRIPTION
1	14788	2	BRACKET, LP REGULATOR
2	14803	1	THROTTLE, LIFT LEVER
3	HDW304J	1	NUT, #10-24, NYLON
4	9171	1	LINK, THROTTLE-DUAL FUEL
5	7397	1	SOLENOID, CHOKE
6	9246	1	SPRING, CHOKE-STATIONARY MOUNT
7	9246	1	MOUNT, STATIONARY, CHOKE SPRING
8	7398	1	SOLENOID
9	14789	1	BRACKET, THROTTLE LINKAGE
10	HDW6455	2	SCREW, 1/4"-20, 1/2" LONG
11	HDW7475	1	NUT, 1/4"-28
12	HDW9247	1	SCREW, 1/4"-28, 1" LONG
13	8981	1	SPRING
14	HDWN153834	2	WASHER, FLAT
15	HDW14875	1	SCREW
16	HDW5723	2	SCREW, 1/4"-20, 3/4" LONG

ITEM	PART NO.	QTY.	DESCRIPTION
1	8978	1	COVER, PUMP MOUNTING
2	6855	1	PUMP, HYDRAULIC
3	9004	1	COUPLING, SPLINE, L100, 16/32
4	7287	1	SPIDER, COUPLING, LOVEJOY, L100
5	7286	1	COUPLING, LOVEJOY, L100, 1 1/8" - 1/4"
6	8973	1	PUMP, MOUNTING BRACKET

Figure 8-4. cont'd Kawasaki Dual Fuel Components



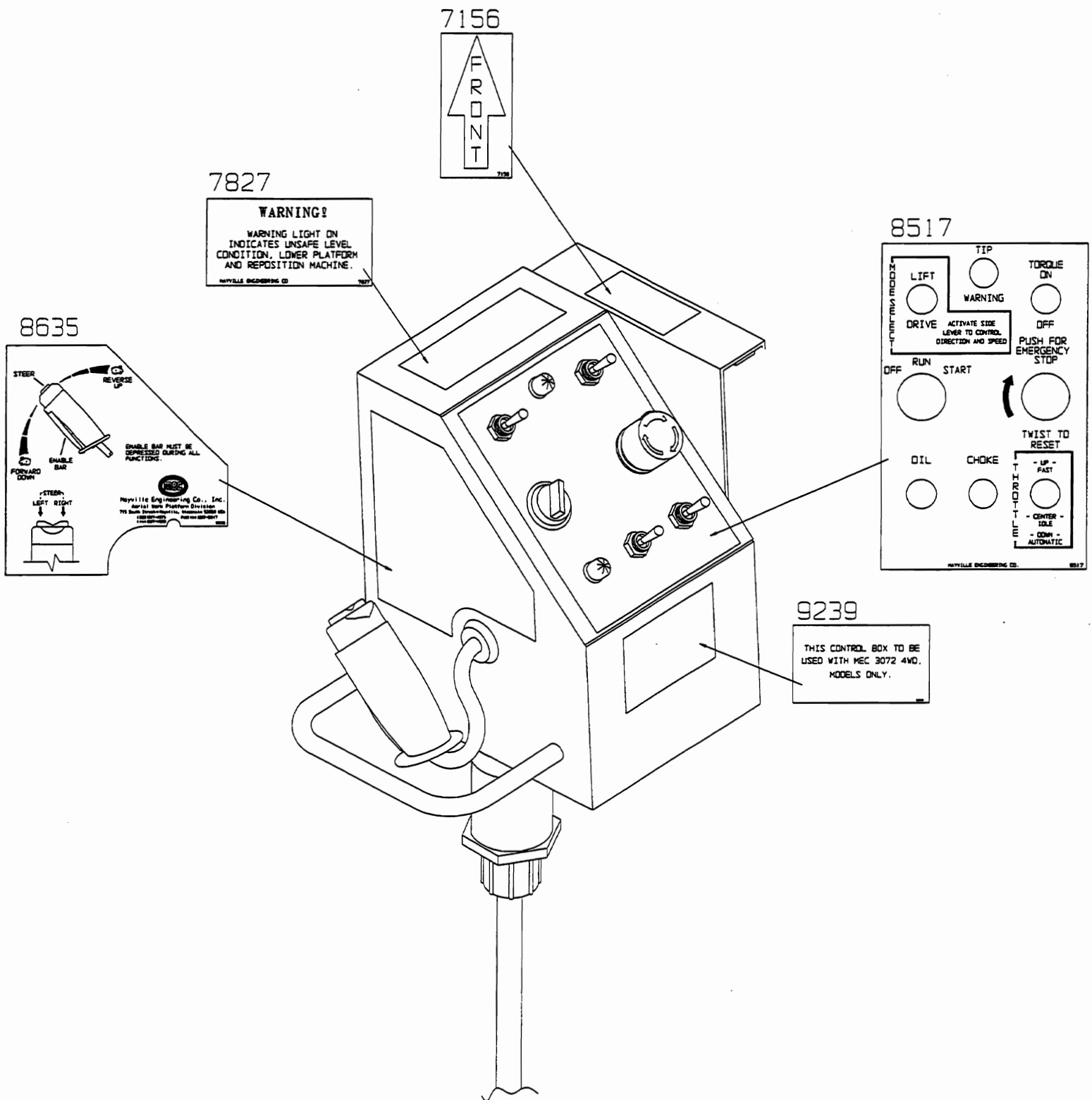
ART748 R0
 BM126217
 5/27/98

Figure 8-5 3072 4WD LP & Gas Tank

ITEM	PART NO.	QTY.	DESCRIPTION
1	3419	1	GAS TANK
2	6859	1	LP TANK
3	6868	1	QUICK DISCONNECT
4	HDW6895	1	PIPE FITTING, 45 DEG. ELBOW, MALE 3/8" 45 DEG MALE 1/4" PIPE THREAD
5	6890	1	HOSE ASSEMBLY
6	7406	1	HOSE ASSEMBLY-LP GAS
7	6919	1	SHUT OFF VALVE - GAS LINE
8	6863	1	ELBOW, MALE, 1/8"
9	HDW7509	1	PIPE FITTING UNION, MALE 1/8" DRY SEAL, MALE, 1/8" DRY SEAL
10	HDW7508	1	PIPE FITTING UNION, FEMALE 1/8" DRY SEAL, MALE, 5/16" HOSE BARB
11	7788	2	CLAMP, HOSE - 5/8" OD HOSE
12	6458	A/R	RETURN LINE HOSE
13	8514	1	FUEL FILTER
14	6894	2	PIPE FITTING, 90 DEG. ELBOW, MALE 3/8" SAE MALE, 1/4" NPT
15	HDW6433	2	SCREW, 3/8" - 16, 1" LONG
16	HDW5039	2	NUT, 3/8"-16
17	6861	1	BULKHEAD FILTER
18	14766	1	ELECTRIC AND FUEL CABINET
19	HDW8310	4	SCREW, 5/16" - 18, 1 1/4" LONG
20	HDW7032	4	NUT, 5/16" - 18
21	6938	1	RELIEF VALVE, LP GAS
22	6860	1	MOUNTING BRACKET, LP TANK

ART748 RO
BM126217
5/27/98

Figure 8-5 3072 4WD LP & Gas Tank



ART729 R3
BM15746
4/1/99

Figure 8-6. 3072 4WD Decals

9185 - 2X

MEC 3072 4WD

8811

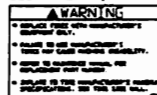


8402 - 2X



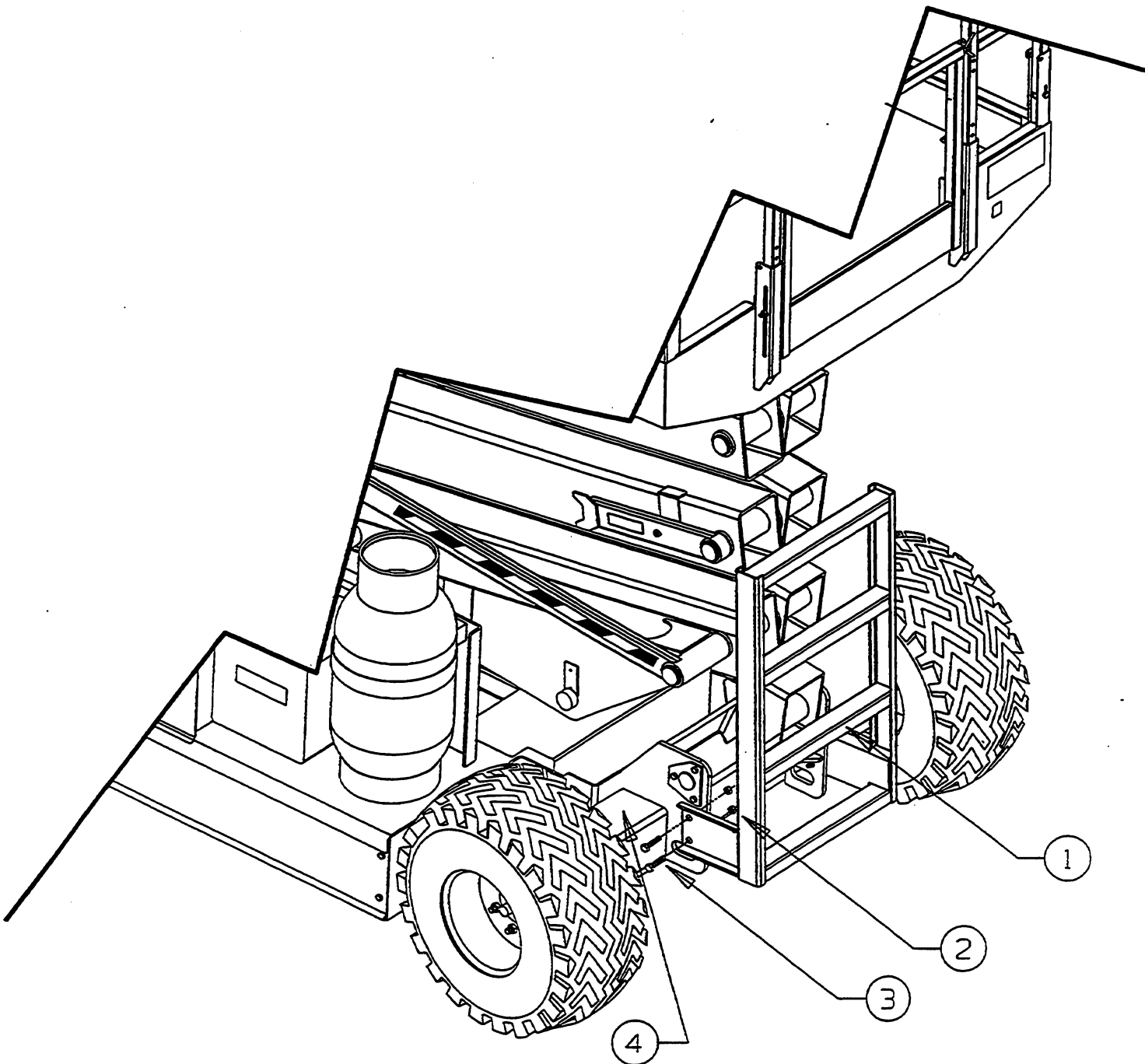
6873 - INSIDE ON TANK
HYDRAULIC OIL

9287 - 2X



ART729 R3
BM15746
4/1/99

Figure 8-6. 3072 4WD Decals



ITEM	PART NO.	QTY.	DESCRIPTION
1	14386	1	LADDER
2	HDW6349	4	NUT, 1/2"-13
3	HDW8283	4	SCREW, 1/2"-13, 1 1/2" LONG
4	14772	1	AXLE, REAR

ART752 R0
BM16359
5/6/98

Figure 8-7 3072 4WD Ladder Assembly



14975-FLASHING LIGHT KIT

PART NO.	QTY.	DESCRIPTION
7101	1	FLASHING LIGHT-12VDC
14981	1	BRACKET
8086	1	TERMINAL, 1/4" PUSH ON
6492	1	SNAP BUSHING
8371	1	TERMINAL, MALE, FEMALE
HOW5217	4	WASHER, FLAT
HOW6461	2	NUT, 1/4"-20 (ATTACHES BRACKET TO CABINET)
HOW8273	2	SCREW, 1/4"-20, 1" LONG (ATTACHES BRACKET TO CABINET)
8933	1	BULB FOR FLASHING LIGHT- XENON STROBE-#5001

14578-AIRLINE TO PLATFORM

PART NO.	QTY.	DESCRIPTION
5351	3	CABLE TIE
8548	49'	AIR LINE HOSE, 1/4"
8557	1	HOSE CLAMP, 9/16" DIA.
8559	2	HOSE CLAMP, 2 EAR, 9/16"
HOW5052	2	AIR LINE FITTING, MALE, 1/4" NPT, 1/4" HOSE BARB
HOW6455	1	SCREW, 1/4"-20, 1/2" LONG



14595-110V OUTLET OPTION

PART NO.	QTY.	DESCRIPTION
11373	1	OUTLET BOX BRACKET
4319	1	OUTLET BOX GFI (BASE)
4333	1	RECEPTACLE BOX, DUPLEX (BASE)
5381	1	RECEPTACLE, DUPLEX (PLATFORM)
5382	1	110V PLUG (BASE)
6456	2	CORD GRIP, STEEL
7263	1	RECEPTACLE GFI, DUPLEX (BASE)
7617	50'	WIRE, 14 GA, 3 CONDUCTOR
8006	2	NUT, CONNECTOR, 1/2" CONDUIT
8207	1	CONNECTOR, CONDUIT, 90 DEG
8208	1	FLEXIBLE CONDUIT, 3/8" X 18"
8209	1	FERRULE, CONDUIT 3/8"
HOW5229	2	SCREW, #6-32, 3/8" LONG
HOW6455	4	SCREW, 1/4"-20, 1/2" LONG (OUTLET BOX TO BRACKET AT PLATFORM)
HOW5204	2	SCREW, 5/16"-18, 1" LONG (OUTLET TO BRACKET)
HOW8310	4	SCREW, 5/16"-18, 1 1/4" LONG (BRACKET TO BASE)
HOW8501	2	NUT, #6-32 (OUTLET BOX AT PLATFORM)
HOW5005	4	NUT, 5/16"-18 (AT BASE)
8476	1	WIRE NUT (CONNECTS GROUNDS AT BASE)
5351	2	CABLE TIES

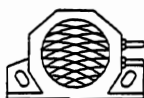
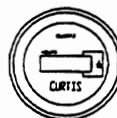
14597-110V WIRE ONLY

PART NO.	QTY.	DESCRIPTION
5351	2	CABLE TIE
7617	53'	WIRE, BULK 14 GA - 3

ART754 R2
BM16386
10/14/98

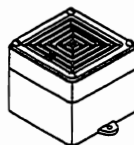
Figure 8-8. 3072 4WD Options

PART NO.	QTY.	DESCRIPTION
7909	1	HOUR METER, 24-48V, DC
8783	1	HARNESS, HOUR METER



14963-MOTION ALARM KIT

PART NO.	QTY.	DESCRIPTION
8698	1	MOTION ALARM, 12-48 VOLTS
HOW5723	2	SCREW, 1/4"-20, 3/4" LONG (TO LOWER CONTROL PANEL)
9304	1	MOTION ALARM HARNESS
8710	1	TERMINAL INSULATOR-BLACK BOOT
8709	1	TERMINAL INSULATOR-RED BOOT



14839-HORN

PART NO.	QTY.	DESCRIPTION
7495	1	JUNCTION BOX
9244	1	WIRE HARNESS, HORN
7435	1	ALARM, 24VDC
HOW5276	2	NUT, 1/4"-20
HOW5723	2	SCREW, 1/4"-20, 3/4" LONG
HOW8530	2	SCREW, #8-32, 1 1/2" LONG
7963	2	CONNECTOR, BUTT SPLICE 14 GA.
7914	2	CABLE TIE



40025 - STANDARD TIRE

PART NO.	QTY.	DESCRIPTION
40021	2	WHEEL/TIRE ASSEMBLY - RIGHT
40022	2	WHEEL/TIRE ASSEMBLY - LEFT

40027 - FOAM 26"

PART NO.	QTY.	DESCRIPTION
40023	2	WHEEL/TIRE ASSEMBLY - RIGHT
40024	2	WHEEL/TIRE ASSEMBLY - LEFT

20052-4.5 DEGREE TILT SENSOR

PART NO.	QTY.	DESCRIPTION
9324	1	LEVEL SENSOR, 4.5 DEGREE
HOW5276	4	NUT, 1/4"-20
HOW6455	4	SCREW, 1/4"-20, 1/2" LONG

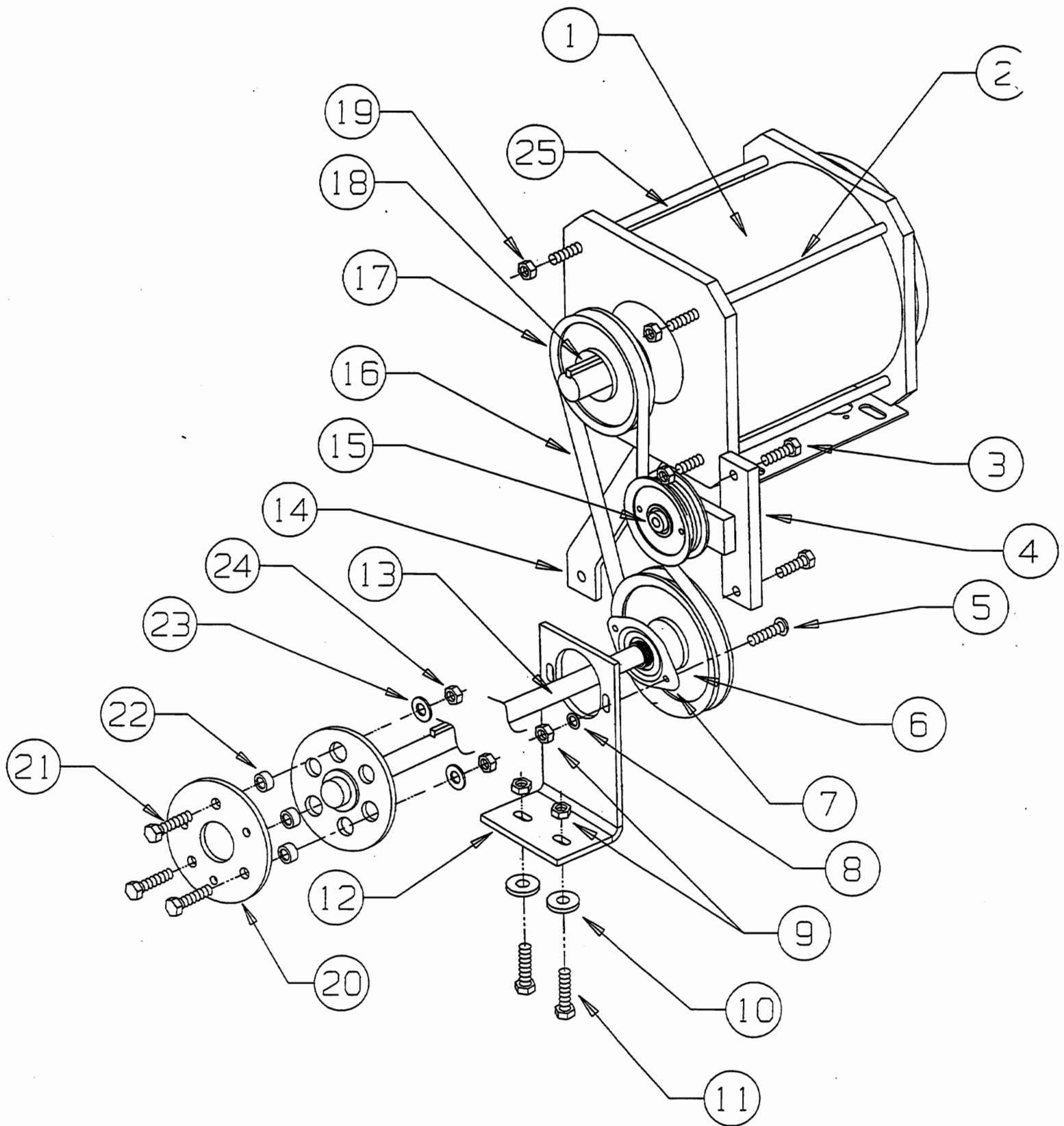
20053 - 2.0 DEGREE TILT SENSOR

PART NO.	QTY.	DESCRIPTION
9327	1	LEVEL SENSOR, 2.0 DEGREE
HOW5276	4	NUT, 1/4"-20
HOW6455	4	SCREW, 1/4"-20, 1/2" LONG

ART754 R2
BM16386
10/14/98

Figure 8-8. 3072 4WD Options

OPTIONAL GENERATOR-14805



ART753 R2
BM16385
4/13/99

Figure 8-9. 3072 4WD Generator Option

ITEM	PART NO.	QTY.	DESCRIPTION
1	3470	1	GENERATOR
2	HDW6432	4	SCREW, 3/8"-16, 3/4" LONG
3	HDW6433	3	SCREW, 3/8"-16, 1" LONG
4	3454	1	BRACKET, IDLER
5	HDW9195	2	SCREW, 5/16"-18, 1" LONG
6	6878	1	PULLEY, 4 1/2", 1" BORE
7	9178	1	BEARING, FLANGE, 1"
8	HDW5006	2	WASHER, SPLIT
9	HDW8304	4	NUT, 5/16"-18
10	HDW8567	2	WASHER, FLAT
11	HDW8310	2	SCREW, 5/16"-18, 1 1/4" LONG
12	20128	1	PLATE, PILOT BEARING
13	20131	1	ENGINE PILOT SHAFT WELDMENT
14	20115	1	BRACKET, SUPPORT
15	9202	1	PULLEY, IDLER
16	7913	1	V-BELT
17	6877	1	PULLEY, 4", 1 1/8" BORE
18	6910	2	KEY, 1/4" X 1/4" X 1 1/4"
19	HDW5039	8	NUT, 3/8"-16
20	14925	1	COUPLING, ENGINE HALF
21	HDW6788	3	SCREW, 3/8"-16, 1 1/2" LONG
22	9265	3	ISOLATOR, VIBRATION
23	HDW11467	3	WASHER, FLAT
24	HDW8268	3	NUT, 3/8"-16
25	3457	4	ROD, GENERATOR MOUNTING
	7617	10'	WIRE, BULK 14 GAUGE-3 (NOT SHOWN)
	5382	1	110V PLUG (NOT SHOWN)
	6456	1	CORD GRIP-STEEL (NOT SHOWN)
	8006	1	NUT, CONNECTOR, 1/2" CONDUIT (NOT SHOWN)

ART753 R2
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Figure 8-9. 3072 4WD Generator Option



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