

CENTURY®

LEGENDARY



OWNER'S MANUAL

Century Wrecker
Item No. 974W25
(Century Model 925)

INSTALLATION, OPERATION, MAINTENANCE & PARTS

NOTE: MANUAL including SPECIFICATIONS, subject to change without notice
All ratings specified are based on structural factors only,
not vehicle capacities or capabilities.

CENTURY®

A Division of Miller Industries Towing Equipment Inc.
P.O. Box 120 • 8503 Hilltop Drive
Ooltewah, Tennessee 37363

Phone (423)238-4171 • FAX (423)238-5371

FORM NO. 7205001

7 / 95

PRICE \$15.00

LIMITED WARRANTY

CENTURY® warrants to the original purchaser that each new CENTURY wrecker or other CENTURY products will be free from defects in material and workmanship for a period of twelve (12) months from date placed in service, but in no event shall such warranty period exceed twenty-four (24) months from date of manufacture by CENTURY. The purchaser must promptly notify CENTURY in writing of any failure in material or workmanship. In no event shall CENTURY accept such notification later than twenty-four (24) months from date of delivery or twelve (12) months from date placed in service, whichever is earlier.

CENTURY's obligation under this warranty, statutory or otherwise, is limited to the repair or replacement at the CENTURY factory, or at a point designated by CENTURY, of such part or parts as shall appear upon inspection by CENTURY to be defective in material or workmanship. New or remanufactured parts will be used for any replacement at CENTURY's option.

This warranty is not transferable. This warranty does not obligate CENTURY to bear the cost of labor or transportation charges in connection with the repair or replacement of any parts found to be defective, nor shall it apply to a product upon which repairs or alterations have been made unless authorized by CENTURY.

EXCEPT AS EXPRESSLY SET FORTH IN THIS WARRANTY, CENTURY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND HEREBY DISCLAIMS ALL OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CENTURY shall in no event be liable for claimed downtime, claimed loss of profits or goodwill, or any other special, incidental, indirect, or consequential damages concerning or relating to any product or parts, whether based on negligence, strict liability, breach of contract, breach of warranty, misrepresentation or any other legal theory, regardless of whether the loss resulted from any general or particular requirement which CENTURY knew or had reason to know about at the time of sale.

CENTURY MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE FINISHED PRODUCTS MANUFACTURED OR SUPPLIED BY ANOTHER MANUFACTURER AND SUPPLIED BY CENTURY TO PURCHASER, including, but not limited to, any vehicle to which a CENTURY product may be affixed or any accessories or wire rope, and CENTURY EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO SUCH EQUIPMENT OR PRODUCTS. This language shall in no way affect or diminish the rights of the purchaser to rely on such warranties as are extended by such manufacturers or suppliers. CENTURY shall, to the extent permitted under applicable law, pass on to the purchaser such manufacturer's or seller's warranty.

CENTURY, whose policy is one of continuous improvement, reserves the right to improve its products through changes in design or materials as it may deem desirable without being obligated to incorporate such changes in products previously sold. This warranty is not intended to cover or include the following items, which are set forth by way of example and not limitation:

- A. Normal deterioration of trim, paint, lettering, and appearance items due to wear or exposure to weather, road conditions, road treatments, etc.
- B. Any damage or defect due to accident, misuse, abuse, improper or unauthorized repairs, failure to provide reasonable and necessary maintenance, or uses for which the equipment was not designed or intended.
- C. Alterations or modifications that affect performance, operation or reliability.
- D. Normal maintenance parts including, but not limited to, wear pads, bushings, wire rope, mud flaps, fenderettes, light bulbs, hydraulic oil, filters, and tow sling belts.

IT IS EXPRESSLY UNDERSTOOD THAT CENTURY MAKES NO IMPLIED WARRANTY THAT CENTURY PRODUCTS SHALL BE FIT FOR THE PURPOSE OF LIFTING OR MOVING PEOPLE OR FOR ANY OTHER IMPROPER USE.

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8503 Hilltop Drive • P.O. Box 120
Ooltewah, Tennessee 37363

SERIAL NUMBER

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Telephone (423) 238-4171

REVISED 12/1/93

OWNER, USER AND OPERATORS:

CENTURY® appreciates your choice of our wrecker for your application. Our number one priority is user safety which is best achieved by our joint efforts. We feel that you can make a major contribution to safety if you, as the equipment owner and operator:

- 1. Comply with Federal, State, and Local Regulations.**
- 2. Read, Understand, and Follow the Instructions in this Manual.**
- 3. Use Good, Safe Work Practices in a Common Sense Way.**
- 4. Only have Authorized and Trained Operators running the Wrecker.**

Also contained in this manual is a Parts Section for your Wrecker. Use of other than Factory or Factory Authorized Parts will render the Warranty void.

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The operator must read and understand all instructions in this manual before operating the wrecker.

It is assumed by CENTURY that the Owner/Operator has thorough knowledge of the accepted and lawful retrieval and towing methods as dictated by his city, county, or state. CENTURY rejects any liability claim that may result from the incorrect or unlawful application of its equipment.

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Section I - SAFETY PRECAUTIONS

Presented in the interest of safety for all wrecker operators.



NOTICE

You are obligated to operate your wrecker safely. You can be held legally responsible for injuries or damages resulting from unsafe operating practices.

The manufacturer's recommendations for operating this wrecker can help you avoid unsafe practices and their bad consequences. These recommendations are contained in this manual.

Century is not responsible for the results of any unsafe practice of wrecker operators. Furthermore, the division is not responsible for the failure of the wrecker or its accessories resulting from improper maintenance.

The danger from an automobile does not cease when it is disabled or wrecked. Recovering and towing automobiles can be dangerous, too! The danger threatens wrecker operators and everyone close at hand. As a wrecker operator you must develop an awareness of the hazards involved. You must use every safeguard within reason to prevent injuries.

For each step in operating your wrecker develop the habit of asking yourself if it is safe to proceed. Carefully check all rigging (especially snatch blocks) before starting a heavy lift or pull.

We cannot warn you of all the possible dangers you will encounter. But we will tell you of the most common hazards we know about. Learn them well.

Section I - SAFETY PRECAUTIONS (cont'd)

- 1.1** Improper use of this equipment can be dangerous! Incorrect operation can result in bodily injury to the operator and bystanders. Therefore, a thorough understanding of the "operating principles" and "operating instructions" as found in this manual is essential.
- 1.2** Study each job to be done. Apply common sense judgment to assure safety to yourself and bystanders.
- 1.3** Plan ahead. Work safely. Avoid accidental damage and injury. If an accident or fire does occur, react quickly with the tools and skills at hand. Know how to use a first aid kit and a fire extinguisher - and where to get assistance.
- 1.4** Read and understand the following instructions.



- 1.** READ THE MOUNTING/OPERATING/MAINTENANCE MANUAL FOR WARNINGS AND PRECAUTIONS.
- 2.** NEVER TAKE ANYTHING FOR GRANTED. DON'T ASSUME THAT EVERYTHING IS ALL RIGHT AT THE START OF WORK TODAY JUST BECAUSE EVERYTHING SEEMED ALL RIGHT AT THE END OF WORK YESTERDAY. BEFORE BEGINNING OPERATION, THOROUGHLY INSPECT THE ENTIRE WRECKER TO BE SURE IT IS IN GOOD OPERATING CONDITION.
- 3.** VISUALLY INSPECT THE WRECKER FOR EVIDENCE OF PHYSICAL DAMAGE, SUCH AS CRACKING, BENDING, OR DEFORMATION OF PLATES OR WELDS. INSPECT CAREFULLY FOR CRACKING OR FLAKING OF PAINT, WHICH MAY INDICATE A DANGEROUS CRACK IN THE STRUCTURE BENEATH. DO NOT OPERATE UNTIL REPAIRS ARE MADE.
- 4.** LOOSE OR MISSING HARDWARE, BOLTS, NUTS, AND PINS SHOULD BE PROPERLY TIGHTENED OR REPLACED WITH MANUFACTURER'S SPECIFIED HARDWARE.
- 5.** CHECK FOR FLUID LEAKS. HYDRAULIC SYSTEM MUST BE CORRECTED BEFORE THE WRECKER IS OPERATED.

Section I - SAFETY PRECAUTIONS (cont'd)

INSPECT ALL HYDRAULIC HOSES, ESPECIALLY THOSE WHICH FLEX OR MOVE IN SERVICE, AND REPLACE IF NECESSARY. SECURE ALL CAPS AND FILLER PLUGS FOR ALL SYSTEMS.

6. YOUR CLOTHING SHOULD BE RELATIVELY CLOSEFITTING.
7. ALWAYS WEAR PROTECTIVE ITEMS SUCH AS SAFETY GLASSES, GLOVES, REFLECTIVE CLOTHING AND SAFETY SHOES.
8. BEFORE OPERATING THE BOOM, REFER TO THE BOOM CAPACITY LABELS ON THE BOOM AND INSIDE THE DOOR OF THE CAB AND IN THE SPECIFICATIONS SECTION OF YOUR OPERATING MANUAL. FOR CHASSIS CAPACITY, CONSULT YOUR TRUCK DEALER. NEVER EXCEED MANUFACTURER'S LOAD RATING. THE STIPULATIONS PERTINENT TO THESE RATINGS SHALL ALWAYS BE CAREFULLY OBSERVED. RATINGS SHOWN ARE BASED ON THE HYDRAULIC, MECHANICAL, OR STRUCTURAL DESIGN OF THE WRECKER RATHER THAN STABILITY. IT IS ALWAYS UNSAFE TO APPLY ANY LOAD WHICH IS GREATER THAN RATED LOAD SHOWN ON THE DATA PLATE.
9. DO NOT USE THIS EQUIPMENT EXCEPT ON SOLID, LEVEL SURFACE WITH STABILIZERS PROPERLY EXTENDED AND TRUCK BRAKES LOCKED.
10. OPERATE ALL CONTROLS SLOWLY AND SMOOTHLY TO AVOID DAMAGE TO WRECKER OR INJURY TO PERSONNEL.
11. DO NOT OPERATE, WALK OR STAND BENEATH BOOM OR A SUSPENDED LOAD.
12. NEVER LIFT LOAD OVER ANYONE.
13. DO NOT USE BOOM TO LIFT PEOPLE.
14. KEEP LOAD WITHIN ONE FOOT OF THE GROUND WHENEVER POSSIBLE.
15. FOR TRAVEL, BOOM MUST BE IN STOWED POSITION AND P.T.O. DISENGAGED.

Section I - SAFETY PRECAUTIONS (cont'd)



**ONLY AUTHORIZED AND TRAINED PERSONNEL
SHOULD BE PERMITTED TO OPERATE THIS WRECKER
UNSUPERVISED**

TRAINED PERSONNEL ARE THOSE WHO HAVE WORKED UNDER EXPERIENCED SUPERVISION AND HAVE PERFORMED ALL WRECKER MANEUVERS, HAVE READ THE MOUNTING, OPERATING AND MAINTENANCE MANUAL, WARNINGS AND PRECAUTIONS, AND UNDERSTAND AND HAVE HAD EXPLAINED TO THEM BY THEIR EMPLOYER THE HAZARDS OF OPERATING THE WRECKER. THEY MUST BE FAMILIAR WITH THE HAZARDS OF OPERATING AT A SITE WHERE ELECTRIC POWER LINES, IRREGULAR GROUND CONTOUR, WATER, ICE, MUD, OR OTHER CONDITIONS CAN INTERFERE WITH ORDINARY CAREFUL OPERATION OF THIS WRECKER.

**AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND
OTHERS TO DEATH OR SERIOUS INJURY.**



**STAND CLEAR
WHILE OPERATING
OUTRIGGERS**



**USE SAFETY CHAINS
ON ALL TOWING AND
LIFTING APPLICATIONS**

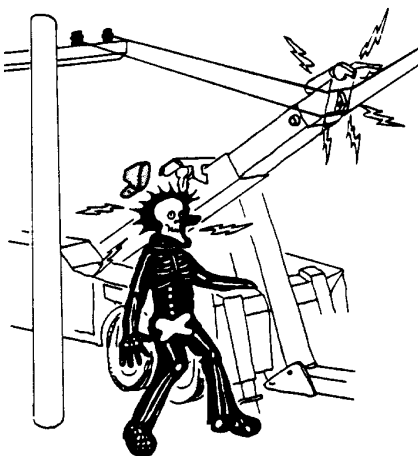
Section I - SAFETY PRECAUTIONS (cont'd)

SAFETY TIPS



Death or serious injury can occur when working near power lines.

Learn - beforehand - as much about your working area as possible. Be sure that exact locations of overhead power lines, and other obstructions or hazards are known.



Don't use winch cables with hooks attached by means of cable clips. Use only cables with hooks attached by means of thimbles and machine swaged terminals.

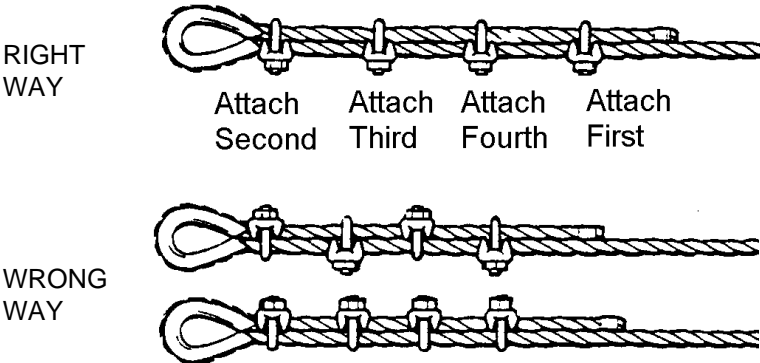
USE CABLE CLIPS ONLY IN THE EVENT OF AN EMERGENCY FIELD TEMPORARY REPAIR.

Use at least three clips spaced 3-4 inches apart and reduce the cable working limit by 20%. U-bolt of the clip should never be around the live or long end of the cable. Replace clips as soon as possible with swaged cable termination.

Section I - SAFETY PRECAUTIONS (cont'd)

SAFETY TIPS

Proper technique for using wire rope clips.
USE CABLE CLIPS ONLY IN THE EVENT OF AN EMERGENCY
FIELD TEMPORARY REPAIR.



- 1. Turn back rope length specified in the chart. Apply first clip so U-bolt is no less than the saddle width from the dead end. Tighten nuts evenly and torque as specified.
- 2. Apply next clip as near loop as thimble will permit. Turn nuts on firm, but do not tighten.
- 3. Space additional clips as indicated so distance between clips is equal. Tighten all nuts evenly and torque as specified.
- 4. Apply the initial load and retighten all nuts to recommended torque. Inspect periodically and retighten as needed to the recommended torque.

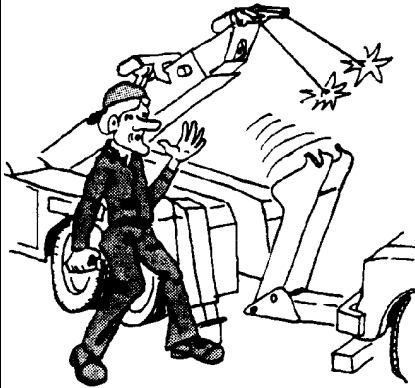
CLIP SIZE INCHES	MINIMUM NO. OF CLIPS	AMOUNT OF ROPE TO TURN BACK IN INCHES	TORQUE IN FT.LBS.
3/8	2	6 1/2	45
7/16	2	7	65
1/2	3	11 1/2	65
9/16	3	12	95
5/8	3	12	95
3/4	4	18	130

This table is based on Crosby-Laughlin.

Section I - SAFETY PRECAUTIONS (cont'd)

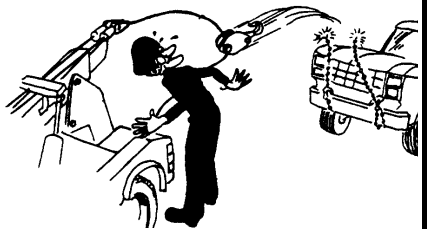
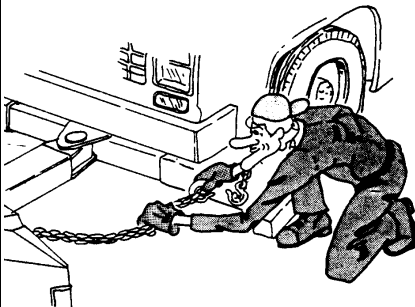
SAFETY TIPS

Don't use a wrecker that has not been properly maintained. Pay special attention to wrecker mounting bolts, cable condition, and lubrication of moving parts.



Don't use damaged cables on your wrecker. Become familiar with the various types of cable damage and carefully inspect all cables being used in a recovery operation before starting to pull.

Always use two safety chains when towing all vehicles, regardless of distance.

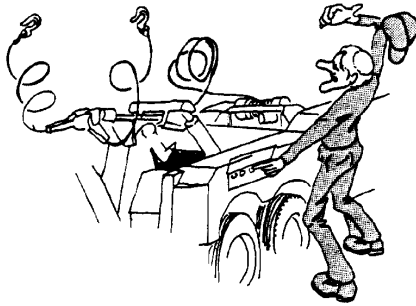
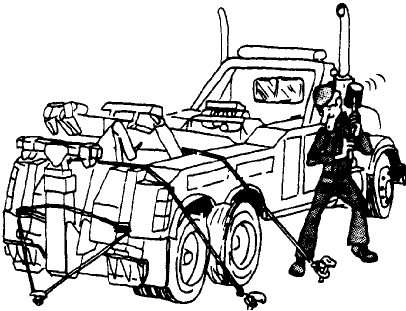


After rigging cables, don't begin pulling without rechecking connections. Make sure that all cables and snatch blocks are securely attached and cannot accidentally pull loose.

Section I - SAFETY PRECAUTIONS (cont'd)

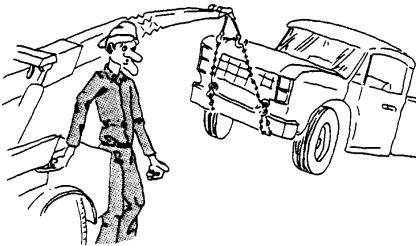
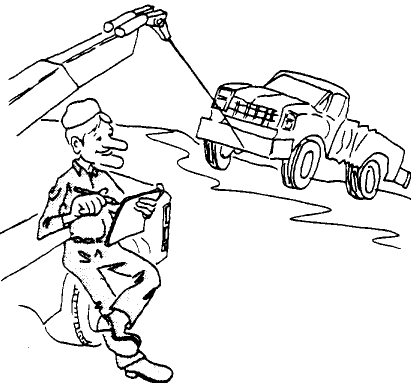
SAFETY TIPS

Don't expect your wrecker to tow loads equal to the wrecker rating. Wrecker ratings apply to loads imposed during recovery with the wrecker properly stabilized.



Don't pull a load with your winch without making absolutely sure that the winch drum clutch is **FULLY** engaged.

Don't attempt to recover heavy loads without first estimating the amount of pull that will be required. Rig to keep the estimated amount of pull well within equipment ratings.

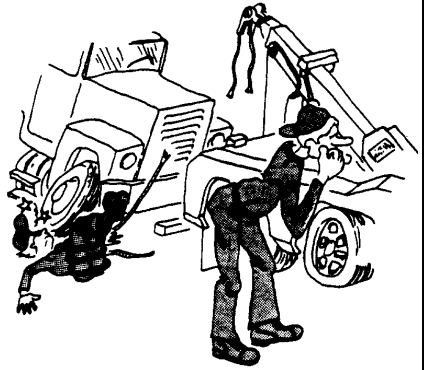
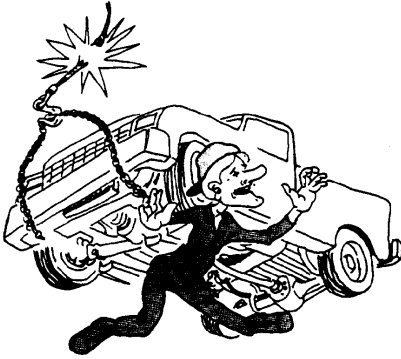


Don't exceed ratings of booms, cables, snatch blocks, or winches. Stay within nameplate ratings. Note that boom ratings decrease significantly as boom is extended.

Section I - SAFETY PRECAUTIONS (cont'd)

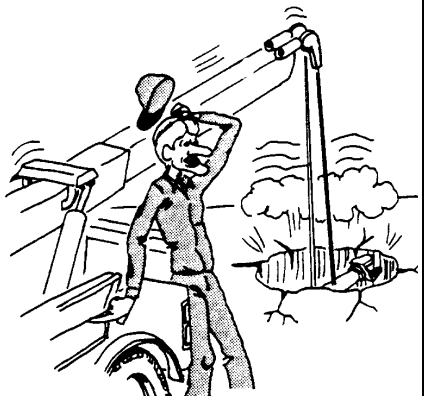
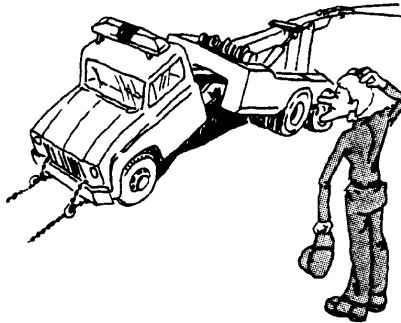
SAFETY TIPS

Don't get under a raised vehicle or load unless it has adequate safety blocks in place.



Don't exceed WORKING LIMIT ratings of cable. Use breaking strength ratings only for selecting replacement cable.

Don't tie down the front end of your wrecker for recovery work or heavy lifts. You are apt to damage the truck frame if you do.

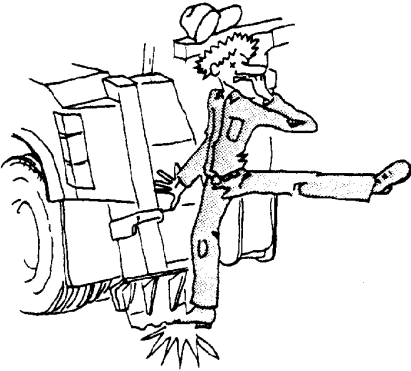


Don't disengage the winch drum clutch while the winch cable is loaded.

Section I - SAFETY PRECAUTIONS (cont'd)

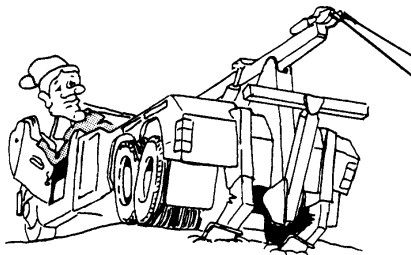
SAFETY TIPS

Don't lower out board legs or rear jack spades unless the area under them is clear. Pay particular attention to keeping this area clear.



Don't use rear spades on paved surfaces unless you are willing to accept responsibility for possible damage to such surfaces.

Don't permit bystanders in the area while performing recovery work.

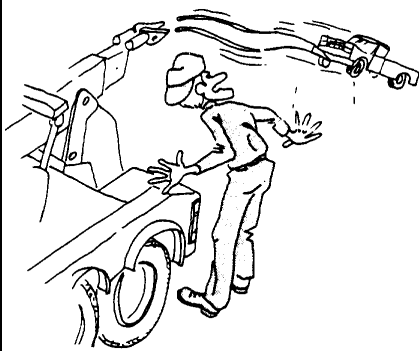


Don't move your wrecker while either outboard legs or rear spades are extended.

Section I - SAFETY PRECAUTIONS (cont'd)

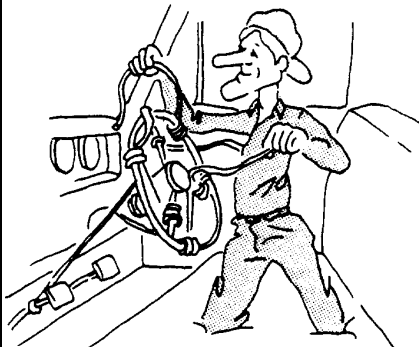
SAFETY TIPS

Don't completely unwind all cable from a winch while loaded. Keep **AT LEAST** five wraps on the drum.



Don't operate your wreckers engine faster than recommended. Excessive speeds can damage PTO shafts, hydraulic pumps, and winches.

Don't rely on anti-theft steering locks to secure the steering wheel. Use a special steering wheel clamping device. Rope is commonly used to secure steering wheels, but that is not as reliable as devices designed for this purpose.

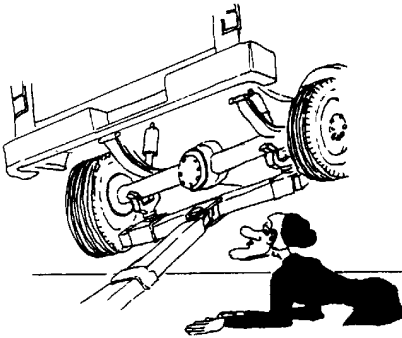


Don't tow a vehicle that reduces the weight on the front wheels of your wrecker more than 40 percent.

Section I - SAFETY PRECAUTIONS (cont'd)

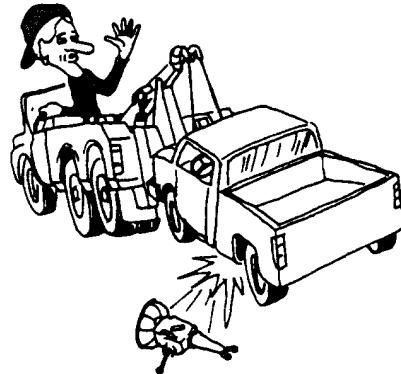
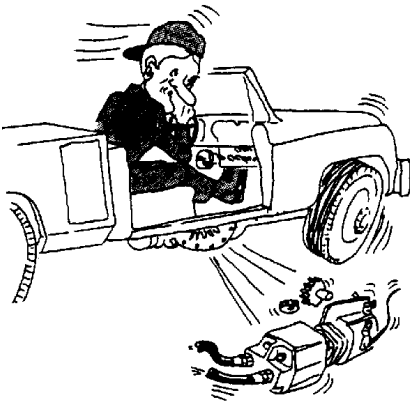
SAFETY TIPS

Don't use towing forks that are not of proper size for pick-up requirements.



After you have hooked up a vehicle for towing, don't start the tow until you have double checked the hook-up, installed safety chains, and released the parking brakes of the towed vehicle.

Don't travel with the wrecker PTO engaged. Engage it only while operating the wrecker controls.

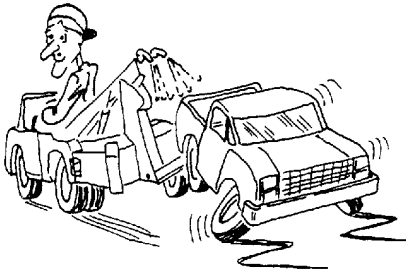


Don't tow a vehicle on its drive wheels unless steps have been taken to protect its transmission and differential. Follow recommendations of the vehicle manufacturer. As an alternative, use a towing dolly.

Section I - SAFETY PRECAUTIONS (cont'd)

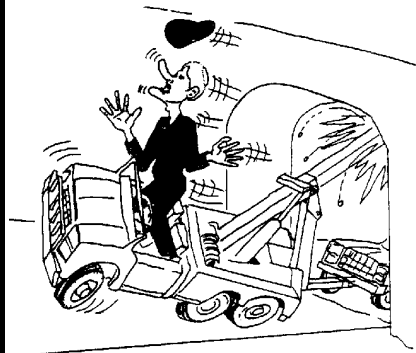
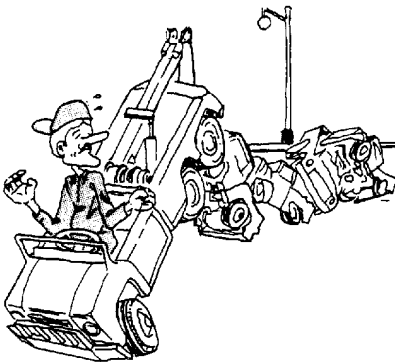
SAFETY TIPS

Don't tow a vehicle on its front wheels if they are damaged.



Don't tow a vehicle on its front wheels unless the steering wheel is secured with the front wheels straight ahead.

Don't tow a vehicle at night without proper signal lights on the towed vehicle and the wrecker.

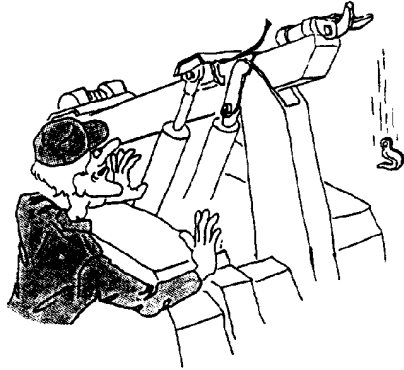
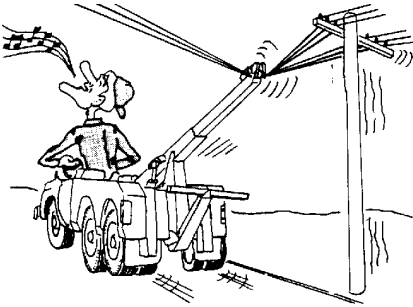


Don't drive wrecker with boom elevated.

Section I - SAFETY PRECAUTIONS (cont'd)

SAFETY TIPS

Don't move wrecker or extend boom where overhead power lines may be encountered.



Don't continue to wind in winch cable after the hook is against the boom end.

SAFE TOWING

There are two key factors in safe towing:

1. Have enough front axle weight for safe steering.
2. Avoid excess rear axle weight.

The issue here is safety. Unsafe steering may cause a serious accident. It is recommended that a safe steering formula that maintains at least 40 percent of the UNLADEN (unloaded) front axle weight, for towing, be used.

That formula is expressed as follows: $ML = .6 FAW \times WB/OH$
where:

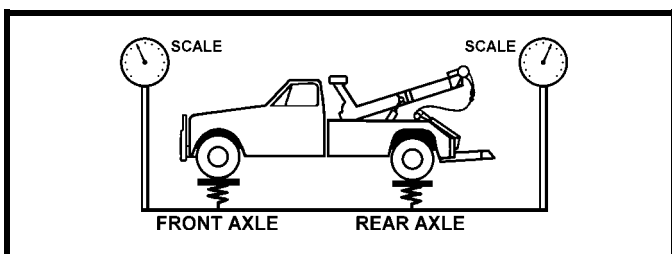
- | | | |
|-----|---|--------------------------------------------------------------------------------------------------|
| ML | = | maximum lifted load for safe steering. |
| FAW | = | unladen (unloaded) weight at front axle. |
| WB | = | wheel base or distance between the center of the front axle to the center of the rear axle(s). |
| OH | = | overhang or distance from the center of the rear axle(s) to the lift point of the towing device. |

Section I - SAFETY PRECAUTIONS (cont'd)

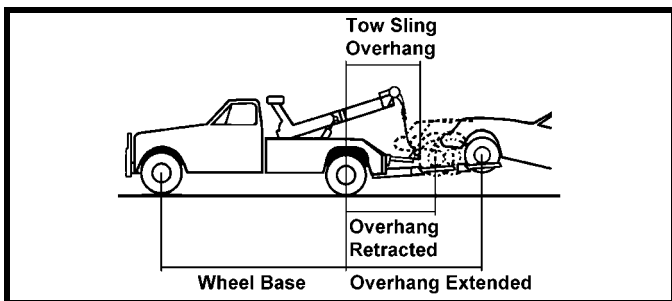
SAFE TOWING

To use the formula, multiply the unladen weight at the front axle by .6. Multiply the result by the wheel bases. Then divide that result by the overhang. So, you should calculate the maximum lifted load for each tow truck, using this formula, post those limits in the truck and instruct each driver to strictly observe those limits.

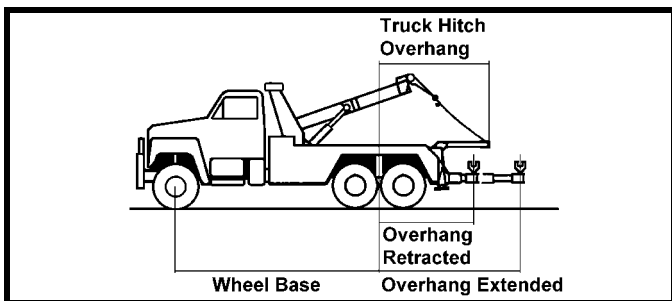
You should also observe gross vehicle weight ratings (GVWR), gross axle weight ratings (GAWR), and the towing equipment ratings.



Unladen weights at front and rear



Wheel base and overhang distances for tow slings and wheel lifts.



Wheel base and overhang distances for truck

[illegible]

Section II - SPECIFICATIONS

2.1 CERTIFICATION LABEL

Federal law requires that the final stage manufacturer, i.e., that person or company installing new equipment on a new chassis, must certify the completed vehicle by obtaining, completing and affixing to the door post on the driver's side of the vehicle, a CERTIFICATION LABEL similar to the one shown. See Figure 2.1.

MANUFACTURED BY: _____	
DATE OF MANUFACTURE _____ mo _____ yr	
INCOMPLETE VEHICLE MANUFACTURED BY: _____	
DATE INC. VEH. MFD. _____ mo _____ yr	
GVWR _____	
GAWR FRONT _____	with _____
_____	tires,
_____ rims, @ _____ psi cold _____	
GAWR INTERMEDIATE (1) _____	with _____
_____	tires,
_____ rims, @ _____ psi cold _____	
GAWR INTERMEDIATE (2) _____	with _____
_____	tires,
_____ rims, @ _____ psi cold _____	
GAWR REAR _____	with _____
_____	tires,
_____ rims, @ _____ psi cold _____	
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT IN: _____ mo _____ yr	
VEHICLE IDENTIFICATION NUMBER: _____	
VEHICLE TYPE: _____	

FIGURE 2.1

Section II - SPECIFICATIONS (Cont'd)

2.2 SERIAL NUMBERS/SPECIFICATION LABELS

Each **CENTURY 925 Wrecker** will have a SERIAL NUMBER/ SPECIFICATION LABEL mounted to the wrecker base and each **CENTURY Formula III Wheel Lift** will have a SERIAL NUMBER LABEL mounted on the outer boom support. Additionally, each **CENTURY 925GSA Wrecker** will have a DATA RATING PLATE mounted to the wrecker body. These labels will display the Model Number, Serial Number, Lift/Tow and Cable Ratings. See Figures 2.2, 2.3 and 2.4.

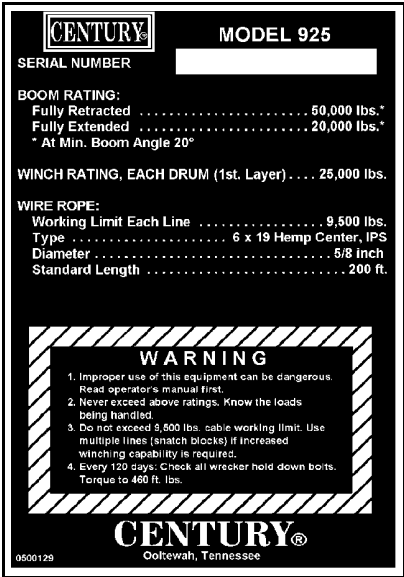


FIGURE 2.2 (WRECKER)

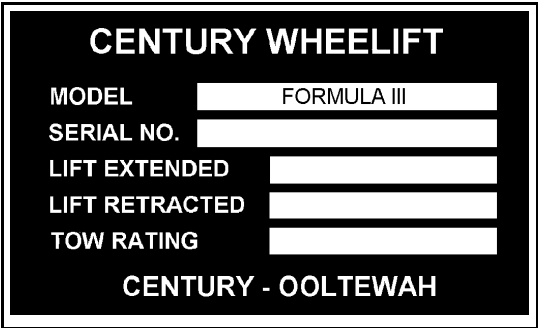


FIGURE 2.3 (WHEEL LIFT)

Section II - SPECIFICATIONS (Cont'd)

2.2 SERIAL NUMBERS/SPECIFICATION LABELS (cont'd)

7206002	RETRACTED	EXTENDED
BOOM RATING @ BOOM ELEVATION OF 20° TO 45°	50,000 lbs.	20,000 lbs.
BOOM RATING @ BOOM ELEVATION OF 0° TO 20°	37,500 lbs.	14,000 lbs.
BOOM LIFT TO TOW RATING	6,500 lbs.	
UNDERLIFT LIFT RATING USING LIFT FORKS	10,000 lbs.	
UNDERLIFT LIFT RATING LIFT TO TOW USING LIFT FORKS & WHEEL LIFT GRIDS	6,000 lbs.	
UNDERLIFT LIFT RATING USING LIFT FORKS	6,000 lbs.	
BOOM & UNDERLIFT TOW RATING	26,000 lbs.	

FIGURE 2.4 (DATA RATING PLATE)

2.3 SPECIFICATIONS - MODEL 925 WRECKER

25 ton hydraulic wrecker with dual hydraulic winches, full power 2-stage boom, 96" wide heavy-duty body for 138" C.A. single axle chassis.

(a) Winches

Rating (1st Layer each Drum) 25,000 lb. each

(b) Cable

Diameter and Length each Drum 5/8" dia. x 200 ft.
 Type: 6 x 19, IPS hemp center
 Working limit, each line 8,500 lbs.

(c) Wrecker Boom Specifications

BOOM POSITION	BOOM LENGTH @ CENTER-LINE OF PIVOT PIN TO CENTER-LINE OF CABLE SHEAVE	MAXIMUM WORKING HEIGHT (1)	MAXIMUM WORKING DISTANCE (2)	BOOM RATING (STATIC) (3)
FIRST STAGE	9' - 8"	11' - 8"	1' - 10"	40,000 lbs.
SECOND STAGE	15' - 8"	16' - 3"	7' - 10"	12,000 lbs.

Section II - SPECIFICATIONS (Cont'd)

2.3 SPECIFICATIONS - MODEL 925 WRECKER (cont'd)

- (1) At maximum boom elevation of 45 degrees above horizontal.
- (2) At boom angle of 1 degree above horizontal.
- (3) At boom angle of 10 degrees above horizontal.

Ratings are based on structural factors only! Not vehicle capacity or capabilities.

2.4 SPECIFICATIONS - FORMULA III WHEEL LIFT

Structural Rating:

Extended	10,000 lbs.
Retracted	12,000 lbs.
Tow Capacity	80,000 lbs.

Distance from Tailboard:

Extended	81 inches
Retracted	35 inches

Tilt Angle:

Above Horizontal	10 degrees
Below Horizontal	10 degrees

"L" Bar Rating:

Retracted	6,000 lbs.
Extended	6,000 lbs.
T.E.M.A.	6,000 lbs.

2.5 CHASSIS RECOMMENDATIONS

Min. GVWR (Gross Vehicle Weight Rating)	21,600 lbs.
Min. CA (Cab to Axle) Dimension	138"
Min. Frame Length (Behind Centerline of Axle)	36 1/2"

Section II - SPECIFICATIONS (Cont'd)

2.6 STANDARD EQUIPMENT

- Twin Hydraulic Pumps
- Dual Variable-Speed Hydraulic Winches
- 200' of Wire Rope Each Drum
- 360° Directional Boom Sheave System
- Power Boom Elevation
- Dual Side-by-Side Elevation Cylinders with Counterbalance Valve
- Two-Stage Power Boom Extension
- Nylatron Slide Pads in Boom
- Lubrication Fittings on All Shafts and Other Moving Parts
- 94-inch Wide Body with Flat Floor
- Dual Rear Controls
- Federal Standard #108 Lighting
- Wiring Harness
- Fold-Away Tow Hitch Brackets
- Heavy-Duty Truck Hitch
- Vernier Throttle Control
- Snatch Blocks
- Convenience Group
- Safety Chains

Note: Specifications Subject to Change without Notification.

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Section III - OPERATIONAL FUNCTIONS

WRECKER

- 3.1 Your new wrecker is fully hydraulic. It receives its power by means of a Power Take-Off/Pump combination mounted to the vehicle transmission . Since the pump is attached to the PTO, no drive line or universal joint is required. See Figure 3.1.

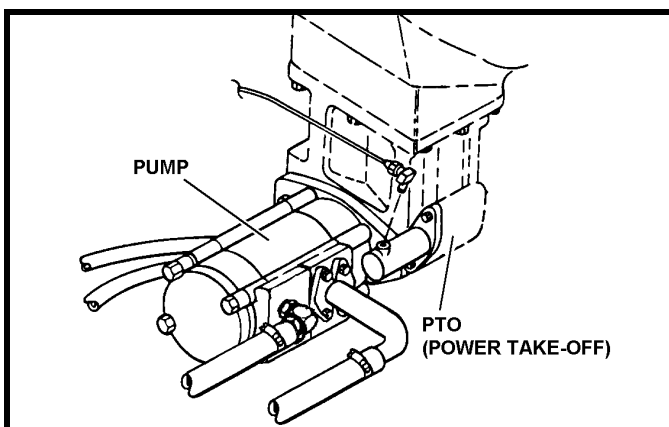


FIGURE 3.1

- 3.2 Each function of the Wrecker can be controlled from either of the dual Control Stations located at the rear of the wrecker body. See Figure 3.2.

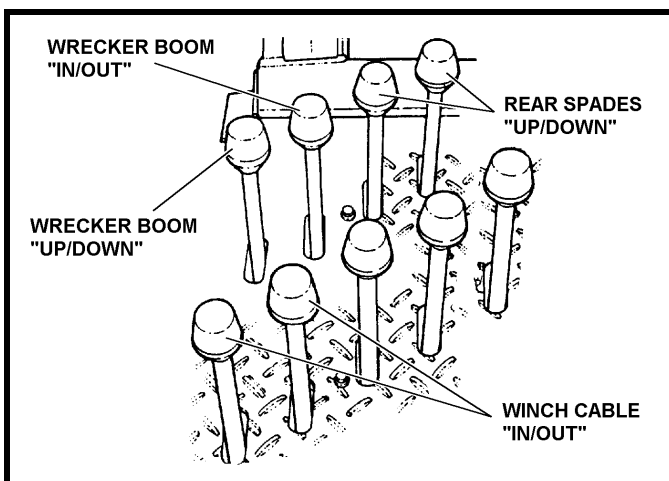


FIGURE 3.2

Section III - OPERATIONAL FUNCTIONS

WRECKER (cont'd)

- 3.3** The Control Handles are clearly marked as to their functions and directions. Movement of the control handles meters the flow of oil through valves to control the speed of each function.
- 3.4** The Vernier Throttle Control, located at the left control station, is used to vary the speed of the truck engine to govern the maximum speed of the winches and cylinders. See Figure 3.3.

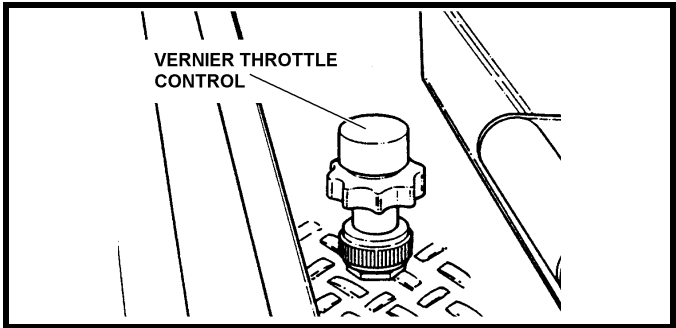


FIGURE 3.3

- 3.5** The Wrecker Boom is extended and elevated by means of double acting cylinders. The boom can be elevated or extended under either "LOAD" or "NO-LOAD" conditions.
- 3.6** The self-locking, worm-driven winch is powered by its own hydraulic motor attached directly to the winch input shaft. See Figure 3.4.

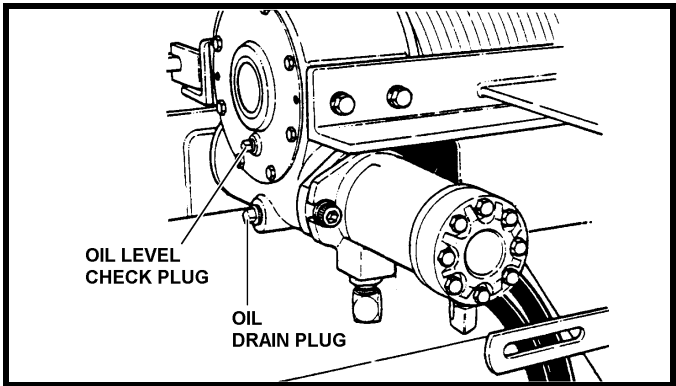


FIGURE 3.4

Section III - OPERATIONAL FUNCTIONS

WRECKER (cont'd)

- 3.7** Before operating your wrecker, remove the Shipping Plugs from the Winch Vent Cap. See Figure 3.5.

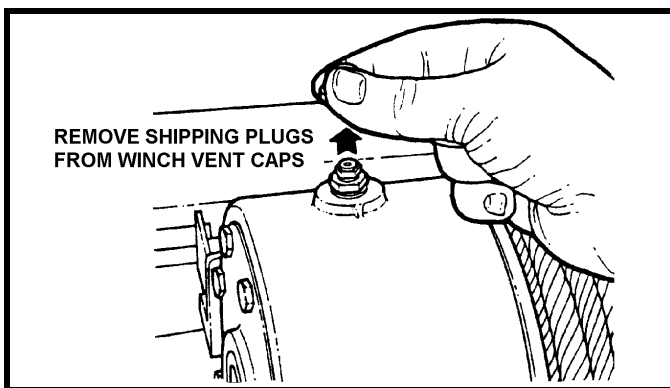


FIGURE 3.5

NOTE

CHECK OIL LEVEL IN WINCHES BEFORE ANY OPERATION. FILL TO PROPER LEVEL WITH REQUIRED GEAR LUBRICANT AS NEEDED. REFER TO FIGURE 3.4 AND SECTION V, MAINTENANCE FOR PROPER PROCEDURES.

- 3.8** Your wrecker is also equipped with Winch Free Spool Clutch Controls located at each winch (manual) or on either side of the wrecker body (air operated). These controls are used for allowing the winches to freespool for payout of cable. See Figure 3.6.

Section III - OPERATIONAL FUNCTIONS

WRECKER (cont'd)

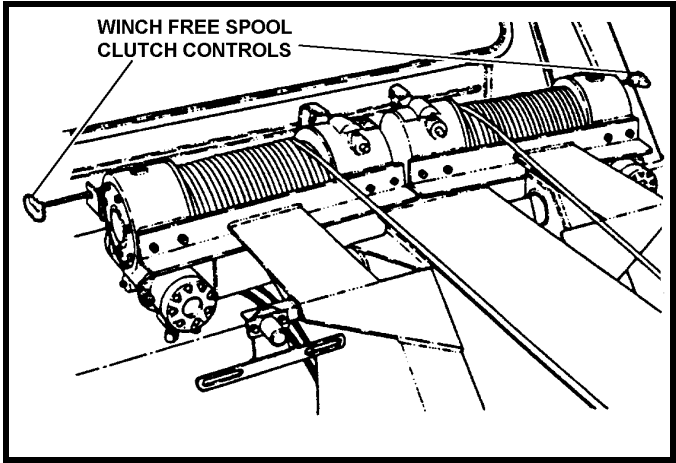


FIGURE 3.6

3.9 Always use SAFETY CHAINS on all towing and lifting applications. The safety chains are located on the top rear of the wrecker body. See Figure 3.7. Refer to Section 4.8 for proper safety chain procedures.

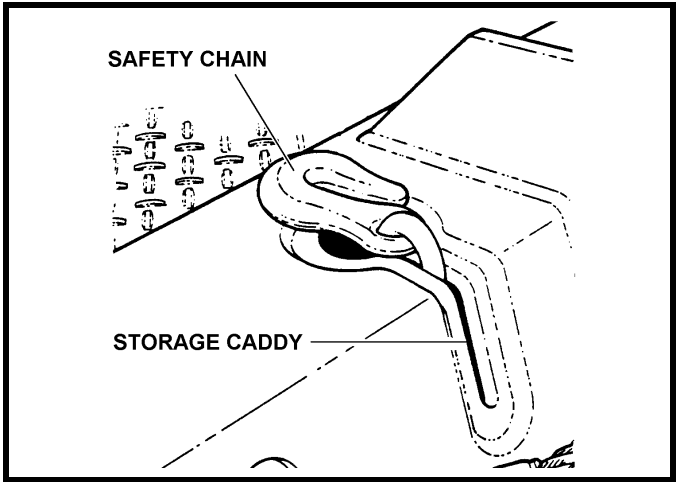


FIGURE 3.7

Section III - OPERATIONAL FUNCTIONS

WRECKER (cont'd)



**USE SAFETY CHAINS
ON ALL TOWING AND
LIFTING APPLICATIONS**

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Section IIIA - OPERATIONAL FUNCTIONS

WHEEL LIFT

- 3A.1** Each function of the FORMULA III Wheel Lift can be controlled from either of the dual Control Stations located at the rear of the wrecker body. See Figure 3A.1.

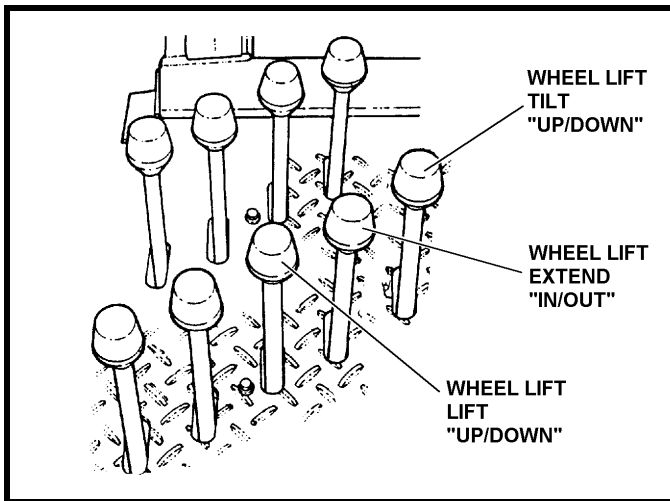


FIGURE 3A.1

- 3A.2** The Control Handles are clearly marked as to their functions and directions. Movement of the control handles meters the flow of oil through valves to control the speed of each function.
- 3A.3** The Vernier Throttle Control, located at the left control station, is used to govern the maximum speed of the cylinders. Refer to Figure 3.3.
- 3A.4** The FORMULA III Wheel Lift is elevated and extended by means of double-acting hydraulic cylinders and can be operated under either "LOAD" or "NO LOAD" conditions.
- 3A.5** The In-Cab Control, when installed as an option, is dash mounted and controls the FORMULA III Wheel Lift.

Section IIIA - OPERATIONAL FUNCTIONS

WHEEL LIFT (cont'd)

3A.6 The optional Hand-Held Remote Control Unit electrically meters the flow of oil through valves to control each related function. The buttons of the remote control unit are clearly marked for each function and direction. See Figure 3A.2.

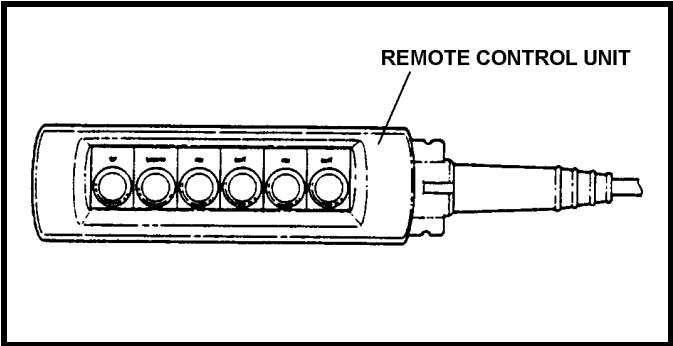


FIGURE 3A.2

Section IIIA - OPERATIONAL FUNCTIONS

WHEEL LIFT (cont'd)

3A.7 Lifting Forks and other Wheel Lift Towing and Lifting Accessories are located in the left hand Tool Box of the wrecker body. See Figure 3A.3.

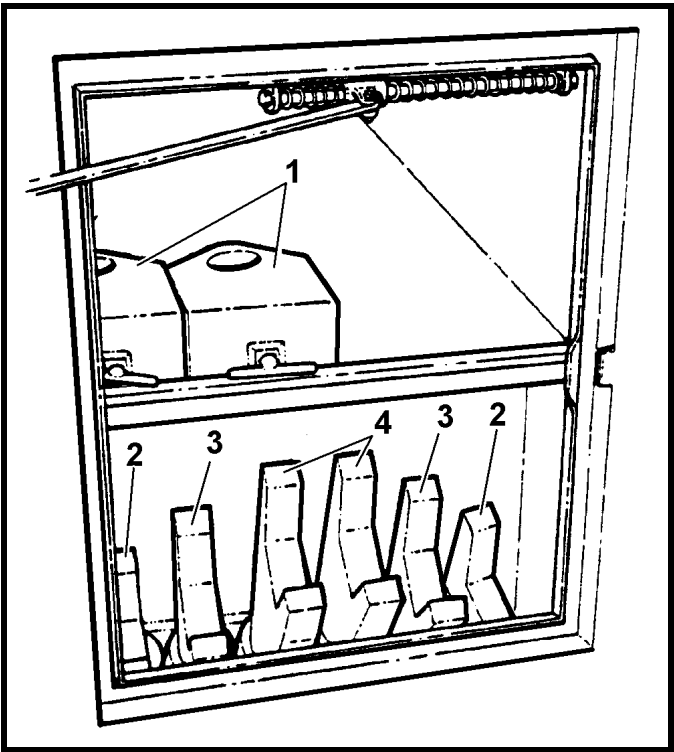


FIGURE 3A.3

LIFT BRACKET DESIGNATION	
1	FORK ADAPTERS
2	FORK, SHORT

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Section IV - OPERATING INSTRUCTIONS

WRECKER

4.1 For reasons of safety, it is important that the Owner(s) and Operator(s) should become thoroughly familiar with the controls and functions of the wrecker before attempting any operation.

4.2 HYDRAULIC WINCHES

The hydraulic winches are to be used in retrieving and lifting a vehicle for transport.

- (a) **DO NOT** fasten the winch hook directly to any vehicle to be towed.
- (b) **DO NOT** wrap the winch cable around any object.
- (c) **DO NOT** exceed the working limit of the cable.
- (d) **DO NOT** use the winches or cable for the lifting of people.

4.3 PREPARING TO LOAD VEHICLE

- (a) Line wrecker up with the center of disabled vehicle to be towed.
- (b) Reduce truck's engine to idle and apply parking brake. Depress clutch, place transmission in neutral and engage PTO by pulling knob located on panel in cab. See Figure 4.1.

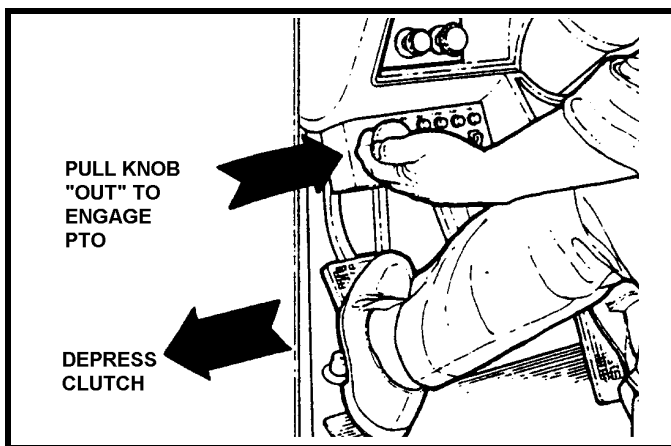


FIGURE 4.1

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.3 PREPARING TO LOAD VEHICLE (cont'd)



**NEVER DRIVE TRUCK ON STREET WITH PTO ENGAGED,
THIS CAN CAUSE PUMP FAILURE DUE TO
OVER-SPEED AND OVERHEATING.**

- (c) Adjust engine speed to desired RPM using the Vernier Throttle Control located on the left hand side of the wrecker body.

DO NOT EXCEED 1500 RPM

4.4 CABLE PAYOUT

Before operating any control handles, observe the winch cables to make sure they are free and have sufficient slack to allow the boom to extend. If not, payout cable by using the Cable "IN/OUT" Controls, or switch on the Air-Operated Free Spool switch and manually pull cables out to a sufficient length for boom extension.

4.5 BOOM ELEVATION

Elevate boom to the desired height by use of the Boom "UP/DOWN" Control. See Figure 4.2.

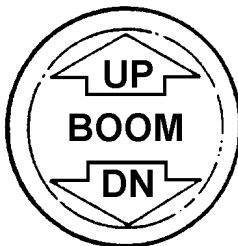


FIGURE 4.2

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.5 BOOM ELEVATION (cont'd)

NOTE
IN THE EVENT OF HYDRAULIC PRESSURE LOSS, THE BOOM
WILL REMAIN ELEVATED DUE TO THE HOLDING VALVE
ATTACHED TO THE LIFT CYLINDERS.

4.6 HYDRAULIC BOOM EXTENSION

Extend boom to desired length by use of the Boom "IN/OUT" Control. See Figure 4.3.

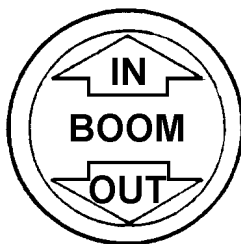


FIGURE 4.3

4.7 MOUNTING VEHICLE TO WRECKER

- (a) After preparations have been made, back the wrecker up to the vehicle until the towing sling makes contact with bumper, attach "J" or "T" hook chains to vehicle and towbar. See Figure 4.4. Refer to TOW SLING OWNER'S MANUAL for recommended use of towing slings. For a particular hook-up, see vehicle "OWNER'S MANUAL" or "AAA TOWING MANUAL".

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.7 MOUNTING VEHICLE TO WRECKER (cont'd)

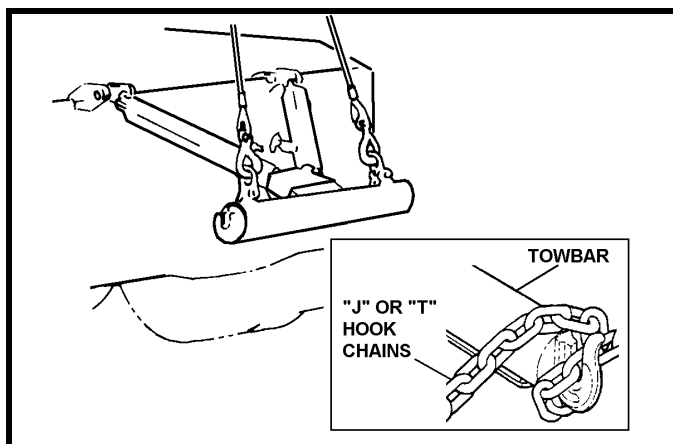


FIGURE 4.4

- (b) Lift vehicle to be towed by retrieving cable slowly with use of Cable "IN/OUT" Control. See Figure 4.5.

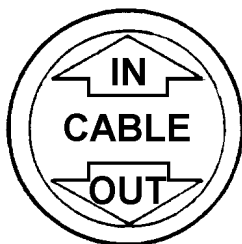


FIGURE 4.5

NOTE
WHEN TOWING FROM REAR DRIVE AXLE, PUT VEHICLE IN GEAR AND ENGAGE PARKING BRAKE. WHEN TOWING FROM DRIVE AXLES OF FRONT DRIVE VEHICLES, PUT VEHICLE IN GEAR AND DISENGAGE PARKING BRAKE.

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.7 MOUNTING VEHICLE TO WRECKER (cont'd)



**USE SAFETY CHAINS
ON ALL TOWING AND
LIFTING APPLICATIONS**

4.8 SAFETY CHAIN HOOK-UP PROCEDURES

- (a) Extend free end of Safety Chain from storage caddy at top rear of wrecker body. See Figure 4.6.

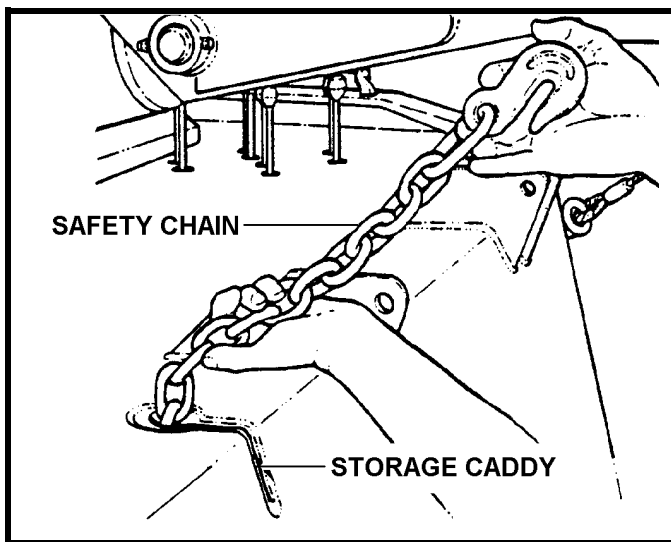


FIGURE 4.6

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.8 SAFETY CHAIN HOOK-UP PROCEDURES (cont'd)

- (b) Route free end of chain to vehicle to be towed and attach to chassis around axle, leaf springs, frame or "A" frame. See Figures 4.7 thru 4.10.

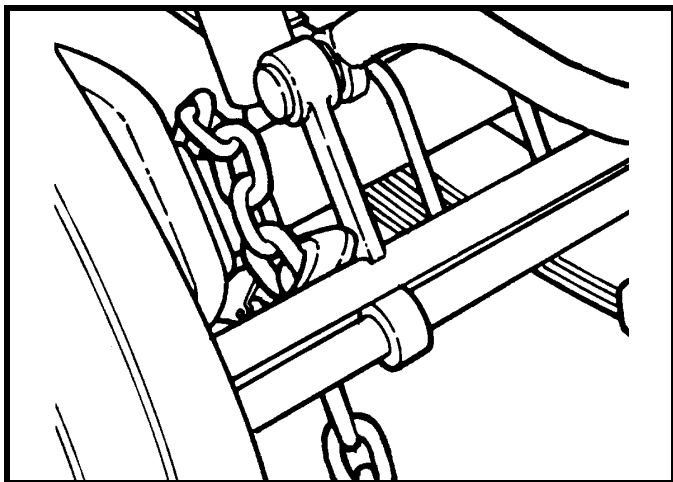


FIGURE 4.7 AXLE HOOK-UP

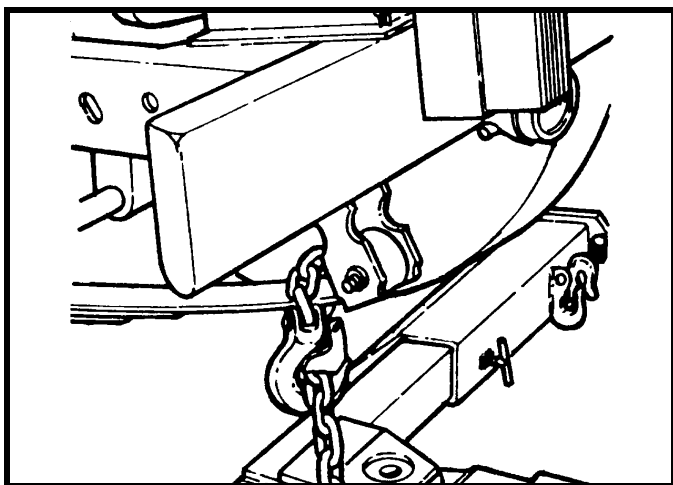


FIGURE 4.8 LEAF SPRING HOOK-UP

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.8 SAFETY CHAIN HOOK-UP PROCEDURES (cont'd)

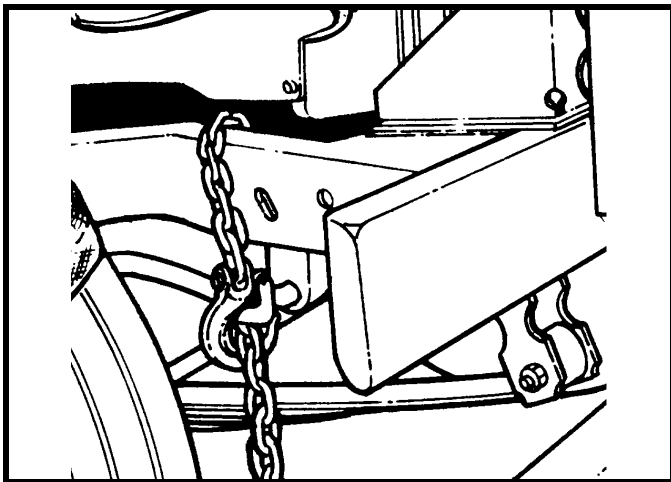


FIGURE 4.9 FRAME HOOK-UP

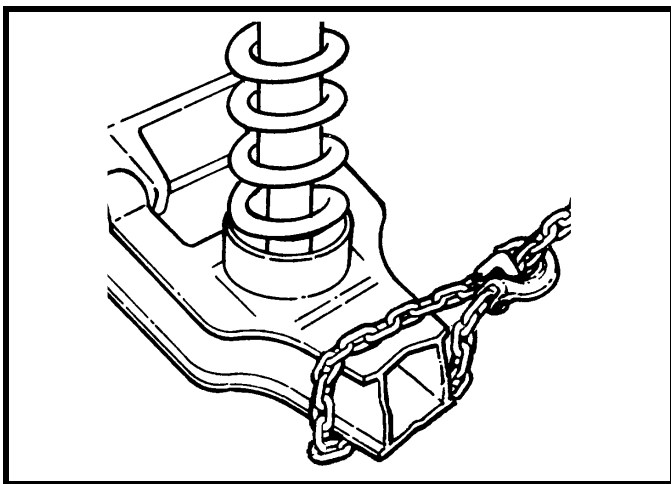


FIGURE 4.10 A-FRAME HOOK-UP

- (c) Pull excess chain back to storage caddy. While holding chain securely, feed any excess chain back into storage caddy until enough slack is left in chain for sharp turns.

Section IV - OPERATING INSTRUCTIONS

WRECKER (cont'd)

4.8 SAFETY CHAIN HOOK-UP PROCEDURES (cont'd)



**SAFETY CHAIN MUST BE SEATED IN BOTTOM OF SLOT
BEFORE ATTEMPTING TO TOW VEHICLE.
SEE FIGURE 4A.11**

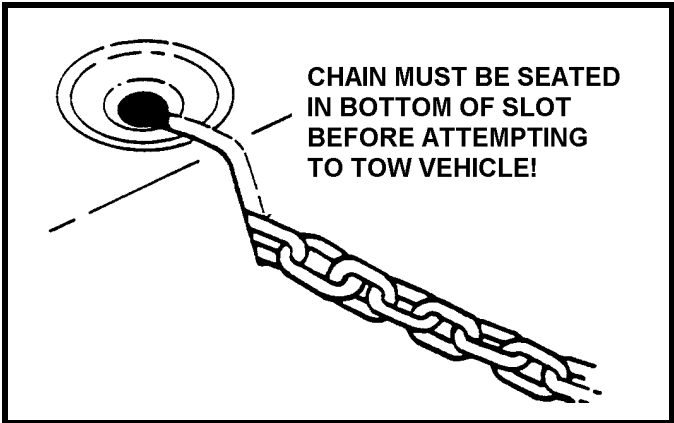


FIGURE 4.11

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT

4A.1 For reasons of safety, it is important that the Owner/Operator(s) of the FORMULA III Wheel Lift become thoroughly familiar with its controls, components and load requirements before attempting any operation.

4A.2 CONTROLS

The Control Levers are located at the rear of the body on both the left and right sides. All the controls are clearly identified as to their function and direction. Refer to Figure 3A.1.

4A.3 PREPARING TO LOAD VEHICLE

- (a) Line the Wheel Lift up with the center of disabled vehicle to be towed. See Figure 4A.1.

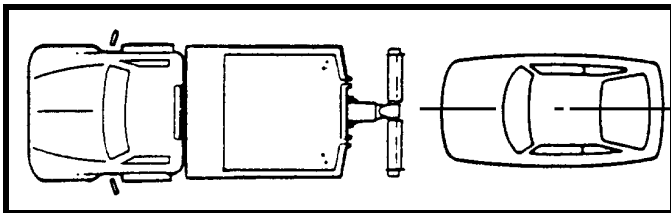


FIGURE 4A.1

- (b) Reduce truck's engine to an idle and apply parking brake. Depress clutch, place transmission in neutral and engage PTO by pulling out knob located on the dash panel in truck cab. Refer to Figure 4.1.
- (c) Adjust engine speed to desired RPM using the Vernier Throttle Control located on the left hand side of the wrecker body.

DO NOT EXCEED 1500 RPM

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.4 WHEEL LIFT TOWING PREPARATION

- (a) Loosen "T" handle and extend outer crosstube until the tire restraint retainers are just beyond the outer sidewall of tires on the vehicle to be towed. See Figure 4A.2.

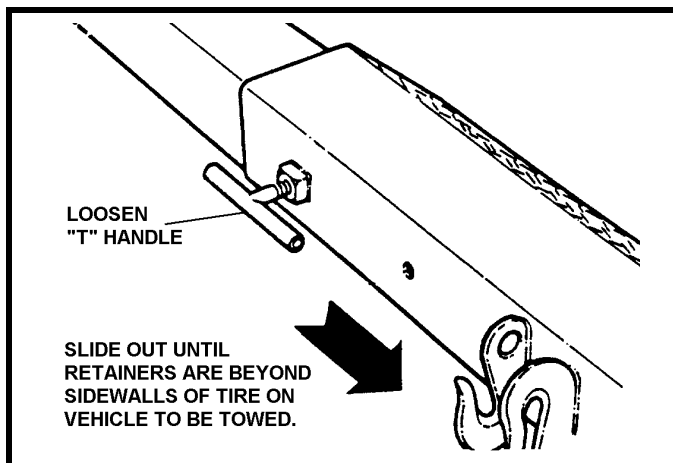


FIGURE 4A.2

- (b) Lower Wheel Lift to ground, then raise until Wheel Lift just clears ground level by use of the Wheel Lift Lift "UP/DOWN" Control. See Figure 4A.3.

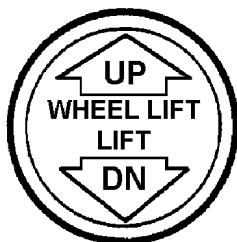


FIGURE 4A.3

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.4 WHEEL LIFT TOWING PREPARATION (cont'd)

- (c) Extend Wheel Lift Boom to maximum stroke, then retract approximately 3 inches by use of the Wheel Lift Extend "IN/OUT" Control. See Figure 4A.4.



FIGURE 4A.4

- (d) Due to the position of the disabled vehicle it may be necessary to tilt the Wheel Lift to obtain the proper position for pick-up. This may be accomplished by use of the Wheel Lift Tilt "UP/DOWN" Control. See Figure 4A.5.

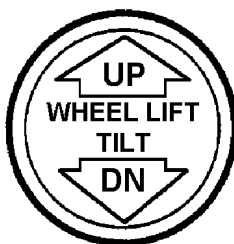


FIGURE 4A.5

4A.5 VEHICLE HOOK-UP

- (a) After all preparations have been made as illustrated, back the Wheel Lift until the crosstubes are firmly against the tires of the vehicle to be towed. Take the truck out of gear and apply parking brake.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.5 VEHICLE HOOK-UP (cont'd)

- (b) Lower Wheel Lift to ground and extend boom until it is firmly against tires of disabled vehicle. See Figure 4A.6.

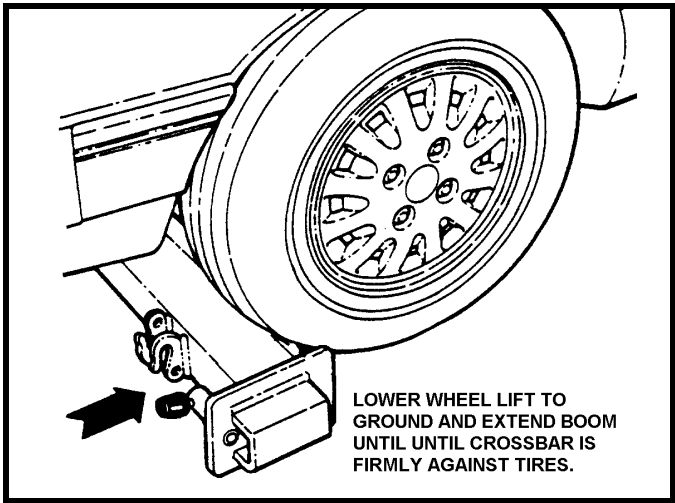


FIGURE 4A.6

- (c) Disengage the tire restraint Plunger by pulling out and rotating 90°. See Figure 4A.7.

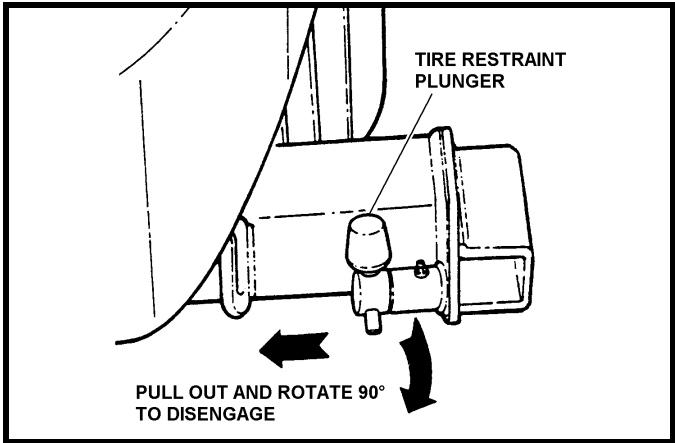


FIGURE 4A.7

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.5 VEHICLE HOOK-UP (cont'd)

- (d) Insert Tire Restraint into crosstube until it is firmly against the rear of the tire. See Figure 4A.8.

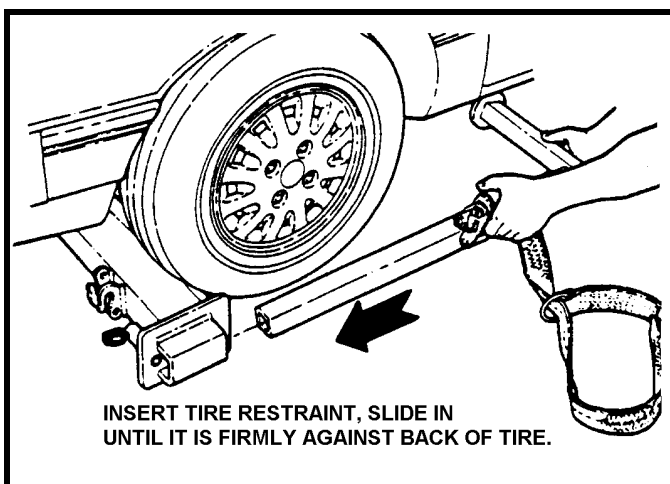


FIGURE 4A.8

- (e) Engage Plunger and adjust the tire restraint until the plunger engages in the appropriate hole in the tire restraint.

NOTE

WITH TIRE RESTRAINTS INSTALLED, BE CERTAIN THAT IT WILL CAUSE NO DAMAGE TO THE VEHICLE TO BE TOWED WHEN WHEEL LIFT IS IN ITS RAISED POSITION.

TO AVOID ANY DAMAGE FROM THE TIRE RESTRAINTS, ADJUST OUTER CROSS TUBES TO THE DESIRED POSITION.

- (f) Repeat procedures (c) through (e) on opposite side of vehicle.
(g) Take vehicle out of gear and make certain parking brake is off.
(h) Using the Wheel Lift Lift "UP/DOWN" Control raise the vehicle to desired towing height.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.6 SECURING VEHICLE TO BE TOWED

- (a) Release Safety Strap Ratchet by releasing lock on Ratchet Lock Handle. See Figure 4A.9.

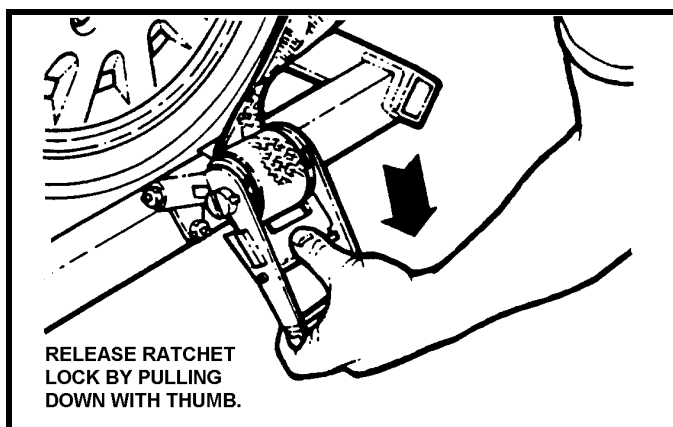


FIGURE 4A.9

- (b) With Ratchet Lock released, pull handle all the way up and pull out the desired length of Safety Strap.
- (c) Position Safety Strap over top of tire as shown in Figure 4A.10. Make certain that the round portion of the "D"-Ring is towards the Wheel Lift.

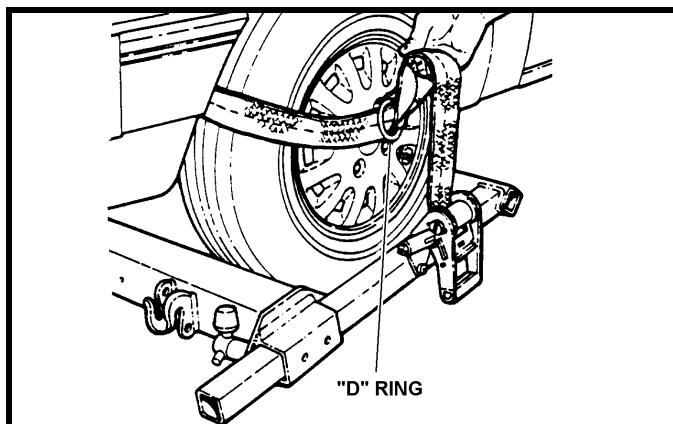


FIGURE 4A.10

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.6 SECURING VEHICLE TO BE TOWED (cont'd)

NOTE

IF TOWING A TRUCK, OR A VEHICLE WITH LARGER THAN 15" TIRES, IT WILL BE NECESSARY TO USE THE SAFETY STRAP EXTENSION THAT IS PROVIDED. SEE FIGURE 4A.11 FOR APPLICATION METHOD.

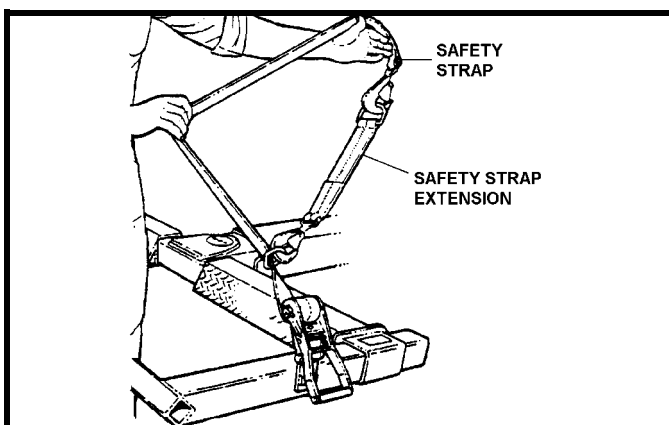


FIGURE 4A.11

- (d) Release Ratchet Lock and tighten Safety Strap around tire securely with ratchet. See Figure 4A.12.

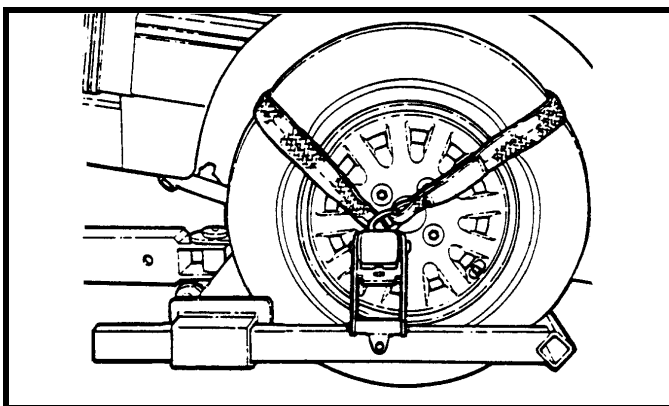


FIGURE 4A.12

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.6 SECURING VEHICLE TO BE TOWED (cont'd)

- (e) Repeat Safety Strap installation on opposite side of vehicle.



**WHEN TOWING FROM REAR AXLES,
SECURE STEERING WHEEL OF VEHICLE IN TOW.
DO NOT RELY ON THE STEERING WHEEL
LOCKING DEVICE.**

NOTE

**IT MAY BE REQUIRED OF SOME VEHICLES TO REMOVE
THE HUB CAPS BEFORE MOUNTING TO THE WHEEL LIFT.**

- (f) Retract the Wheel Lift Boom using the Wheel Lift Extend "IN/OUT" Control. Be certain there is enough clearance between vehicle bumper and tailgate of the wrecker for sharp turns.

NOTE

**WHEN TOWING FROM REAR DRIVE AXLES,
PUT VEHICLE IN GEAR AND ENGAGE PARKING BRAKE.**

**WHEN TOWING FROM FRONT DRIVE AXLES,
PUT VEHICLE IN GEAR AND DISENGAGE PARKING BRAKE.**

NOTE

**THE CLOSER TO THE TAILGATE OF THE WRECKER
A VEHICLE IS TOWED, THE MORE FRONT END WEIGHT
WILL BE AVAILABLE FOR STEERING DURING TOW.**

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.7 SAFETY CHECK PROCEDURES

- (a) In the event of a sudden stop, follow the procedures below for reasons of safety in towing.
 - 1. Pull off road and check Safety Straps to make certain they are tight and secure.
 - 2. Should the safety straps be loose, lower Wheel Lift to the ground allowing the tires to re-align themselves in the crossbars. Raise the Wheel Lift to desired towing height and tighten the safety straps securely with the Safety Strap Ratchet.

4A.8 UNLOADING TOWED VEHICLE

- (a) Reverse steps 4A.5 through 4A.6.

4A.9 HOOK-UP FOR VEHICLE WITH FLAT TIRE(S)

- (a) Loosen "T" Handle and extend outer crosstubes until tire restraint retainers are just beyond the outer sidewalls of tires on disabled vehicle. Refer to Figure 4A.2.
- (b) Lower Wheel Lift to ground then raise until Wheel Lift just clears ground level.
- (c) Fully extended Wheel Lift Boom, then retract approximately 3 inches.
- (d) After all preparations are complete, back the Wheel Lift up until the crossbars are firmly against the tires of the disabled vehicle.

NOTE

**MAKE CERTAIN THE TRANSMISSION IS IN GEAR (PARK)
AND THE PARKING BRAKE IS ENGAGED
ON THE DISABLED VEHICLE BEFORE
THE WHEEL LIFT CROSSBAR IS ENGAGED.**

- (e) Should only one tire be flat, secure the inflated tire in normal fashion. Refer to 4A.5 and 4A.6.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.9 HOOK-UP FOR VEHICLE WITH FLAT TIRE(S) (cont'd)

- (f) Extend the Wheel Lift Boom as far as possible against the flat tire(s). This should allow the crossbar to compress the tire completely. See Figure 4A.13.

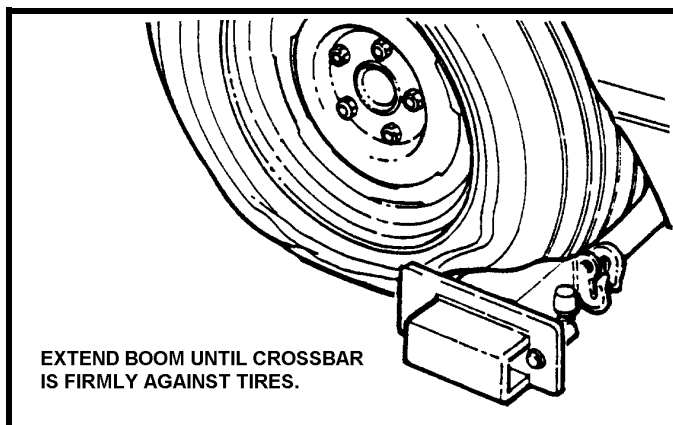


FIGURE 4A.13

- (g) Install tire restraint onto flat tire. See Figure 4A.14.

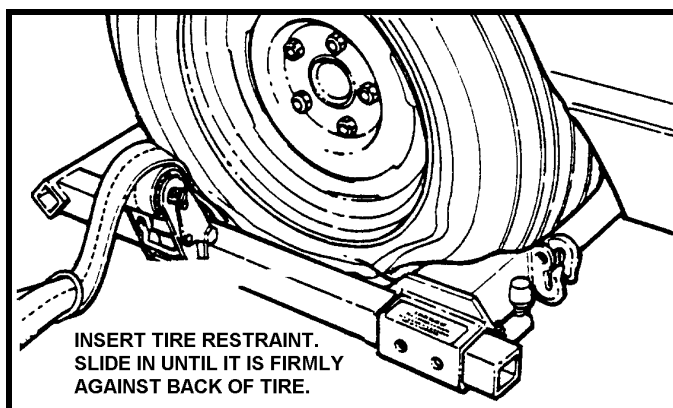


FIGURE 4A.14

- (h) Place transmission in neutral and disengage parking brake on disabled vehicle.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.9 HOOK-UP FOR VEHICLE WITH FLAT TIRE(S) (cont'd)

- (i) Raise the vehicle and place blocks on timbers beneath the flat tire. Lower the Wheel Lift allowing the tire to rest on the blocking.
- (j) Engage parking brake and place transmission in gear (park) of the disabled vehicle.
- (k) Extend Wheel Lift further, allowing the crossbar to compress the tire further. Re-adjust Tire Restraint as far as possible into the flat tire. This ensures the rim of the wheel will rest on the crossbar and tire restraint.
- (l) Raise Wheel Lift and remove blocking from beneath the tire.
- (m) Install Safety Strap on flat tire. Refer to Section 4A.7, SECURING VEHICLE TO BE TOWED.
- (n) When tightening Safety Strap around a flat tire be certain it has the tire completely collapsed. This ensures proper installation of the strap on a flat tire. See Figure 4A.15.

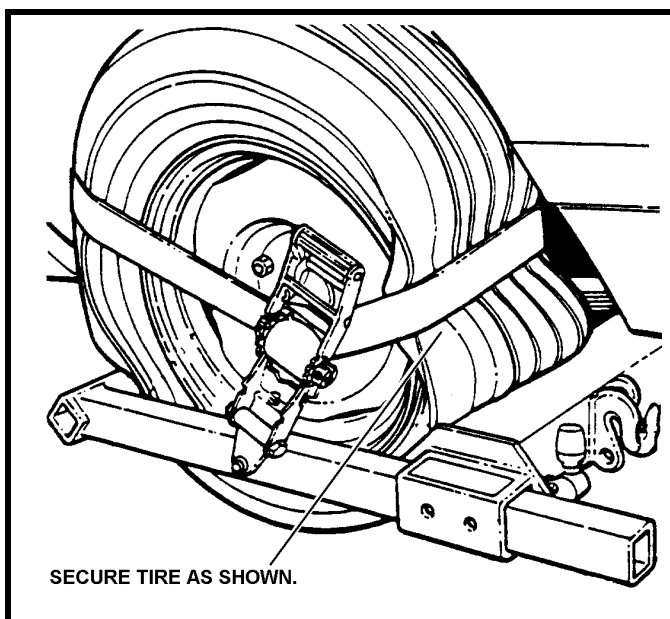


FIGURE 4A.15

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.10 OUTER CROSS TUBE REMOVAL

- (a) Loosen "T" Handles and fully extend Outer Cross Tubes.
- (b) Insert a screwdriver or 1/4" rod into Stop Rod Hole located beside "T" Handle. See Figure 4A.16.

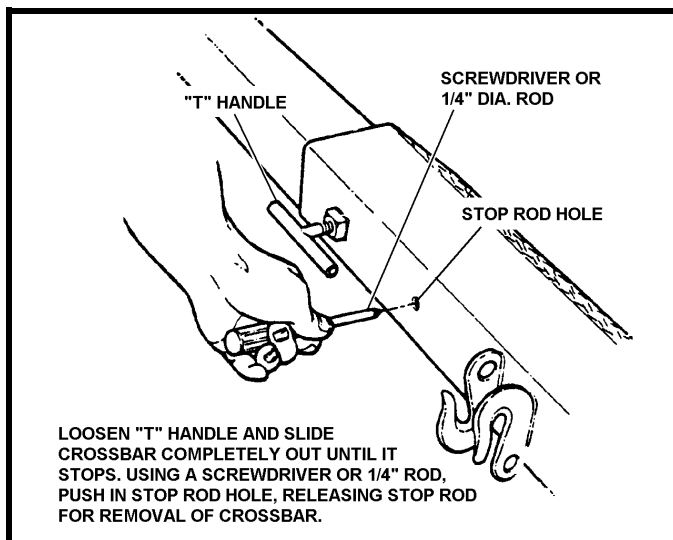


FIGURE 4A.16

- (c) While pushing in to release Stop Rod, pull outer crosstube off the crossbar. To reinstall outer crosstubes, simply slide them onto the crossbar. The Stop Rod will automatically engage when slid all the way on. Tighten "T" Handles.

4A.11 TOW FORK ADAPTERS

- (a) Remove outer crosstubes.
- (b) Loosen "T" Handles on Fork Adapters and slide onto crossbar. See Figure 4A.17.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.11 TOW FORK ADAPTERS (cont'd)

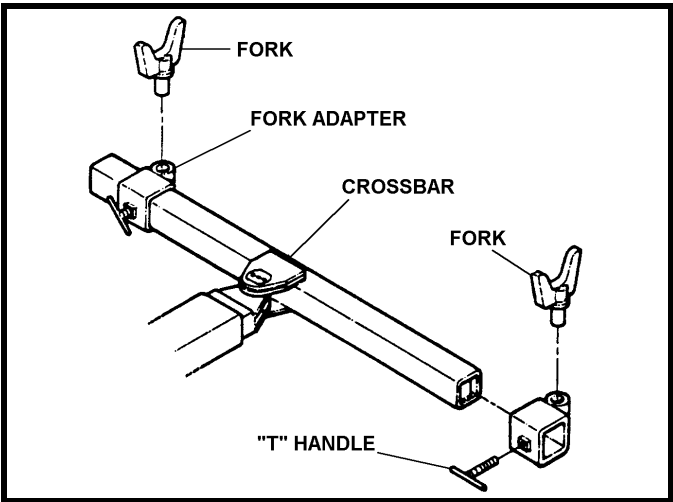


FIGURE 4A.17

NOTE
THE FORK ADAPTERS CAN BE PLACED IN ANY OF FOUR (4) POSITIONS AND ANY LOCATION ON THE CROSSBAR. SEE FIGURE 4A.18.

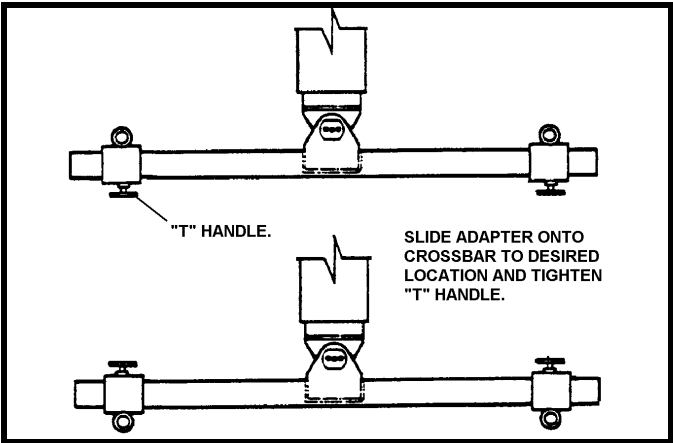


FIGURE 4A.18

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.12 TOW FORK & ADAPTER APPLICATIONS

- (a) Align Wheel Lift with disabled vehicle.

NOTE

STEPS (b) THROUGH (d) ARE NOT NECESSARY PERMITTING THE AXLE IS HIGH ENOUGH TO ALLOW EXTENSION OF BOOM WITH FORKS AND ADAPTERS INSTALLED ON CROSSBAR.

- (b) Extend the Boom (without adapters or forks) until crossbar is centered with axle of disabled vehicle.
- (c) Raise vehicle until tire can be blocked up high enough to allow forks to clear axle when installed onto the crossbar.
- (d) Block up tires and lower Boom until boom can be retracted for installation of adapters and forks.
- (e) Install adapters in desired configuration on crossbar. Select and install desired forks into adapters. Refer to Figure 4A.19.
- (f) Extend Boom until Forks are beneath axle or frame as desired.
- (g) Manually adjust adapters on crossbar to a point where the forks will come in contact with the frame or axle in the desired towing position.
- (h) Tighten "T" Handles on adapters. Attach safety chains around axle or frame, crossbar and forks as shown in Figure 4A.19.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.12 TOW FORK & ADAPTER APPLICATIONS (cont'd)

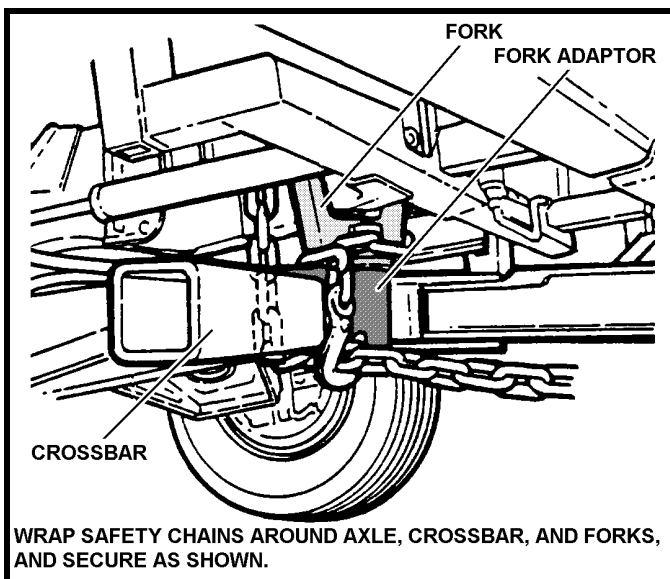


FIGURE 4A.19



**USE SAFETY CHAINS
ON ALL TOWING AND
LIFTING APPLICATIONS**

- (i) Raise vehicle to desired height for towing.
- (j) Remove any blocks previously placed under the tires.
- (k) Retract Boom pulling disabled vehicle as close to the Wheel Lift body as possible while maintaining enough distance for sharp turns.
- (l) Raise Boom to desired towing height.
- (m) Pull excess Safety Chain back into Storage Caddy. Be certain to allow enough slack for sharp turns.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.12 TOW FORK & ADAPTER APPLICATIONS (cont'd)



**SAFETY CHAIN MUST BE SEATED IN BOTTOM OF SLOT
BEFORE ATTEMPTING TO TOW VEHICLE.
SEE FIGURE 4A.20**

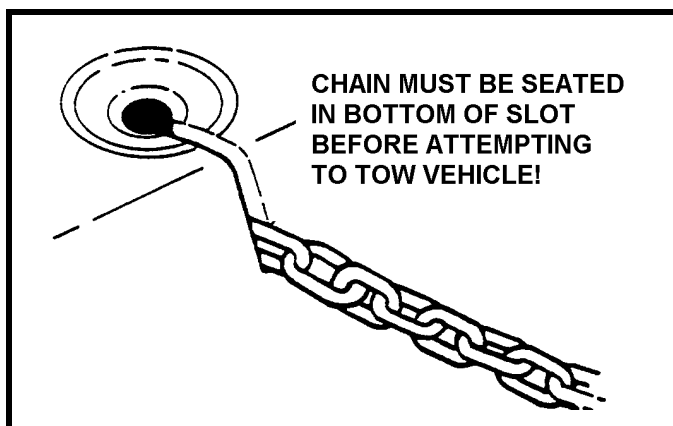


FIGURE 4A.20

4A.13 SPRING LIFT BRACKETS

- Align Wheel Lift with disabled vehicle.
- Position fork adapters in desired configuration on crossbar, secure them in place with retaining pins and install spring lift brackets into fork adapters. See Figure 4A.21.

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.13 SPRING LIFT BRACKETS (cont'd)

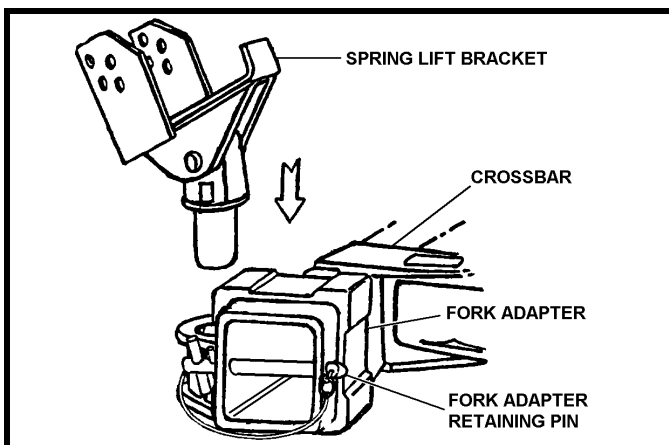


FIGURE 4A.21

- (c) Extend boom until spring brackets are under front spring hangers of vehicle to be towed. It may be necessary to tilt the boom down in order for the spring brackets to clear the vehicle bumper.
- (d) Manually adjust spring lift bracket on crossbar to a point where the forks will engage the springs at the front hanger brackets. See Figure 4A.22.

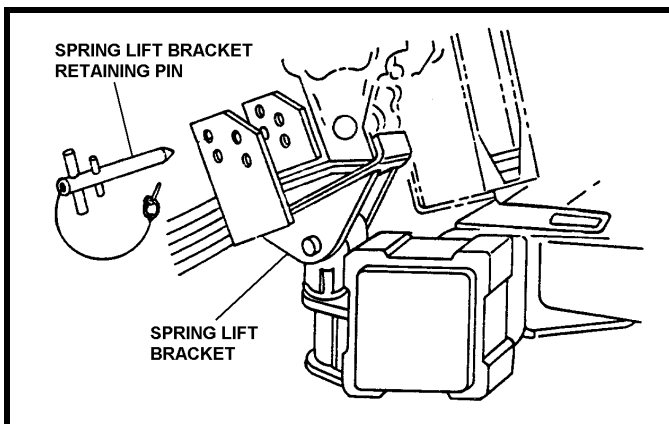


FIGURE 4A.18

Section IVA - OPERATING INSTRUCTIONS

WHEEL LIFT (cont'd)

4A.13 SPRING LIFT BRACKETS (cont'd)

- (e) Raise the boom until the spring lift brackets are properly seated under the springs at the front spring brackets. See Figure 4A.22.
- (f) Insert the spring lift bracket retaining pin through the lowest unobstructed hole of the spring lift bracket and secure with the safety pin.
- (g) Attach safety chains around the springs, brackets and crossbar in such a manner as to prevent any movement to front or rear.
- (h) Raise the vehicle to the desired height for towing and retract boom pulling vehicle as close as possible while maintaining enough distance for sharp turns.

Section IVB - OPERATING INSTRUCTIONS

STEERING WHEEL LOCK

4B.1 INSTRUCTIONS FOR INSTALLATION

1. Unlock anti-theft steering lock if vehicle is equipped with one.



**CARS WITH ANTI-THEFT STEERING LOCKS
SHOULD NEVER BE TOWED ON THEIR FRONT WHEELS
WHILE LOCKED IN THE TURNED POSITION**

2. Turn steering wheel so that front wheels are directed straight ahead.
3. Insert latch of steering wheel lock into its buckle. Make sure it locks in place. See Figure 4B.1.
4. Place steering wheel grip on bottom of steering wheel and secure it by tightening jam nut against sliding clamp.
5. Hook seat grip under the front edge of auto seat or to a rigid seat frame member that is securely fastened in place. Make sure you do not hook it to a removable seat cushion.
6. Grasp the free end of the belt and pull until belt is tight.
7. Recheck jam nut to make sure it is still tight.

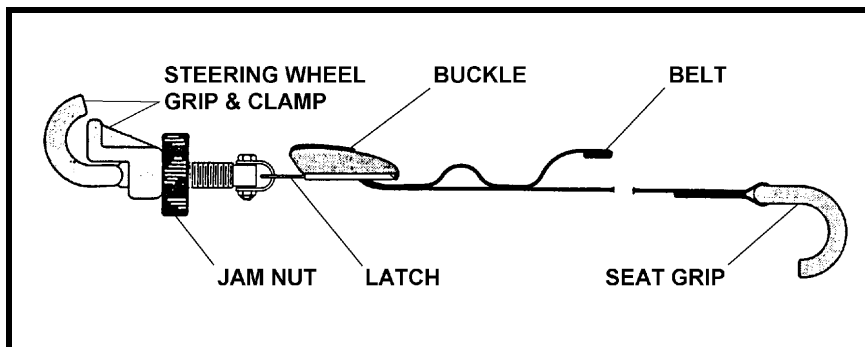


FIGURE 4B.1

Section IVB - OPERATING INSTRUCTIONS

STEERING WHEEL LOCK

4B.1 INSTRUCTIONS FOR INSTALLATION (cont'd)



**FAILURE TO PROPERLY SECURE AND TIGHTEN
THE STEERING WHEEL LOCK
COULD RENDER IT INEFFECTIVE DURING TRAVEL,
RESULTING IN A DANGEROUS TOWING CONDITION**

4B.2 INSTRUCTIONS FOR REMOVAL

1. Press button on buckle of steering wheel lock, releasing the latch.
2. Loosen jam nut and remove grip from steering wheel.
3. Unhook seat grip from seat or seat frame.

Section V - MAINTENANCE

5.1 The continued operation of your CENTURY Hydraulic Wrecker is largely dependent upon strict adherence to a properly scheduled preventive maintenance program. To help you in this program, CENTURY has provided the following information regarding lubrication, preventive maintenance and hydraulic system care.

5.2 HYDRAULIC SYSTEM

The importance of absolute cleanliness of the hydraulic system cannot be over-stressed. The smallest amount of grit, metal flake or other foreign material in the system can cause extensive damage to pumps, motors and valves. CENTURY has taken every measure to assure that each component and fitting was thoroughly cleaned before your unit was shipped to you. Therefore, servicing of the system should be done with extreme care.

- (a) Before checking oil level in reservoir, wipe away all dirt, grease and grime around filler cap before removing it. Make certain that all containers, funnels and pouring spouts are absolutely clean before filling reservoir.
- (b) When replacing hoses, fittings or other components, clean thoroughly; then assemble carefully.
- (c) Failure to observe these precautions, and failure to change the filter element at regular intervals could result in loss of your warranty in the event of failure of certain components.

5.3 LUBRICATION & PREVENTIVE MAINTENANCE

The following general lubrication and preventive maintenance should be performed at least once per month for moderate usage or more often as required, for heavy usage.

- (a) Inspect, repair or replace any worn, cracked, leaking, otherwise damaged components including, but not limited to, the following:

1. **Hydraulic Oil Filter**
 2. **Oil Reservoir**
 3. **Controls**
 4. **Cables and Fittings**
 5. **Hydraulic Hoses and Fittings**
 6. **Lights and Wiring**
 7. **Winches**
 8. **Cylinders**
 9. **Pivot Bearing Surfaces and Pins**
- (See Lubrication Charts, page V-4 & V-5.)

Section V - MAINTENANCE (cont'd)

5.3 LUBRICATION & PREVENTIVE MAINTENANCE (cont'd)

- (b) Check hydraulic oil level in reservoir and fill to proper level. Refer to 5.4, SUMMARY OF REQUIRED LUBRICANTS for recommended oils to use.
- (c) Replace hydraulic oil filters after first week of operation, then every three (3) months thereafter.
- (d) Inspect all bolts for tightness and re-tighten as necessary. Vibration and stress may loosen even properly torqued bolts.
- (e) Lubricate all grease fittings on the Wrecker and Wheel Lift weekly including:
 - 1. **Bellcranks and Control Handle Shafts**
 - 2. **Winch**
 - 3. **Cables**
 - 3. **Cylinder Pivot Bearings**
 - 4. **Cross Bar Pivot**
 - 5. **Boom and Wheel Lift Slide Pads**
 - 6. **Boom End Swivels**
- (f) All bearing surfaces not equipped with grease fittings should be oiled using SAE 30 oil in a pump can.
- (g) Check oil level of winches and fill to proper level, level plug on end plates, with SAE 140 general purpose gear oil.
- (h) Lubricate grease fitting on winch freespool clutch control.
- (i) Lubricate winch cables using an oily rag while respooling onto drum. Other special cable lubricants are available which have better penetrating qualities. Consult your local oil company for a list of these.

Section V - MAINTENANCE (cont'd)

5.4 SUMMARY OF REQUIRED LUBRICANTS

(a) **Hydraulic Oil**

Examples:

1. **Texaco Rando HD 46**
2. **Shell Tellus Oil 46**
3. **Mobil Nuto H46**
or EQUAL

(b) **Winch Worm Gear Oil** - SAE 140 general purpose gear oil.

Examples:

1. **Humble - Pen-O-Led EP #5**
2. **Phillips - Phillips Worm Gear Oil 140**
3. **Shell - Macona #978**
4. **Sinclair - Pennant EP #6**
5. **Standard - Stanogear #5**
6. **Texaco - Maropa #5**

(c) **Grease** - Synthetic Fortified such as **Drydene SFG**.

(d) **Oil for miscellaneous bearing surfaces** - SAE 30.

(e) **Cable Oil** - SAE 30 or special cable lubricant.

NOTE

**THERE IS NO PRACTICAL WAY TO DETERMINE
THE LIFE EXPECTANCY OF HYDRAULIC HOSES
AND OTHER RUBBER COMPONENTS.**

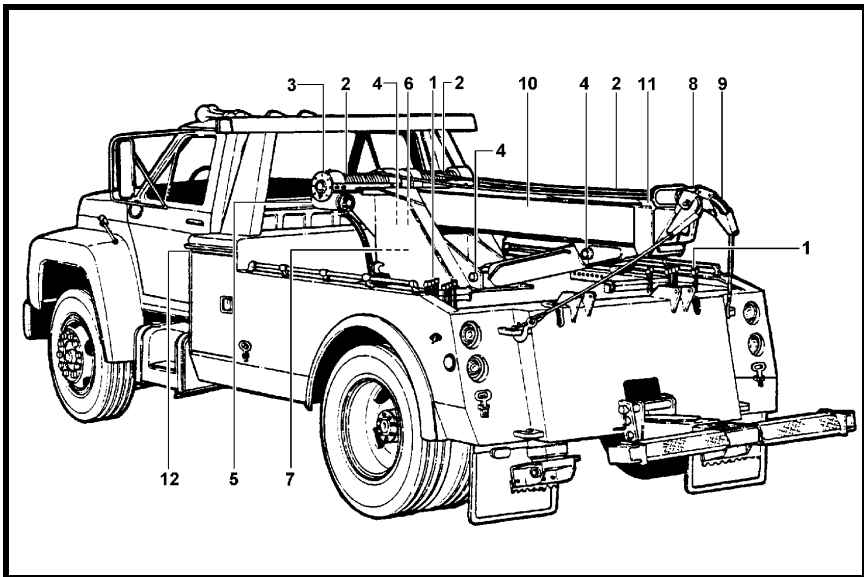
**WHILE APPEARING TO BE IN EXCELLENT CONDITION, THESE
COMPONENTS MAY BE ADVERSELY AFFECTED BY
USAGE, WEATHER OR THE PASSING OF TIME.**

**THEREFORE, IT IS RECOMMENDED THAT ALL
RUBBER COMPONENTS, ESPECIALLY HOSES, BE REPLACED
EVERY FIVE (5) YEARS REGARDLESS OF APPEARANCE.**

5.5 CARE OF HYDRAULICS IN COLD CLIMATES

Regions subject to continuous sub-zero or arctic climates require special hydraulic fluids. Contact CENTURY or your local supplier for information regarding specific temperature requirements.

Section V - MAINTENANCE (cont'd)



LUBRICATION CHART (Wrecker)

5.6 LUBRICATION - WRECKER

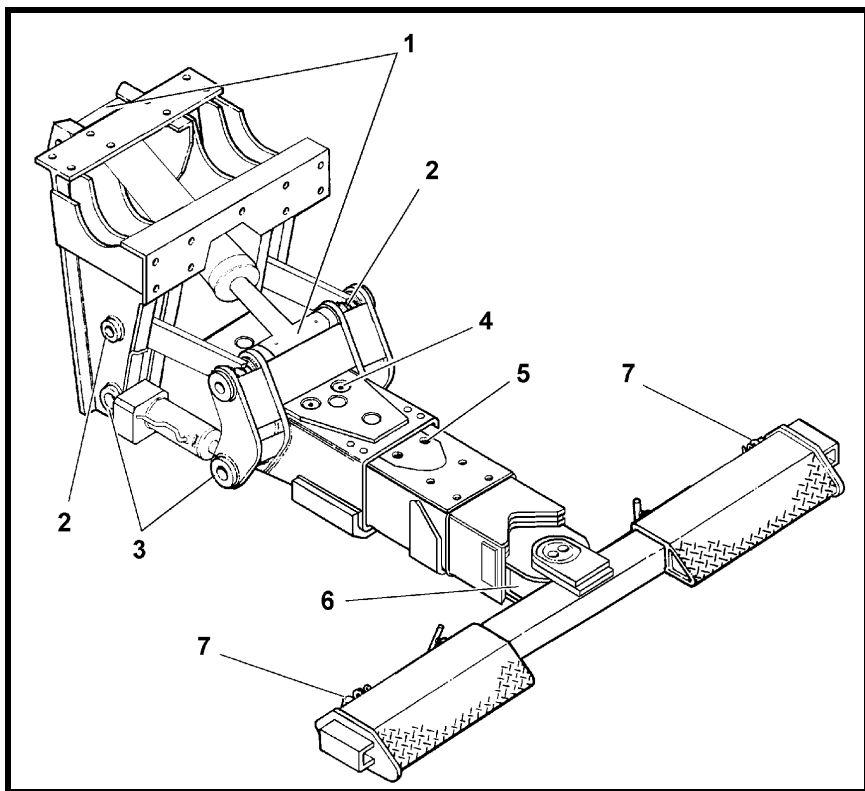
1. Control Handle Shafts - synthetic fortified grease
2. Cable - oily rag or approved cable lubricant
3. Winches - SAE 140 gear oil to proper level
4. Cylinder Pivot Bearings - synthetic fortified grease
5. Winch Freespool - synthetic fortified grease
6. Hydraulic Reservoir - approved hydraulic fluid to proper level
7. Hydraulic Filters - replace after first week then every three (3) months
8. Boom End Swivels - synthetic fortified grease
9. Sheaves - synthetic fortified grease
10. Extended/Lift Cylinders - synthetic fortified grease
11. Boom Slide Pads - synthetic fortified grease
12. Door Hinges - synthetic fortified grease

NOTE

**THE ABOVE SERVICE REQUIREMENTS
SHOULD BE SERVICED MONTHLY.**

**SERVICE MORE OFTEN IF THE EQUIPMENT
IS USED FREQUENTLY.**

Section V - MAINTENANCE (cont'd)



LUBRICATION CHART (Wheel Lift)

5.7 LUBRICATION - WHEEL LIFT

1. Lift Cylinder Pivot Bearings - synthetic fortified grease
2. Upper Arm Assembly - synthetic fortified grease
3. Tilt Cylinder - synthetic fortified grease
4. Wheel Lift Outer Boom - synthetic fortified grease
5. Wheel Lift Inner Boom - synthetic fortified grease
6. Wheel Lift Pivot Pin - synthetic fortified grease
7. Tire Restraint Plunger - synthetic fortified grease

NOTE

**THE ABOVE SERVICE REQUIREMENTS
SHOULD BE SERVICED MONTHLY.**

**SERVICE MORE OFTEN IF THE EQUIPMENT
IS USED FREQUENTLY.**

Section V - MAINTENANCE (cont'd)

MAINTENANCE RECORD

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Section V - MAINTENANCE (cont'd)

MAINTENANCE RECORD

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Section VI - PARTS

This Section is provided by the manufacturer for the purpose of ordering any component part of the **925 Wrecker and Formula III Wheel Lift** that may be required when part replacement is necessary. Be certain to use only original equipment replacement parts for warranty purposes as well as for keeping your **925 Wrecker and Formula III Wheel Lift** in its original state and optimum operating capacities.

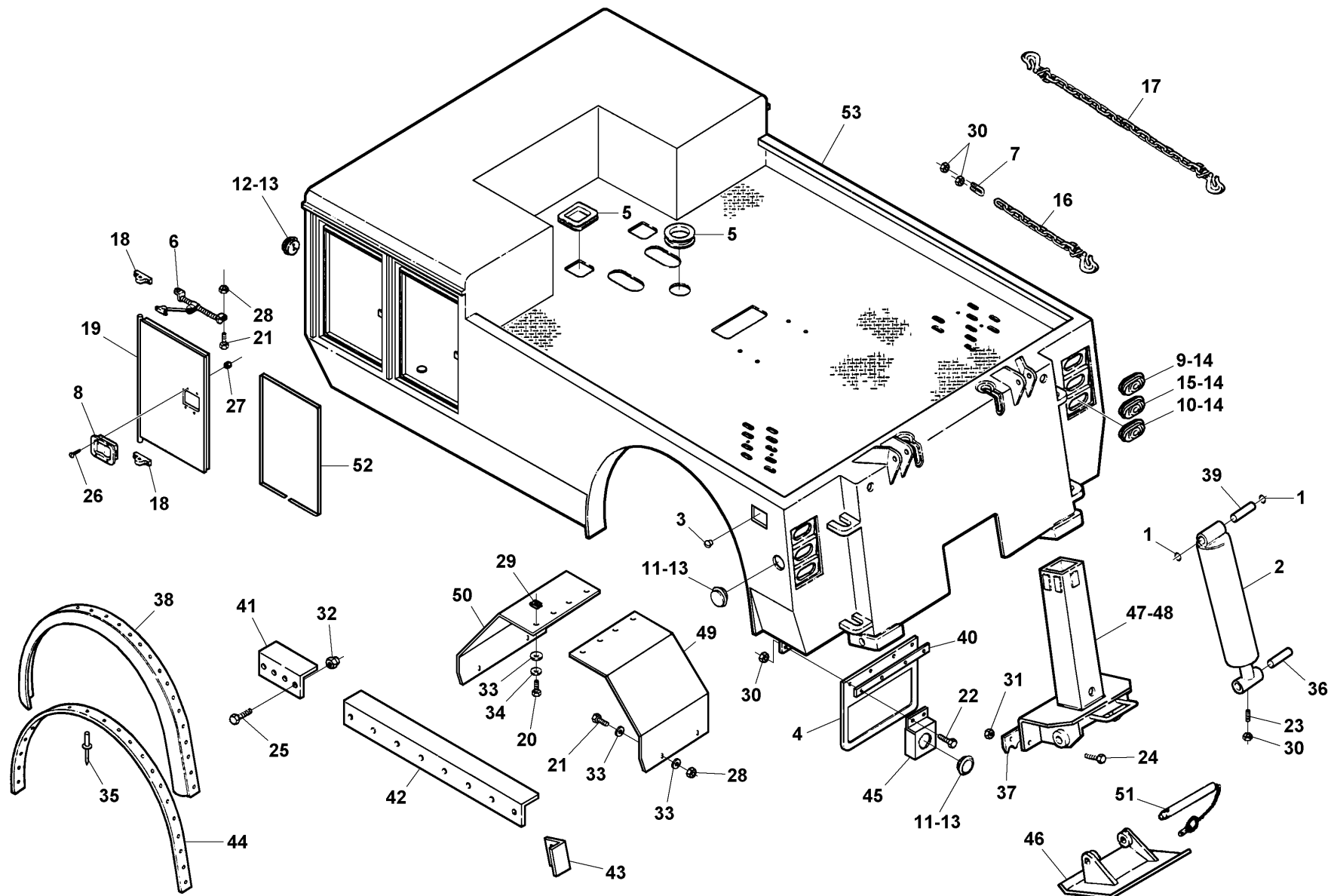
When ordering replacement or spare parts be sure to provide the following information to the manufacturer's **Parts Department**.

1. **Manual Number & Date of Publication**
2. **Manual Page Number**
3. **Page Title**
4. **Reference Number of Part Desired**
5. **Part Number**
6. **Part Description**
7. **Quantity of Part Desired**

Providing this information will help ensure that the correct parts will be delivered to you in an expedient manner without delay. Should additional information be required for repair or replacement of certain components, contact your Wrecker Manufacturer Authorized Representative.

The Manufacturer reserves the right, without notice or obligation, to improve or modify their products, which may change the specifications, models and feature availability.

Section VI - PARTS (cont'd) **BODY ASSEMBLY - 925 GSA**



Section VI - PARTS (cont'd)

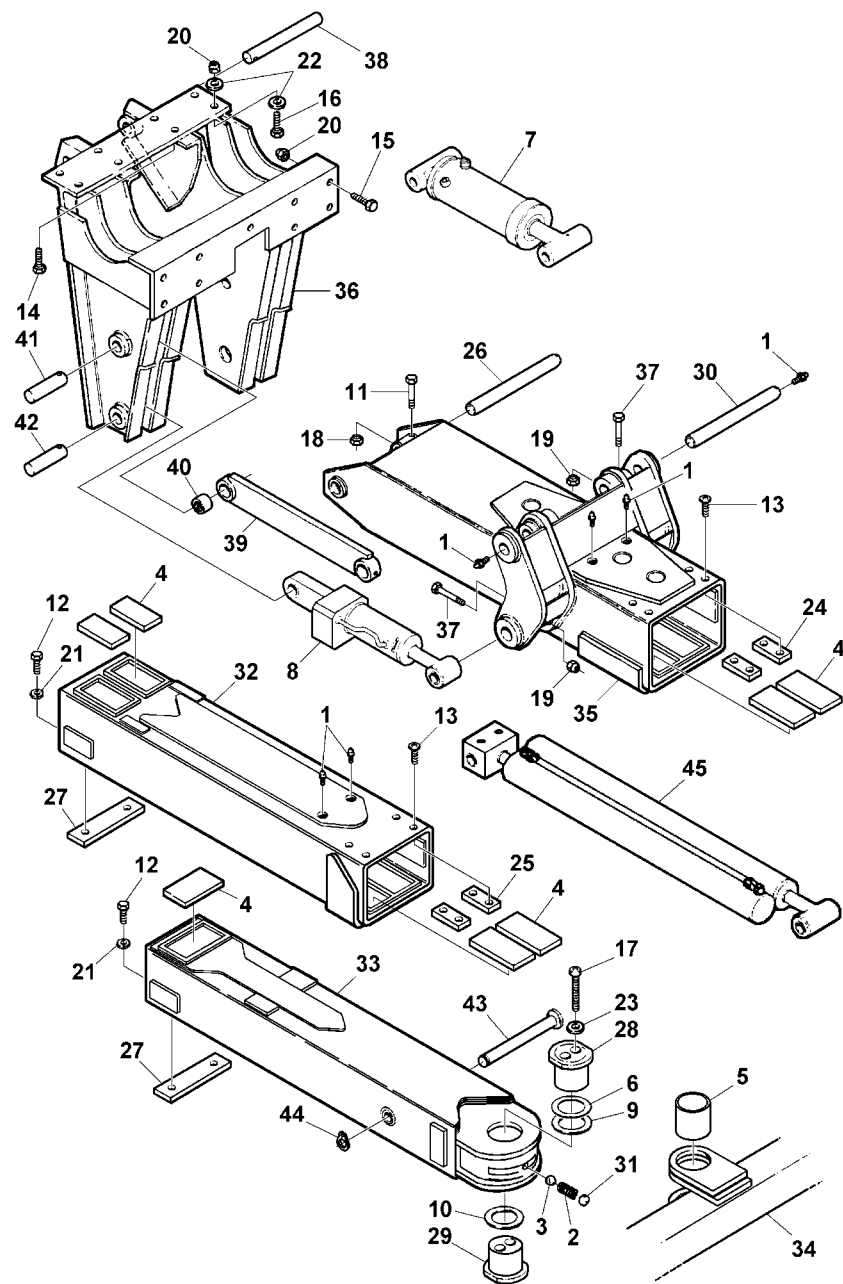
BODY ASSEMBLY - 925 GSA

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	4	0300110	SNAP RING, 1"
2	REF.	0300680	CYLINDER, REAR JACK
3	2	0300867	ILLUMINATOR, CONTROL STATION
4	2	0301223	MUDFLAP
5	--	0301870	CATERPILLAR GROMMET
6	4	0301912	HOLDBACK, DOOR CHECK
7	2	0302376	CABLE CLAMP, 3/8"
8	4	0302855	LATCH, TOOL COMPARTMENT DOOR
9	REF.	0303123	LIGHT, STOP, RED
10	REF.	0303124	LIGHT, BACK UP, CLEAR
11	REF.	0303125	LIGHT, MARKER, SEALED RED
12	REF.	0303126	LIGHT, MARKER, SEALED AMBER
13	REF.	0303127	GROMMET, MARKER
14	REF.	0303128	GROMMET, TAIL LIGHT
15	REF.	0303177	LIGHT, TURN, AMBER
16	2	0303196	SAFETY CHAIN, 3/8" H.T.
17	2	0303197	SAFETY CHAIN, 3/8" ALLOY
18	8	0304264	HINGE, DOOR
19	4	0304480	DOOR, TOOL BOX
20	34	0400066	SCREW, 1/4"-20 X 3/4" HEX HD CAP
21	16	0400070	SCREW, 1/4"-20 X 1" HEX HD CAP
22	10	0400122	SCREW, 3/8"-16 X 1-1/4" HEX HD CAP
23	2	0400139	SCREW, 3/8"-16 X 1-1/2" HEX SKT SET
24	10	0400181	SCREW, 1/2"-13 X 1-1/2" HEX HD CAP
25	30	0400264	SCREW, 5/8"-11 X 2-1/4" HEX HD CAP
26	16	0400321	SCREW, #8-32 RD HD
27	16	0400351	NUT, #8-32 KEPS

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
28	16	0400367	NUT, 1/4"-20 HEX NYLOK
29	16	0400369	CLIP, 1/4" TINNERMAN
30	14	0400392	NUT, 3/8"-16 HEX NYLOK
31	10	0400408	NUT, 1/2"-13 HEX NYLOK
32	30	0400421	NUT, 5/8"-11 HEX NYLOK
33	48	0400451	WASHER, 1/4" FLAT
34	16	0400452	LOCKWASHER, 1/4" HELICAL
35	42	0400566	RIVET, 1/4"
36	2	0700884	SHAFT, LOWER JACK
37	2	0703459	OUTRIGGER BLADE
38	2	0704047	FENDER, RUBBER
39	2	0704206	SHAFT, UPPER JACK
40	2	0705092	BAR, MUDFLAP
41	2	0705492	ANGLE, FRONT MOUNTING
42	2	0705493	ANGLE, REAR MOUNTING
43	2	0706553	ANGLE, TAILGATE MOUNTING
44	2	0706609	RETAINING STRIP, RUBBER FENDER
45	2	0710198	BRACKET, MARKER LIGHT
46	2	0801039	JACK PAD, PIN-ON
47	1	0801166	INNER JACK TUBE, RIGHT
48	1	0801167	INNER JACK TUBE, LEFT
49	2	0802998	FENDERWELL, RT FRONT & LT REAR
50	2	0802999	FENDERWELL, LT FRONT & RT REAR
51	2	0900910	PIN, JACK PAD
52	32 FT.	6223008	DOOR SEAL
53	1	7208001	925 GSA BODY WELDMENT, 138" C.A.

Section VI - PARTS (cont'd)

FORMULA III WHEEL LIFT ASSEMBLY



Section VI - PARTS (cont'd)

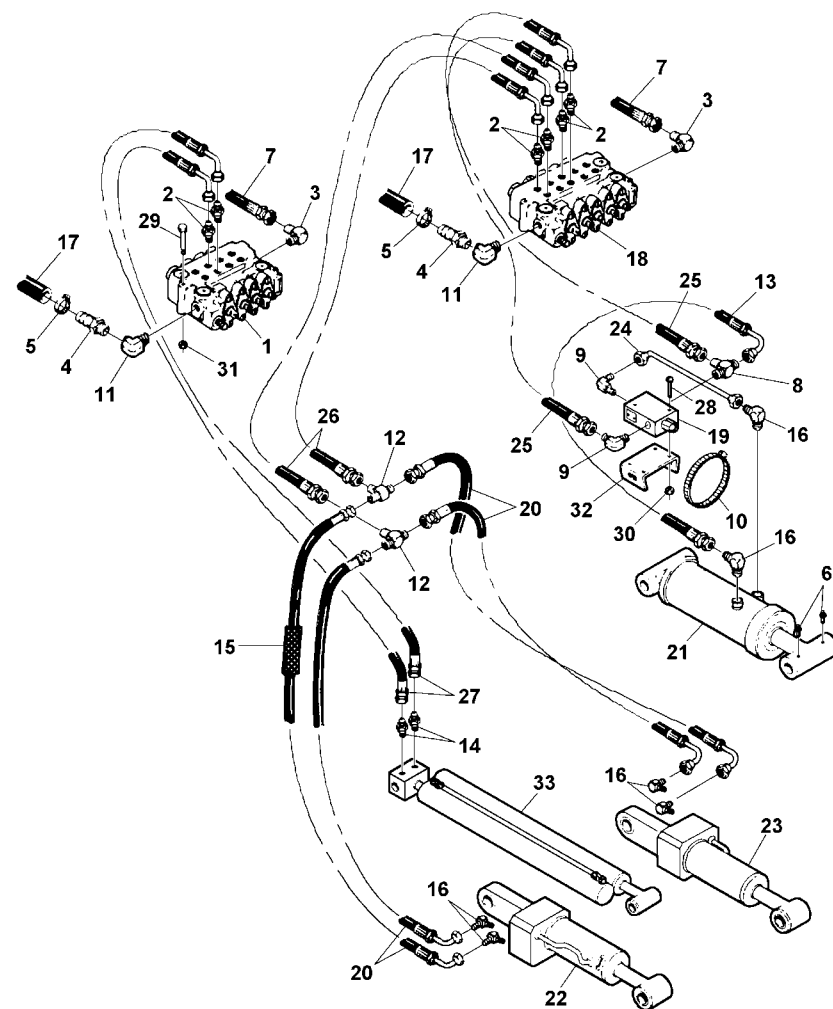
FORMULA III WHEEL LIFT ASSEMBLY

REF. NO.	NO. REQ	PART NUMBER	DESCRIPTION
1	16	0300113	GREASE FITTING
2	1	0301197	COMPRESSION SPRING, CROSSBAR
3	1	0301398	BALL, 1-3/16" DIA. STEEL
4	7	0302561	SLIDE PAD
5	1	0302625	BUSHING
6	1	0303087	"O" RING, PIVOT PIN
7	REF.	0303101	LIFT CYLINDER
8	REF.	0303102	TILT CYLINDER, LEFT
	REF.	0303103	TILT CYLINDER, RIGHT
9	2	0303105	THRUST WASHER, 1/8" THK
10	2	0303106	THRUST WASHER, 1/16" THK
11	1	0400107	SCREW, 5/16"-18 X 2-1/2" HEX HD CAP
12	4	0400147	SCREW, 3/8"-24 X 5/8" HEX HD CAP
13	8	0400228	SCREW, 3/8"-24 X 5/8" BUTTON HD SKT
14	4	0400254	SCREW, 5/8"-11 X 2-1/2" HEX HD CAP
15	9	0400260	SCREW, 5/8"-11 X 2" HEX HD CAP
16	4	0400264	SCREW, 5/8"-11 X 2-1/4" HEX HD CAP
17	2	0400271	SCREW, 5/8"-11 X 4-1/2" SKT HD CAP
18	1	0400382	NUT, 5/16"-18 NYLOK HEX
19	9	0400392	NUT, 3/8"-16 NYLOK HEX
20	17	0400421	NUT, 5/8"-11 NYLOK HEX
21	4	0400481	LOCKWASHER, 3/8" EXT. TOOTH
22	16	0400506	WASHER, 5/8" X 1-3/4" FLAT

REF. NO.	NO. REQ	PART NUMBER	DESCRIPTION
23	2	0400508	LOCKWASHER, 5/8" HELICAL
24	2	0703231	STOP BLOCK, 2ND STAGE
25	2	0707034	STOP PLATE
26	1	0707271	PIN, EXTEND CYLINDER, BASE END
27	2	0707452	SPACER PAD
28	1	0710054	PIVOT PIN, TOP HALF
29	1	0710055	PIVOT PIN, BOTTOM HALF
30	1	0710193	PIN, UPPER LINK & LIFT CYLINDER
31	1	0710195	SPACER, DETENT SPRING
32	1	0802917	BOOM WELDMENT, 2ND STAGE
33	1	0802918	BOOM WELDMENT, 3RD STAGE
34	1	0802919	CROSSBAR WELDMENT
35	1	0802920	OUTER BOOM WELDMENT
36	1	0802921	FRAME WELDMENT
37	9	DE496	SCREW, 3/8"-16 X 3-3/4" HEX HD CAP
38	1	HD55	PIN, CYLINDER BASE
39	2	HD58	UPPER LINK ARM WELDMENT
40	4	HD59	BEARING, LINK UPPER
41	2	HD67B	PIN, UPPER LINK
42	4	HD68B	PIN, LOWER LINK
43	1	HD86	EXTEND CYLINDER PIN WELDMENT
44	1	HD89	RETAINING RING, 1-5/16"
45	REF.	HD130	CYLINDER, BOOM EXTENSION

Section VI - PARTS (cont'd)

FORMULA III WHEEL LIFT HYDRAULICS



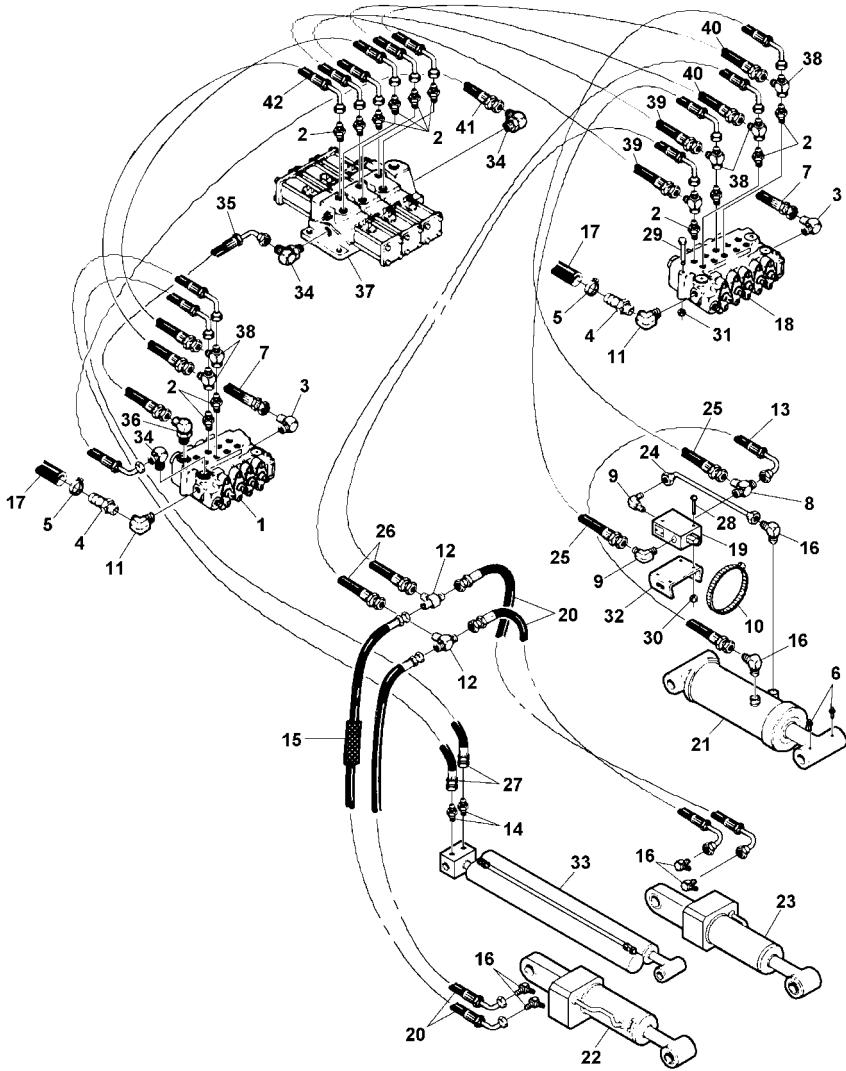
Section VI - PARTS (cont'd)

FORMULA III WHEEL LIFT HYDRAULICS

REF. NO.	NO. REQ.	PART NUMBER	DESCRIPTION
1	1	0300011	VALVE, 4 SPOOL
2	6	0300044	CONNECTOR, 6MJ-8MB
3	2	0300052	ELBOW, 8MJ-10MB90
4	2	0300055	HOSEBARB, 12C4-12MP
5	2	0300071	CLAMP, HOSE 1"
6	2	0300113	GREASE FITTING
7	2	0300165	HOSE ASSEMBLY, 91" H.P.
8	1	0301782	BRANCH TEE, 6MJ-6MJ-4MP
9	2	0300209	ELBOW, 6MJ-6MP90
10	1	0300365	CLAMP, CHECK VALVE RETAINING, 7"
11	2	0301375	ELBOW, STREET, 12MB-12FP90
12	2	0301377	TEE, 6MJ-6MJ-6MJ
13	1	0301473	HOSE ASSEMBLY, 18"
14	2	0301522	CONNECTOR, 6MJ-6MB
15	10	0301580	BLACK HOSE "SKUUFF" JACKET
16	6	0301620	ELBOW, 6MJ-6MB90
17	7 FT.	0301674	RETURN HOSE, 3/4"
18	1	0302179	VALVE, 5 SPOOL
19	1	0301731	HOLDING VALVE, 3000 PSI
20	4	0302881	HOSE ASSEMBLY, 45"
21	1	0303101	LIFT CYLINDER
22	1	0303102	TILT CYLINDER, LEFT
23	1	0303103	TILT CYLINDER, RIGHT
24	1	0303160	TUBE ASSEMBLY, LIFT CYLINDER
25	2	0303169	HOSE ASSEMBLY, 104"
26	2	0303170	HOSE ASSEMBLY, 75"
27	4	0303171	HOSE ASSEMBLY, 111"
28	2	0400090	SCREW, 1/4"-20 X 1-3/4" RDHD
29	2	0400140	SCREW, 3/8"-16 X 4" HEX HD CAP
30	6	0400367	NUT, 1/4"-20 NYLOK HEX
31	6	0400392	NUT, 3/8"-16 NYLOK HEX
32	1	0700238	BRACKET, HOLDING VALVE
33	1	HD130	CYLINDER, BOOM EXTEND

Section VI - PARTS (cont'd)

FORMULA III WHEEL LIFT HYDRAULICS with OPTIONAL HAND HELD REMOTE

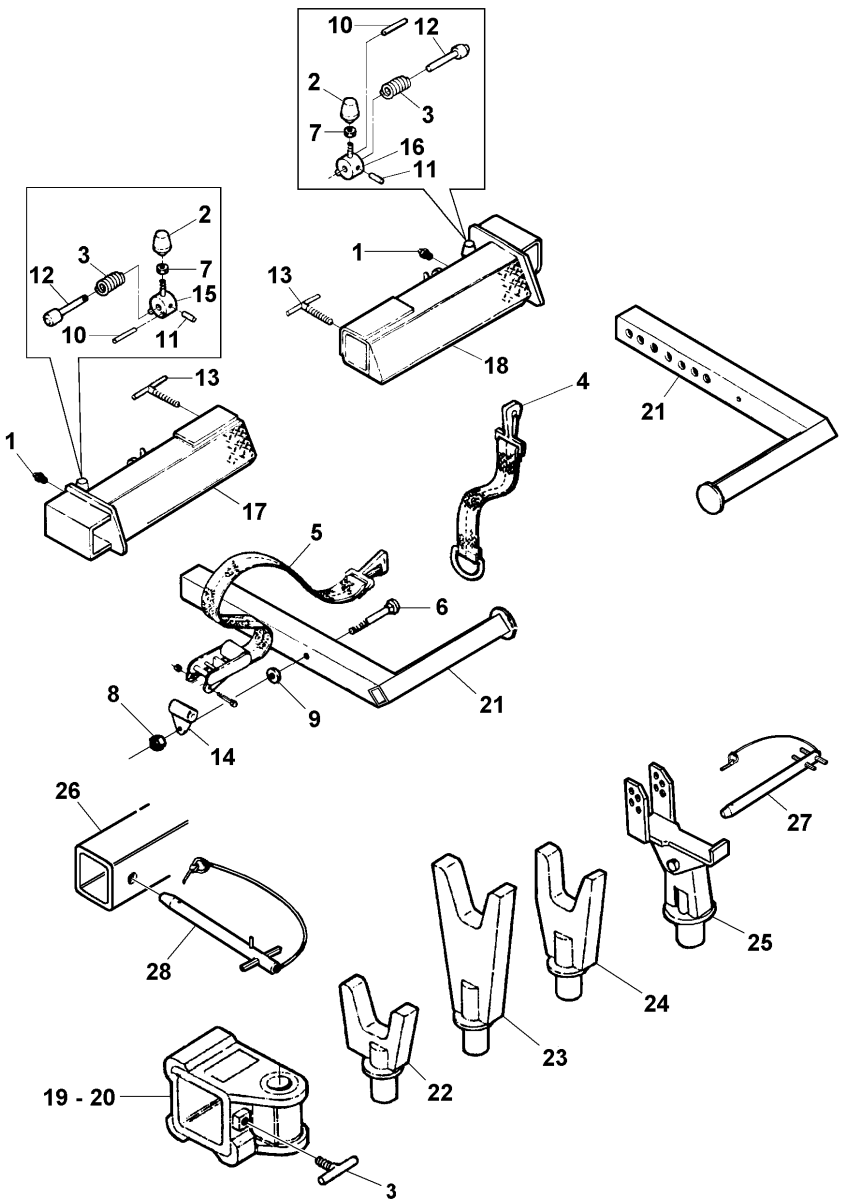


Section VI - PARTS (cont'd)

FORMULA III WHEEL LIFT HYDRAULICS with OPTIONAL HAND HELD REMOTE

REF. NO.	NO. REQ.	PART NUMBER	DESCRIPTION
1	1	0300011	VALVE, 4 SPOOL
2	12	0300044	CONNECTOR, 6MJ-8MB
3	2	0300052	ELBOW, 8MJ-10MB90
4	2	0300055	HOSEBARB, 12C4-12MP
5	2	0300071	CLAMP, HOSE 1"
6	2	0300113	GREASE FITTING
7	2	0300165	HOSE ASSEMBLY, 91" H.P.
8	1	0300206	BRANCH TEE, 6MJ-6MJ-4MP
9	2	0300209	ELBOW, 6MJ-6MP90
10	1	0300365	CLAMP, CHECK VALVE RETAINING, 7"
11	2	0301375	ELBOW, STREET, 12MB-12FP90
12	2	0301377	TEE, 6MJ-6MJ-6MJ
13	1	0301473	HOSE ASSEMBLY, 18"
14	2	0301522	CONNECTOR, 6MJ-6MB
15	10	0301580	BLACK HOSE "SKUFF" JACKET
16	6	0301620	ELBOW, 6MJ-6MB90
17	7 FT.	0301674	3/4" RET. HOSE SAE# 100R4
18	1	0302179	VALVE, 5 SPOOL
19	1	0302476	HOLDING VALVE, 3000 PSI
20	4	0302881	HOSE ASSEMBLY, 45"
21	1	0303101	LIFT CYLINDER
22	1	0303102	TILT CYLINDER, LEFT
23	1	0303103	TILT CYLINDER, RIGHT
24	1	0303160	TUBE ASSEMBLY, LIFT CYLINDER
25	2	0303169	HOSE ASSEMBLY, 104"
26	2	0303170	HOSE ASSEMBLY, 75"
27	4	0303171	HOSE ASSEMBLY, 111"
28	2	0400090	SCREW, 1/4"-20 X 1-3/4" RDHD
29	2	0400140	SCREW, 3/8"-16 X 4 HEX HD CAP
30	6	0400367	NUT, 1/4"-20 NYLOK HEX
31	6	0400392	NUT, 3/8"-16 NYLOK HEX
32	1	0700238	BRACKET, HOLDING VALVE
33	1	HD130	CYLINDER, BOOM EXTEND
34	3	0301388	ELBOW, 8MJ-8MB90
35	1	0301471	HOSE ASSEMBLY, 30"
36	1	0301547	ELBOW, 8MJ-12MB90
37	1	0301883	SOLENOID VALVE
38	6	0301996	SWIVEL TEE, 6MJ
39	2	0302581	HOSE ASSEMBLY, 36"
40	3	0302604	HOSE ASSEMBLY, 44"
41	1	0302610	HOSE ASSEMBLY, 36"
42	1	0302814	HOSE ASSEMBLY, 32"

Section VI - PARTS (cont'd)
FORMULA III OUTER CROSSTUBE
& LIFT ADAPTERS



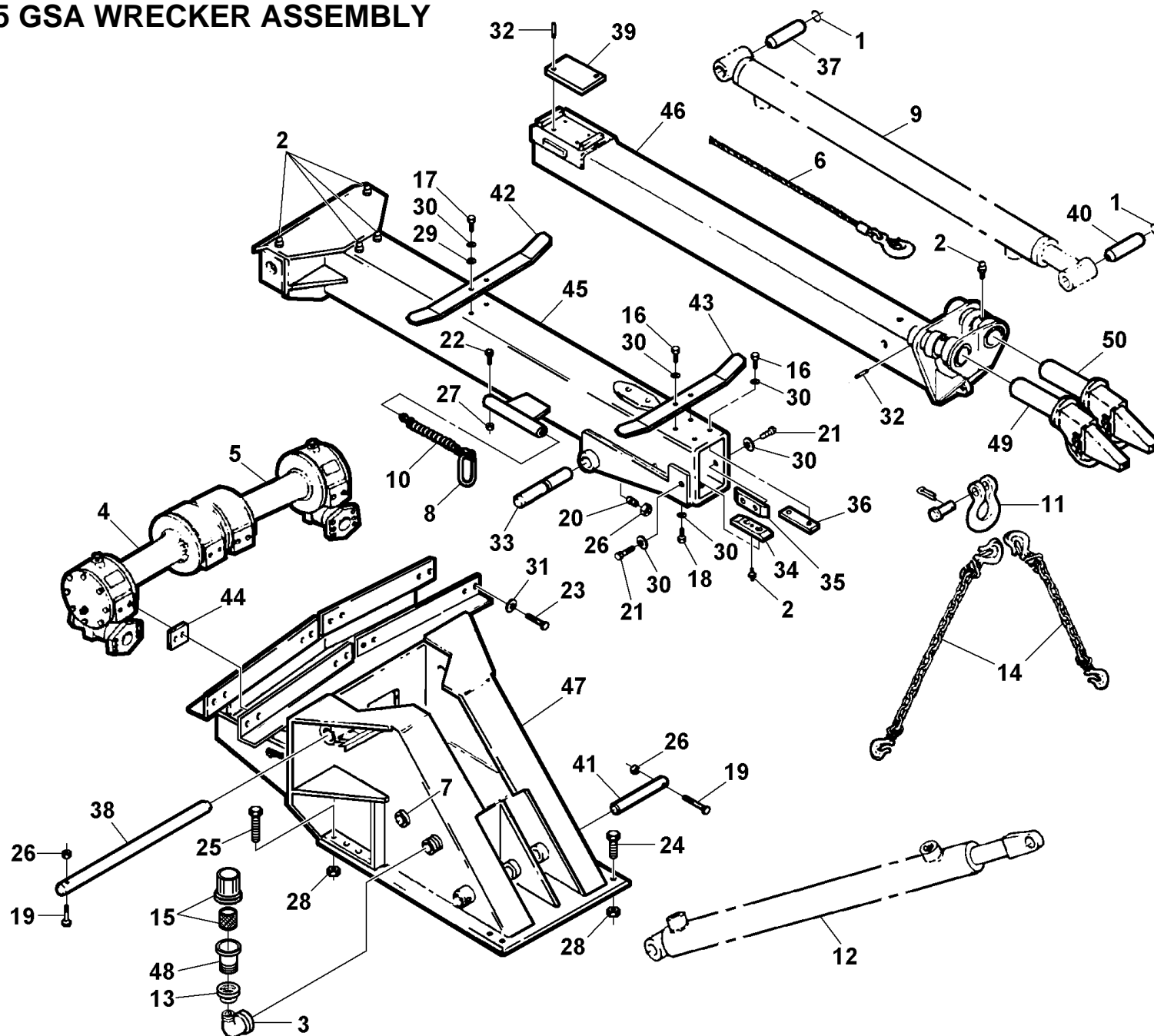
Section VI - PARTS (cont'd)

FORMULA III OUTER CROSSBAR & LIFT ADAPTERS

REF. NO	NO. REQ'D	PART NUMBER	DESCRIPTION
1	2	0300113	GREASE FITTING
2	2	0300341	KNOB, "L" BAR LOCK CONTROL
3	2	0301417	SPRING, PLUNGER PIN
4	2	0301681	EXTENSION, TIRE RESTRAINT
5	2	0301682	TIRE RESTRAINT
6	2	0400269	BOLT, 5/8"-11 X 4-1/2" CARRIAGE
7	2	0400393	NUT, 3/8"-16 HEX JAM
8	2	0400421	NUT, 5/8"-11 HEX NYLOK
9	2	0400506	WASHER, 5/8" FLAT
10	2	0400559	PIN, 3/16" X 1" ROLL
11	2	0400560	PIN, 5/32" X 1" ROLL
12	2	0706688	PIN, PLUNGER
13	4	0800590	HANDLE, "T"
14	2	0800839	BRACKET, RESTRAINT ASSEMBLY PIVOT
15	1	0802069	HANDLE, L.H. PLUNGER PIN
16	1	0802070	HANDLE, R.H. PLUNGER PIN
17	1	0802231	CROSSBAR, LEFT OUTER
18	1	0802232	CROSSBAR, RIGHT OUTER
19	1	0802249	ADAPTER, L.H. LIFT FORK OFFSET
20	1	0802250	ADAPTER, R.H. LIFT FORK OFFSET
21	2	0802606	RESTRAINT, TIRE MEDIUM
22	2	0802804	FORK, SHORT (3" OPENING)
23	2	0802805	FORK, MEDIUM (3" OPENING)
24	2	0802806	FORK, LONG (3" OPENING)
25	2	0802810	SPRING LIFT BRACKET
26	REF.	0802919	CROSSBAR WELDMENT
27	2	0902321	RETAINING PIN, SPRING LIFT BRACKET
28	2	0902378	RETAINING PIN

Section VI - PARTS (cont'd)

925 GSA WRECKER ASSEMBLY



Section VI - PARTS (cont'd)

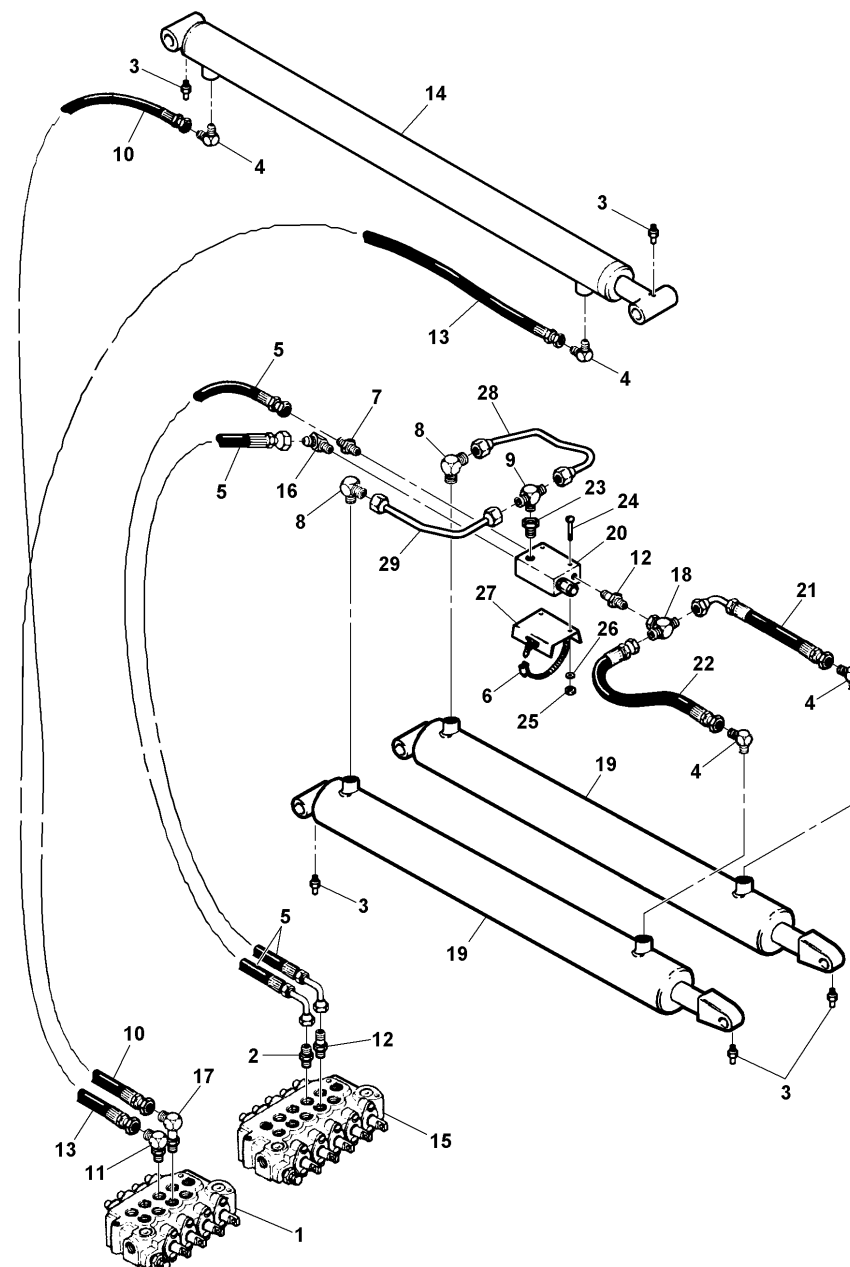
925 GSA WRECKER ASSEMBLY

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	4	0300109	SNAP RING, 1-1/2"
2	7	0300113	GREASE FITTING
3	1	0300627	ELBOW, 90° STREET, 1-1/2" NPT
4	1	0301110	WINCH, RAMSEY, H-800, LEFT
5	1	0301111	WINCH, RAMSEY, H-800, RIGHT
6	2	0301224	WIRE ROPE, 6 X 19 IPS, 5/8" X 200 FT.
7	1	0301541	SIGHT GAGE, TYPE S-1
8	2	0301691	MASTER LINK, OBLONG
9	REF.	0302145	BOOM EXTEND CYLINDER
10	2	0302273	SPRING, WINCH CABLE TIE-BACK
11	1	0302656	ANCHOR SHACKLE, 1-3/8"
12	REF.	0303091	BOOM LIFT CYLINDER
13	1	0303154	BELL REDUCER, 2" NPT-1-1/2" NPT
14	2	0303199	SAFETY CHAIN, 1/2" ALLOY
15	1	0305006	CAP, FILLER BREATHER W/STRAINER
16	4	0400121	SCREW, 3/8"-16 X 3/4" HEX HD CAP
17	2	0400122	SCREW, 3/8"-16 X 1-1/4" HEX HD CAP
18	4	0400126	SCREW, 3/8"-16 X 1" HEX HD CAP
19	3	0400130	SCREW, 3/8"-16 X 3-1/2" HEX HD CAP
20	1	0400139	SCREW, 3/8"-16 X 1-1/2" HEX SKT SET
21	4	0400141	SCREW, 3/8"-16 X 7/8" HEX HD CAP
22	2	0400205	SCREW, 1/2"-13 X 3" HEX HD CAP
23	16	0400283	SCREW, 3/4"-10 X 2" HEX HD CAP
24	8	0400287	SCREW, 3/4"-10 X 3" HEX HD CAP
25	4	0400289	SCREW, 3/4"-10 X 3-1/2" HEX HD CAP

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
26	4	0400392	NUT, 3/8"-16 NYLOK HEX
27	2	0400408	NUT, 1/2"-13 NYLOK HEX
28	12	0400431	NUT, 3/4"-10 NYLOK HEX
29	2	0400480	WASHER, 3/8" FLAT
30	14	0400482	LOCKWASHER, 3/8" HELICAL
31	16	0400511	LOCKWASHER, 3/4" HELICAL
32	10	0400554	ROLL PIN, 3/8" X 1"
33	1	0700772	SHAFT, LIFT CYLINDER, BOOM
34	1	0701593	SLIDE PAD, OUTER BOOM BOTTOM
35	2	0702704	SLIDE PAD, OUTER BOOM SIDE
36	2	0701617	TOP SPACER, OUTER BOOM
37	1	0700780	SHAFT, EXTEND CYLINDER, LOWER
38	1	0700781	SHAFT, BOOM PIVOT
39	2	0700615	SLIDE PAD, INNER BOOM
40	1	0701512	SHAFT, EXTEND CYLINDER, UPPER
41	1	0701514	SHAFT, LIFT CYLINDER, LOWER
42	1	0705103	PLATE, CABLE SUPPORT
43	1	0705104	PLATE, WINCH CABLE SUPPORT
44	4	0706668	SHIM, WINCH MOUNTING
45	1	0800480	OUTER BOOM WELDMENT
46	1	0800483	INNER BOOM WELDMENT
47	1	0801164	WRECKER FRAME, 925
48	1	0802975	FILLER NECK WELDMENT
49	1	0900431	BOOM SWIVEL ASSEMBLY, LEFT
50	1	0900432	BOOM SWIVEL ASSEMBLY, RIGHT

Section VI - PARTS (cont'd)

925 GSA WRECKER BOOM HYDRAULICS



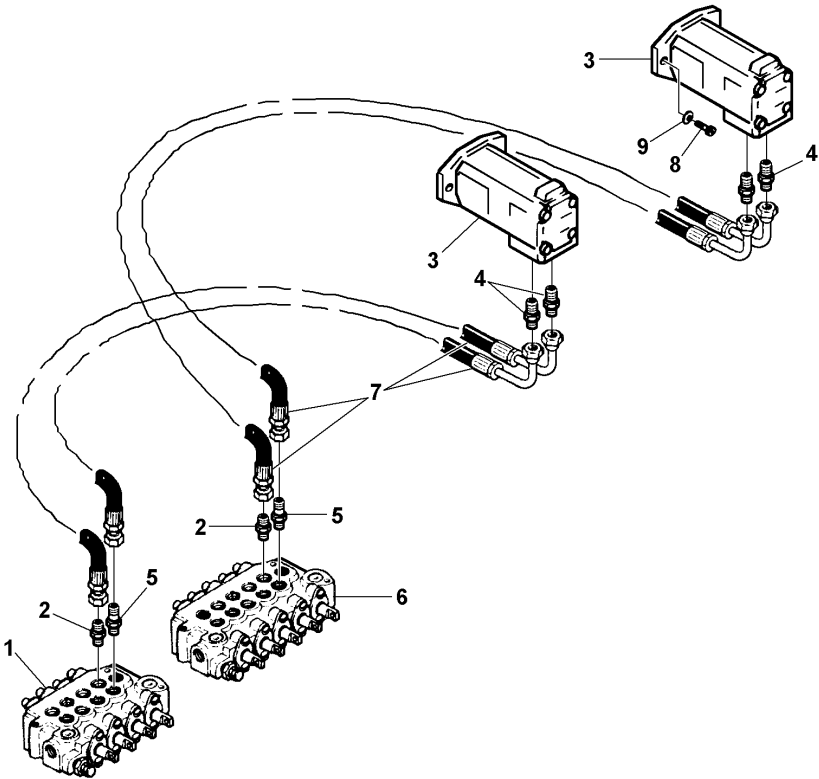
Section VI - PARTS (cont'd)

925 GSA WRECKER BOOM HYDRAULICS

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	REF.	0300011	VALVE, 4 SPOOL
2	1	0300041	CONNECTOR, 8MJ-8MB
3	6	0300113	GREASE FITTING
4	4	0300229	ELBOW, 8MJ-8MP90
5	2	0300657	HOSE ASSEMBLY, ELEV. CYLINDER, LOWER
6	1	0300710	CLAMP, CHK VALVE RETAINING, 6-1/2"
7	1	0300761	STRAIGHT ADAPTER
8	2	0300764	MALE ELBOW
9	1	0300766	MALE BRANCH TEE
10	1	0301113	HOSE ASSEMBLY, EXT. CYLINDER, 82"
11	1	0301388	ELBOW, 8MJ-8MB90
12	2	0301445	CONNECTOR, EXTENDED, 8MJ-8MBL
13	1	0301659	HOSE ASSEMBLY, EXT. CYLINDER, 150"
14	1	0302145	CYLINDER, BOOM EXTENSION
15	REF.	0302179	VALVE, 5 SPOOL
16	1	0302321	ELBOW, 8MJ-8MB45
17	1	0302508	ELBOW, EXTENDED, 8MJ-8MB90LL
18	1	0302796	TEE, 8MJ-8MJ-8FJX
19	2	0303091	CYLINDER, BOOM LIFT
20	1	0303165	HOLDING VALVE
21	1	0303429	HOSE ASSEMBLY, ELEV. CYL., UPPER RIGHT
22	1	0303428	HOSE ASSEMBLY, ELEV. CYL., UPPER LEFT
23	1	0303168	ADAPTER, 8MB-8FP
24	2	0400069	SCREW, 1/4"-20 X 2" RD HD SLOTTED
25	2	0400366	NUT, 1/4"-20 HEX
26	2	0400452	LOCKWASHER, 1/4" HELICAL
27	1	0700238	BRACKET, HOLDING VALVE
28	1	0710437	TUBE, HYD. PIPING, ELEV. CYLINDER
29	1	0710438	TUBE, HYD. PIPING, ELEV. CYLINDER

Section VI - PARTS (cont'd)

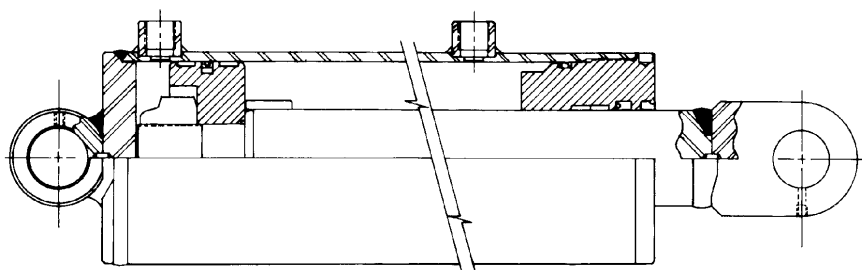
WINCH MOTOR HYDRAULICS



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	REF.	0300011	VALVE, 4 SPOOL
2	2	0300041	CONNECTOR, 8MJ-8MB
3	2	0301112	MOTOR, HYDRAULIC
4	4	0301228	CONNECTOR, 10MJ-16MB
5	2	0301445	CONNECTOR, EXTENDED, 8MJ-8MBL
6	REF.	0302179	VALVE, 5 SPOOL
7	4	0302490	HOSE ASSEMBLY
8	4	0400188	SCREW, 1/2-13 X 2" SKT HD CAP
9	4	0400491	LOCKWASHER, 1/2" HELICAL

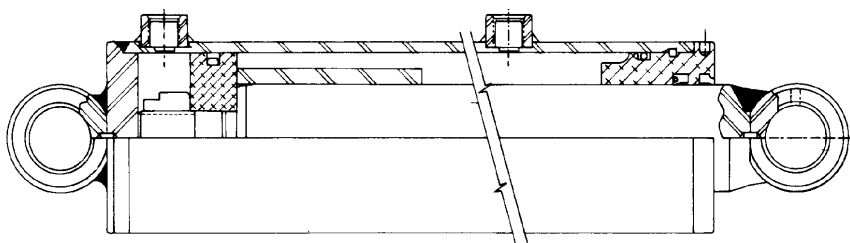
Section VI - PARTS (cont'd)

HYDRAULIC CYLINDERS - WRECKER



BOOM LIFT CYLINDER

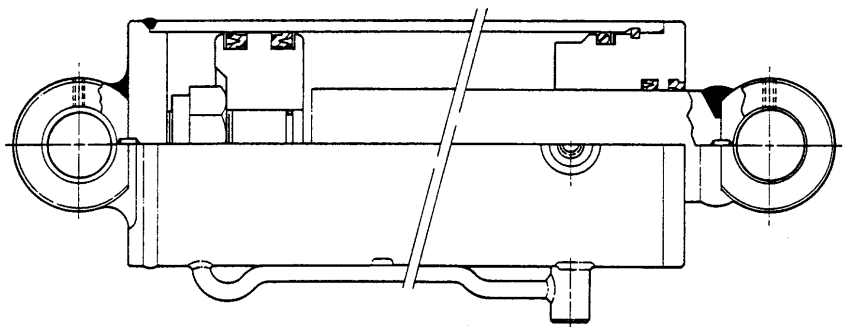
REF. NO.	NO. REQ'D.	PART NUMBER	DESCRIPTION
1	1	0303091	CYLINDER, BOOM LIFT
2	1	--	KIT, BOOM LIFT CYLINDER SEAL



BOOM EXTEND CYLINDER

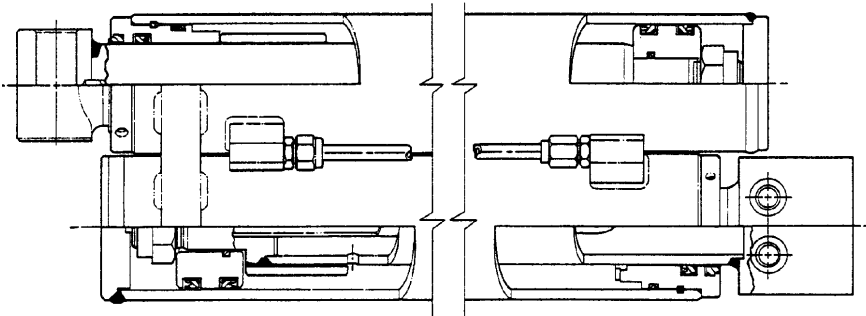
REF. NO.	NO. REQ'D.	PART NUMBER	DESCRIPTION
1	1	0302145	CYLINDER, BOOM EXTEND (COMPLETE)
2	1	--	KIT, BOOM EXTEND CYLINDER SEAL

Section VI - PARTS (cont'd)
HYDRAULIC CYLINDERS - WHEEL LIFT



WHEEL LIFT LIFT CYLINDER

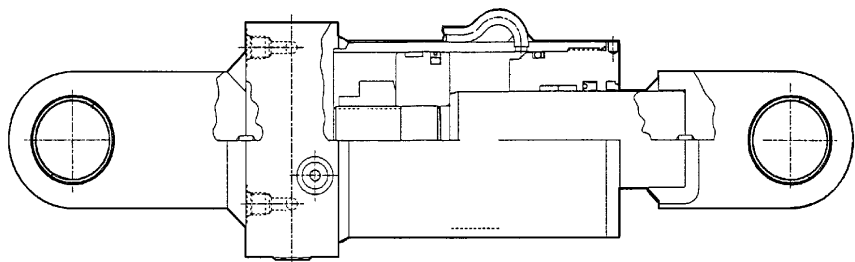
REF. NO.	NO. REQ'D.	PART NUMBER	DESCRIPTION
1	2	0303101	CYLINDER, LIFT (COMPLETE)
2	--	0304499	KIT, WHEEL LIFT LIFT CYLINDER SEAL



WHEEL LIFT EXTEND CYLINDER

REF. NO.	NO. REQ'D.	PART NUMBER	DESCRIPTION
1	1	HD130	CYLINDER, EXTEND (COMPLETE)
2	--	HD163	KIT, WHEEL LIFT LIFT CYLINDER SEAL

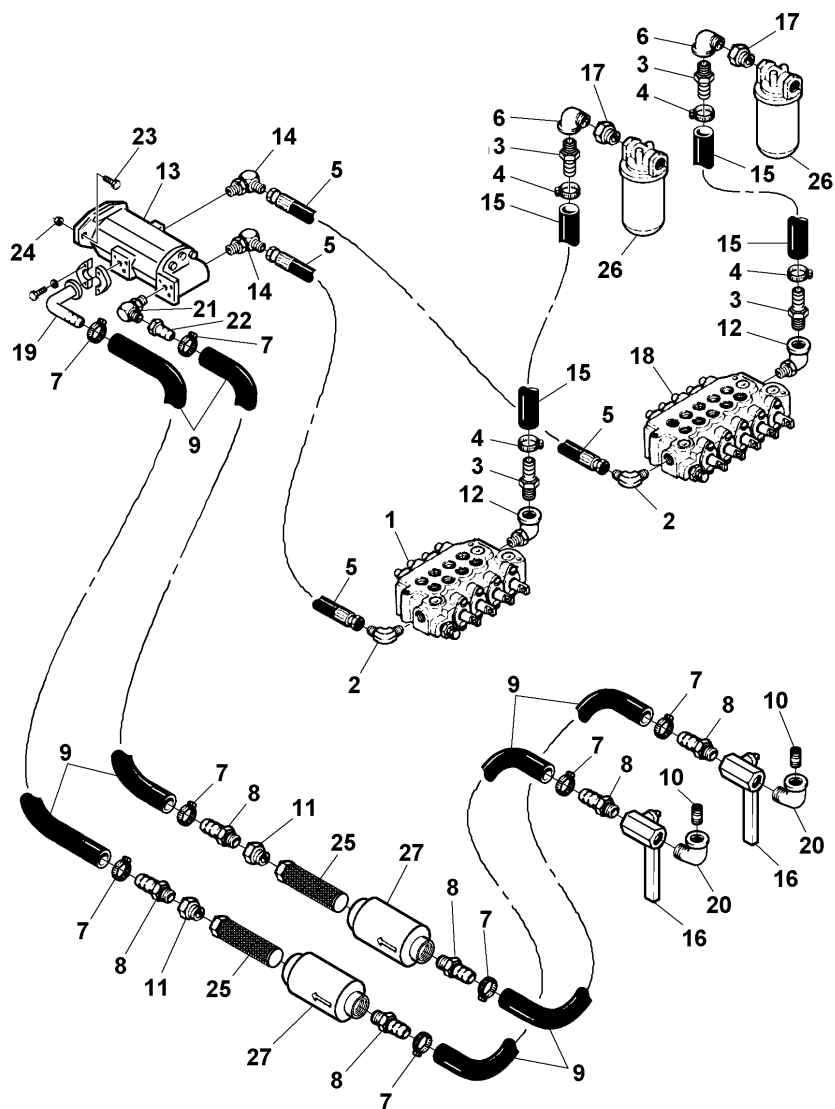
Section VI - PARTS (cont'd)
HYDRAULIC CYLINDERS - WHEEL LIFT



WHEEL LIFT TILT CYLINDER

REF. NO.	NO. REQ'D.	PART NUMBER	DESCRIPTION
1	1	0303102	CYLINDER, TILT, LEFT
	1	0303103	CYLINDER, TILT, RIGHT
2	--	0304500	KIT, BOOM LIFT CYLINDER SEAL

PUMP & FILTER HYDRAULICS

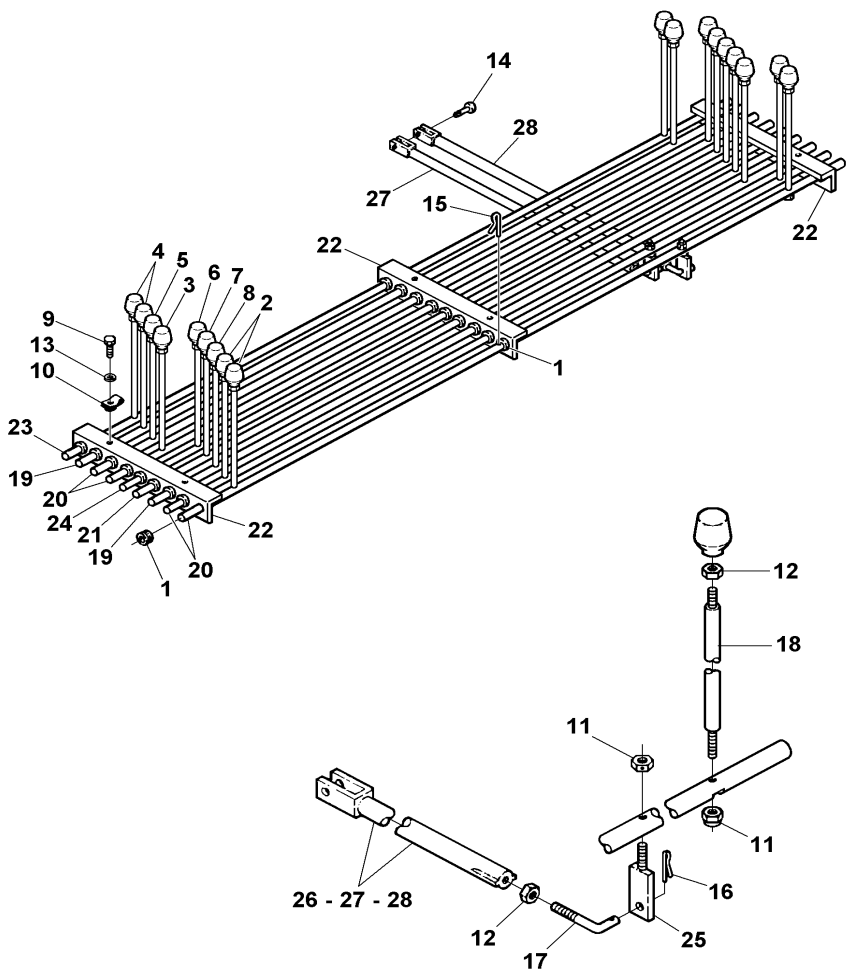


Section VI - PARTS (cont'd)

PUMP & FILTER HYDRAULICS

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	REF.	0300011	VALVE, 4 SPOOL
2	2	0300052	ELBOW, 8MJ-8MB90
3	4	0300055	HOSE BARB, 12C4-12MP
4	4	0300071	CLAMP, HOSE, 1"
5	2	0300165	HOSE ASSEMBLY, HI PRESSURE
6	2	0300288	STREET ELBOW, 90 DEG., 1"
7	8	0300364	CLAMP, HOSE, 1" - 2-1/4"
8	6	0300666	HOSE BARB, 24C4-24MP
9	20 FT.	0300671	SUCTION HOSE, 1-1/2"
10	2	0300891	PIPE NIPPLE, 1-1/2 X 3"
11	2	0301373	PIPE BUSHING, 2" NPT - 1-1/2" NPT
12	2	0301375	STREET ELBOW, 12MB-12FP90
13	1	0301507	PUMP, OPP. ENGINE ROTATION
	--	0301523	PUMP, ENGINE ROTATION
14	2	0301547	ELBOW, 8MJ-12MB90
15	10 FT.	0301674	HOSE, 3/4" RETURN
16	2	0302088	VALVE, BALL, BRONZE
17	2	0302113	REDUCER BUSHING 1"-3/4"
18	REF.	0302179	VALVE, 5 SPOOL
19	1	0302242	FLANGE FITTING
20	2	0302983	ELBOW, STREET 45°, 1-1/2"
21	1	0303032	ELBOW, 24MJ-20MB90
22	1	0303033	HOSE BARB, 24C4-24FJX
23	2	0400188	SCREW, 1/2"-13 X 2" HEX HD CAP
24	2	0400408	NUT, 1/2"-13 HEX NYLOK
25	2	5823017	TANK MTD. STRAINER
26	2	5823076	FILTER ASSEMBLY
27	2	5828022	STRAINER HOUSING WELDMENT

Section VI - PARTS (cont'd)
CONTROLS & CROSSRODS

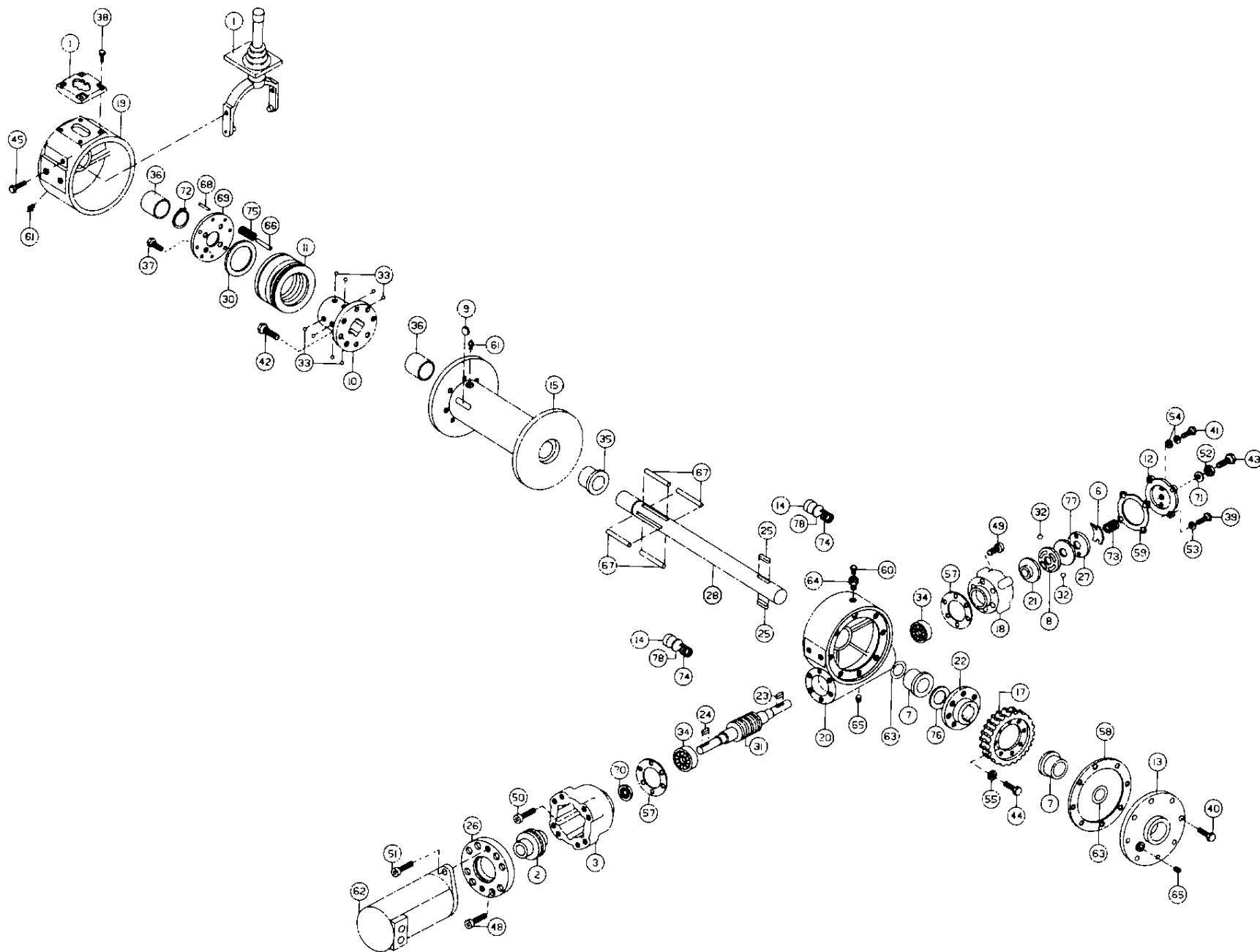


Section VI - PARTS (cont'd)

CONTROLS & CROSSRODS

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	27	0300122	GROMMET, SPLIT PLASTIC
2	4	0300834	KNOB, WINCH CABLE IN-OUT
3	2	0300835	KNOB, BOOM UP-DOWN
4	4	0300836	KNOB, JACK UP-DOWN
5	2	0300837	KNOB, BOOM EXTEND IN-OUT
6	2	0302856	KNOB, WHEEL LIFT TILT UP-DOWN
7	2	0302917	KNOB, WHEEL LIFT EXTEND IN-OUT
8	2	0302967	KNOB, WHEEL LIFT LIFT UP-DOWN
9	6	0400066	SCREW, 1/4"-20 X 3/4" HEX HD CAP
10	6	0400370	CLIP, 1/4" "U" TYPE TINNERMAN
11	27	0400390	NUT, 3/8"-16 HEX ESLOK JAM
12	27	0400393	NUT, 3/8"-16 HEX JAM
13	6	0400452	LOCKWASHER, 1/4" HELICAL
14	9	0400527	PIN, 5/16" X 5/8" CLEVIS COTTERLESS
15	18	0400542	PIN, 3/16" X 1-1/4" COTTER
16	9	0400543	PIN, 1/8" X 3/4" COTTER
17	9	0701099	EXTENSION, CONTROL ROD
18	18	0704527	CONTROL LEVER
19	2	0704528	CROSS ROD, WHEEL LIFT
20	4	0704529	CROSS ROD, WRECKER
21	1	0704530	CROSS ROD, WHEEL LIFT
22	3	0705496	ANGLE, CONTROL ROD BEARING
23	1	0705498	CROSS ROD, CONTROL
24	1	0710204	CROSS ROD, TILT
25	9	0800604	ARM, CROSS CONTROL
26	3	0802023	SHIFTER ROD, SHORT
27	3	0802024	SHIFTER ROD, MEDIUM
28	3	0802025	SHIFTER ROD, LONG

Section VI - PARTS (cont'd) **WINCH ASSEMBLY**



Section VI - PARTS (cont'd)

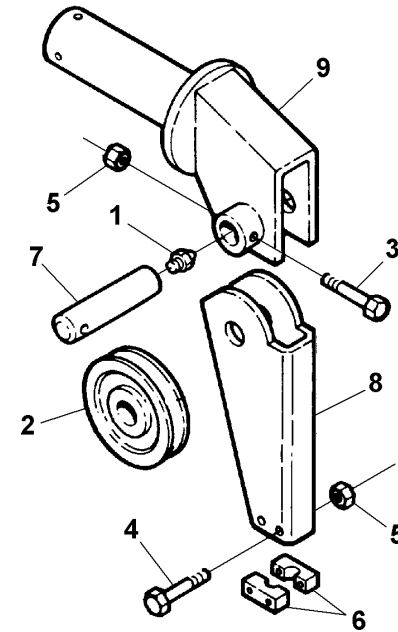
WINCH ASSEMBLY

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	1	276033	SHIFTER ASSEMBLY
2	1	299047	COUPLING, ASSEMBLY
3	1	300048	ADAPTER
6	1	306035	SPRING, FLAT
7	2	308083	BUSHING
8	1	314007	CAM PLATE
9	1	314010	CABLE ANCHOR
10	1	324151	CLUTCH
11	1	324318	LOCKING RING
12	1	328027	COVER, BRAKE
13	1	328122	COVER, GEAR HOUSING
14	2	330010	SHOE, DRAG BRAKE
15	1	332120	DRUM, H-800
17	1	334086	GEAR, R.H.
18	1	338221	HOUSING, BRAKE
19	1	338235	HOUSING, CLUTCH
20	1	338242	HOUSING, GEAR
21	1	340011	HUB, BRAKE
22	1	340068	HUB, GEAR
23	1	342053	KEY
24	1	342092	KEY
25	2	342153	KEY
26	1	350535	PLATE, HYDRAULIC ADAPTER
27	1	352021	PLATE, RETAINER
28	1	357433	SHAFT, DRUM, H-800
30	1	362224	SPACER
31	1	368082	WORM, R.H.
32	2	400007	BALL, BRAKE
33	8	400011	BALL, CLUTCH
34	2	402045	BEARING, BALL
35	1	412051	BUSHING
36	2	412052	BUSHING
37	4	414038	CAPSCREW, 1/4-20 X 3/4 HX.HD.
38	4	414069	CAPSCREW, 5/16-18 X 3/4 HX.HD.
39	4	414111	CAPSCREW, 5/16-18 X 1 HX.HD.
40	8	414277	CAPSCREW, 3/8-16 X 1 HX.HD. NYLOK
41	2	414399	CAPSCREW, 3/8-24 X 1-1/4 HX.HD. ALL-THD NYLOK

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
42	8	414571	CAPSCREW, 1/2-20 X 1 HX.HD.
43	1	414603	CAPSCREW, 1/2-20 X 1-3/4 HX.HD. ALL-THD
44	8	414606	CAPSCREW, 1/2-20 X 2 HX.HD.
45	2	414619	CAPSCREW, 1/2-20 X 2-1/2 HX.HD. ALL-THD
48	8	414871	CAPSCREW, 5/16-18 X 1-1/4 SOC.HD. LOK-WEL
49	6	414897	CAPSCREW, 3/8-16 X 1 SOC.HD.
50	6	414909	CAPSCREW, 3/8-16 X 1-1/2 SOC.HD. LOK-WEL
51	2	414950	CAPSCREW, 1/2-13 X 1-3/4 SOC.HD. LOK-WEL
52	1	418067	NUT, 1/2-20 HX.JAM
53	4	418163	LOCKWASHER, 5/16 MED.SECT. C.P.
54	4	418184	WASHER, 3/8 FLAT ALUM.
55	8	418217	LOCKWASHER, 1/2 MED.SECT.
57	2	442192	GASKET
58	1	442194	GASKET
59	1	442195	GASKET
60	1	456008	FITTING, RELIEF
61	2	456031	FITTING, LUBE
62	1	458048	MOTOR, HYDRAULIC
63	2	462013	QUAD, RING
64	1	468002	REDUCER
65	2	468011	PIPE PLUG
66	4	470042	PIN, ROLL
67	4	470044	PIN, DOWEL
68	4	470056	PIN, ROLL
69	1	474030	PLATE, RETAINER
70	1	486068	SEAL, OIL
71	1	486076	THREAD SEAL
72	1	490025	RING, RETAINER
73	1	494010	SPRING
74	2	494022	SPRING, DISC
75	4	494069	SPRING
76	1	518016	THRUST WASHER
77	1	530007	DISC, BRAKE
78	2	530094	SPACER, BRAKE

Section VI - PARTS (cont'd)

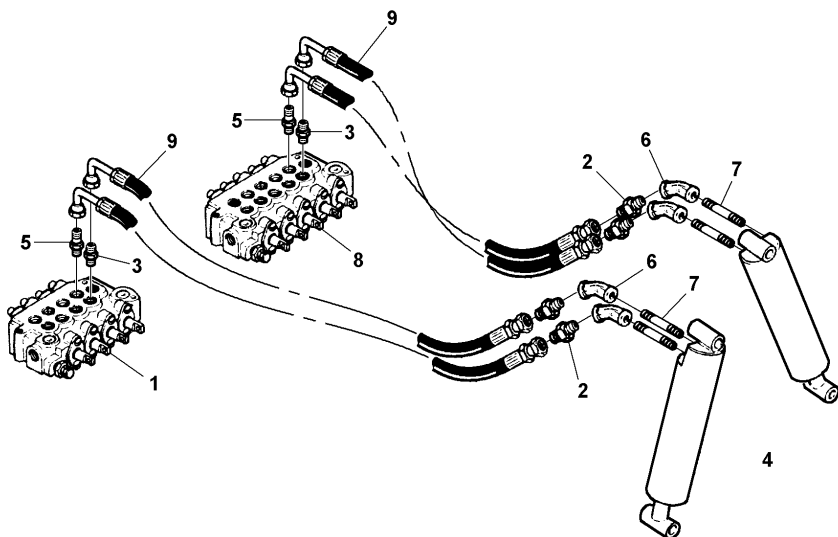
BOOM END SWIVEL ASSEMBLY (2 Req'd)



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
--	1	0900431	BOOM SWIVEL ASSEMBLY, LEFT (COMPLETE)
--	1	0900432	BOOM SWIVEL ASSEMBLY, RIGHT (COMPLETE)
1	1	0300113	GREASE FITTING
2	1	0300626	SHEAVE, 8" DIA X 1-1/2" RIM
3	1	0400133	SCREW, 3/8"-16 X 3" HEX HD CAP
4	2	0400150	SCREW, 3/8"-16 X 2-1/2" HEX HD CAP
5	3	0400392	NUT, 3/8"-16 NYLOK HEX
6	2	0700801	CABLE GUIDE, BOTTOM
7	1	0700888	SHAFT, SHEAVE
8	1	0800286	CABLE GUIDE WELDMENT
9	1	0800509	SWIVEL WELDMENT, LEFT
	1	0800510	SWIVEL WELDMENT, RIGHT

Section VI - PARTS (cont'd)

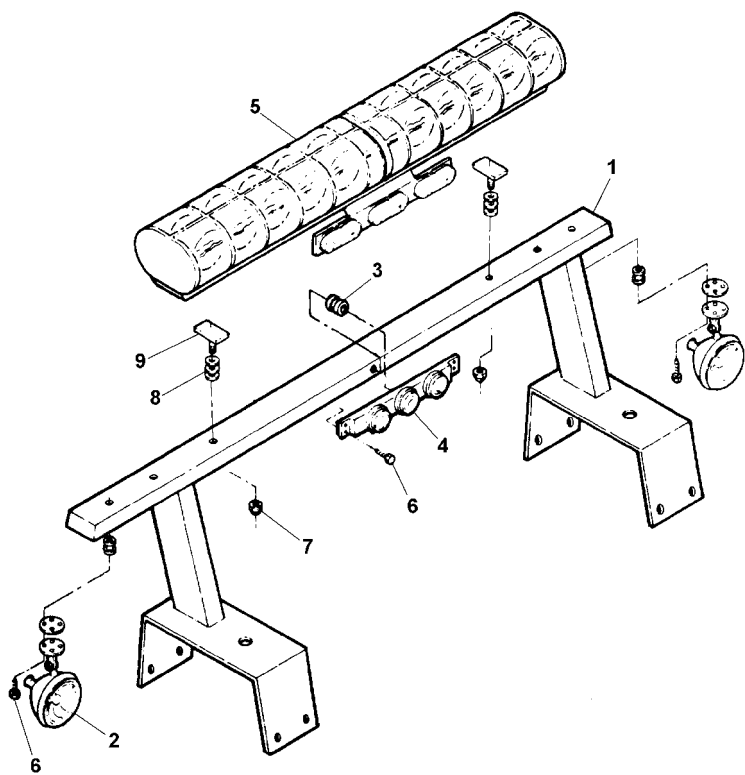
REAR JACK HYDRAULICS



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	REF.	0300011	VALVE, 4 SPOOL
2	4	0300040	CONNECTOR, 8MJ-8MP
3	2	0300041	CONNECTOR, 8MJ-8MB
4	2	0300680	JACK CYLINDER
5	2	0301445	CONNECTOR, EXTENDED, 8MJ-8MBL
6	2	0301816	FITTING, 45°
7	4	0302032	NIPPLE, BLACK PIPE, 1/2" X 6"
8	REF.	0302179	VALVE, 5 SPOOL
9	4	0302473	HOSE ASSEMBLY

Section VI - PARTS (cont'd)

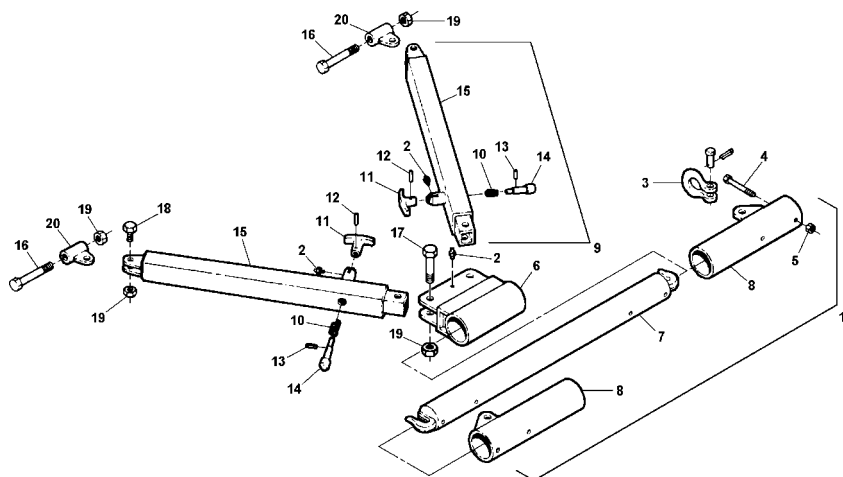
LIGHTBAR ASSEMBLY



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	--	124001246	925 LIGHT BAR KIT
	2	0702376	PLATE, SPOTLIGHT MOUNTING
	1	0702381	CROSS CHANNEL
	1	0800768	LEFT SUPPORT TUBE
	1	0800769	RIGHT SUPPORT TUBE
2	2	0300095	SPOTLIGHT W/GASKET
3	3	0300117	GROMMET, RUBBER
4	1	0300442	LIGHT, 3-BAR
5	1	0301359	LIGHT, WRECKER SPECIAL
6	12	0400027	SCREW, #8-32 X 5/8" SELF TAPPING
7	2	0400408	NUT, 1/2"-13 HEX NYLOK
8	6	0400480	WASHER, 1/2" FLAT
9	2	0800539	ADAPTER, "T" BOLT

Section VI - PARTS (cont'd)

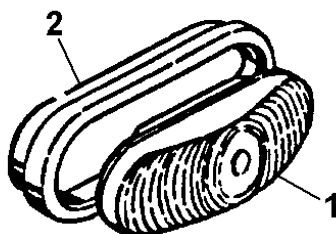
HEAVY DUTY TRUCK HITCH



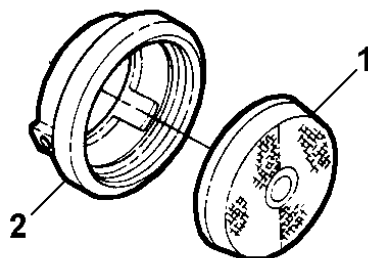
REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
--	--	124001041	ASSEMBLY, HEAVY DUTY TRUCK HITCH
--	2	0301205	CHAIN ASSEMBLY (NOT ILLUSTRATED)
1	1	0900100	ASSEMBLY, ANCHOR BAR (INCLUDES ITEMS 2 THRU 8)
2	3	0300113	GREASE FITTING
3	2	0300335	SHACKLE
4	4	0400190	SCREW, 1/2"-13 X 6-1/2" HEX HEAD CAP
5	4	0400408	NUT, 1/2"-13 NYLOK HEX
6	1	0800181	SWIVEL WELDMENT
7	1	0800182	ANCHOR BAR WELDMENT
8	2	0800409	LIFTER SLEEVE WELDMENT
9	2	0900187	SPACER BAR ASSEMBLY (INCLUDES ITEMS 2 & 10 THRU 15)
10	2	0300004	SPRING, PLUNGER
11	2	0300331	HANDLE, TEE
12	2	0400561	ROLL PIN, 5/32" X 3/4"
13	2	0400563	ROLL PIN, 3/16" X 1-3/4"
14	2	0700526	PIN, PLUNGER
15	2	0800343	SPACER BAR WELDMENT
16	2	0400324	SCREW, 1"-8 X 7-1/2" HEX HEAD CAP
17	2	0400331	SCREW, 1"-8 X 5-1/2" HEX HEAD CAP
18	6	0400332	SCREW, 1"-8 X 3-1/2" HEX HEAD CAP
19	2	0400444	NUT, 1"-8 HEX NYLOK
20	2	0800171	TRUNNION WELDMENT

Section VI - PARTS (cont'd)

LIGHT KIT



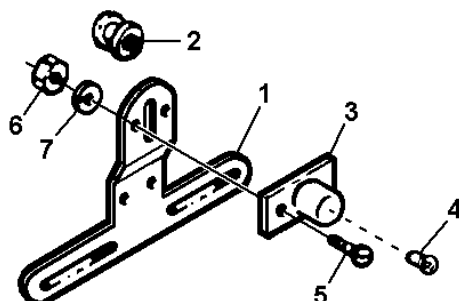
REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	2	0303123	LIGHT, SEALED RED, STOP & TURN
	2	0303177	LIGHT, SEALED AMBER, TURN
	2	0303124	LIGHT, SEALED CLEAR, BACKUP
2	6	0303128	TAIL LIGHT GROMMET



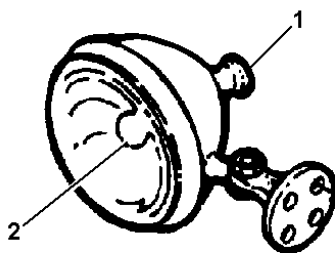
REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	4	0303125	LIGHT, SEALED MARKER, RED
	2	0303126	LIGHT, SEALED MARKER, AMBER
2	6	0303127	MARKER GROMMET

Section VI - PARTS (cont'd)

LIGHT KIT

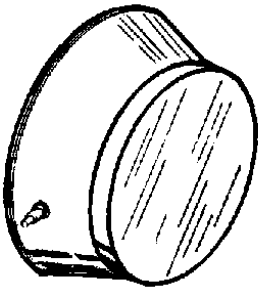


REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	1	0300076	LICENSE PLATE BRACKET
2	1	0300117	GROMMET, RUBBER
3	1	0300273	LICENSE PLATE ILLUMINATOR
4	2	0300512	BULB, LICENSE PLATE ILLUMINATOR
5	2	0400061	SCREW, 1/4"-20 X 3/4" PAN HD SLOTTED
6	2	0400366	NUT, 1/4"-20 HEX
7	2	0400452	LOCKWASHER, 1/4" HELICAL



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	2	0300095	SPOTLIGHT (COMPLETE)
2	2	0300700	BULB, SPOTLIGHT

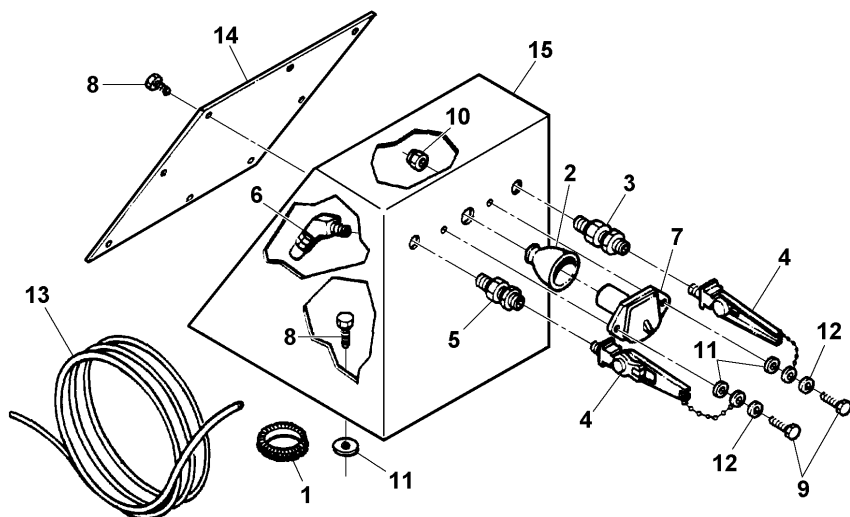
Section VI - PARTS (cont'd)
LIGHT KIT



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
- -	4	0302544	DOMELIGHT, M390S (COMPLETE)

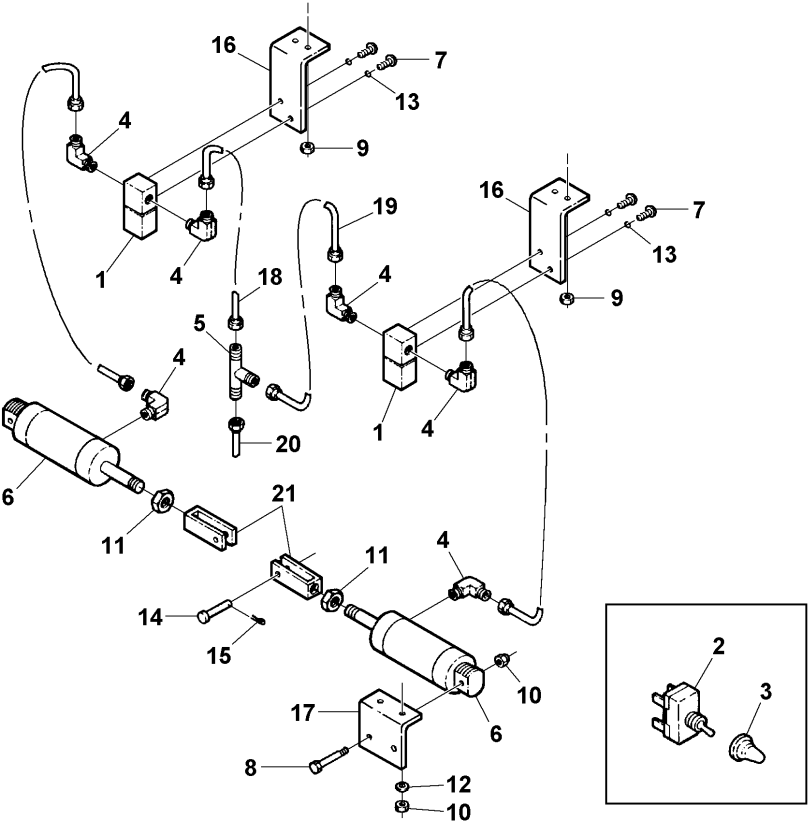
Section VI - PARTS (cont'd)

GLAD HAND ASSEMBLY



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	1	0301862	CATERPILLER GROMMET
2	1	0301909	RECEPTACLE BOOT
3	2	0301944	GLAD HAND COUPLING
4	2	0301945	GLAD HAND PLUG
5	2	0301946	CONNECTOR
6	2	0301947	ADAPTER, 1/4" NPTM X 3/8" SYN. HOSE
7	1	0301948	HD 7-WAY TRAILER CONNECTOR
8	9	0400062	SCREW, 1/4"-20 X 3/4" HEX HD SELF-TAP.
9	2	0400070	SCREW, 1/4"-20 X 1" HEX HEAD CAP
10	2	0400367	NUT, 1/4"-20 NYLOK HEX
11	4	0400451	FLATWASHER, 1/4"
12	2	0400463	FLATWASHER, 5/16"
13	2	0703795	HOSE, 3/8" X 4" SYNTHETIC
14	1	0703797	LID, GLAD HAND HOUSING
15	1	0801099	GLAD HAND HOUSING

Section VI - PARTS (cont'd)
AIR OPERATED FREE SPOOL CLUTCH



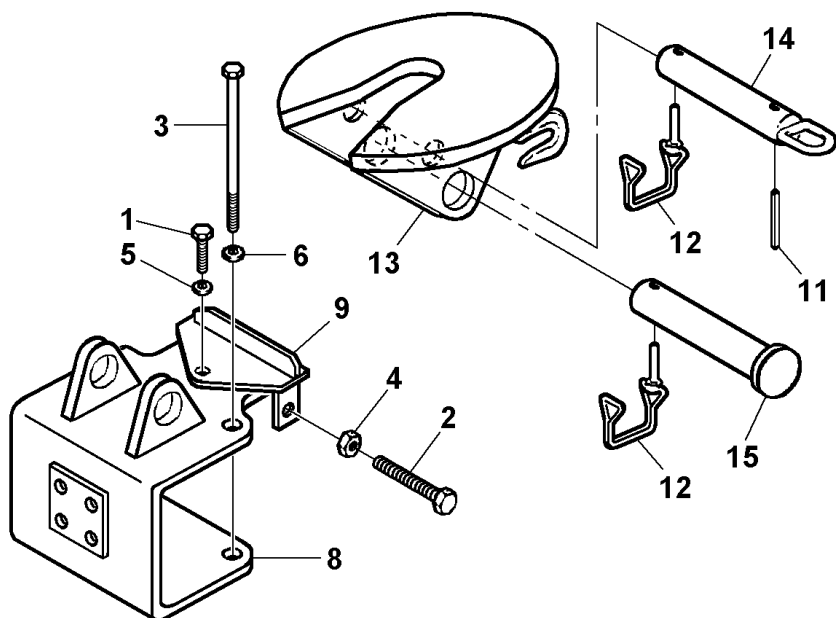
Section VI - PARTS (cont'd)

AIR OPERATED FREE SPOOL CLUTCH

REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	2	0300324	SOLENOID VALVE
2	4	0300602	TOGGLE SWITCH
3	4	0301454	SWITCH BOOT
4	5	0301574	ELBOW
5	1	0301575	TEE
6	2	0302055	AIR CYLINDER
7	4	0400041	SCREW, #10-32 X 3/8" PAN HD
8	2	0400131	SCREW, 3/8"-16 X 1-3/4" HEX HD CAP
9	4	0400367	NUT, 1/4"-20 LOCK
10	6	0400392	NUT, 3/8"-16 LOCK
11	2	0400412	NUT, 1/2"-20 HEX JAM
12	4	0400480	FLAT WASHER, 3/8"
13	4	0400520	LOCKWASHER, #10
14	2	0400530	CLEVIS PIN, 5/16" X 1-1/4"
15	2	0400543	COTTER PIN, 1/8" X 3/4"
16	2	0701078	BRACKET
17	2	0702382	MOUNTING ANGLE
18	3	0702397	AIR LINE (12")
19	1	0702398	AIR LINE (24")
20	1	0702399	AIR LINE (144")
21	2	0800772	ADJUSTING YOKE

Section VI - PARTS (cont'd)

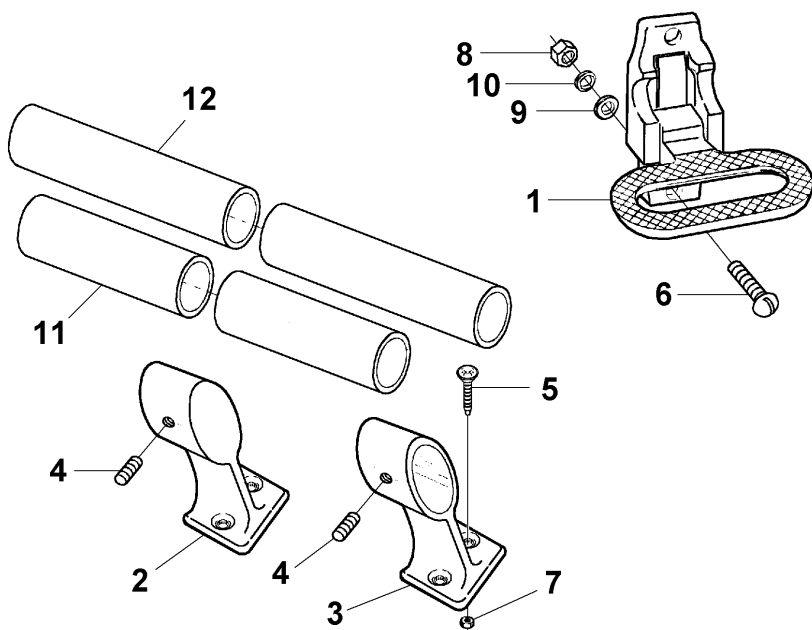
KING PIN ASSEMBLY



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	1	0400188	SCREW, 1/2"-13 X 2" HEX HD CAP
2	2	0400282	SCREW, 3/4"-10 X 2-3/4" HEX HD CAP
3	2	0400316	SCREW, 7/8"-9 X 8" HEX HD CAP
4	2	0400440	NUT, 3/4"-10 HEX JAM
5	1	0400491	LOCKWASHER, 1/2" HELICAL
6	2	0400515	LOCKWASHER, 7/8" HELICAL
7	1	0706623	ADAPTER, TRAILER KING PIN (NOT SHOWN)
8	1	0802961	BRACKET WELDMENT
9	1	0802962	LOCK PLATE WELDMENT
--	1	0902782	FIFTH WHEEL ADAPTER (COMPLETE)
10	1	0400303	SCREW, 7/8"-9 X 2-1/2" HEX HD CAP
11	1	0400555	ROLL PIN, 3/8" X 1-1/2"
12	2	HD1259	PIN, SNAPPER
13	1	VA0660	5TH WHEEL PIVOT PLATE WELDMENT
14	1	VA0661	PULL PIN WELDMENT
15	1	VA0662	PIVOT PIN WELDMENT

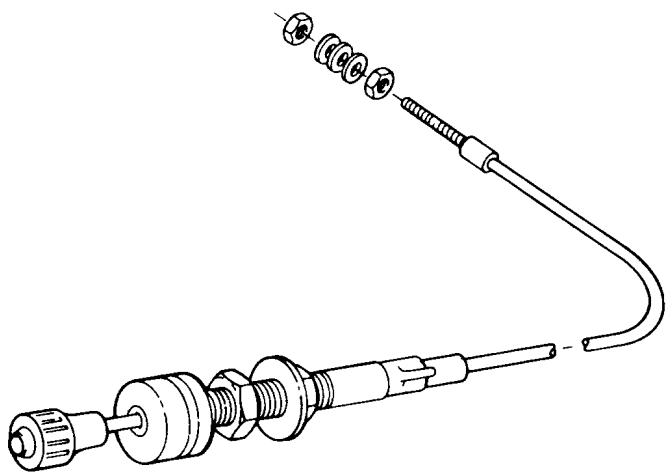
Section VI - PARTS (cont'd)

CONVENIENCE GROUP



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	4	0300097	FOLDING STEP, B2797 STAINLESS STEEL
2	8	0300188	STANCHION, AFT, WITH SETSCREW
3	10	0300496	STANCHION, CENTER, WITH SETSCREW
4	18	0400026	SCREW, #8-32 X 1/4" HDLESS ALLEN SET
5	36	0400043	SCREW, #10-24 X 1" OVAL HD PHILLIPS
6	8	0400101	SCREW, 5/16"-18 X 1" RD HD MCH SLOTTED
7	36	0400358	NUT, #10-24 HEX LOCK
8	8	0400381	NUT, 5/16"-18 HEX
9	8	0400463	WASHER, 5/16" FLAT
10	8	0400464	LOCKWASHER, 5/16" HELICAL
11	2	5827051	GRAB RAIL, 48"
12	2	7207018	GRAB RAIL, 114"

Section VI - PARTS (cont'd)
VERNIER THROTTLE CONTROL CABLE



REF. NO.	NO. REQ'D	PART NUMBER	DESCRIPTION
1	1	0300182	STOP COLLAR #516 (HD1255)
2	1	0300722	THROTTLE CONTROL CABLE, 30'

Section VII - ELECTRICAL SCHEMATICS

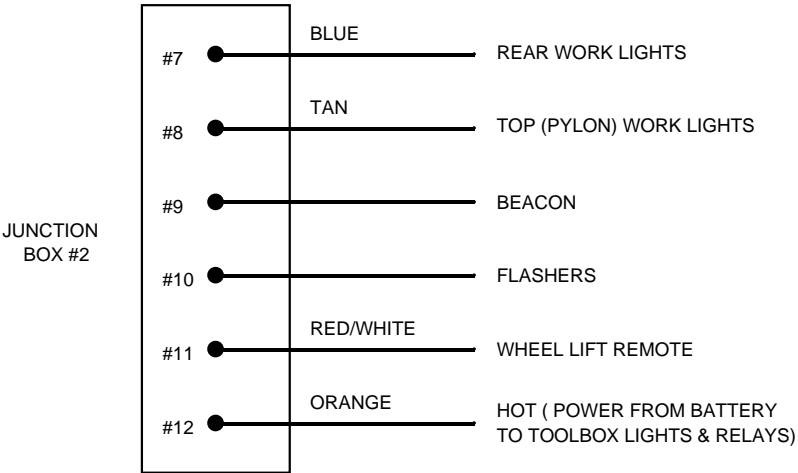
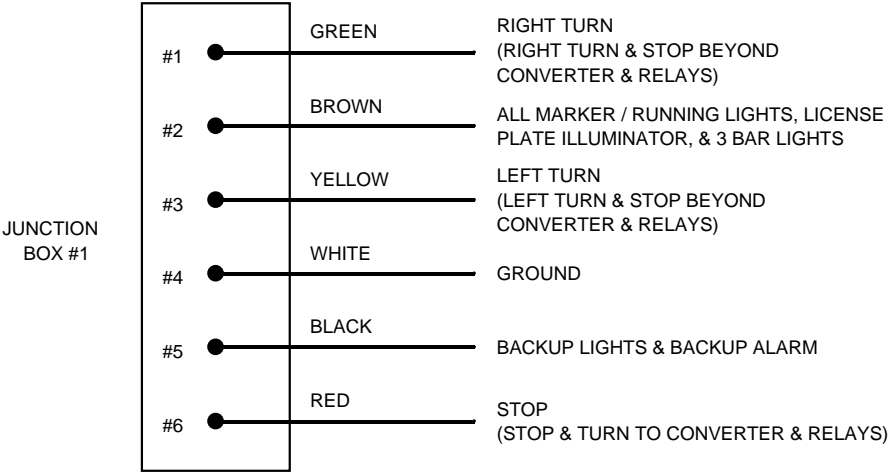
WRECKER BODY

WIRING COLOR CODE MASTER

RED -	STOP
YELLOW	- LEFT TURN (LEFT STOP & TURN BEYOND CONVE
GREEN	- RIGHT TURN (RIGHT STOP & TURN BEYOND CONVE
BROWN	- MARKER/RUNNING
WHITE	- GROUND
BLACK	- BACK UP
ORANGE	- HOT (TOOLBOX LIGHTS & RELAYS)
BLUE	- REAR WORK LIGHTS
TAN -	PYLON WORK LIGHTS
	- BEACON
	- FLASHERS
RED/BLACK	- POWER TO FREEWHEEL SWITCHES & CONTROL STATION LIGHTS
RED/WHITE	- POWER TO WHEEL LIFT REMOTE
PURPLE	- LEFT FREEWHEEL
PURPLE/BLACK	- RIGHT FREEWHEEL
PINK -	WHEEL LIFT OUT
GREEN/BLACK	- WHEEL LIFT IN
WHITE/BLACK	- WHEEL LIFT DOWN
BLACK/WHITE	- WHEEL LIFT UP

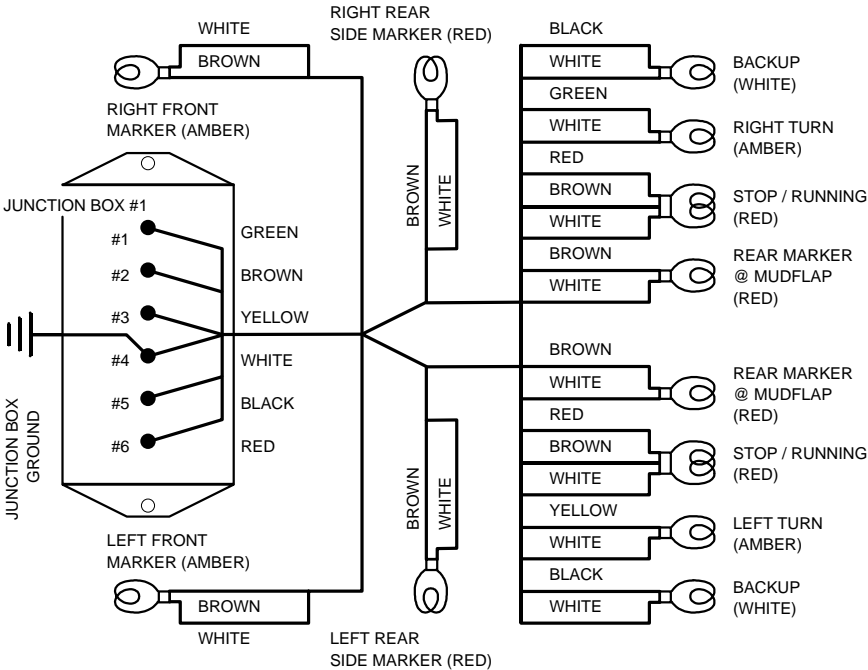
Section VII - ELECTRICAL SCHEMATICS

JUNCTION BOX POLE ORIENTATION



Section VII - ELECTRICAL SCHEMATICS

WRECKER BODY LIGHTING



WIRING COLOR CODE		
1	GREEN	RIGHT TURN
2	BROWN	MARKER / RUNNING
3	YELLOW	LEFT TURN
4	WHITE	GROUND
5	BLACK	BACKUP
6	RED	STOP

NOTE:

WRECKER BODY HARNESS (FOR CHASSIS LIGHTS) IS SEALED SYSTEM.

GROUND ARE INTERNAL (WHITE WIRES).

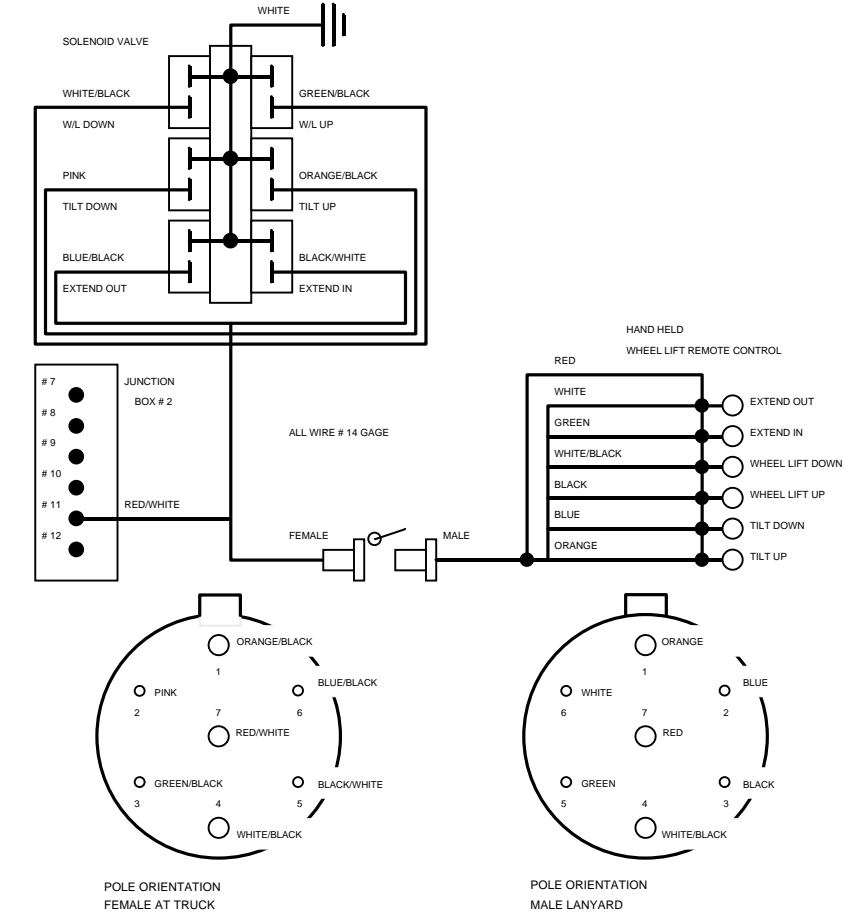
ALL CHASSIS LIGHTS ARE SEALED, WITH WATER RESISTANT CONNECTIONS, AND HOUSED IN SHOCK RESISTANT GROMMETS.

BROWN, WHITE, AND BLACK WIRES ARE #12 GAGE TO WHERE THEY SPLIT, THEN #14 GAGE BEYOND.

GREEN, YELLOW, AND RED WIRES ARE #14 GAGE.

Section VII - ELECTRICAL SCHEMATICS

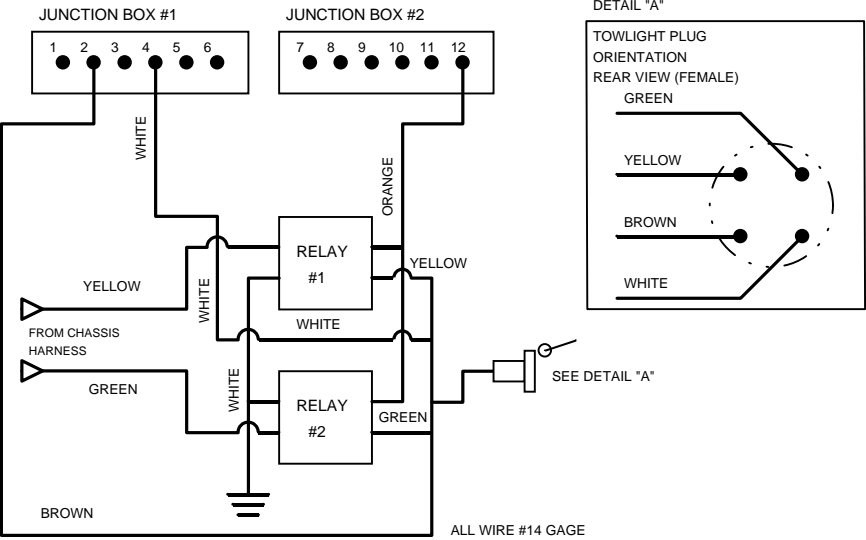
WHEEL LIFT REMOTE



COLOR CODE FOR WHEEL LIFT REMOTE		
FEMALE (TRUCK)	MALE (REMOTE)	FUNCTION
RED/BLACK	RED	HOT (POWER)
PINK	WHITE	EXTEND OUT
GREEN/BLACK	GREEN	EXTEND IN
WHITE/BLACK	WHITE/BLACK	WHEEL LIFT DOWN
BLACK/WHITE	BLACK	WHEEL LIFT UP
BLUE/BLACK	BLUE	TILT DOWN
ORANGE/BLACK	ORANGE	TILT UP
WHITE - GROUND AT SOLENOID		

Section VII - ELECTRICAL SCHEMATICS

TOWLIGHT PLUG WIRING

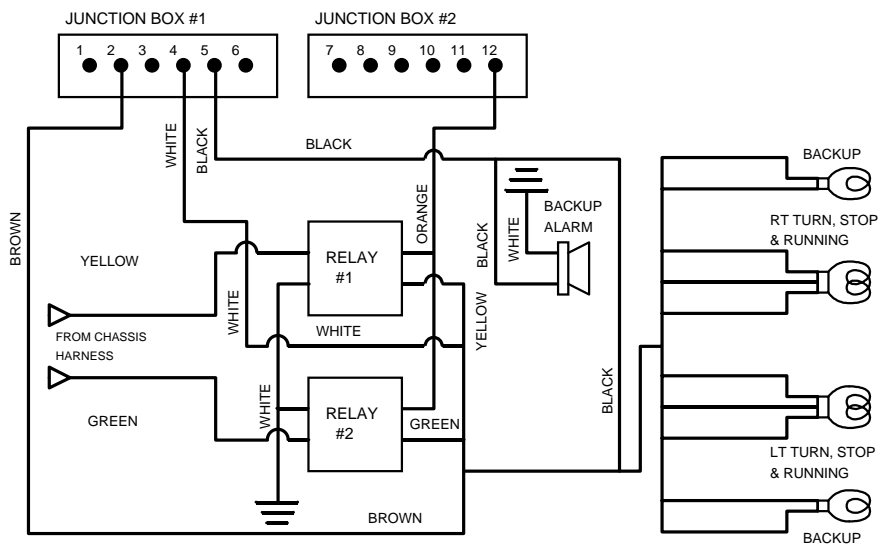


COLOR CODES FROM JUNCTION BOX TO MME CONVERTER AND RELAYS		
RED	STOP	#6 POLE
WHITE	GROUND	#4 POLE
YELLOW	LEFT TURN	#3 POLE
BROWN	RUNNING	#2 POLE
GREEN	RIGHT TURN	#1 POLE
ORANGE	HOT (POWER)	#12 POLE

COLOR CODES FROM CONVERTER TO MAGNETIC TOWLIGHTS - DETAIL "A" (FEMALE PLUG)	
YELLOW	LEFT STOP & TURN
GREEN	RIGHT STOP & TURN
BROWN	RUNNING
WHITE	GROUND

Section VII - ELECTRICAL SCHEMATICS

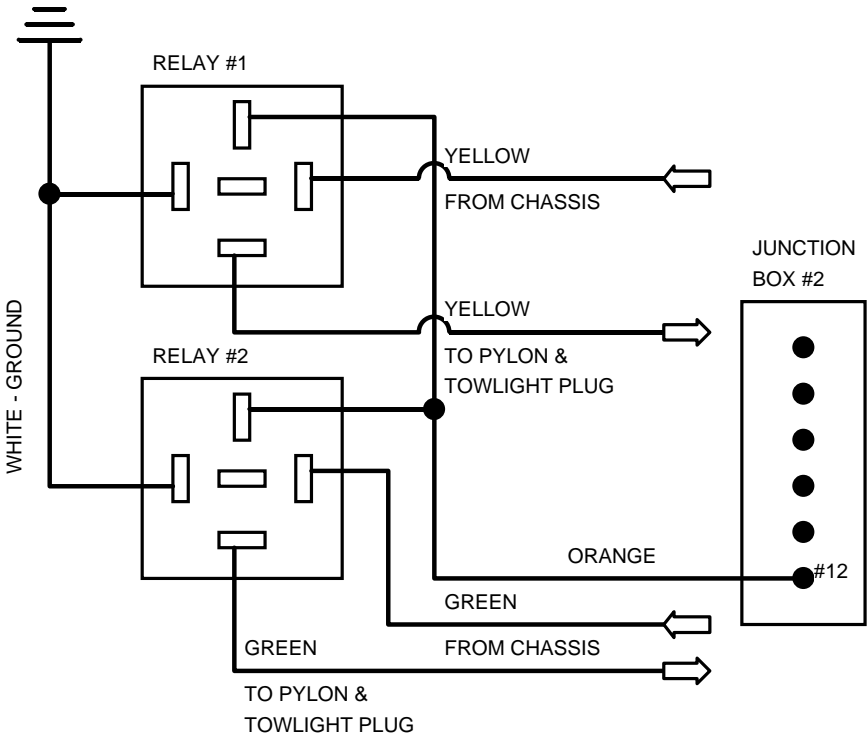
STOP / TURN LIGHT AT PYLON



COLOR CODES FROM JUNCTION BOX TO MME CONVERTER AND RELAYS		
RED	STOP	#6 POLE
BLACK	BACKUP	#5 POLE
WHITE	GROUND	#4 POLE
YELLOW	LEFT TURN	#3 POLE
BROWN	RUNNING	#2 POLE
GREEN	RIGHT TURN	#1 POLE
ORANGE	HOT (POWER)	#12 POLE

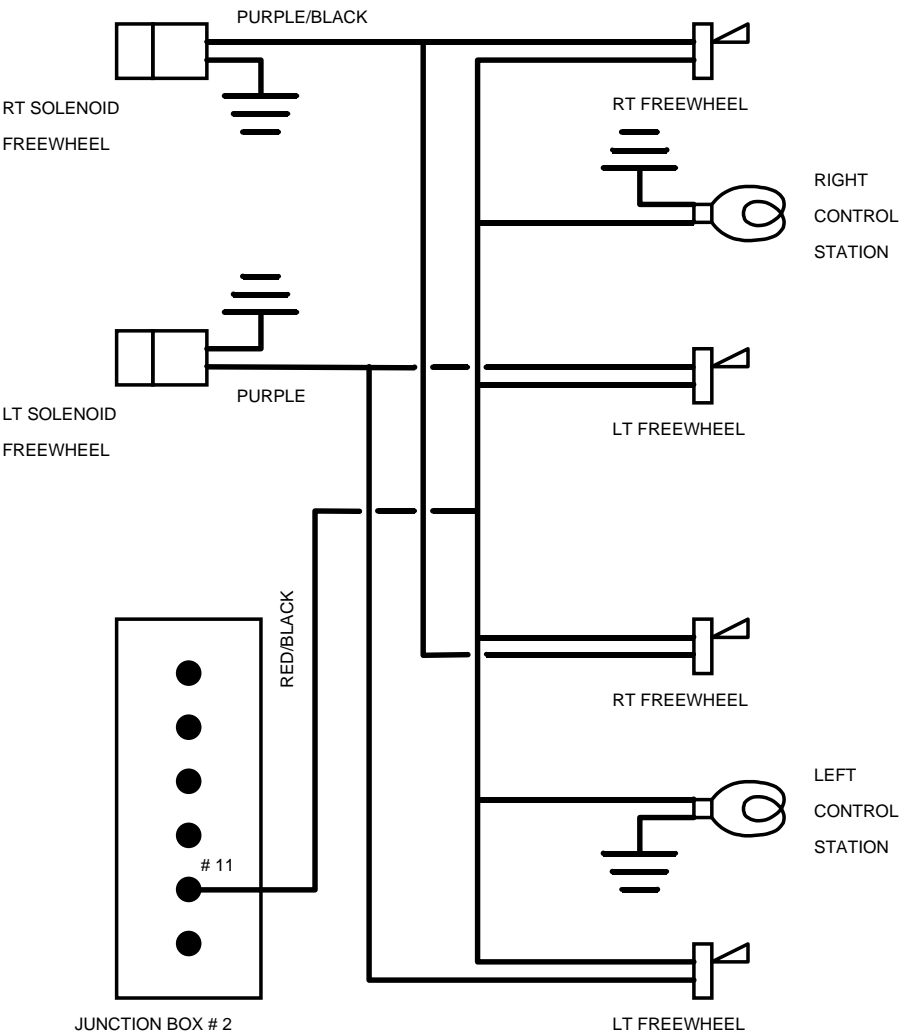
Section VII - ELECTRICAL SCHEMATICS

RELAY SCHEMATIC



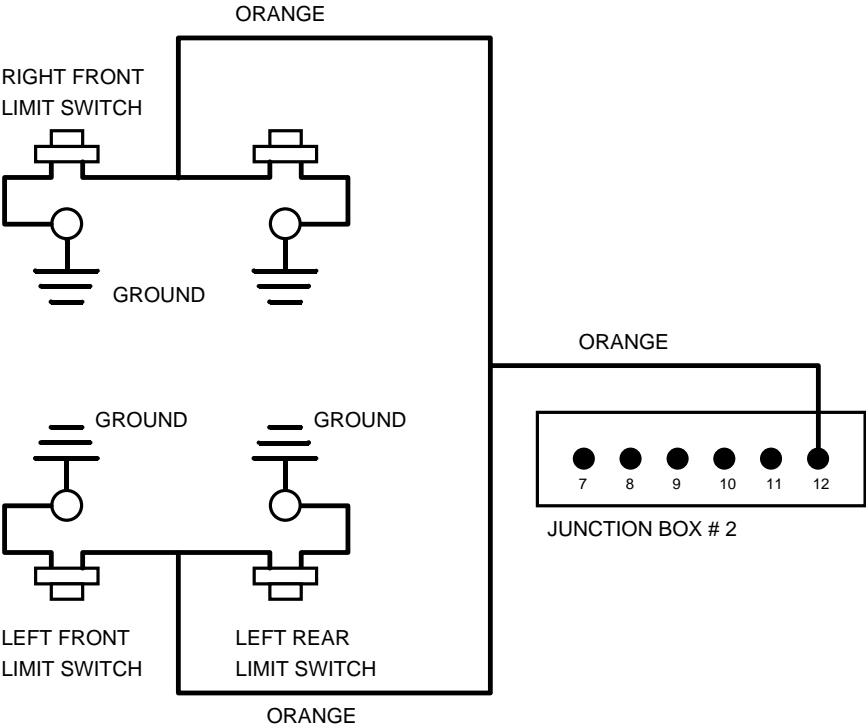
Section VII - ELECTRICAL SCHEMATICS

FREEWHEEL SCHEMATIC



Section VII - ELECTRICAL SCHEMATICS

TOOLBOX LIGHT SCHEMATIC



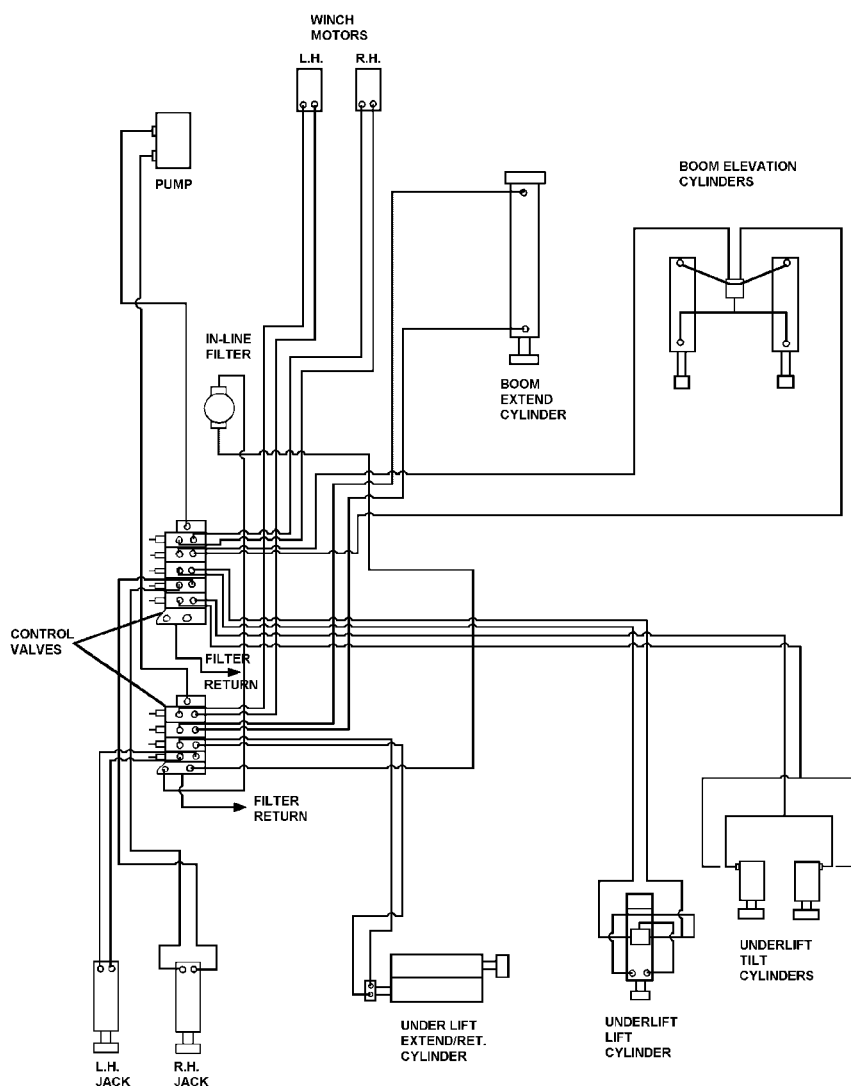
Section VII - ELECTRICAL SCHEMATICS

WIRING PARTS LIST

PART NUMBER	DESCRIPTION	NO. REQ'D
0300134	CLAMP, 1" HOSE	18
0300188	CLAMP, 1-1/2" HOSE	18
0301601	CLAMP, 5/8" HOSE, INSULATED	40
0301671	TOW LIGHT SOCKET	1
0301800	JUNCTION BOX	2
0301909	RECEPTACLE BOOT	1
0302380	RELAY - SEALED & SKIRTED	3
0302558	HAND CONTROL ASSEMBLY	1
7203001	BODY HARNESS - GSA 925	1
7203002	HARNESS WHEEL LIFT REMOTE & TOWLIGHT PLUG	1
7203003	HARNESS FREEWHEEL, WORKLIGHT, & STATION	1
5823031	SOLENOID GROUND WIRE	1
5823032	TOOLBOX LIGHT HARNESS	1
5823033	TOOLBOX WIRE	4
5823034	RELAY GROUND WIRE	1
5823035	RELAY TRIGGER WIRE (YELLOW - LEFT TURN)	1
5823036	RELAY TRIGGER WIRE (GREEN - RIGHT TURN)	1
5823037	JUNCTION BOX GROUND WIRE	1
5823044	LIMIT SWITCH - TOOLBOX LIGHT	4

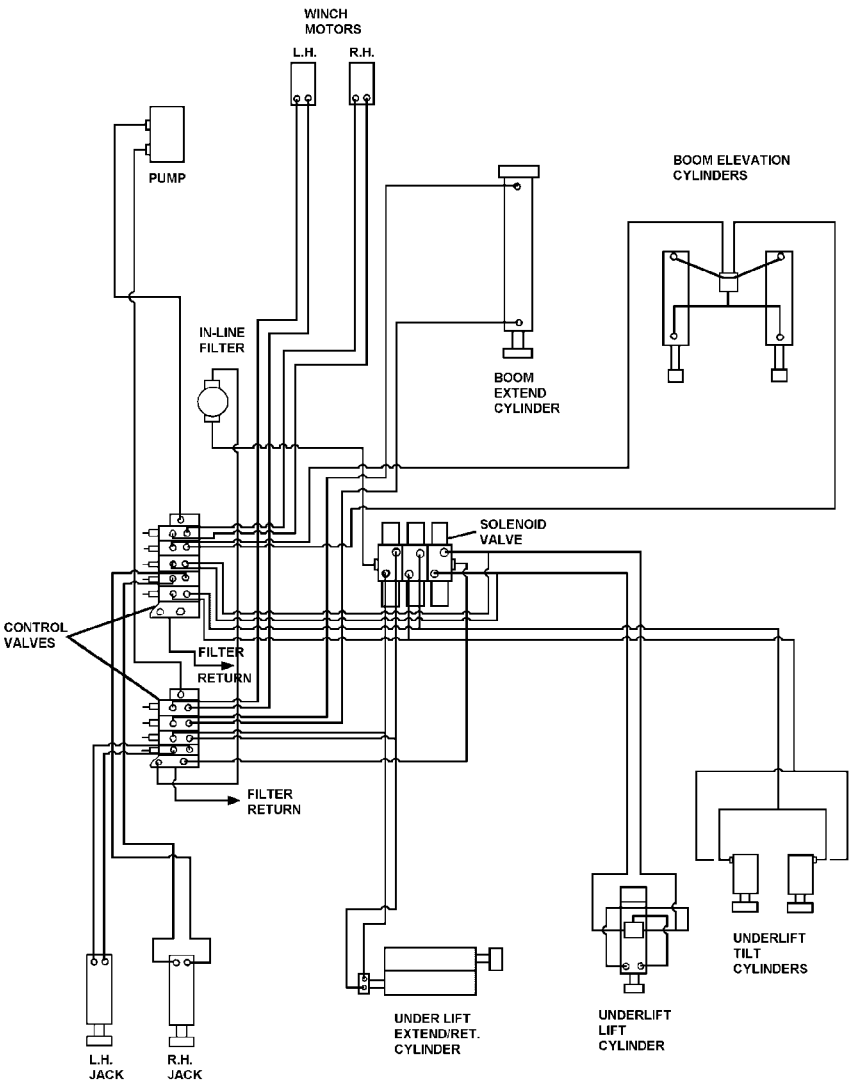
Section VII - HYDRAULIC SCHEMATICS

STANDARD



Section VII - HYDRAULIC SCHEMATICS

with OPTIONAL HAND HELD REMOTE



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CENTURY®

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