

OWNERS MANUAL

1 TON

LOADOLL

CHASSIS RECORDS

CHASSIS YEAR _____

DATE OF PURCHASE _____

S/N OF CHASSIS _____

LOADOLL RECORDS










BUILT BY _____

DATE OF PURCHASE _____

S/N OF LOADOLL _____

MODEL NUMBER _____

TABLE OF CONTENTS

SECTION	TITLE	PAGE	INDEX
1	INTRODUCTION	2	
2	SAFETY PRECAUTIONS	3	
3	SPECIFICATIONS	5	
4	NOT APPLICABLE		
5	CONTROLS	6	
6	OPERATION	12	
7	MAINTENANCE	24	
8	TROUBLE SHOOTING	29	
9	ILLUSTRATED PARTS	35	
10	WARRANTY	BACK PAGE	

SECTION 1
INTRODUCTION

THIS MANUAL PROVIDES OPERATING PROCEDURES TO HELP YOU OBTAIN EFFICIENT AND DEPENDABLE USE FROM YOUR NEW EQUIPMENT. THIS MANUAL ALSO CONTAINS GENERAL INFORMATION, SPECIFICATIONS, SAFETY PRECAUTIONS, MAINTENANCE, AND PARTS LISTS, AND ILLUSTRATIONS.

READ THIS MANUAL CAREFULLY BEFORE OPERATING THE EQUIPMENT. KEEP IT HANDY FOR FUTURE REFERENCE.

IF AT ANY TIME YOU HAVE ANY QUESTIONS, CONTACT YOUR LANDOLL EQUIPMENT DEALER FOR LANDOLL REPLACEMENT PARTS AND SERVICE, OR CONTACT:

LANDOLL CORPORATION

SALES & SERVICE

1700 MAY STREET

MARYSVILLE, KANSAS 66508

OR PHONE:

(785)562-5381

1-800-HAULLOLL

(1-800-428- 5655)

FAX NO.: (785) 562-4893

THE LANDOLL LOADOLL IS A QUALITY PRODUCT DESIGNED TO GIVE YEARS OF TROUBLE FREE PERFORMANCE. BY FOLLOWING EACH SECTION OF THIS MANUAL, YOUR UNIT WILL LOOK AND PERFORM, AS DESIGNED FOR YOU AND YOUR BUSINESS.

SECTION 2

SAFETY PRECAUTIONS

READ AND STUDY ALL OF THE FOLLOWING DANGERS AND CAUTIONS FOR YOUR PERSONAL SAFETY BEFORE OPERATING YOUR LOADOLL !



DANGER

READ AND STUDY THE CONTROLS, AND OPERATION SECTION OF THIS MANUAL BEFORE ATTEMPTING TO OPERATE. IMPROPER OPERATION OF THE LOADOLL COULD RESULT IN PERSONAL INJURY or DEATH.



CAUTION

THE INSTRUCTIONS IN THIS MANUAL ARE FOR THE DRIVERS SIDE CONTROLS ONLY. CONTROLS FOR THE OPTIONAL CURB SIDE CONTROL WILL OPERATE THE LOADOLL FUNCTIONS IN THE OPPOSITE DIRECTION AS THE DRIVERS SIDE CONTROLS. READ THE CONTROL PLACARD CAREFULLY FOR FUNCTION AND DIRECTION BEFORE OPERATING.



DANGER

ENGINE EXHAUST PRODUCES HEAT, AND TOXIC FUMES. USE AN EXHAUST EVACUATION SYSTEM WHEN OPERATING INSIDE ENCLOSED AREAS. FAILURE TO PROVIDE ADEQUATE VENTILATION WILL CAUSE SERIOUS ILLNESS OR DEATH. DIRECT CONTACT WITH ANY EXHAUST SYSTEM MAY CAUSE SERIOUS PERSONAL INJURY.



DANGER

SERIOUS INJURY OR DEATH WILL RESULT IF UNDER OR IN THE PATH OF ITEM(S) BEING LOADED, UNLOADED, OR SECURED. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL.



DANGER

NEVER ATTEMPT TO DISENGAGE THE WINCH CABLE SPOOL WHEN THE CABLE IS UNDER TENSION. THE LOAD WILL BE ALLOWED TO ROLL AWAY AT WILL. SERIOUS INJURY OR DEATH WILL RESULT IF IN THE PATH OF THE ROLLING VEHICLE.



DANGER

DO NOT HANDLE THE WINCH CABLE WHEN THE WINCH IS IN THE ENGAGE POSITION. HANDS, OR CLOTHING COULD GET CAUGHT IN CABLE AND BE PULLED INTO THE SPOOL CAUSING SERIOUS PERSONAL INJURY.



DANGER

FAILURE TO LEAVE AT LEAST 5 CABLE WRAPS ON THE WINCH DRUM COULD RESULT IN SERIOUS PERSONAL INJURY OR DEATH.



DANGER

SERIOUS INJURY WILL RESULT IF UNDER, IN FRONT OF, OR BEHIND: THE BED, SUB-FRAME, REAR BUMPER, OR CHASSIS AT ANY TIME. THE SUB FRAME CAN MOVE BACK 24 INCHES AND THE BED CAN TRAVEL BACK AN ADDITIONAL 90 INCHES. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL.



CAUTION

HIGH PRESSURE HYDRAULIC FLUID WILL PENETRATE CLOTHING, SKIN, MUSCLE, AND ENTER THE BLOOD STREAM, WHICH IS FATAL! HYDRAULIC PRESSURES OF 2,000 PSI OR MORE ARE DEVELOPED IN THIS SYSTEM.



CAUTION

THE TRUCK TRANSMISSION MUST BE IN NEUTRAL AND PARK BRAKE APPLIED WHEN OPERATING THE PTO.

SECTION 3

STANDARD SPECIFICATIONS

CAB TO AXLE..... 114"

BED LENGTH..... 17'

HEIGHT (overall without emergency light bar)..... 74"

LOAD HEIGHT..... 36"

LOAD ANGLE..... 10°

BED WIDTH..... 7' 6"

BED CAPACITY..... 7,000 lb.

TOW-BAR OPTION CAPACITY..... 1500 lb.




WINCH, WORM GEAR CAPACITY..... 8,000 lb.

HYDRAULIC RESERVOIR CAPACITY..... 8 gallons

HYDRAULIC SYSTEM (reservoir, components, & plumbing). 10 gallons

WEIGHT (of kit only, add your chassis lb. for total). 2600 lb.

BOLT TORQUE:

GENERAL TORQUE SPECIFICATION TABLE (Revised 2-74)													
USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN													
NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly-disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.													
SAE Grade No		2				5				8 *			
Bolt head identification marks as per grade NOTE: Manufacturing Marks Will Vary													
Bolt Size		Torque				Torque				Torque			
		Foot Pounds		Newton-Meters		Foot Pounds		Newton-Meters		Foot Pounds		Newton-Meters	
Inches	Millimeters	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/4	6.35	5	6	8.8	8.13	9	11	12.2	14.9	12	15	16.3	20.3
5/16	7.94	10	12	13.5	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42	47.5	57.0	45	54	61.0	73.2
7/16	11.11	30	35	40.7	47.4	54	64	73.2	88.8	70	84	94.9	113.9
1/2	12.70	45	62	61.0	70.5	80	96	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	368.0
3/4	19.05	160	185	203.3	260.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	180	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	408.6	580	696	786.5	943.8	900	1080	1220.4	1464.5
1 1/8	25.58					800	880	1064.8	1193.3	1280	1440	1735.7	1952.6
1 1/4	31.75					1120	1240	1618.7	1881.4	1820	2000	2467.9	2712.0
1 3/8	34.93					1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1 1/2	38.10					1940	2200	2630.6	2983.2	3160	3560	4286.0	4827.4

NOTE: When hardware is plated, reduce torque values by 25%.

SECTION 5

LOADOLL CONTROLS

PREFACE

DO NOT OPERATE YOUR LOADOLL UNTIL A COMPLETE INSPECTION HAS BEEN PERFORMED. A DEFECT MAY CAUSE PERSONAL INJURY, DAMAGE TO YOUR LOADOLL, OR TIME CONSUMING DOWN-TIME. Operation of your LOADOLL is easy, efficient and dependable if installation was done properly. The engine must be running and the PTO engaged before any controls will become functional.



DANGER

READ AND STUDY THE CONTROLS, AND OPERATION SECTION OF THIS MANUAL BEFORE ATTEMPTING TO OPERATE. IMPROPER OPERATION OF THE LOADOLL COULD RESULT IN PERSONAL INJURY or DEATH.



CAUTION

THE INSTRUCTIONS IN THIS MANUAL ARE FOR THE DRIVERS SIDE CONTROLS ONLY. CONTROLS FOR THE OPTIONAL CURB SIDE CONTROL WILL OPERATE THE LOADOLL FUNCTIONS IN THE OPPOSITE DIRECTION AS THE DRIVERS SIDE CONTROLS. READ THE CONTROL PLACARD CAREFULLY FOR FUNCTION AND DIRECTION BEFORE OPERATING.

Pushing IN on the drivers side controls prepares the Loadoll for loading position. Pulling controls OUT causes the Loadoll to move from loading position to transport position.

CONTROLS SAFETY



DANGER

ENGINE EXHAUST PRODUCES HEAT, AND TOXIC FUMES. USE AN EXHAUST EVACUATION SYSTEM WHEN OPERATING INSIDE ENCLOSED AREAS. FAILURE TO PROVIDE ADEQUATE VENTILATION WILL CAUSE SERIOUS ILLNESS OR DEATH. DIRECT CONTACT WITH ANY EXHAUST SYSTEM MAY CAUSE SERIOUS PERSONAL INJURY.



DANGER

SERIOUS INJURY OR DEATH WILL RESULT IF UNDER OR IN THE PATH OF ITEM(S) BEING LOADED, UNLOADED, OR SECURED. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL.



DANGER

NEVER ATTEMPT TO DISENGAGE THE WINCH CABLE SPOOL WHEN THE CABLE IS UNDER TENSION. THE LOAD WILL BE ALLOWED TO ROLL AWAY AT WILL. SERIOUS INJURY OR DEATH WILL RESULT IF IN THE PATH OF THE ROLLING VEHICLE.



DANGER

DO NOT HANDLE THE WINCH CABLE WHEN THE WINCH IS IN THE ENGAGE POSITION. HANDS, OR CLOTHING COULD GET CAUGHT IN CABLE AND BE PULLED INTO THE SPOOL CAUSING SERIOUS PERSONAL INJURY.



CAUTION

THE INSTRUCTIONS IN THIS MANUAL ARE FOR THE DRIVERS SIDE CONTROLS ONLY. CONTROLS FOR THE OPTIONAL CURB SIDE CONTROL WILL OPERATE THE LOADOLL FUNCTIONS IN THE OPPOSITE DIRECTION AS THE DRIVERS SIDE CONTROLS. READ THE CONTROL PLACARD CAREFULLY FOR FUNCTION AND DIRECTION BEFORE OPERATING.



DANGER

SERIOUS INJURY WILL RESULT IF UNDER, IN FRONT OF, OR BEHIND: THE BED, SUB-FRAME, REAR BUMPER, OR CHASSIS AT ANY TIME. THE SUB FRAME CAN MOVE BACK 24 INCHES AND THE BED CAN TRAVEL BACK AN ADDITIONAL 90 INCHES. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL.

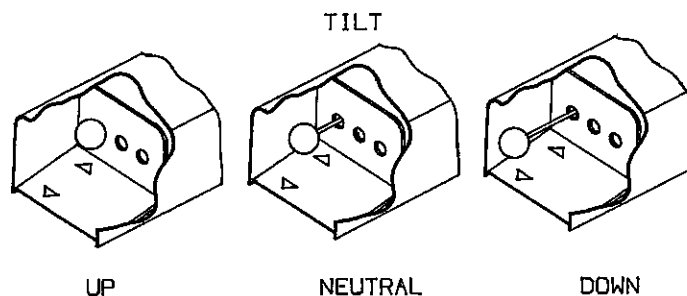


Figure 5-1

IN POSITION: Tilts the front of the bed up until the rear bumper rests on the ground to stabilize the LOADOLL for loading purposes.

NEUTRAL: No bed tilting will occur. The neutral position will hold the angle the bed is tilted to. The bed must be in the level, transport position before transporting.

OUT POSITION: Tilts the front of the bed down until the front of the bed and sub-frame assembly contacts the chassis frame for transport position.

5-2 WINCH CONTROLS



DANGER

DO NOT HANDLE THE WINCH CABLE WHEN THE WINCH IS IN THE ENGAGE POSITION. HANDS, OR CLOTHING COULD GET CAUGHT IN CABLE AND BE PULLED INTO THE SPOOL CAUSING SERIOUS PERSONAL INJURY.



DANGER

NEVER ATTEMPT TO DISENGAGE THE WINCH CABLE SPOOL WHEN THE CABLE IS UNDER TENSION. THE LOAD WILL BE ALLOWED TO ROLL AWAY AT WILL. SERIOUS INJURY OR DEATH WILL RESULT IF IN THE PATH OF THE ROLLING VEHICLE.

5-2.1 CABLE SPOOL ENGAGEMENT: This control lever is on the street end of the winch. The winch is labeled "ENGAGE" and "DISENGAGE". (See fig. 5-2.1)

DISENGAGE POSITION: The cable spool "free wheels". This allows the cable to pay-out by hand.

ENGAGE POSITION: Allows the hydraulic system to control winch.

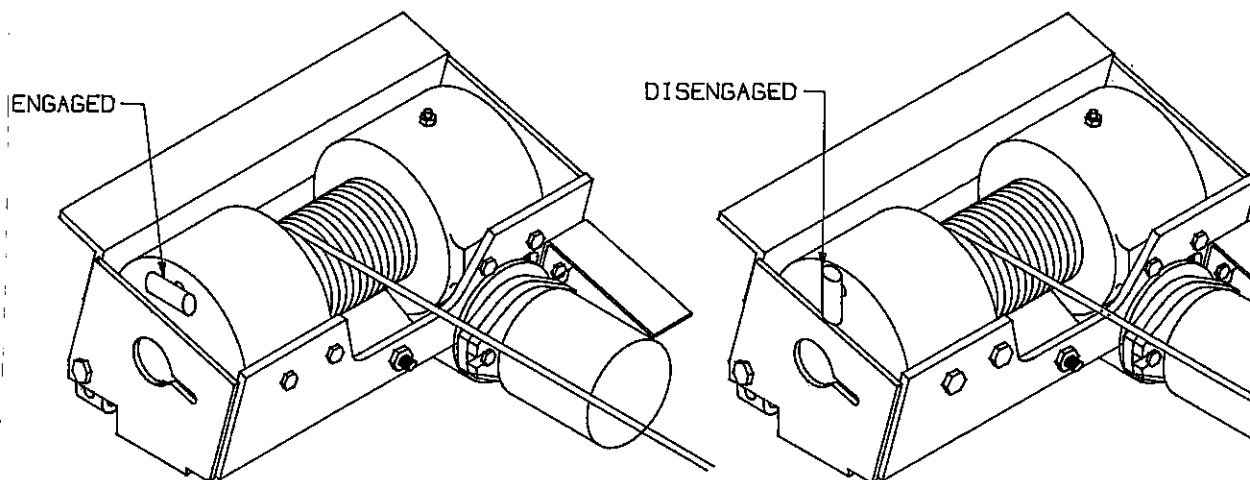


Figure 5-2.1



CAUTION

THE INSTRUCTIONS IN THIS MANUAL ARE FOR THE DRIVERS SIDE CONTROLS ONLY. CONTROLS FOR THE OPTIONAL CURB SIDE CONTROL WILL OPERATE THE LOADOLL FUNCTIONS IN THE OPPOSITE DIRECTION AS THE DRIVERS SIDE CONTROLS. READ THE CONTROL PLACARD CAREFULLY FOR FUNCTION AND DIRECTION BEFORE OPERATING.

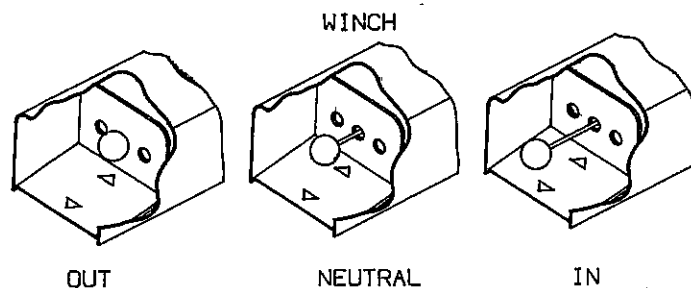


Figure 5-2.2

IN POSITION: Reels the cable OUT.

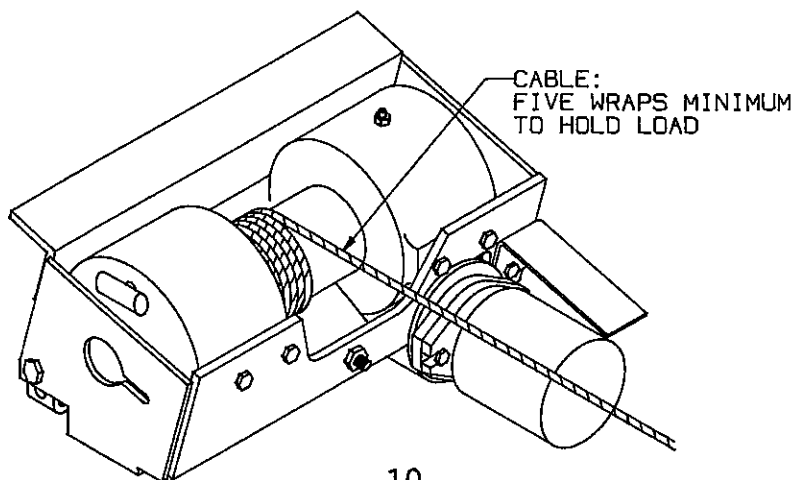
NEUTRAL: No winch action occurs. The winch holds it's existing position even under load.

OUT POSITION: Reels the cable IN.



DANGER

FAILURE TO LEAVE AT LEAST 5 CABLE WRAPS COULD RESULT IN SERIOUS PERSONAL INJURY OR DEATH.





CAUTION

THE INSTRUCTIONS IN THIS MANUAL ARE FOR THE DRIVERS SIDE CONTROLS ONLY. CONTROLS FOR THE OPTIONAL CURB SIDE CONTROL WILL OPERATE THE LOADOLL FUNCTIONS IN THE OPPOSITE DIRECTION AS THE DRIVERS SIDE CONTROLS. READ THE CONTROL PLACARD CAREFULLY FOR FUNCTION AND DIRECTION BEFORE OPERATING.



DANGER

SERIOUS INJURY WILL RESULT IF UNDER, IN FRONT OF, OR BEHIND: THE BED, SUB-FRAME, REAR BUMPER, OR CHASSIS AT ANY TIME. THE SUB FRAME CAN MOVE BACK 24 INCHES AND THE BED CAN TRAVEL BACK AN ADDITIONAL 90 INCHES. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL.

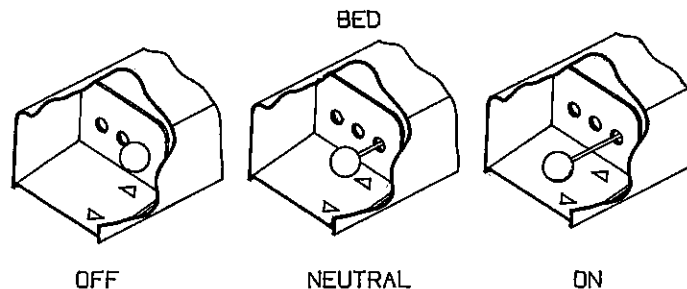


Figure 5-3

- IN POSITION:** Slides the bed back until the bed touches the ground in the full tilt position. Do not slide the bed back unless the bumper is on the ground to stabilize the LOADOLL.
- NEUTRAL:** No bed sliding will occur. The rest position will hold the bed in the current position.
- OUT POSITION:** Slides the bed forward until the bed is level and in the transport position. The bed must be in the forward position before transporting.

SECTION 6

OPERATION

PREFACE

DO NOT OPERATE YOUR LOADOLL UNTIL A COMPLETE INSPECTION HAS BEEN PERFORMED. A DEFECT MAY CAUSE PERSONAL INJURY, DAMAGE TO YOUR LOADOLL, OR TIME CONSUMING DOWN-TIME. Operation of your LOADOLL is easy and efficient and dependable if installation was done properly.



DANGER

READ AND STUDY THE CONTROLS, AND OPERATION SECTION OF THIS MANUAL BEFORE ATTEMPTING TO OPERATE. IMPROPER OPERATION OF THE LOADOLL COULD RESULT IN PERSONAL INJURY or DEATH.



DANGER

ENGINE EXHAUST PRODUCES HEAT, AND TOXIC FUMES. USE AN EXHAUST EVACUATION SYSTEM WHEN OPERATING INSIDE ENCLOSED AREAS. FAILURE TO PROVIDE ADEQUATE VENTILATION WILL CAUSE SERIOUS ILLNESS OR DEATH. DIRECT CONTACT WITH ANY EXHAUST SYSTEM MAY CAUSE SERIOUS PERSONAL INJURY.



DANGER

SERIOUS INJURY OR DEATH WILL RESULT IF UNDER OR IN THE PATH OF ITEM(S) BEING LOADED, UNLOADED, OR SECURED. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL.

POWER TAKE-OFF (PTO)

The PTO control is located in the chassis cab. If the LOADOLL was installed on the chassis at LANDOLL Corp., the PTO control will be located on the floor on the center hump. When the PTO is engaged, control pulled up, engine powers a high pressure hydraulic pump, thus providing power to the hydraulic controls.



CAUTION

THE TRUCK TRANSMISSION MUST BE IN NEUTRAL AND PARK BRAKE APPLIED WHEN OPERATING THE PTO.

NOTE: NEVER TRANSPORT WITH THE PTO CONTROL ENGAGED. EXTENSIVE DAMAGE MAY RESULT TO THE CHASSIS TRANSMISSION, PTO UNIT, HYDRAULIC PUMP, AND OTHER HYDRAULIC COMPONENTS.

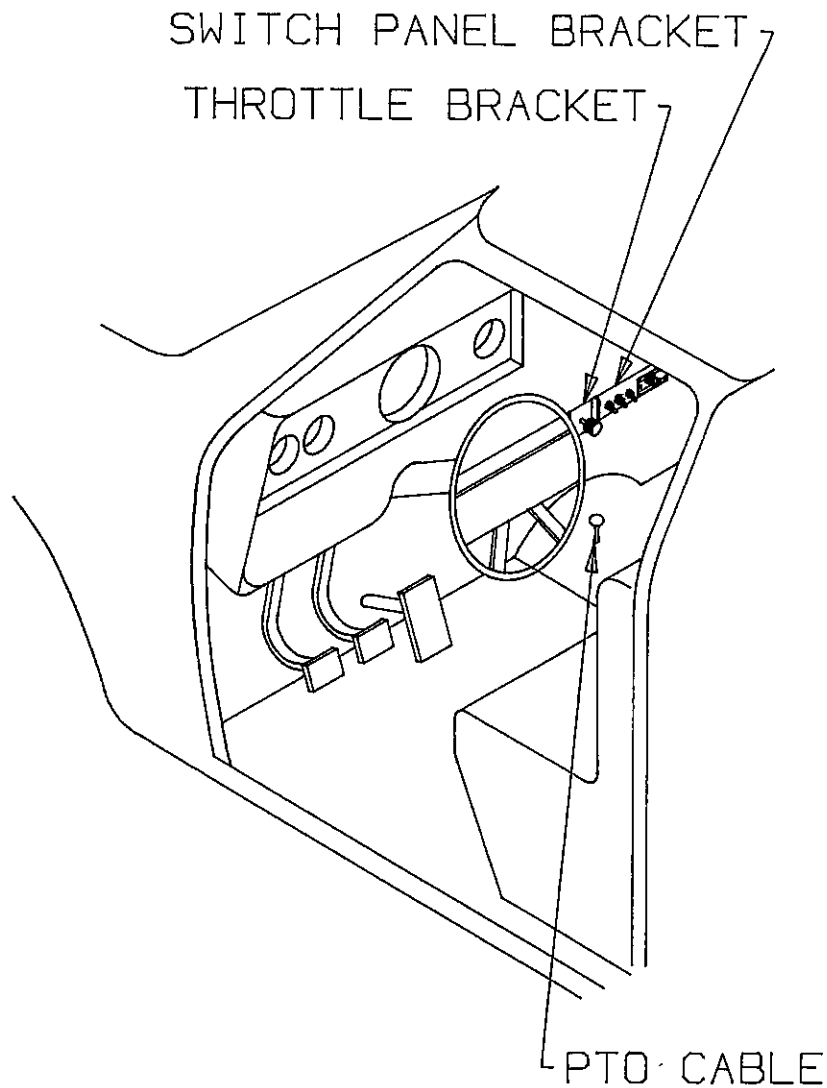


Figure 6-1

6-1 BED LOADING:

6-1.1 Back your LOADOLL up to the item to be retrieved. Align your LOADOLL so that the bed is in-line with the item to be loaded. Do not back your unit any closer to the item being retrieved than 10 feet (120 inches).

6-1.2 Shift the transmission to neutral and set parking brake securely.

6-1.3 Shift the PTO into gear. (See fig. 6-1 for location)

6-1.4 Adjust the throttle control to achieve the engine R.P.M. desired. (See fig. 6-1 for location)

NOTE: DO NOT EXCEED 1500 ENGINE R.P.M. WITH THE PTO ENGAGED. PUMP AND HYDRAULIC SYSTEM COMPONENTS WILL BE ADVERSELY AFFECTED BY HIGHER ENGINE RPM'S.

6-1.5 Tilt the bed up until the rear bumper firmly contacts the ground. (See fig. 6-1.5)

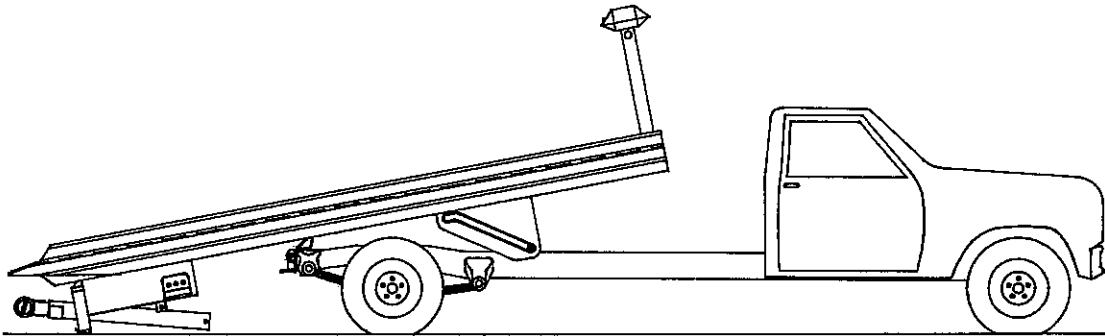


Figure 6-1.5

6-1.6 Slide the bed back until the bed touches the ground. (See fig. 6-1.6)

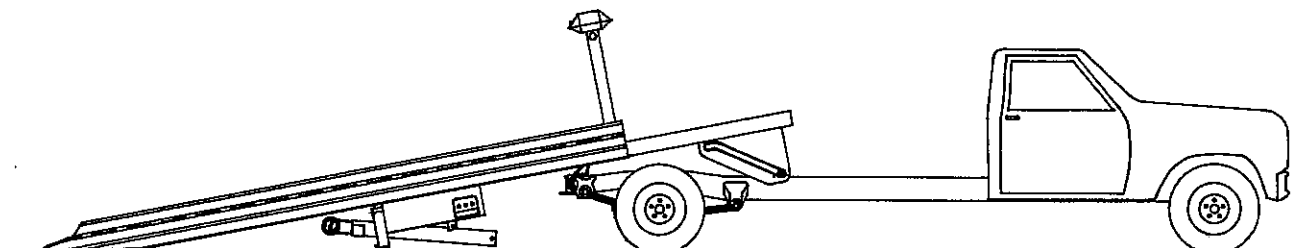


Figure 6-1.6

- 6-1.7 Load the bed. Use the winch to pull the load onto the bed. (See fig. 6-1.7)

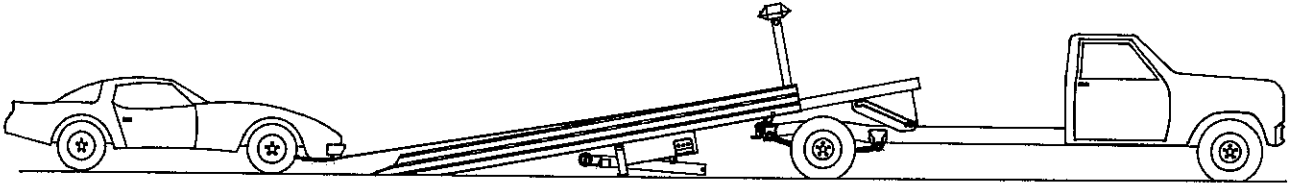


Figure 6-1.7

- 6-1.8 Anchor the front and back of the load to the bed key hole slots, or D-rings. Use 5/16 "HI-TEST" chain. (See fig. 6-1.8)

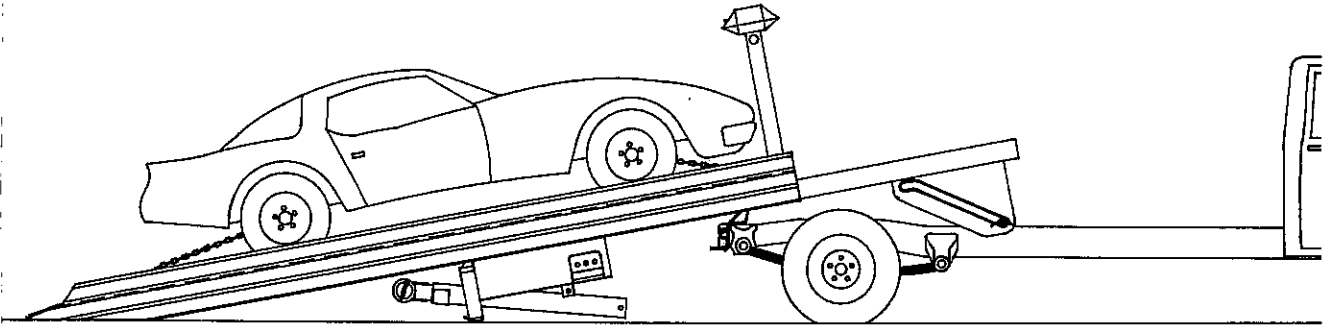


Figure 6-1.8

- 6-1.9 Slide the bed to the full forward position. (See fig. 6-1.9)
Exception: If the load is extremely heavy, slide the bed forward until the load is centered over the rear axle.

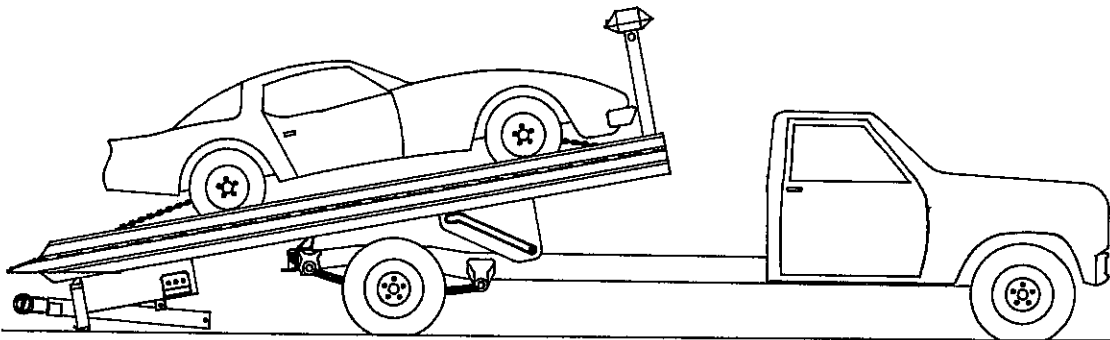


Figure 6-1.9

- 6-1.10 Tilt the bed down to the level, transport position. If the bed is not all the way forward due to step 9 exception, then slide the bed all the way forward. (See fig. 6-1.10)

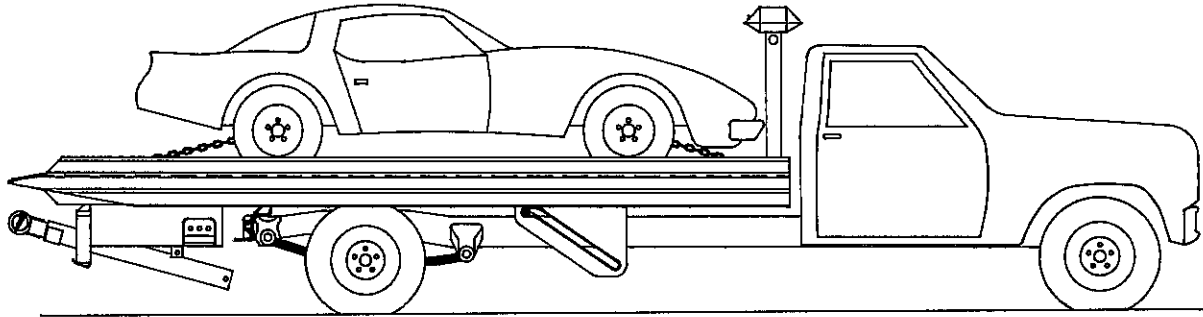


Figure 6-1.10

- 6-1.11 Set parking brake of vehicle being hauled.
- 6-1.12 Return the throttle control to idle, and disengage PTO.
- 6-1.13 Check all tie-downs securing the load, and attach safety chains before transporting.

6-2 BED UNLOADING

- 6-2.1 Locate your LOADOLL on a level, solid area.
- 6-2.2 Shift the Loadoll transmission to neutral and set parking brake securely.
- 6-2.3 Shift the PTO into gear.
- 6-2.4 Adjust the throttle control to achieve the engine R.P.M. desired.

NOTE: DO NOT EXCEED 1500 ENGINE R.P.M. WITH THE PTO ENGAGED. PUMP AND HYDRAULIC SYSTEM COMPONENTS WILL BE ADVERSELY AFFECTED BY HIGHER ENGINE RPM'S.

- 6-2.5 Tilt the bed up until the rear bumper firmly contacts the ground. (See fig. 6-2.5)

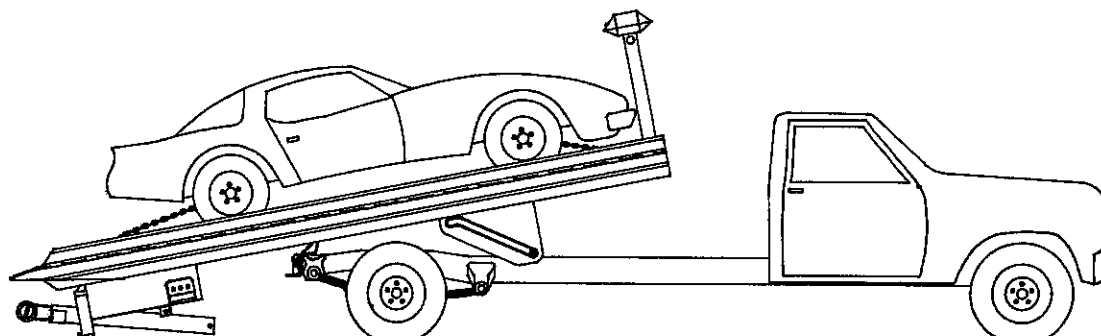


Figure 6-2.5

- 6-2.6 Slide the bed back until the bed touches the ground. (See fig. 6-2.6)

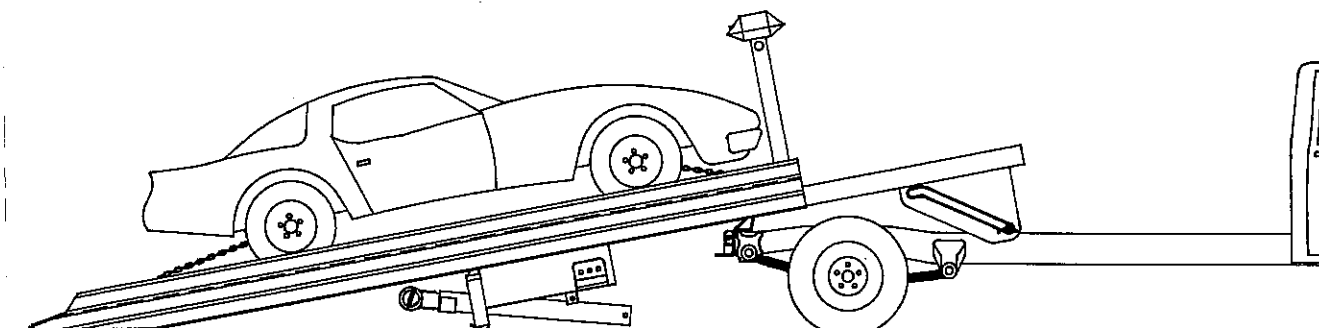


Figure 6-2.6

- 6-2.7 Secure the winch cable to the load, and remove any cable slack.
- 6-2.8 Remove all securing chains.
- 6-2.9 If the load is a vehicle, shift the loaded vehicles' transmission to neutral, and release parking brake.
- 6-2.10 Operate the winch to allow load to be removed from the bed of the LOADOLL. (See fig. 6-2.10)

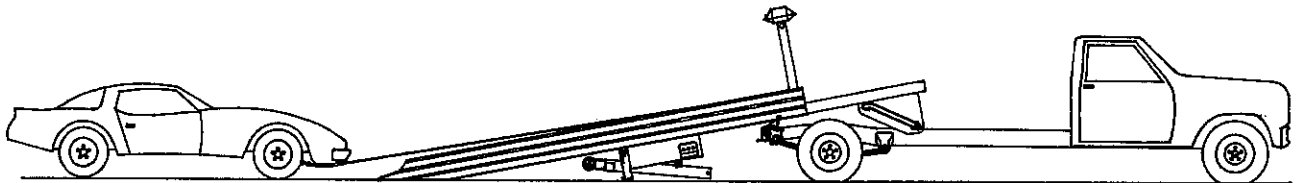


Figure 6-2.10

- 6-2.11 After load is off and clear of the bed, secure the unloaded item from moving by blocking, setting parking brake, etc..
- 6-2.12 Remove winch line and secure in stowing position. This would be anchoring to any bed load anchor location and removing any slack in the cable.

NOTE: DO NOT ANCHOR THE WINCH CABLE TO THE REAR BUMPER OR THE TOW-BAR!

- 6-2.13 Slide the bed to the full forward position. (See fig. 6-2.13)

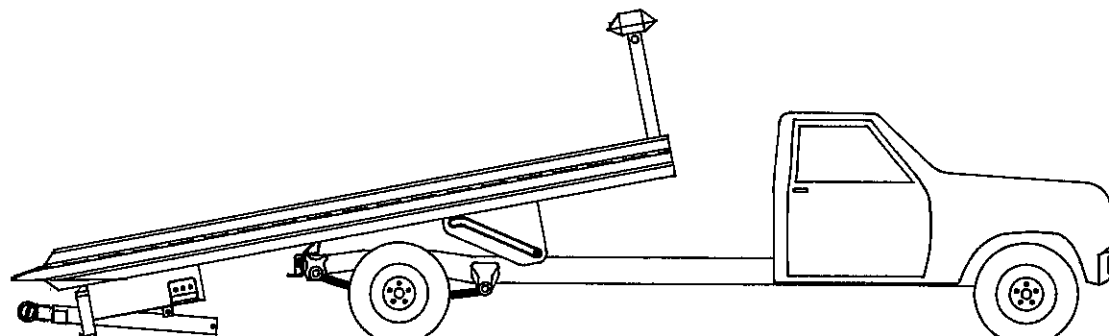


Figure 6-2.13

6-2.14 Tilt the bed to the transport position. (See fig. 6-2.14)

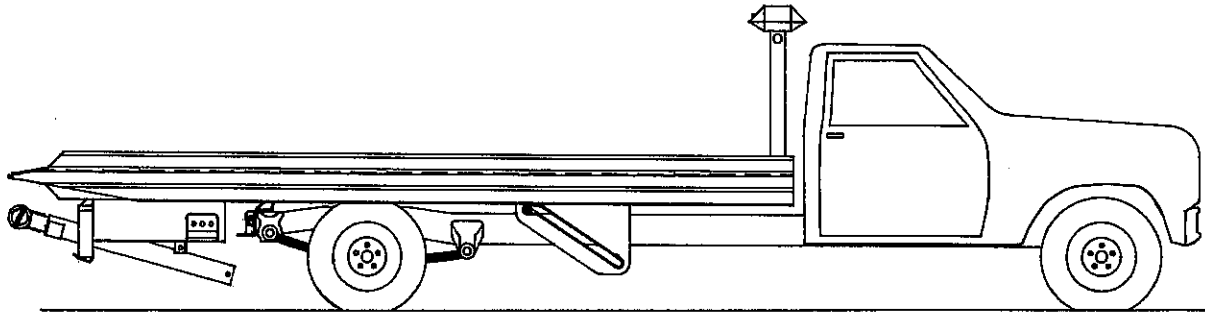


Figure 6-2.14

6-3 LOAD PLACEMENT

In most situations, the load is to be placed as far forward on the bed as possible. If your load is confined to a small area (ie; crated item at the weight limit), position so 10% of the load transfers to the front axle, and 90% of the load on the rear axle.

6-4 TOWING ATTACHMENT

- 6-4.1 Block wheels or otherwise secure the vehicle to be towed from rolling.
- 6-4.2 Back your LOADOLL up in-line with the vehicle to be towed. Leave a 4 to 5 foot (48 - 60 inch) gap between the tow-bar and the vehicle to be towed. Make certain the tow-bar is centered from side to side with the vehicle to be towed. (See fig. 6-4.1)

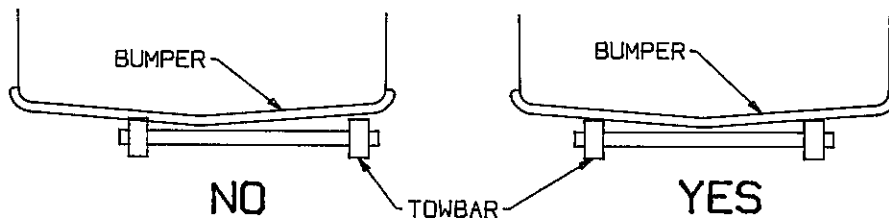


Figure 6-4.1

- 6-4.3 Shift the transmission to neutral.
- 6-4.4 Set parking brake securely.
- 6-4.5 Engage the PTO and adjust throttle control to obtain desired engine R.P.M..
- NOTE:** DO NOT EXCEED 1500 ENGINE R.P.M. WITH THE PTO ENGAGED. PUMP AND HYDRAULIC SYSTEM COMPONENTS WILL BE ADVERSELY AFFECTED BY HIGHER ENGINE RPM'S.
- 6-4.6 Tilt the bed up until the tow-bar is lower than the vehicles' bumper height.
- 6-4.7 Extend the tow-bar until it is slightly under the bumper of the vehicle being towed.
- 6-4.8 Attach "J" hook chains or other appropriate securing chains the underside of the vehicle being towed. Attach the other end of the chain to the chain hooks at each end of the tow-bar cross tube. (See fig. 6-4.8)
- NOTE:** DO NOT ATTACH CHAINS TO DRIVE LINES, OR STEERING COMPONENTS OF THE VEHICLE TO BE TOWED. ONLY ATTACH ANCHOR CHAINS TO LOCATIONS SPECIFIED BY THAT VEHICLES MANUFACTURER.

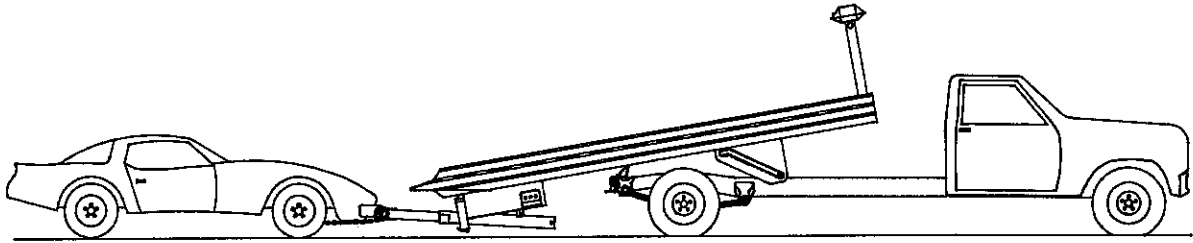


Figure 6-4.8

- 6-4.9 Remove blocks preventing towed vehicle from rolling. Shift towed vehicles' transmission to neutral. If attaching the tow-bar to the rear bumper of a vehicle, secure steering wheel to prevent turning. The front wheels must be in the straight ahead position or the vehicle will dog-track.
- 6-4.10 Extend the tow-bar to the fully extended length.
- 6-4.11 Tilt the LOADOLL bed back to transport position. (See fig. 6-4.11-A) If chain hookup is proper, the chains will carry the weight, and pull the rubber rings on the tow-bar solidly against the front edge of the vehicles bumper without letting the rubber rings above or below the bumper. (See figure 6-4.11-B)

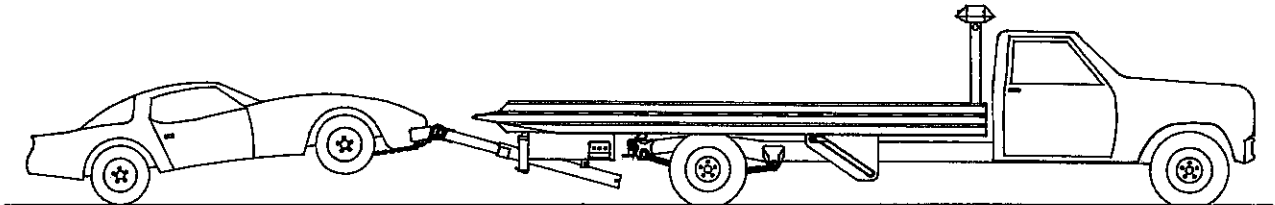


Figure 6-4.11-A

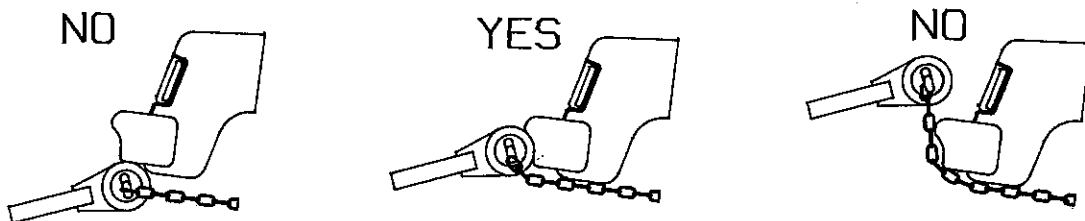


Figure 6-4.11-B

- 6-4.12 Return the throttle control to the idle position.
- 6-4.13 Disengage the PTO.
- 6-4.14 Recheck attachment of vehicle to the tow-bar for proper and secure attachment before transporting.
- 6-4.15 Attach applicable safety towing chains from the towed vehicle to the rear bumper key hole slots.
- 6-4.16 Check the wheels of the raised end of the towed vehicle. The raised wheels should be at least 4 to 5 inches off the ground. Check the opposite end of the towed vehicle for ground clearance such as bumper, fuel tank, etc..
- 6-4.17 Light the rear of the towed vehicle if towing after dark.
- 6-4.18 Follow the recommended safe towing procedures, speeds, and distances established by the manufacturer of the vehicle being towed.

6-5 SECURING LOADS TO BED

All vehicles, machinery, crated goods, or loose parts must be securely tied down to the bed of your LOADOLL. Key holes are provided in front and rear of the bed to anchor 5/16 chain. Optional D-rings along the side rails of the bed can also be used to secure loads.

The front and rear of the load must be secured to the front and to the rear of the bed. Do not rely on the winch to secure the load to the bed!

Do not allow any slack in the hold down chains. Slack will allow load to shift. A shifting load will create sufficient momentum to break chains. Remove chain slack by using chain boomers, or other slack adjusters designed to be used for securing loads. Always attach additional safety chains. (See 6-5)

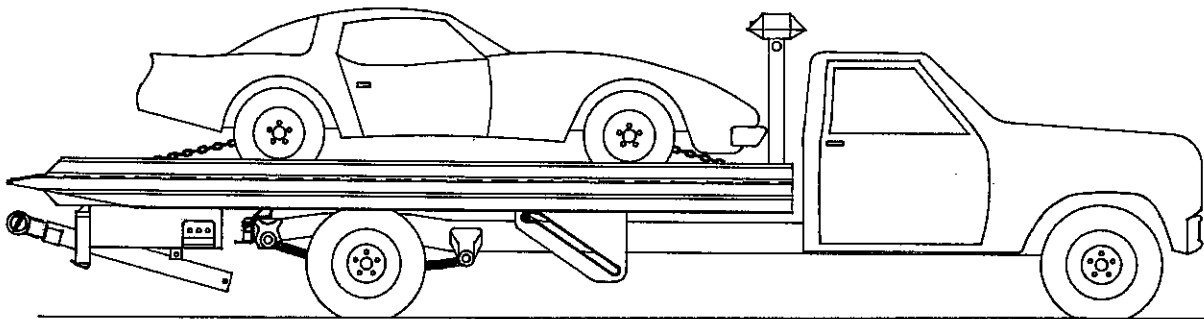


Figure 6-5

SECTION 7

MAINTENANCE AND LUBRICATION

PREFACE:

The Landoll LOADOLL is designed for years of service with minimal maintenance. The following maintenance, however, is very important for durability and for safe operation. Maintenance is an owner / user responsibility.



DANGER

SERIOUS INJURY WILL RESULT IF UNDER, IN FRONT OF , OR BEHIND: THE BED, SUB-FRAME, REAR BUMPER OR CHASSIS. TILTING OF THE BED UP OR DOWN WILL CAUSE CRUSHING IF; UNDER THE REAR BUMPER, BETWEEN THE SUB-FRAME AND THE CHASSIS, AND BETWEEN THE SUB-FRAME ROLLER TRACK PLATE AND THE GROUND. THE SUB FRAME CAN MOVE BACK 24 INCHES AND THE BED CAN TRAVEL BACK AN ADDITIONAL 90 INCHES. ANY OBJECT IN THE SAME AREAS MAY BE DAMAGED, OR CAUSE DAMAGE TO THE LOADOLL. IF MAINTENANCE REQUIRES WORK IN THESE AREAS, BLOCK BOTH ENDS OF THE SUB-FRAME TO PREVENT LOWERING OF THE REAR BUMPER AND THE FRONT OF THE SUB-FRAME. SECURELY LOCK THE BED IN PLACE TO PREVENT SLIDING BY POSITIONING THE TAIL PLATE ON THE GROUND, OR ANCHORING THE BED TO THE SUB-FRAME WITH SAFETY CHAINS.

7-1 INSPECTION

Inspect the vehicle and deck system periodically for damage or evidence of pending failure. Damaged or broken parts should be replaced immediately. Never operate a machine which is known to be defective or is operating improperly. The cause of any binding or hydraulic leakage should be determined immediately and the problem promptly corrected.

7-2 SLIDING SURFACES

Sliding surfaces are to be cleaned periodically. Cleaning every 6 months is recommended for clean operating conditions. Severe working conditions will require maintenance more often. Sliding on dirty wear surfaces will cause shortened life of the slide wear strips or blocks.

7-3 HYDRAULIC SYSTEM

Check the hydraulic oil level weekly, or after any leakage. Use AMOCO RYCON MV or equivalent hydraulic oil.

7-3.1 Check the oil level by sliding the deck back enough to gain access to the reservoir cap. Have the bed level with the chassis frame, and the tow-bar fully retracted. Shut off the engine. Proper oil level is at the bottom of the filler tube strainer. Filling to the top will result in overflow when the bed is slid forward.

7-3.2 If a cylinder seal leaks, disassemble the cylinder and ascertain the cause of the leak. Small scores caused by chips or contaminated fluid can usually be worked out with fine emery cloth to avoid re-occurring of the trouble. Any time a component is opened up, or whenever any seal replacement is necessary, it is advisable to thoroughly clean all components and replace all seals in that component. Seal kits are available from your Loadoll dealer.

7-4 CABLE WINCH

Inspect the winch cable prior to, and after each and every usage. If frayed wires, nicks, kinks, worn spots, breaks, or any other sign of deterioration or damage is found, immediate replacement is mandatory before further usage.

Inspect the winch mechanism thoroughly each week to insure safe, efficient operation.

7-4 ELECTRICAL SYSTEM

Maintenance of the electrical system consists of inspection, and minor servicing. Any wire, connection, or electrical component showing signs of corrosion, wear, breakage or unraveling must be serviced.

7-4.1 Frayed, or unraveling wire must have the defective section removed and replaced with wire of the same color and gauge. Seal all splice connections and insulate.

7-4.2 Corroded terminals must have the corrosion removed, source of corrosion neutralized, terminal resealed, protected, and insulated.

7-4.3 Fuse or circuit breaker burn-out or "blow-out" usually indicates an electrical short-circuit, although a fuse may occasionally fail from vibration. Insert a second fuse or reset the breaker. If this fuse immediately burns out or the breaker trips, locate the cause of the electrical short and repair.

7-4.4 Lights with a repeated lamp burn-out usually indicates a loose connection, either at the lamp socket, the system ground or a malfunctioning voltage regulator. Locate the source of the problem and repair. System grounds must be grounded to bare metal surfaces. Paint, grease, wax, and other coatings act as insulators. Replacement lamps must be equivalent to the factory installed lamp.

7-5 ALUMINUM - CARE AND CLEANING

To retain the original appearance of all types of aluminum finishes, it is important to keep the finish clean and free of any dirt accumulation. For periodic routine cleaning, we recommend washing with water containing any mild, non abrasive soap or detergent such as those recommended for automotive finishes, or any of the numerous non-etching, non abrasive aluminum cleaners which are available at; grocery, department, hardware, and automotive stores. To apply these cleaners, use a soft cloth or sponge. Follow the cleaning by thoroughly rinsing the surface with clear water and drying with a chamois or cloth to prevent spotting or streaking. The surface must be kept clean, to protect the finish from minor scratches or abrasions, and to facilitate later cleaning. A coat of non-abrasive liquid or paste wax, such as those recommended for the care of automotive finishes, should be applied to the clean dry surface.

Wax coatings should normally be replenished every three to six months. The exact life of the wax coating is dependent on the degree and severity of exposure to weather between waxing. To get the longest life from wax coatings, excessive grime and soil should not be allowed to accumulate, and the waxed surface should be washed as often as needed with clear, cool water and dried with a chamois or cloth. A protective wax coating is particularly important for preservation of the finish in seaboard localities and in industrial areas where the finish is exposed to industrial fall out.

MAINTENANCE SCHEDULE

I=INSPECT

R=REPLACE

T=TIGHTEN / TORQUE

L=LUBRICATE

NORMAL OPERATING SERVICE INTERVALS - PERFORM AT THE TIME SHOWN							
SERVICE ITEM:	INTERVAL-	FIRST 5 HOURS	WEEKLY	MONTHLY	6 MONTHS	YEARLY	NOTES
HYDRAULICS							
OIL		I	I			R	(1)
FILTER		R			R		
WINCH GEAR CASE LUBE		I		I		R	(2)
HOSES		I		I			
ELECTRICAL							
LIGHTS		I	I				
WIRING		I		I			
CONNECTIONS		I		I			
MISCELLANEOUS							
FASTENERS		I, T		I			(3)
BED SLIDE PLASTIC STRIPS		I		I			
TILT FRAME WEAR STRIPS		I		I			
NYLATRON		I		I			
WINCH CABLE ASSY.		I	I	I, L			(4)
DRIVE SHAFT U-JOINTS		L	SEE TRUCK OWNERS MANUAL FOR SERVICE INTERVALS				
DRIVE SHAFT SLIP JOINTS		L					
TIRES / WHEELS							
INFLATION		I	I				(5)
LUG-NUTS		I, T	SEE TRUCK OWNERS MANUAL FOR TORQUE & SEQUENCE				





(1) USE AMOCO RYCON MV OR EQUIVALENT

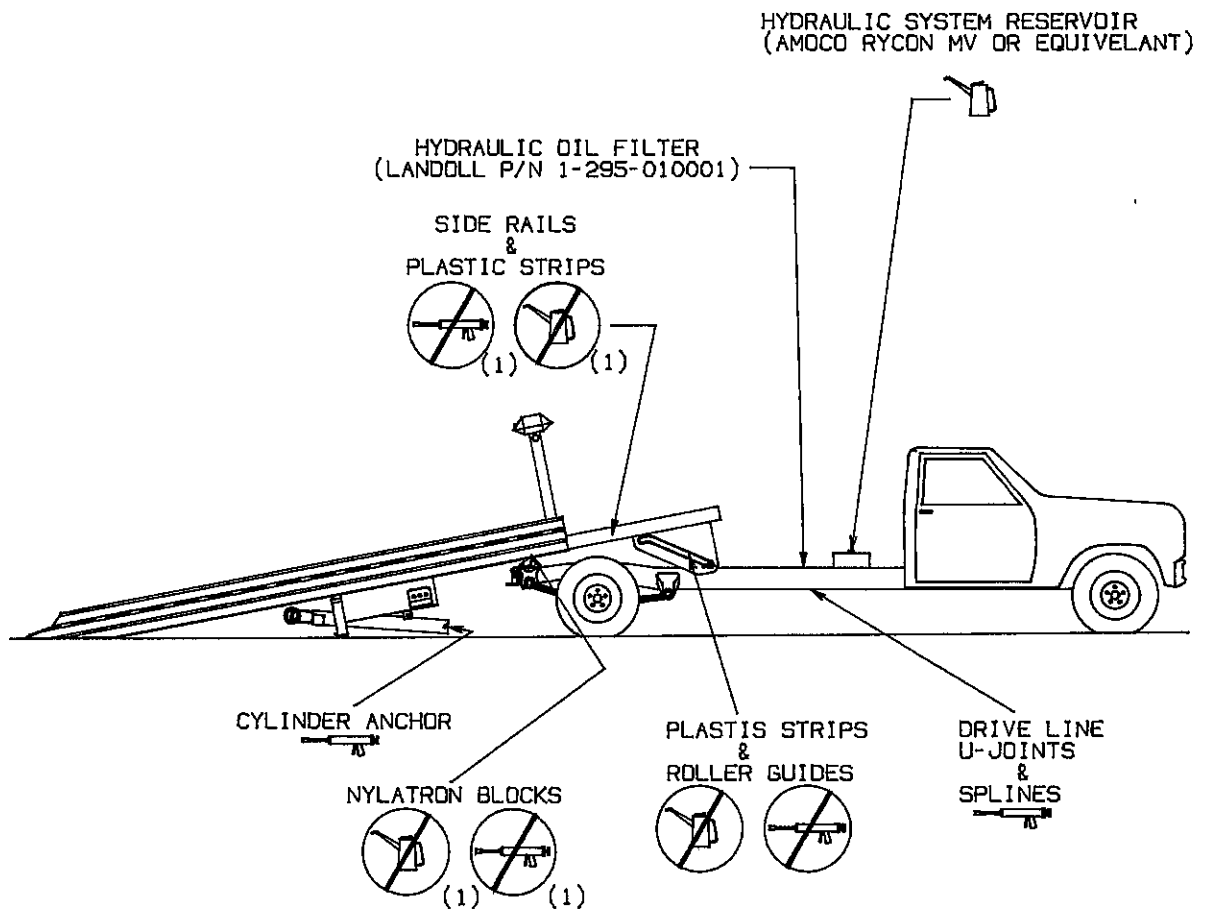
(2) USE 140 w1. GEAR LUBE

(3) SEE BOLT TORQUE CHART IN THE SPECIFICATIONS SECTION OF THIS MANUAL FOR CORRECT TIGHTENING TORQUE

(4) LUBRICATE WITH CABLE LUBE OR CABLE GREASE

(5) SEE INCOMPLETE CERTIFICATION STICKER ON DRIVERS SIDE DOOR JAMB FOR PROPER INFLATION

LUBRICATION	
GREASE 	 DO NOT GREASE
OIL 	 DO NOT OIL



(1) THE NYLATRON AND PLASTIC STRIPS ARE INPREGNATED WITH A SPECIAL LUBRICANT - THUS THEY ARE SELF LUBRICATING. IF CHATTER OR SQUEEL OCCURS, USE SILICONE DRY SPRAY ONLY

SECTION 8

TROUBLE SHOOTING

8-1 HYDRAULIC SYSTEM

Most hydraulic system failures follow the same pattern: a gradual or sudden loss of pressure or flow with a resulting loss of cylinder or motor power. Any one of the system's components may be at fault. By following step-by-step procedures, the trouble can be located in a short time.

SYMPTOM	PROBLEM	CHECK POINT / REMEDY
SYSTEM INOPERATIVE	-Not enough oil in system	Fill, check for leaks
	-Wrong oil in system	change oil, see specifications.
	-Filter dirty or clogged	Drain oil and replace filter.
	-Oil line restrictions	Oil lines dirty or collapsed. Clean or replace as necessary.
	-Air leaks in pump suction line	Repair or replace as necessary.
	-Worn or dirty pump	clean, repair or replace. Check for contaminated oil. Drain and flush.
	-Badly worn components	Examine for internal leakage. Replace faulty components. Check for cause of wear.
	-Leakage	Check all components, especially the relief valve for proper settings.
	-Excessive load	Check unit specifications for load limits.
	-Slipping or broken pump drive	Repair or replace belts, couplings, etc. Check for proper alignment or tension.
SYSTEM OPERATES ERRATICALLY	-Air in the system	Check suction side of system for leaks. Repair.
	-Cold oil	Allow ample warm-up time. Use proper weight oil for operating temperature.

	-Dirty or damaged components	Clean or repair as needed.
	-Restriction in filters or lines	Clean and/or replace filter or lines.
SYSTEM OPERATES SLOWLY	-Oil viscosity too high, or "cold oil"	Allow oil to warm up before operating.
	-Low pump drive speed	Increase engine speed (check manual for specs)
	-Low oil level	Check reservoir and add oil as necessary.
	-Air in system	Check suction side for leaks. Repair.
	-Badly worn pump, valves, cylinders, etc.	repair or replace faulty component(s) as necessary
	-Restrictions in lines or filter	Clean and/or replace filter or lines.
	-Improper adjustments	Check orifices, relief valves, etc. Adjust as necessary.
	-Oil leaks	Tighten fittings. Replace seals, gaskets and damaged lines.
SYSTEM OPERATES TOO FAST	-Wrong size or incorrectly adjusted restrictor	Replace or adjust as necessary.
	-Engine running too fast	Reduce engine speed.
OVER HEATING OF OIL IN SYSTEM	-Oil passing thru relief valve for excessive time	Return control valve to neutral when not in use.
	-Incorrect, low, dirty oil	Use recommended oil. Fill reservoir with clean oil.
	-Engine running too fast	Replace filter
	-Excessive component internal leakage	Reduce engine speed.
	-Restriction in filters or lines	Repair or replace component as necessary.
	-Insufficient heat radiation	Clean and/or replace filter or lines.
	-Malfunctioning component	Clean dirt and mud from reservoir and components.
		Repair or replace.
FOAMING OF OIL	-Incorrect, low, dirty oil	Replace, clean or add oil as needed.
	-Air leaks	Check suction line and component seals for suction leaks. Replace.

NOISY PUMP	-Low, incorrect, foamy oil	Replace, clean, or add oil as needed.
	-Suction line plugged	Clean out obstruction or replace line. Flush system, replace filter.
LEAKY PUMP	-Damaged or worn shaft seal	Replace. Check for misalignment.
	-Loose or broken parts	Tighten or replace.
CYLINDERS OR WINCH MOVE WITH CONTROL VALVE IN NEUTRAL	-Leaking cylinder seals or fittings	Replace worn seals or fittings.
	-Control valve not centering when released	Check linkage. Check for spool binding. Repair.
	-Control valve worn, leaking internally	Repair or replace as necessary.
CONTROL VALVE STICKY, BINDING	-Valve linkage misaligned	Realign linkage or replace worn parts.
	-Mounting bolts too tight	Loosen as necessary.
	-Valve damaged	Repair or replace.
CONTROL VALVE LEAKS	-Seals damaged or worn	Replace.
CYLINDER LEAKS	-Seals worn or damaged	Replace.
	-Rod damaged	Replace.
LONG CYLINDER DOES NOT FUNCTION OR CREEPS WITH PTO DISENGAGED	-Leaking cylinder seals or fittings	Tighten loose fittings. Replace worn seals or fittings.
	-Piloted check valve	Replace.

8-2 HYDRAULIC PRESSURE TESTING

8-2.1 SET-UP

With the Loadoll unloaded, instal a 0 to _000 PSI pressure gauge between the pump pressure hose and the 3-spool valve, "IN" port using a "T" fitting and close pipe nipple.

8-2.2 TESTING

1. Start vehicle engine and operate the PTO. Check pressure without operating any function.

From 25 to 125 PSI: NORMAL

Greater than 125 PSI: Restriction in valve, filter or plumbing.

Less than 25 PSI: Weak pump or restriction in pressure line.

NOTE: If step 1 indicates normal pressures, proceed to step 2. Step 1 pressures must be normal for the following tests!

2. Run the bed forward to the transport position. Hold the valve in the "BED ON" position to cause hydraulic oil to go through the pressure relief valve. Read pressure, then return the control valve to neutral. Do the same test on the tilt cylinder checking in the transport position.

From 1800 to 2200 PSI: NORMAL
Greater than 2200 PSI: PRESSURE RELIEF SET TOO HIGH
 PRESSURE RELIEF VALVE MALFUNCTIONING
Less than 1800 PSI: INTERNAL CYLINDER LEAK (1)
 PRESSURE RELIEF VALVE SET TOO LOW (2)
 WEAK PUMP (2)

- (1) Is the problem if one cylinder is at the normal pressure and the other is at a lower pressure
- (2) Is the problem if both cylinders shows the same pressure.

3. Run the tilt cylinder till the bumper almost touches the ground. Return the cylinder to the transport position. Check pressures while the bed is tilting.

From 1000 to 2200 PSI: NORMAL
Greater than 2200 PSI: RESTRICTION IN RETURN HOSES OR CYLINDER.
 BINDING CYLINDER
 BINDING TILT MECHANISM
Less than 1000 PSI: WEAK PUMP
 PRESSURE HOSE RESTRICTION
 INTERNAL CYLINDER LEAK

4. Slide the bed cylinder back and then forward. Check pressures while the bed is moving OUT. The following pressures are with the bed installed.

From 300 to 700 PSI: NORMAL (moving bed OUT) (moving IN = 800-1200)
Greater than 700 PSI: RESTRICTION IN RETURN HOSES OR CYLINDER.
 BINDING CYLINDER
 BINDING SLIDE MECHANISM
Less than 200 PSI: WEAK PUMP
 PRESSURE HOSE RESTRICTION
 INTERNAL CYLINDER LEAK

5. Unhook the winch cable and lay loosely on the bed. Operate the winch both directions. Check pressures while the winch is operating.

From 800 to 1200 PSI: NORMAL
Greater than 1200 PSI: RESTRICTION IN RETURN HOSES OR WINCH MOTOR.
 BINDING WINCH MOTOR
 BINDING WINCH GEARS OR DRUM
Less than 800 PSI: WEAK PUMP
 PRESSURE HOSE RESTRICTION
 INTERNAL MOTOR LEAK

8-3 ELECTRICAL

Most electrical system problems show up as a burned out light, fuse, or inoperative electrical component. Wiring, grounds, or components may be at fault. Locate the symptom on in this section that best identifies your electrical problem. Check out each possible problem under that symptom. If the problem can not be located, see an automotive electrical specialist.

FUSE BLOW-OUT or CIRCUIT BREAKER TRIPPING

-Vibration

Replace fuse and try all accessories. If fuse blows right away, locate short.

-Short circuit

Locate bare wire contacting ground.

LAMP BULB BURN OUT

-Vibration

Locate source of vibration and repair.

-Loose connection

Check lamp sockets. Check ground connections.

-Intermittent short

Locate short and repair.

-Improper voltage

Check voltage regulator output.

EMERGENCY LIGHTS

-All lights out

30 amp Circuit breaker. Wiring from circuit breaker to switch panel.

-Some lights do not work

Fuse blown. Lamp burned out. Bad ground. Switch.

REMOTE CONTROL WINCH

-Does not operate

Blown fuse. Wire broke. Defective switch. Bad ground.

-Operates 1 way only

Wire broken. Defective switch. Wired wrong, see schematic.

-Operates wrong direction

Wires on wrong solenoid. Switch wires around.

8-4 MECHANICAL

Your Loadoll is designed for minimal mechanical maintenance. Most mechanically related problems are due to excessive loads, extreme conditions, and improper maintenance. Mechanical system problems can be easily detected and solved by following the guide following.

BED	-Bed chatters or squeals when sliding	Rough slide channels, smooth up. Lubricate with DRY SILICONE ONLY
VIBRATIONS WHILE DRIVING	-Wheels	Wheels loose or bent-tighten or replace. Mud in wheels-clean out. Tire(s) out of balance-balance tires. Front end alignment-realign.
	-Drive shaft	Drive shaft out of balance, misaligned, or out of phase - balance, align, and properly orient U-joints.
PIVOT BLOCK	-Rapid pivot block wear	Rough spot in slide channel - smooth out. Greased with heavy grease - remove heavy grease and lubricate with DRY SILICONE ONLY.
	-Pivot block breakage	Over weight loads on rough jouncy roads-check specs. for weight limits.
BED SLIDE STRIPS	-Rapid wear	Rough spots on sub-frame or bed slide channel-smooth up. Greased with heavy grease - remove grease and lube with DRY SILICONE ONLY.
ROLLER TRACK PLASTIC STRIPS	-Rapid wear of roller track plastic wear strips	Rough spots on chassis frame - smooth up. Greased with heavy grease - remove grease and lube with DRY SILICONE ONLY.

SECTION 9
ILLUSTRATED PARTS

CHASSIS AND FRAME	36
FORD FUEL TANK FILLERS	40
HAND THROTTLE	41
HYDRAULICS	42
HYDRAULIC PUMP	44
1 & 3 SPOOL VALVES	45
VALVE LINKAGE (3 SPOOL)	47
TILT CYLINDER	48
BED SLIDE CYLINDER	49
WINCH HYDRAULIC MOTOR	50
TOW-BAR HYDRAULICS	51
TOW-BAR CYLINDER	52
WINCH REMOTE CONTROL	53
BED ASSEMBLY	55
WORM GEAR WINCH	58
ELECTRICAL - CHASSIS	60
ELECTRICAL - BED	62
CAB SWITCH PANEL	64

chassis and sub-frame parts drawing IS ON A4 11 X 17 SHEET

Please Reduce to fit on an STD 8½ X 11 Page.

CHASSIS STRETCH AND SUB-FRAME PARTS LIST

ITEM	PART NUMBER	QTY		DESCRIPTION
		F	C	
1	3-266-010004	1		FORD DRIVE TRAIN EXTENSION
	3-266-010001		1	CHEVY DRIVE TRAIN EXTENSION
2	3-563-010001	1		PIPE, FORD 30 INCH EXHAUST
	RRT226X30		1	PIPE, CHEVY 30 INCH EXHAUST
3	3-320-010001	2		FORD EXHAUST GASKET
4	3/8-16HFLN	4		FORD HEX LOCK NUT
5	3/8-16X1-1/4CS	4		FORD HEX HEAD CAP SCREW
6	1/2-13HFLN	2	2	HEX LOCK NUT
7	3-311-011821	1		BEARING SUPPORT - FORD
	3-311-011821		3	BEARING SUPPORT - CHEVY
8	1/2-13X1-1/2CS	2		FORD HEX HEAD CAP SCREW
	1/2-13X2-1/2CS		2	CHEVY HEX HEAD CAP SCREW
9	BSL-6-4	4	4	RIVET- TOOL COMP LATCH
10	1-DSL LATCH	1	1	LATCH
11	1/2-13X1-1/2CS	4		FORD - HEX HEAD CAP SCREW
	1/2-13X2-1/2HCS		2	CHEVY - HEX HEAD CAP SCREW
12	1-822-010002114	1	1	TRIM-LOC
13	3-115-010039	1		FORD TOOL BOX LEFT
	3-115-010041		1	CHEVY TOOL BOX LEFT
14	1/2-13HFLN	4	4	HEX LOCK NUT
15	105-0105	8	8	HOSE CLAMP
16	1-316-010001252	1	1	FUEL HOSE 5/16
17	1-316-010002252	1	1	FUEL HOSE 3/8
18	RSP953X3DX4M	1		FORD ONLY - PLATE
19	3-158-010015	1		FORD - BRAKE LINE
	3-158-010016		1	CHEVY - BRAKE LINE
20	3-158-010004	1		FORD - BRAKE LINE UNION
	3-158-010007		1	CHEVY - BRAKE LINE UNION
21	3-158-010001	1	1	EMERGENCY BRAKE CABLE EXT
22	1/2-13X3-1/2CS	1		FORD ONLY - HEX HEAD CAP SCREW
23	3-311-013060	1		FORD REAR BEARING SPACER
24	1/2-13HFLN	2	2	HEX LOCK NUT
25	3-158-010002	1		FORD - EMERGENCY BRAKE CABLE CLIP
	3-158-010002		2	CHEVY - EMERGENCY BRAKE CABLE CLIP
26	3-311-012903	1		FORD ONLY - FRONT FUEL FILLER MTG BRKT
27	3-311-013590	1		FORD ONLY - REAR FUEL FILLER MTG BRKT
28	77782MM94720X2	1		FORD ONLY - HINGE

CHASSIS STRETCH AND SUB-FRAME PARTS LIST

ITEM	PART NUMBER	QTY		DESCRIPTION
		F O R D	C H E V Y	
29	3/8-16X2-1/2CS	3		FORD ONLY - HEX HEAD CAP SCREW
30	3/8FW	6		FORD ONLY - FLAT WASHER
31	RRT131X1.125	3		FORD ONLY - SPACER
32	3/8-16HFLN	3		FORD ONLY - HEX LOCK NUT
33	3-311-013598	1		FORD - FRAME END Z WELDMENT
	3-311-013713		1	CHEVY-FRAME END Z WLDMT: INCLUDES #51, #70, 71.
34	3-485-010001	2	2	MUD FLAP
35	2-557-010006	1	1	PIN, CYLINDER ANCHOR
36	1-557-010014	2	2	HAIR PIN
37	2-557-010097	2	2	PIN, TOW-BAR ASSEMBLY MOUNTING
38	1-8 X 6 C 5	1	1	HEX HEAD CAP SCREW
39	3-375-010311	1	1	RUBBER RING TOWBAR WELDMENT
40	1-8HFLN	1	1	HEX LOCK NUT
41	3-375-010308	1	1	OUTER TUBE TOWBAR WELDMENT
42	3-375-010309	1	1	INNER TUBE TOWBAR WELDMENT
43	3-242-010063	1	1	CYLINDER ASSY
44	3/8-16X3HHCS	8	8	HEX HEAD CAP SCREW
45	3/8FW	8	8	FLAT WASHER
46	3-762-010017	2	2	CLAMP, MUD FLAP
47	3/8-16HFLN	8	8	HEX LOCK NUT
48	3-311-013575	2	2	SLIDE/PIVOT BLOCK
49	3-311-013599	1	1	FRAME, MAIN WELDMENT
NYLATRON GUIDES FOR FRAMES WITH A STEEL BED				
	3-311-011774	1	1	7" LONG GUIDE FOR STEEL BED (back bottom)
	3-311-011775	1	1	24" GUIDE FOR STEEL BED (back top)
	3-311-011776	4	4	48" GUIDE FOR STL BED (front top & bottom)
	3-311-011777	4	4	8-1/2" GUIDE FOR STL BED (middle top & bottom)
	5/16-18X1-1/4	38	38	HEX SOCKET FLAT HEAD CAP SCREW
50	3-311-013579	1	1	ROD SUPPORT CAM
51	3-076-010016	2	2	CAM FOLLOWER
52	3-311-013580	2	2	WASHER CAM FOLLOWING
53	5/8-11HFN	2	2	HEX NUT
54	3-311-013597	1		FORD - SUPPORT CAM FOLLOWER WELDMENT
			1	CHEVY - PART OF END Z-PLATE ASSEMBLY ITEM #33.
55	3-311-013596	1		FRAME STRETCH - FORD WLDM'T
	3-311-013706		1	FRAME STRETCH - CHEVY WLDM'T

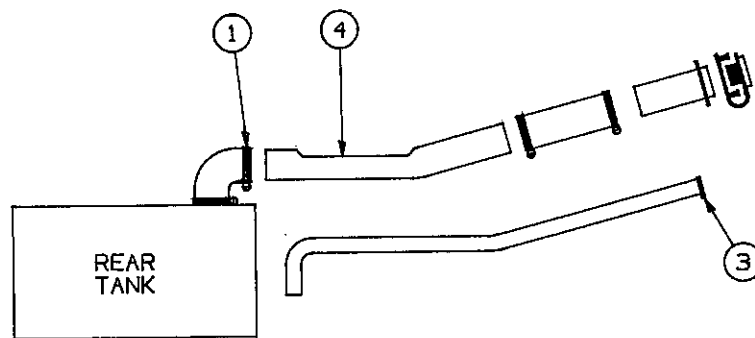
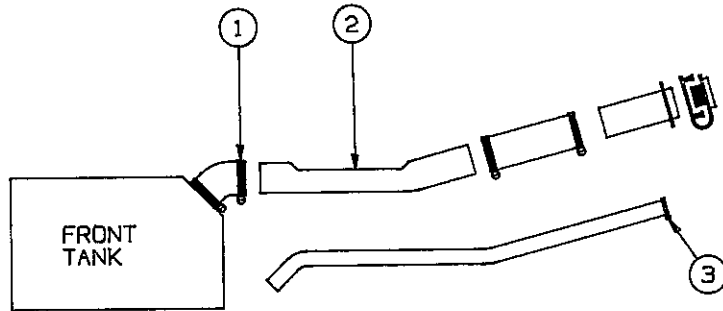
CHASSIS STRETCH AND SUB-FRAME PARTS LIST

ITEM	PART NUMBER	QTY		DESCRIPTION
		F	C	
		O	H	
		R	E	
		D	V	
			Y	
56	3-162-010001	1	1	FILLER BREATHER STRAINER ASSEMBLY
57	3-311-013587	2	2	STOP FRAME, NOTCHED
58	3-115-010040	1		FORD TOOL BOX RT BOLT-ON
	3-115-010042		1	CHEVY TOOL BOX RT BOLT-ON
59	5/16-18X1-1/4	6	6	HEX SOCKET FLAT HEAD SCREW
60	3-311-013602	2	2	PROTECTOR, FRAME SLIDE
61	5/16-18HFN	6	6	HEX NUT
62	5/8-11X4-1/2CS	4	4	HEX HEAD BOLT
63	5/8-11HFN	4	4	HEX NUT
64	3-242-010044	1	1	HYDRAULIC CYLINDER
65	3-311-013595	1	1	VALVE COMPARTMENT WELDMENT
66	1-1/2-12 JN	2	2	JAM NUT
67	190400004	2	2	CYLINDER PIN
68	190400002	2	2	HAIR PIN
69	3-242-010085	1	2	HYDRAULIC CYLINDER
70	3-177-010010		1	CHEVY - FRAME STIFFENER, R.H.
71	3-177-010009		1	CHEVY - FRAME STIFFENER, L.H.

* Part of the rear Z-plate assembly item 33.

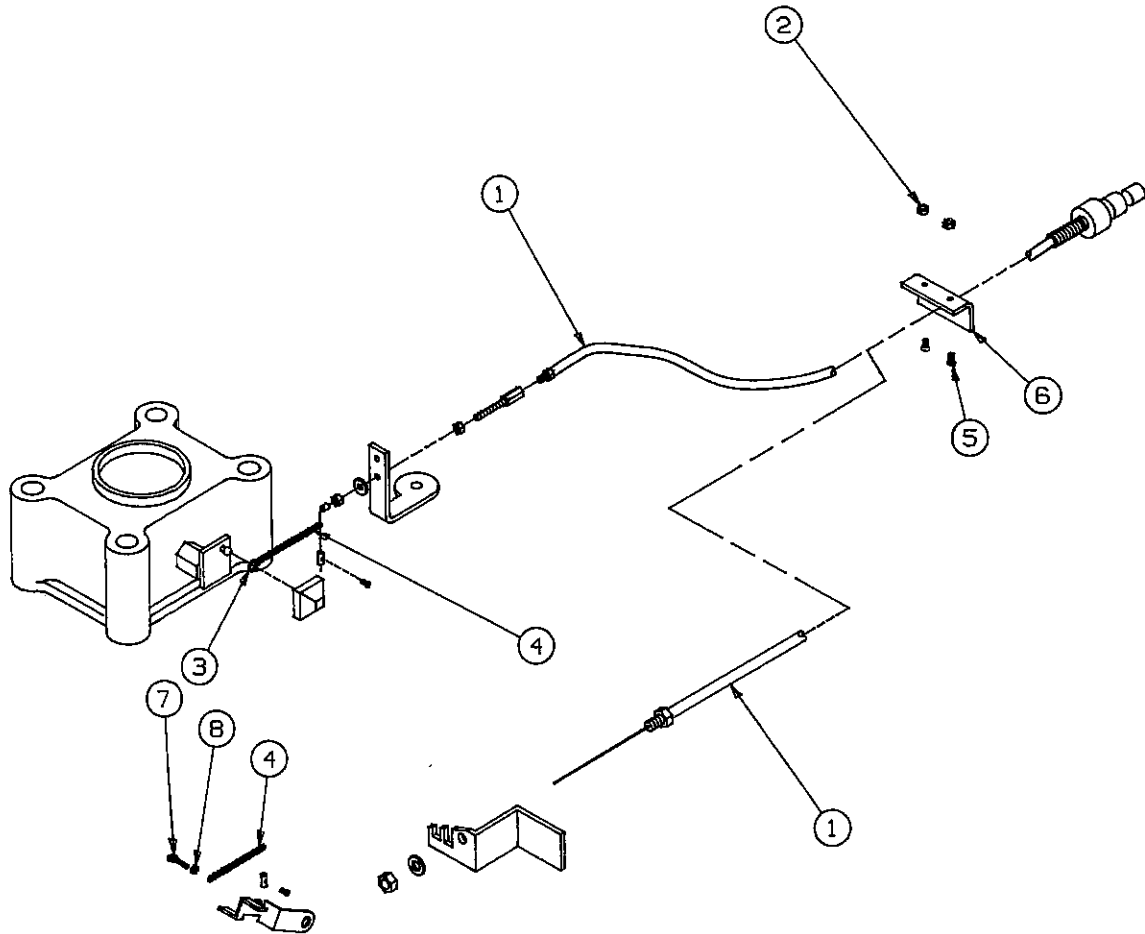
FORD FUEL TANK FILLER

PARTS LIST



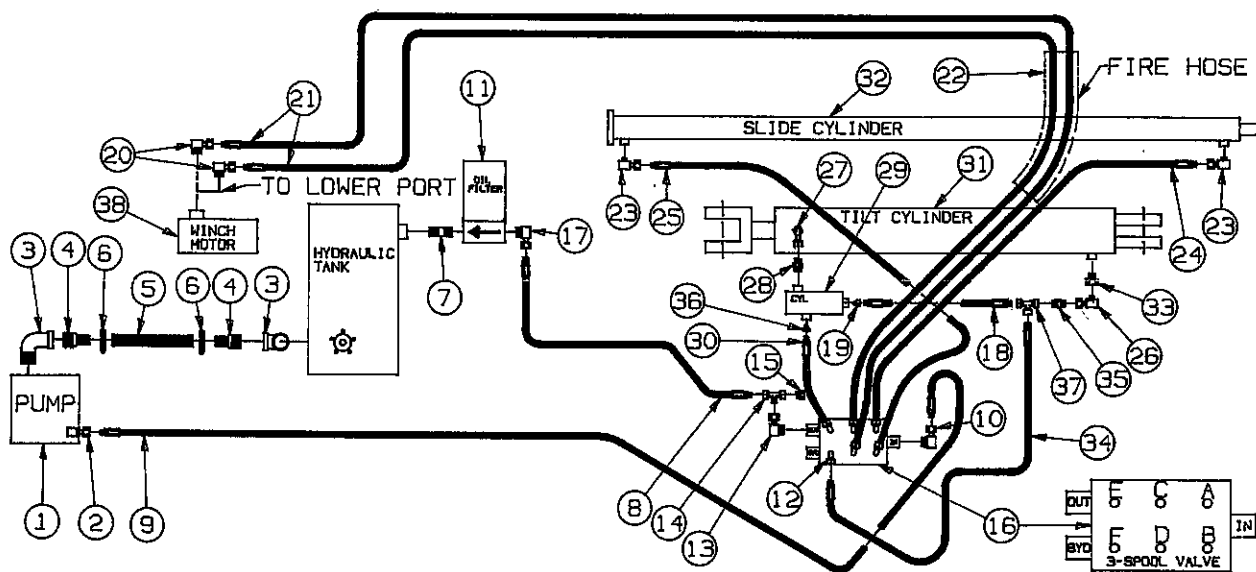
ITEM	PART NUMBER	QTY	DESCRIPTION
1	105-0102	4ea	HOSE CLAMP
2	3-316-010010	1	FILLER TUBE FRONT TANK
3	6206	1ea	HOSE CLAMP
4	3-316-010007	1	FILLER TUBE BACK TANK

HAND THROTTLE PARTS LIST



ITEM	PART NUMBER	QTY	DESCRIPTION
GAS AND DIESEL MODELS:			
1	3-155-010001	1	THROTTLE CABLE
2	3/16-24HFN	2	HEX NUT
4	3-174-010013004	1	CHAIN
5	3/16X3/4RHDSTV	2	ROUND HEAD STOVE BOLT
6	3-272-010007	1	BRACKET, THROTTLE CABLE
GAS MODELS ONLY:			
3	32005	1	1/4 INCH ELECTRICAL RING TERMINAL
DIESEL MODELS ONLY:			
7	1/8X1	1	COTTER PIN
8	1/8FW	1	FLAT WASHER

HYDRAULICS PARTS LIST



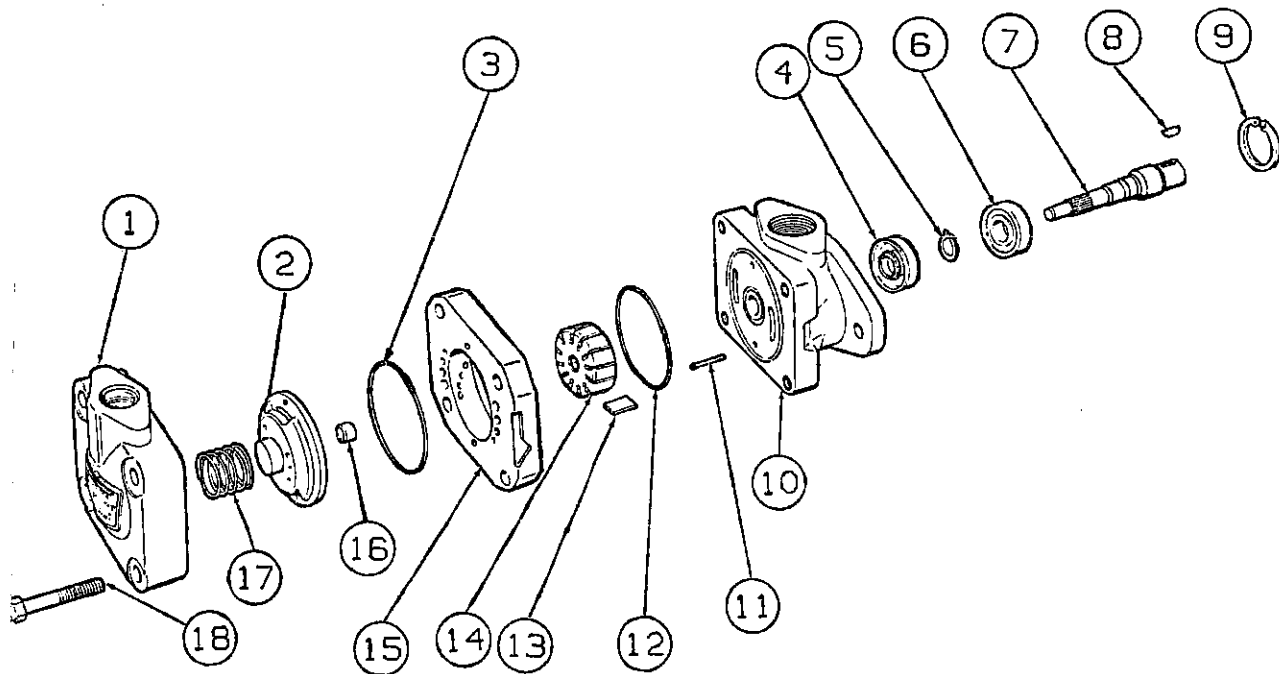
ITEM	PART NUMBER	QTY	DESCRIPTION
1	3-595-010001	1	HYDRAULIC PUMP
2	1-007-010013	1	90°, ADAPTER
3	1-1/4ST ELL	2	90°, ADAPTER
4	3-561-010001	2	HOSE ADAPTER
5	3-399-010001054	1	FORD SUCTION HOSE, (w/ transmission mounted PTO)
	3-399-010001084	1	CHEVY SUCTION HOSE, (w/ transmission mounted PTO)
6	6828	2	HOSE CLAMP
7	3/4NIPPLE	1	NIPPLE
8	3-397-010181	1	FORD HOSE ASSEMBLY
	3-397-010030	1	CHEVY HOSE ASSEMBLY
9	3-397-010125	1	HOSE ASSEMBLY
10	1-007-010024	1	90°, ADAPTER
11	1-295-010001	1	RETURN LINE HYDRAULIC FILTER MOUNT AND FILTER ASSY
	1-295-010002	1	REPLACEMENT HYDRAULIC FILTER
12	1-007-010007	6	90°, ADAPTER
13	1-007-010024	1	90°, ADAPTER
14	2254-8-8S	1	T, ADAPTER
15	1/2 PIPE PLUG	1	PLUG

**HYDRAULIC PARTS LIST
(CONTINUED)**

ITEM	PART NUMBER	QTY	DESCRIPTION
16	3-846-010007	1	3 SPOOL VALVE
17	3/4X1/2BUSH	1	BUSHING
18	3-397-010150	1	HOSE ASSEMBLY
19	2040-4-6S	1	REDUCER
20	1-007-010017	2	90 ⁰ , ADAPTER
21	3-397-010175	2	HOSE ASSEMBLY
22	3-395-010001072	1	FIRE HOSE
23	2047-6-6S	2	90 ⁰ , ADAPTER
24	3-397-010130	1	HOSE ASSEMBLY
25	3-397-010127	1	HOSE ASSEMBLY
26	1-007-010005	1	90 ⁰ , ADAPTER
27	1-007-010008	1	90 ⁰ , ADAPTER
28	2083-8-8S	1	NIPPLE
29	3-846-010026	1	VALVE, CHECK
30	3-397-010129	1	HOSE ASSEMBLY
31	3-242-010085	1	HYDRAULIC CYLINDER, TILT
32	3-242-010044	1	HYDRAULIC CYLINDER, BED SLIDE
33	2216-6-8S	1	ADAPTER
34	3-397-010128	1	HOSE ASSEMBLY
35	2083-6-6S	1	HYD PIPE NIPPLE
36	2045-6-8S	1	ADAPTER
37	2255-6-6S	1	T, ADAPTER
38	3-481-010002	1	HYDRULIC WINCH MOTOR

3-595-010001

PUMP REPLACEMENT PARTS

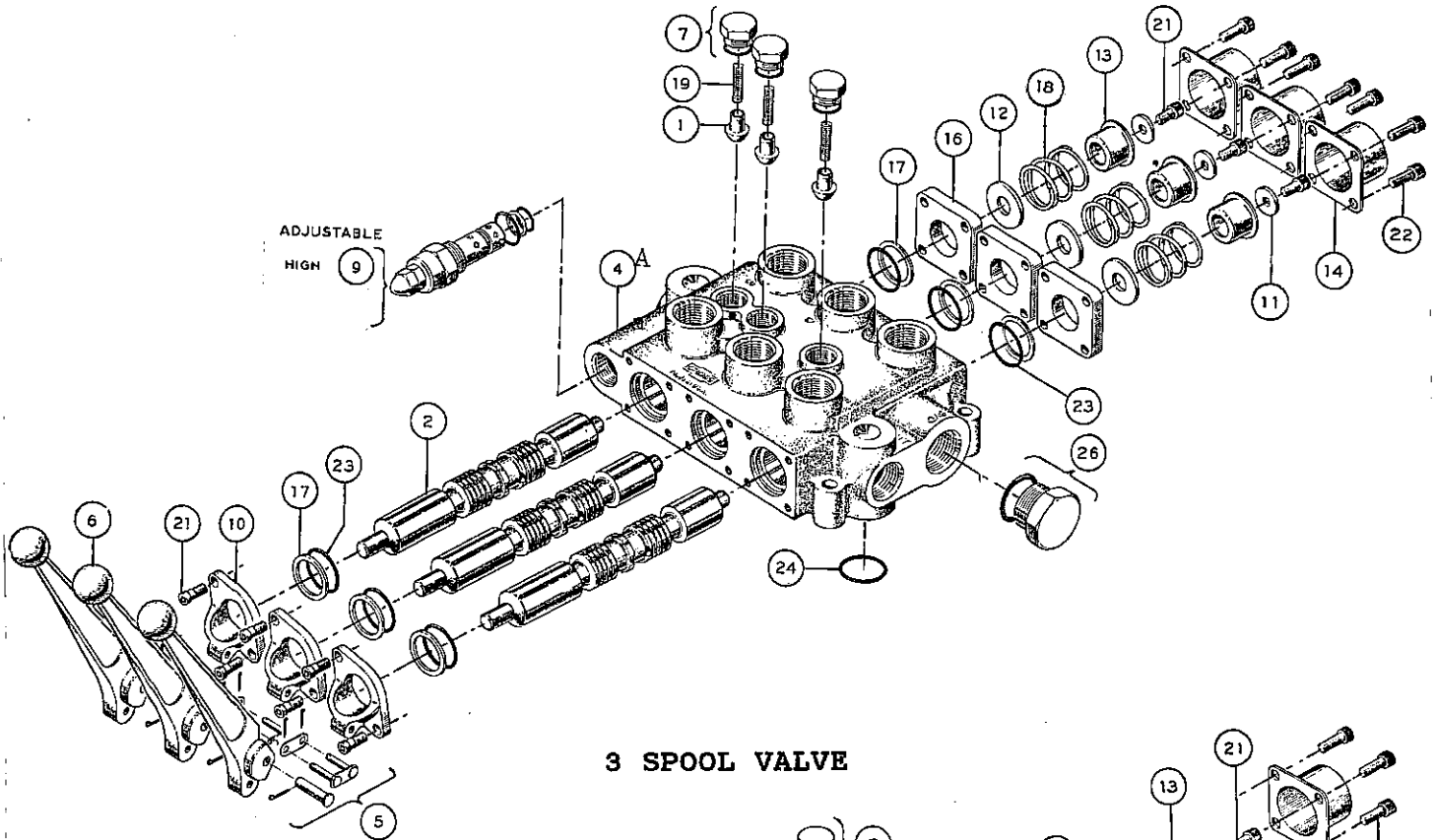


ITEM	PART NUMBER	QTY	DESCRIPTION
1	31-2657	1	COVER
2	359287	1	PRESSURE PLATE S/A
3	* # 154090	1	O-RING
4	* 229235	1	SEAL
5	98653	1	RETAINING RING
6	98574	1	BEARING
7	280372	1	SHAFT, STRAIGHT
8	5881	1	KEY
9	109975	1	RETAINING RING
10	280689	1	BODY
11	9603	2	PIN
12	* # 154090	1	O-RING
13	# 923479	1	VANE KIT (12 VANES)
14	# 358334	1	ROTOR
15	# 331807	1	RING
16	280267	1	BUSHING
17	28422	1	SPRING
18	1319	4	SCREW (Torque to 80 ± 5 Ft. Lbs.)
*	922733	1	SEAL KIT (Includes items marked with an *)
#	923487	1	CARTRIDGE KIT (Includes items marked with an #)

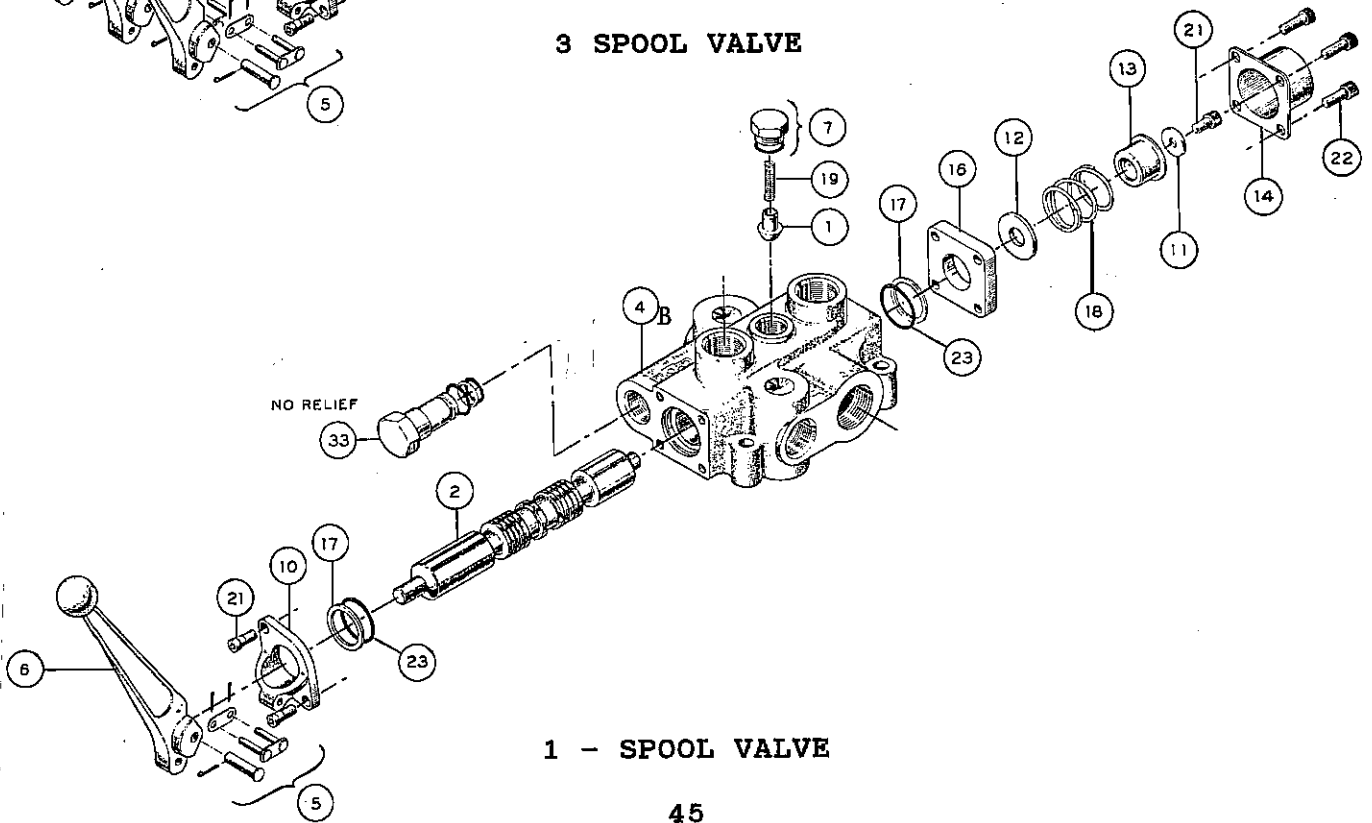
3-SPOOL VALVE 3-846-010007

1-SPOOL VALVE BA11AD00AO

CONTROL VALVES REPLACEMENT PARTS



3 SPOOL VALVE



1 - SPOOL VALVE

3-SPOOL VALVE 3-846-010007

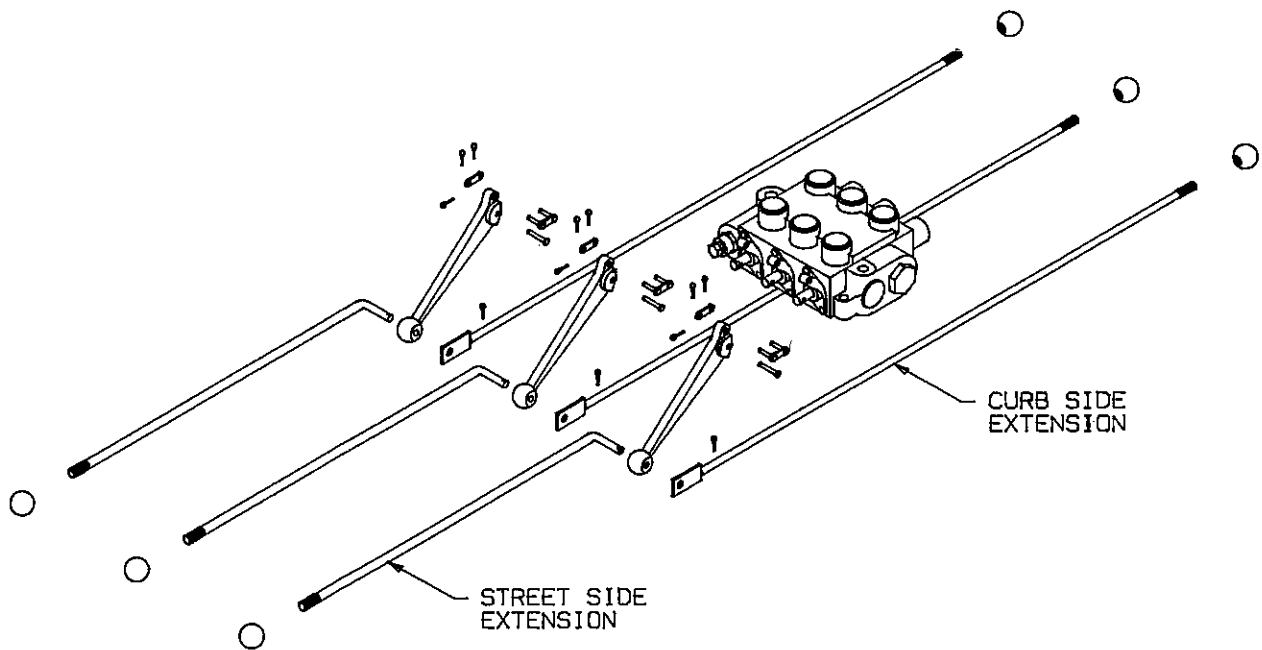
1-SPOOL VALVE BA11AD00A0

CONTROL VALVES REPLACEMENT PARTS

ITEM	PART NUMBER	3 & 1 SPOOL VALVE		DESCRIPTION
		QTY	QTY	
1	1V0081	3	1	LOAD CHECK POPPET
2	* 1V0090	3	1	4-WAY SPOOL
3				
4A	* 1V0360	1	-	VALVE HOUSING
4B	* 1V0101	-	1	VALVE HOUSING
5	1V1701	3	1	PIN KIT
6	1V1703	3	1	UNMODIFIED HANDLE
7	1V1725	3	1	LOAD CHECK PLUG
8				
9	1R0017	1	-	RELIEF ASSY (1500 - 3000)
10	4Z4306	3	1	HANDLE BRACKET
11	1A0290	3	1	CENTERING SPRING WASHER
12	1A0291	3	1	STOP WASHER
13	1A0292	3	1	STOP COLLAR
14	1A0294	3	1	END CAP
15				
16	1A0709	3	1	END SPACER
17	1A0711	6	2	O-RING SPOOL WASHER
18	1A0744	3	1	CENTERING SPRING
19	1A0757	3	1	LOAD CHECK SPRING
20				
21	2A0079-404	9	3	CAP SCREW (Torque to 7 - 11 ft. lbs.)
22	2A0079-406	12	4	CAP SCREW (Torque to 7 - 11 ft. lbs.)
23	2A0283-7214	6	2	SPOOL SEAL
24	2A0283-7214	1	-	RUBBER GROMMET (Bottom outlet)
25				
26	2A0354-121	1	1	CONVERSION PLUG ASSY
	2V0010	1	-	SEAL KIT FOR THE 3 SPOOL VALVE
	2V0008	-	1	SEAL KIT FOR THE 1 SPOOL VALVE

* SOLD AS MATCHED SET ONLY

3-SPOOL VALVE LINKAGE PARTS LIST

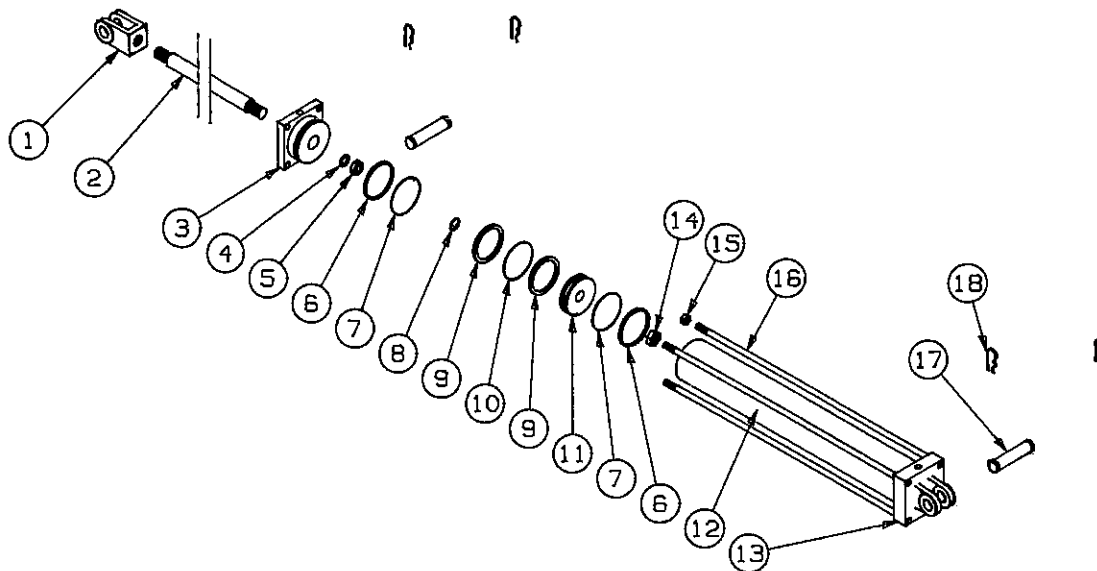


ITEM	PART NUMBER	QTY	DESCRIPTION
1	95	6	BALL KNOB
2	3-311-013584	3	LEFT SIDE ROD CONTROL
3	3-360-010008	3	MODIFIED VALVE HANDLE
4	3-311-013591	3	ROD CONTROL RIGHT SIDE
5	1V1701	3	PIN KIT
6	5/32X1-1/4	18	COTTER PIN

3-242-010085

TILT CYLINDER

PARTS LIST

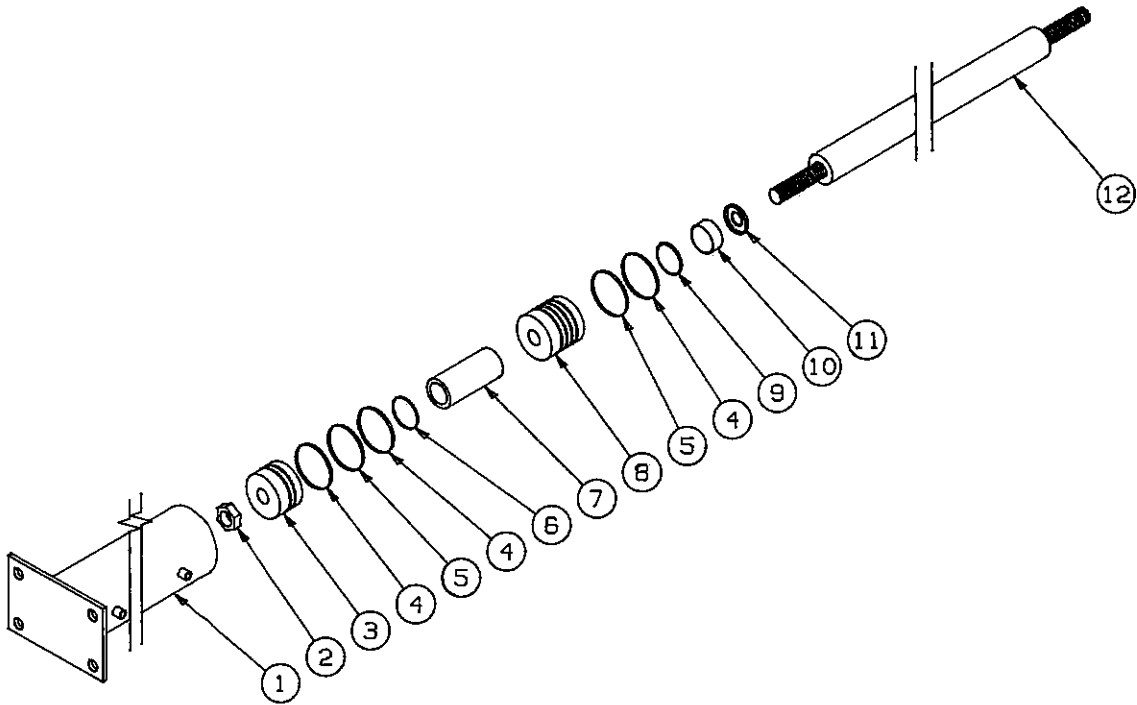


ITEM	PART NUMBER	QTY	DESCRIPTION
1	100000018	1	CLEVIS ASSEMBLY
2	010700018	1	PISTON ROD
3	081700178	1	GLAND
4	* 250001220	1	WIPER
5	* 250020106	1	U-CUP
6	* 240005236	2	BACK-UP WASHER
7	* 240000335	2	O-RING
8	* 240000018	1	O-RING
9	* 240005338	2	BACK-UP WASHER
10	* 240000338	1	O-RING
11	071700005	1	PISTON
12	051700016	1	TUBE
13	141700023	1	BUTT
14	220000208	1	HEX LOCK NUT (3/4-16)
15	220000105	4	HEX NUT
16	170201281	1	TIE ROD
17	190400001	2	CLEVIS PIN
18	190600003	4	HAIR PIN
	PMCK-9300	1	PACKING KIT (Includes items marked *)

3-242-010044

BED SLIDE CYLINDER

PARTS LIST

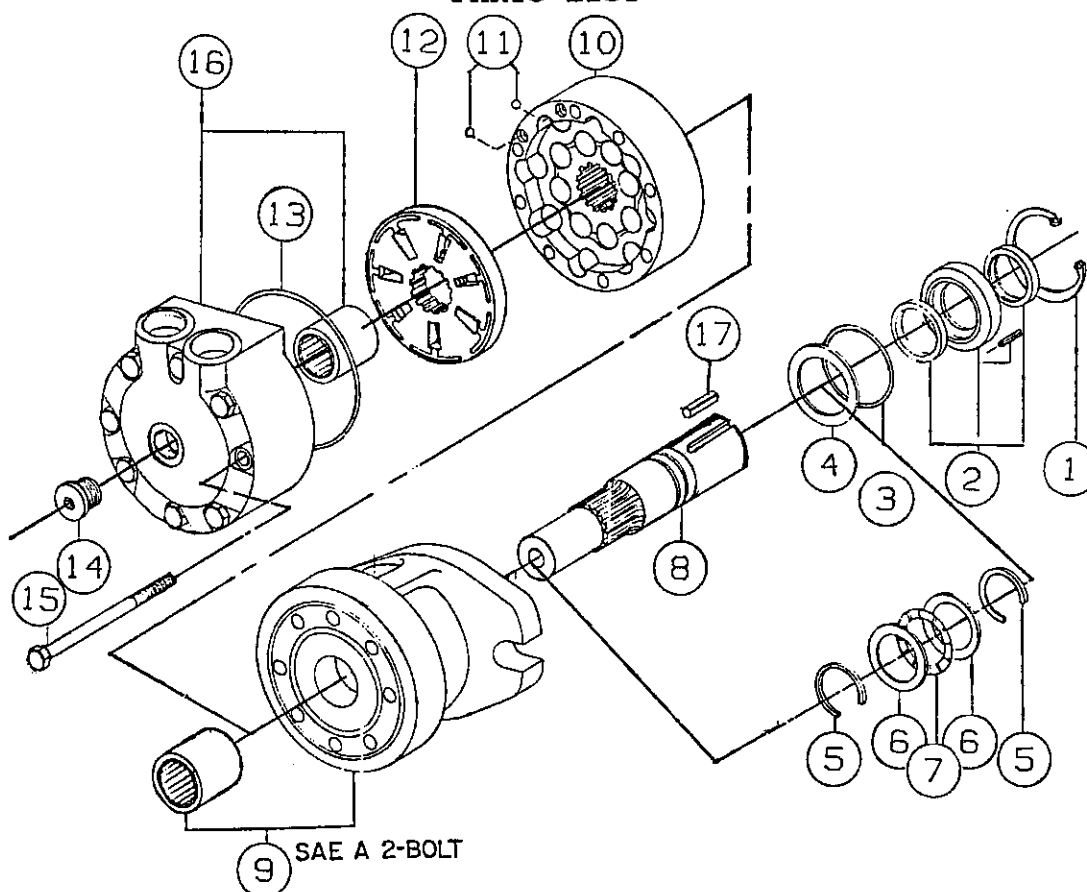


ITEM	PART NUMBER	QTY	DESCRIPTION
1	061700305	1	BUTT & TUBE ASSEMBLY
2	220000213	1	LOCK NUT
3	071700130	1	PISTON
4	* 240005338	3	BACK-UP WASHER
5	* 240000338	2	O-RING
6	* 240000028	1	O-RING
7	211100200	1	SPACER
8	081700035	1	GLAND
9	* 230007350	1	SQUAR RETAINER RING
10	* 240020007	1	U-CUP
11	* 250001327	1	WIPER
12	011000256	1	PISTON ROD
	3-242-010046	1	PACKING KIT (Includes items marked *)

3-481-010002

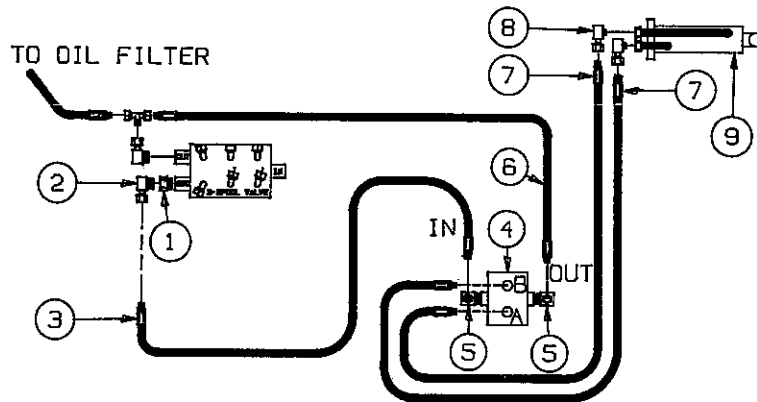
WINCH HYDRAULIC MOTOR

PARTS LIST



ITEM	PART NUMBER	QTY	DESCRIPTION
1	1031	1	SNAP RING
2	1460	1	SEAL RETAINER ASSEMBLY
	1463	1	VITON SEAL RETAINER ASSEMBLY
3	1060-29	1	O-RING SEAL
4	1022	1	SPACER
5	1030	2	SNAP RING
6	1058	2	THRUST WASHER
7	1059	1	THRUST BEARING
8	1001-X	1	SHAFT, 1.00 KEYED
9	1188-1	1	BODY/BEARING ASSEMBLY, 2 BOLT
10	1004-1	1	IGR ASSEMBLY W/RING 7110 - 3.6 cu.in./REV
11	1021	2	CHECK BALL .25
12	1007	1	ROTARY VLAVE 7110
13	1046	2	SQUARE RING SEAL 046
14	1019-4	1	VENT PLLUG W/O O-RING, 7/16
15	1014-X	8	BOLTS, HEX, 5/16-24
16	1170-1	1	COVER/BEARING ASSEMBLY SAE
17	1020-1	1	KEY, .250 x .250 x 1.00

TOW-BAR HYDRAULIC PARTS LIST

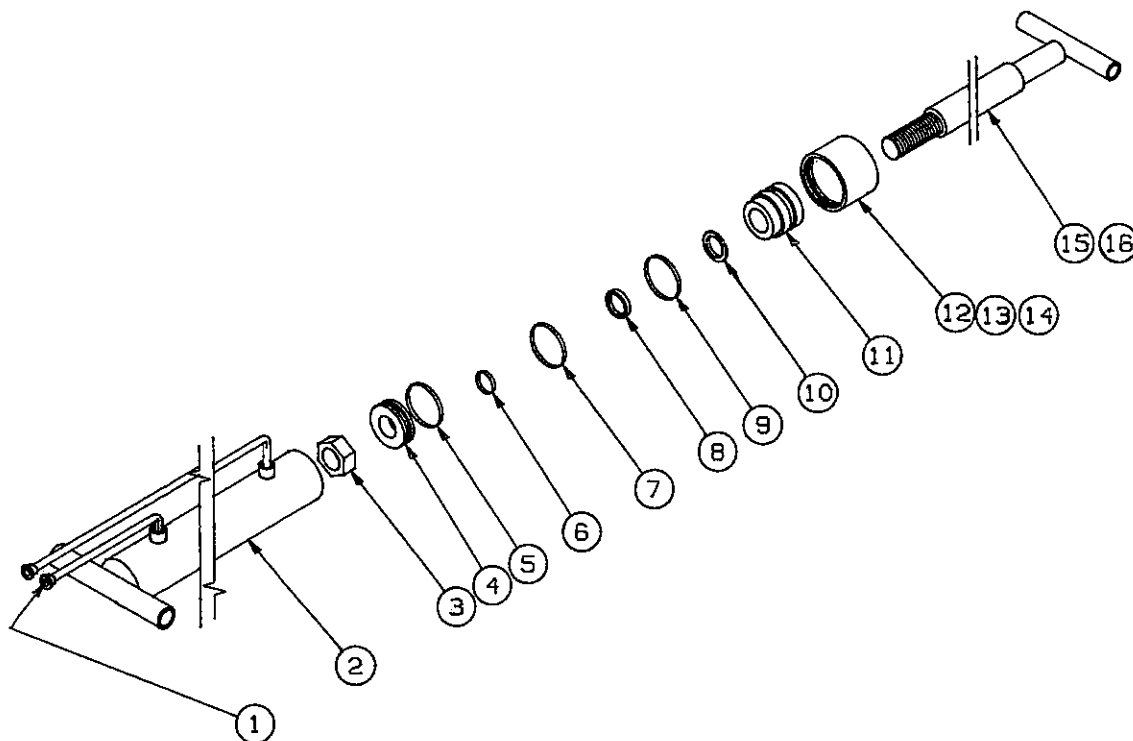


ITEM	PART NUMBER	QTY	DESCRIPTION
1	1V0208	1	ADAPTER
2	2047-8-8S	1	90° ADAPTER
3	3-397-010012	1	HOSE ASSEMBLY
4	BA11AD00AO	1	SINGLE SPOOL VALVE
5	1-007-010013	2	90° ADAPTER
6	3-397-010144	1	HOSE ASSEMBLY
7	1-397-010051	2	HOSE ASSEMBLY
8	2047-6-6S	1	90° ADAPTER
9	3-242-010063	1	HYDRAULIC CYLINDER ASSEMBLY

3-242-010063

TOW-BAR CYLINDER

PARTS LIST



ITEM	PART NUMBER	QTY	DESCRIPTION
1	NOT APPLICABLE		
2	061300375	1	BUT & TUBE ASSEMBLY
3	220000208	1	LOCK NUT
4	071300110	1	PISTON
5	* 240060330	1	CROWN SEAL
6	* 240000018	1	O-RING
7	* 240000330	1	O-RING
8	* 240020148	1	U-CUP
9	* 240061330	1	BACK-UP WASHER
10	* 250001222	1	WIPER
11	081300164	1	GLAND
12	261400002	1	GLAND CAP
13	220000707	1	SET SCREW
14	220000856	1	NYLON LOCK
15	020800156	1	PISTON ROD ASSEMBLY
16	270010016	2	GREASE ZERK
	PMCK-AE-148	1	PACKING KIT (Includes items marked *)

WINCH REMOTE CONTROL PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	3-397-010144	2	HOSE ASSEMBLY
2	2066-8-8S	4	ADAPTER
3	2047-8-8S	3	ADAPTER, 90°
4	2254-8-8S	2	TEE
5	3-397-010144	2	HOSE ASSEMBLY
6	1V0208	1	POWER BEYOND REMOTE
7	3/4X1/2BUSH	1	BUSHING
8	3-846-010009	1	VALVE, MULTI-PAK SOLENOID
9	C29-1104X	2	CONNECTOR
10	3-156-010007180	1	MULIT CONDUCTOR WIRE
11	59S7	1	TRAILER ELECT SOCKET 7 PL
12	1-879-010004420	1	WIRE, RED
13	3-318-010001	1	12 VOLT 15 AMP FUSE AGL-15
14	3-318-010002	1	FUSE HOLDER
15	3-765-010002	1	SWITCH REMOTE CONTROL ASSEMBLY
15 CONSISTS OF:			
	9001-BW73Y	1	PUSH BUTTON STATION
	DB-10	1	STRAIN RELIEF CORD CONN.
	3-156-010007480	1	MULIT CONDUCTOR WIRE
	59P8	1	TRAILER CONN PLUG

BED PARTS DRAWING

IS ON AN 11X17 SHEET

Please Reduce to fit on
a Std 8½ x 11 page

BED ASSEMBLY PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	3-793-010020	1	D RING ASSY
2	5/8-11HFLN	1	HEX LOCK NUT
3	5/8FW	2	FLAT WASHER
4	3-793-010018	1	D RING SWIVEL
5	RRT159X1.375	1	FORD SPACER
6	5/8-11X4HHCS	1	HEX HEAD CAP SCREW
7	3-080-010022	1	17ft. ALUM BED W/SIDERAILS
	3-080-010021	1	17ft. ALUM FLATBED
	3-080-010012	1	RT TOP SIDE RAIL (for flat bed)
	3-080-010013	1	LT TOP SIDE RAIL (for flat bed)
	3-080-010174	1	14ft. ALUM BED W/SIDE RAILS
	3-080-010041	1	17ft. STEEL BED W/PERMANENT BULKHEAD
8	5/8-11HFLN	4	HEX LOCK NUT
9	5/8FW	4	FLAT WASHER
10	5/8-11X2CS-5	4	HEX HEAD CAP SCREW
11	3-141-010024	1	REMOVABLE BULKHEAD ASSY (for permanent side rails)
	3-141-010019	1	BULKHEAD ASSY (for removable side rail beds)
12	3-446-010001	1	EMERGENCY LIGHT BAR AND HOOK UP KIT
13	3-120-010130	2	EMERGENCY LIGHT MOUNTING BRACKET
14 ***	-	4	CHROME ACORN NUT
15	1/2-13X5-1/2HCS	1	HEX HEAD CAP SCREW
16	1/2FW	1	WASHER
17	3-720-010010	1	SPRING COMP LEVEL WIND
18	5/8FW	2	FLAT WASHER
19	5/8-11HFLN	2	HEX LOCK NUT
20	5/8-11X2-1/2CS	2	HEX HEAD CAP SCREW
21	3-311-013068	2	WORM WINCH ANCHOR
22	5/8-11X1-1/2CS	2	HEX HEAD CAP SCREW
23	5/8-11HFLN	2	HEX LOCK NUT
24	5/8FW	2	WASHER
25	5/8FW	2	FLAT WASHER
26	5/8-11HFN	2	HEX NUT
27	1/2-13HFN	1	HEX NUT
28 *	-	1	3/8X1/2 ALLEN SOCKET SET SCREW

BED ASSEMBLY PARTS LIST
(continued)

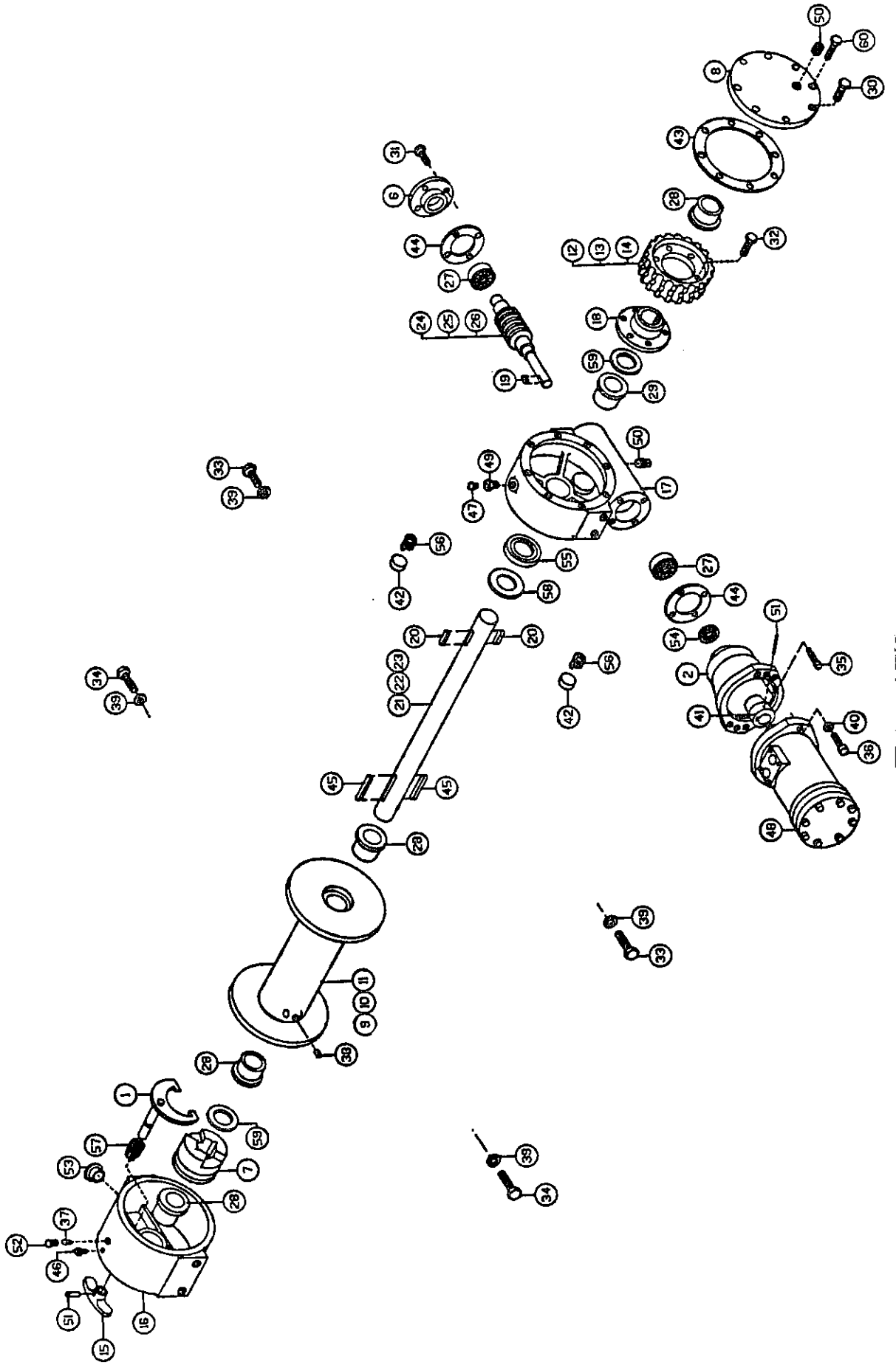
ITEM	PART NUMBER	QTY	DESCRIPTION
29	3-873-010073	1	WINCH
30 *	-	1	1/4 X 1/4 X 1 SQUARE KEY
31	3-481-010002	1	MOTOR FOR WINCH
32	1/2SLW	2	LOCK WASHER
33 *	-	2	1/2 X 3/4 HEX HEAD CAP SCREW GR5
34	1/8X1	1	PIN
35	3-382-010005	1	CABLE HOOK
36 **	-	1	1/2 X 1-1/2 PIN FOR WINCH HOOK
37	3-155-010002	1	CABLE FOR WINCH
38	3/8/16X1HHCS	8	HEX HEAD CAP SCREW
39	3/8SLW	8	LOCK WASHER
40	5/8-11X2-1/2CS	2	HEX HEAD CAP SCREW
41	3-311-013069	1	WORM WINCH MOUNT ASSEMBLY
42	3/8-16HFLN	2	HEX LOCK NUT
43	3-311-013079	1	WINCH HOSE SHIELD
44	3/8-16X1HHCS	2	HEX HEAD CAP SCREW
45	1/2-13X1-1/2CS	2	HEX HEAD CAP SCREW
46	1/2FW	2	WASHER
47	1/2-13HFLN	2	HEX LOCK NUT
48	RPRB3999X120	2	SLIDE BEARING FOR 17' & 14' BEDS
49	RPRB3999X59.875	2	SLIDE BEARING FOR 17' BED
	RPRB3999X40	2	SLIDE BEARING FOR 14' BED
50	3-174-010007	2	HOLD DOWN CHAIN ASSEMBLY
51	3-375-010264	1	ADJUSTABLE CHAIN CONNECTOR
52	SCREW#6X3/8	8	SCREW
53	98001R	2	RED REFLECTOR
54	98001Y	2	YELLOW REFLECTOR

* Parts supplied with worm winch

** Parts supplied with winch cable hook

*** Supplied with emergency light bar

WORM GEAR WINCH PARTS LIST



3-873-010073

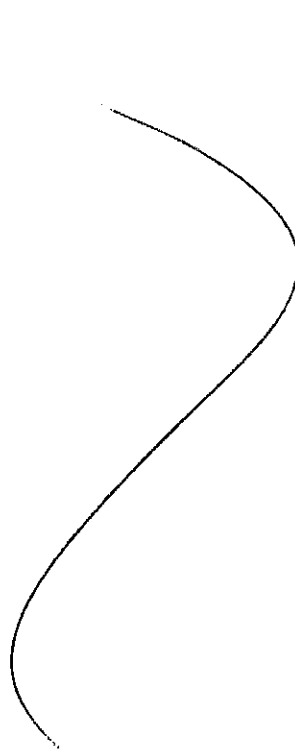
WINCH REPLACEMENT PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION
1	276028	1	SHIFTER ASSY
2	300039	1	ADAPTER
6	316083	1	BEARING CAP
7	324137	1	JAW CLUTCH
8	328105	1	COVER
11	332007	1	DRUM - "Y"
14	334005	1	GEAR R.H. 46:1
15	336010	1	HANDLE
16	338208	1	HOUSING - CLUTCH
17	338237	1	HOUSING - GEAR
18	340001	1	HUB - GEAR
19	342029	1	KEY
20	342075	2	KEY
21	357443	1	SHAFT - DRUM - Y
26	368017	1	WORM R.H. 46:1
27	402002	2	BEARING - BALL
28	410002	4	BUSHING
29	412045	1	BUSHING
30	1/4-20UNCX3/4	8	CAPSCREW
31	414045	4	CAPSCREW, 1/4-20NCx7/8 LG. HEX HEAD GR.5
32	414889	6	CAPSCREW, 5/16-18NCx3/4 LG. HEX HEAD GR.8
33	3/8-16X1-3/4CS	2	CAPSCREW
34	3/8-16X1-3/4CS	2	CAPSCREW
35	414842	4	CAPSCREW, 1/4-20NCx1-3/4 LG. SOCKET HEAD
36	1/2-13X1HHCS	2	CAPSCREW
37	416030	1	SETSCREW, 1/4-20NCx3/8 SOCKET HEADLESS
38	416057	1	SETSCREW, 3/8-16NCx3/8 SOCKET HEADLESS
39	3/8SLW	4	LOCKWASHER
40	1/2SLW	2	LOCKWASHER
41	431007	1	COUPLING
42	438014	2	DISC-BRAKE
43	442001	1	GASKET, COVER
44	442002	2	GASKET, GEAR HOUSING
45	450006	2	KEY-BARTH
46	456001	1	FITTING - LUBE
47	456008	1	FITTING - RELIEF
49	468002	1	REDUCER
50	468011	2	PIPE PLUG
51	470033	2	SPIRAL PIN
52	472012	1	PLUG - RUBBER
53	472013	1	PLASTIC PLUG
54	486009	1	OIL SEAL, WORM SHAFT
55	486017	1	OIL SEAL, DRUM SHAFT
56	494002	2	SPRING, DISC BRAKE
57	494053	1	SPRING, SHIFTER
58	518014	1	THRUST WASHER
59	518015	2	THRUST WASHER

ELECTRICAL CHASSIS DRAWING

IS ON AN 11X17 SHEET

Please Reduce to fit on
a STD 8½x11 Page.



ELECTRICAL - CHASSIS

ITEM	PART NUMBER	QTY	DESCRIPTION
1	1-879-010005018	1	FORD - BROWN WIRE
2	1-879-010012018	1	FORD - ORANGE WIRE
3	1-879-010006018	1	FORD - GREEN WIRE
4	93906	1	M/C BAR LMP HRNSS 6IN CTR1
5	1-879-010011060	1	FORD - BLACK WIRE
6	1-879-010013060	1	FORD - PURPLE WIRE
7	1-879-010005---	1	BROWN WIRE (length as needed)
8	31003	1	RING TERMINAL
9	1-879-010006060	1	FORD - GREEN WIRE
	1-879-010007018	1	CHEVY - YELLOW WIRE
10	1-879-010008060	1	BLUE WIRE
11	1-879-010005060	1	BROWN WIRE
12	1-879-010006018	1	GREEN WIRE
13	1-879-010007018	1	YELLOW WIRE
14	1-879-010005018	1	BROWN WIRE
15	1-879-010005---	1	BROWN WIRE (length as needed)
16	1-879-010010018	1	WHITE WIRE
	31003	1	RING TERMINAL
17	3-272-010003	1	4 POLE ELECTRICAL FM CONNECTOR
18	3-446-010005	2	STOP TURN TAIL LAMP
19	3-272-010017	1	TOGGLE SWITCH SEALED SPST
20	60004	2	BACK UP LAMP WITH GROMMET
21	31003	1	RING TERMINAL
22	1-879-010010018	1	WHITE WIRE
23	1-879-010004018	1	RED WIRE
24	30200R	3	SEALED CLEARANCE RED
25	3-446-010005	2	STOP TURN TAIL LAMP

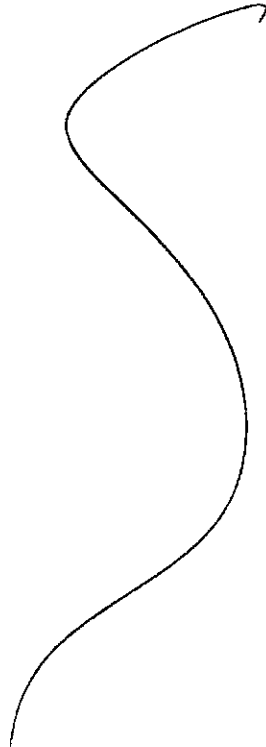
NOT SHOWN:

3-272-010018	HEAT SHRINK WITH SEALANT
3-272-010020	HEAT SHRINK WITH OUT SEALANT
C42-401	BUTT SPLICE 16-14 GA
D42-401	BUTT SPLICE 12-10 GA

ELECTRICAL BED DRAWING

IS ON AN 11 X 17 SHEET

Please reduce to fit on a
STD 8½ X 11 Page.



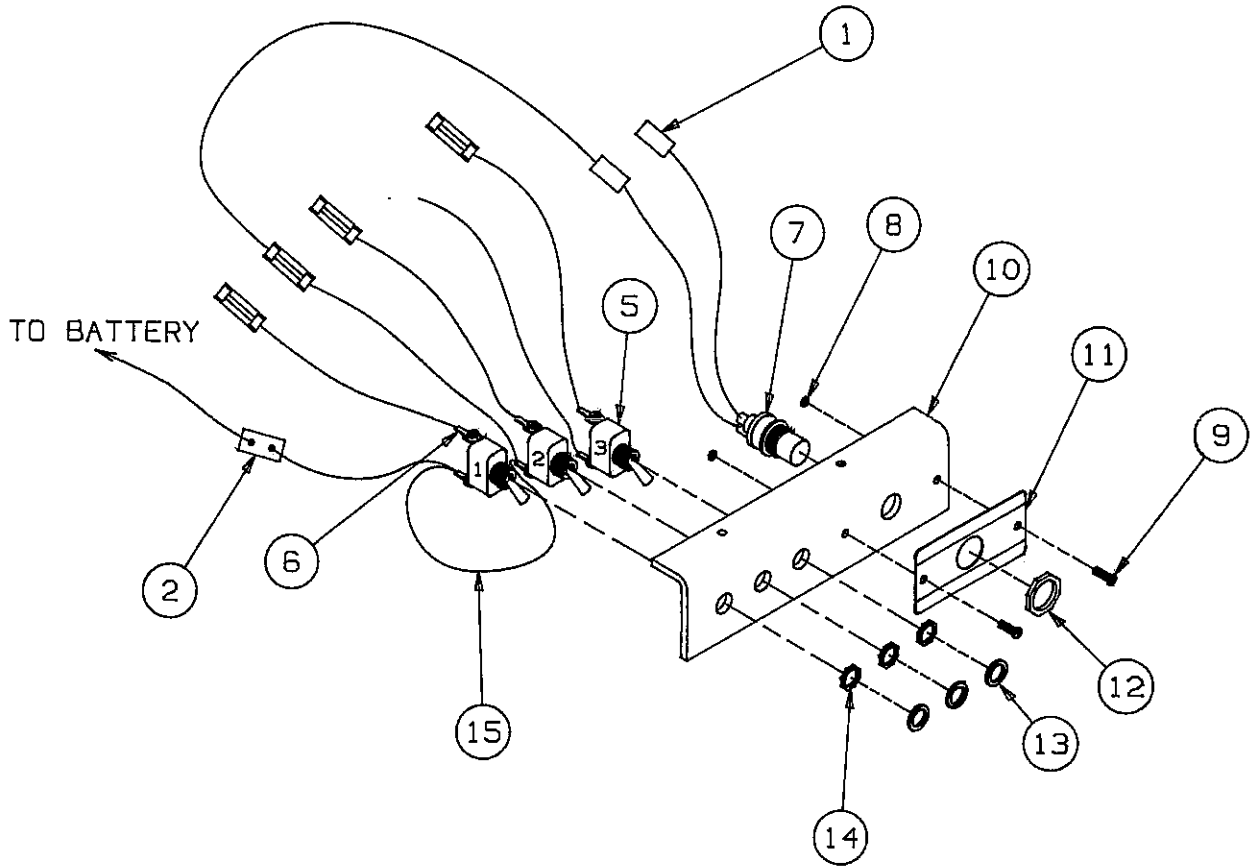
ELECTRICAL - BED PARTS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION
1	3-272-010006	1	HD 12V SIGNAL FLASHER
2	D42-401		SPLICE CONNECTOR
3	1-879-010018----	1	WIRE RED (length as required)
4	32005	1	RING TERMINAL
5	3-368-010018	1	HARNESS WIRING FRONT BED
6	30200Y		SEALED CLEARANCE YELLOW
7	31003	1	RING TERMINAL
8	30200R		SEALED CLEARANCE RED
9	3-156-010009516	1	MULTI-CONDUCTOR CABLE
10	30200R		SEALED CLEARANCE RED

NOT SHOWN:

3-272-010018	HEAT SHRINK WITH SEALANT
3-272-010020	HEAT SHRINK WITH OUT SEALANT
C42-401	BUTT SPLICE 16-14 GA
D42-401	BUTT SPLICE 12-10 GA

CAB SWITCH PANEL PARTS LIST



ITEM	PART NUMBER	QTY	DESCRIPTION
1	C42-401	12	BUTT SPLICE
2	3-318-010006	1	CIRCUIT BREAKER
3	3-318-010002	1	FUSE HOLDER
		1	12 VOLT SFE9 FUSE
4	3-318-010002	3	FUSE HOLDER
	3-318-010001	3	12 VOLT 15 AMP FUSE AGL-15
5	3-272-010004	3	SWITCH
6	3-203-010001	10	RING TERMINAL
7	*	1	WARNING LIGHT, PTO
8	3/16FW	2	PLATED FLAT WASHER
	3/16-24HFN	2	HEX NUT
9	3/16X3/4RHD STV	2	BOLT
10	3-272-010005	1	SWITCH PLATE CAB
11	*	1	PLACARD PTO WARNING
12	*	1	NUT PTO WARNING LIGHT
13	**	3	NUT TOGGLE SWITCH (for front side of panel)
14	**	3	NUT TOGGLE SWITCH (for back side of panel)

* Parts supplied with PTO mounting kit.

** Parts supplied with toggle switch kits.

WARRANTY

LANDOLL

1 TON LOADOLL

MANUFACTURER'S GUARANTEE POLICY LANDOLL CORPORATION WARRANTY

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MADE BY EITHER THE DEALER OR THE MANUFACTURER ON NEW LANDOLL EQUIPMENT, EXCEPT THE MANUFACTURER'S WARRANTY AGAINST DEFECTS, MATERIAL AND WORKMANSHIP SET OUT BELOW:

NEW EQUIPMENT WARRANTY

LANDOLL CORPORATION WARRANTS EACH NEW PRODUCT MADE BY IT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF SIX (6) MONTHS, DATING FROM DELIVERY OF SAID PRODUCT TO THE INITIAL USER. ITS OBLIGATION AND LIABILITY UNDER THIS WARRANTY BEING LIMITED TO REPLACING FREE OF CHARGE AT ITS FACTORY AT MARYSVILLE, KANSAS, OR ANY SUCH OTHER POINT NEARER THE INITIAL USER AS MAY BE DESIGNATED BY IT, OF ALL PARTS PROVING DEFECTIVE UNDER NORMAL USE AND SERVICE. IF ANY MATERIAL IS FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SPECIFIED ABOVE, IMMEDIATE WRITTEN NOTIFICATION OF SAID DEFECTS MUST BE MADE TO THE DEALER FROM WHOM THE EQUIPMENT WAS PURCHASED OR TO THE COMPANY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND THE OBLIGATION AND LIABILITY OF LANDOLL CORPORATION UNDER THIS WARRANTY SHALL NOT INCLUDE ANY TRANSPORTATION, INSTALLATION, LABOR EXPENSES, DOWN TIME OR DIRECT OR INDIRECT OR CONSEQUENTIAL DAMAGE OR DELAY RESULTING FROM SAID DEFECT. ANY IMPROPER USE OR APPLICATION OF THE PRODUCT OR SUBSTITUTION UPON IT OF PARTS NOT APPROVED BY IT SHALL VOID THIS WARRANTY. THIS WARRANTY COVERS ONLY THE MANUFACTURE BY LANDOLL CORPORATION. THE PRODUCTS OF ANY OTHER MANUFACTURERS ARE COVERED ONLY BY SUCH WARRANTY AS IS MADE BY THEIR MANUFACTURERS.

NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY, VERBALLY OR IN WRITING, OR GRANT ANY OTHER WARRANTY.

LANDOLL CORPORATION, WHOSE POLICY IS ONE OF CONTINUOUS IMPROVEMENT, RESERVES THE RIGHT TO MAKE CHANGES WITHOUT OBLIGATION TO MODIFY PREVIOUSLY PRODUCED EQUIPMENT.