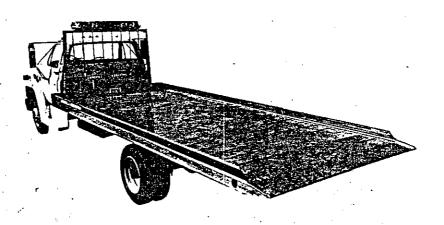


TWO TON CENTERFOLD OWNER'S MANUAL



LANDOLL CORPORATION

1700 MAY ST., MARYSVILLE, KAN. 66508

F-214

LANDOLL® CENTERFOLD



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				.
	Sold To		_ LANDOLL CORPORA	TION
	Address		1700 May Street Marysville, Kan	
-	City, State	Zip	665 _	08 -
•	Dealer		_	,
·		FINAL INSPECTION CENTERFOLD	SHEET S/N	
	Winch S/N Tilt Cylinder S/N Slide Cylinder S/N			
	Tow Bar Cylinder S/N_Pump S/N_PTO S/N			
	HYDRAULICS			LAITINI
	Proper fluid and quas Set relief valve pre Inspect for hydrauli	ssure 2,000 PSI		
	Secure all hoses Check P.T.O. warning	light function		
	Check routing of suc- from exhaust syst Operate all controls	em and sharp corner	rs	
	direction as show	n on instruction do	ecal	
	TRUCK Throttle cable opera	tes smoothly		
	Driveline U-joints p Carrier bearing secu Carrier bearing alig	red		
,	Brakes pressure bled Master cylinder fill			
	Park brake adjusted Fuel tank fillers in	and operable		
	with diesel label Interior and exterio	s when applicable r cab cleaned		
	All windows clean of P.T.O. operation dec	werd splatter al affixed to drive	er's sun visor	
	Original-Customer In Yellow-Factory	nspection Complete	Ву	Date
or o	, ·	ustomer Signature_	· · · · · · · · · · · · · · · · · · ·	Date

ELECTRICAL	INITIAL
Clearance lights operate	INTITAL
Emergency lights operate	
Switch mounting plate installed	 -
Heavy duty flasher w/emergency light bar	
All lights functional	
GENERAL	······································
Tow operable	
1. Rear tube level w/bed	
2. Rear latch straight	
3. Cylinder not rubbing tube	
Tool box latch adjusted and operable	
Decorative decals and stripe installed	·
Trim-loc as required	
Bed level with cab	
Rear of cab to front of bed adjusted	
Bed cylinder nuts tight	
Proper rear bed to ground contact	
Bed hoses properly anchored and routed	
Final bed buff and polish as required	
All slides and required hinge points	
lubricated	
P.T.O. knob jam nut torqued	
Tires correctly inflated	
Completed Vehicle "Final Certification Label"	
in place	
Centerfold/Truck road test	

SAFETY SUGGESTIONS



This safety alert symbol indicates important safety messages in this manual when you see this symbol. Carefully read the message that follows and be alert to the possibility of personal injury or death.

For your safety, and those working with you, follow these safety rules:

WARNING: denotes a hazard to personal safety.

CAUTION: denotes a general reminder of good safety practices or directs attention to unsafe

practice.

WARNING

The winch is not designed for use in the lifting or moving of persons! The winches described herein are neither designed nor intended for use or application to equipment used in the lifting of moving of persons.

WARNING

The cable clamp alone on winches is not designed to hold rated loads. Therefore, a minimum of 5 wraps of cable must be left on drum barrel to achieve rated load. Any damage resulting when less than 5 wraps are used will void the warranty.

WARNING

Rim and tire servicing can be dangerous. To protect life and limbs, be sure you understand and follow all mounting and demounting procedures and safety practices.

CAUTION

Do Not exceed the gross axie weight ratings for any axle on your vehicle.

CAUTION

All valve, pump, motor, and cylinder castings are not covered under warranty when using teflon tape sealant.

CENTER OF GRAVITY

A Landoll Centerfold, with a 19 foot aluminum bed on an axle chassis cab has a center of gravity of inches behind the front axles depending upon what options are on the truck.

If additional equipment or accessories are added to the Landoll Centerfold bed or chassis cab, the center of gravity will have to be recomputed.

FINAL CERTIFICATION LABEL

MANUFACTURED BY:
○
DATE OF MANUFACTURE @ mo 3 yr incomplete vehicle manufactured by:
DATE INC. VEH. MFD. S mo S yr
GVWR _ ⑦
GAWR FRONT S with
tires,
GAWR REAR (3) with
(4)tires, (5)rims,@psi cold
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT IN:
vehicle identification number:
VEHICLE TYPE (1)

- Customer/Company Name, Address, City, State Zip
- 2. Month Installation Completed.
- Year Installation Completed.
- Name of Truck Manufacturer.
- 5. Month Truck was Manufactured.
- 6. Year Truck was Manufactured.
- 7. *
- 8. *
- 9. :
- 10.
- 11. *

- 12. Single
- 13. *
- 14.
- 15. *
- 16. *
- 17. Dual (If Truck has Dual Tires)
- 18. Month of Installation
- 19. Year of Installation
- 20. *
- 21. Serial Number of Centerfold Bed Stamped on Bed

^{*} Information is stated on new truck "Incomplete Vehicle Certification Label" supplied with each Chassis Cab.

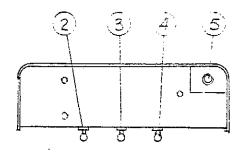
CONTROLS

The controls for the bed are located in the control box. The controls for the tow bar are on the rear bumper.

All operators should be trained and understand the entire Centerfold manual and controls before operating.

Assure adequate operating clearance and the safety of all personnel before operating the Centerfold.

Below listed are controls provided on the Centerfold.



- Power Take Off (push-pull knob) located in cab of truck, with clutch depressed, pull up to engage P.T.O.
- 2. Tilt Control Handle--Pull up until maximum tilt is achieved. Push down to return to transport position.

CAUTION:

Hold handle down until the hydraulic system by-passes fluid to assure proper engagement of the hydromechanical lock.

3. Winch Control--Push down on handle to reel in winch line, pull up on handle to reel out winch line.

NOTE: Located on the winch is a control knob to allow for free spooling as required.

 Bed Slide Control—Pull up to extend bed to the ground. Push down to retract bed for transport position. 5. Auxiliary Engine Throttle Control-(Twist to set engine speed, push button in to return engine to idle).

LOADING

1. Position

Park the truck with the rear of the bed approximately 8 feet in front of the object to be loaded and in line with object to be loaded.

- a. Set the parking brake.
- running, engage the P.T.O. per instructions on the Centerfold truck (Drivers Sun Visor).
- c. With the Centerfold truck engine running and the P.T.O. engaged, set the auxiliary throttle control to the desired engine speed (depending on the type of engine). DO NOT OVERSPEED
- d. Tilt Centerfold to maximum required for firm contact of rear bumper to ground.
- e. Slide bed to maximum required for firm contact of bed approach plate to ground.
- f. Centerfold winch line can be professionally attached to required load and, with caution, loaded.
- g. Care, good judgement, and professional knowledge should be
 exercised in securely tying down
 the load front and back or side
 ways. Use correct tie down
 restraints as required for securing
 the load to the bed. Set brakes,
 if a vehicle, and use wheel blocks
 as required for safe transport.

NOTE: The winch should not be used as a tie down restraint for transporting a load.

NOTE: When tilting bed, the

Centerfold rear bumper should

rest firmly on the ground.

If the ground is unstable,

adequate support should be

used under the rear bumper.

There should be an equal

weight distribution between

the Centerfold rear bumper andbed approach plate.

UNLOADING

Reverse the loading procedure.

3. OPERATING THE WINCH

a. Pull up the winch control handle to power unreel the cable while a second person keeps the cable taut.

NOTE: If a one man operation exists, disengage the spool and unreel the cable while keeping it taut. Reengage the spool after unreeling and attaching the cable.

NOTE: The Warn winch free spool is accomplished by turning clutch control dial. Fully twist per winch decal to "engage".

b. Push down on the winch control handle to wind the cable and pull the load onto the deck.

Always make sure the clutch dogs on the winch are fully engaged before using the winch.



Also remember that cables can break, winches fail and hooks become disengaged.

DO NOT WORK BELOW THE LOAD!

Replace cable when worn or damaged. Always wear gloves when handling cable.

Maintain a minimum of 5 turns of cable on the spool at all times. Also maintain a uniform wrap of the cable on the spool.

WARNING! Winches are not to be used to lift support or otherwise transport personnel.

4. OPERATION OF THE TOW BAR (OPTION)

The Landoll Centerfold may be equipped with a hydraulic tow bar.

NOTE: Observe all axle ratings.

It would be professionally prudent to have the bed adequately loaded and secured for counter balance prior to loading and towing a vehicle on the tow bar.

WARNING!



Do not extend the tow bar when the bed has been extended or is hooked up to a unit to be towed.



Before each tow bar hook up, inspect tow bar, slings, hooks for any type damage or excessive wear.

- a. Position the Landoll Centerfold truck approximately 4 feet ahead of the vehicle to be towed.
- b. Set the Landoll Centerfold park brake.
- c. With P.T.O. engaged, tilt the Centerfold frame.
- d. Select the most appropriate of the two vertical positions of the tow bar. This height is set by repositioning the pins above and below the support tube.
- e. Extend the hydraulic tow bar to desired length of required hook up, by means of the two position hydraulic valve on the rear bumper of the Landoll Centerfold.
- f. Using professional tow bar attachment slings, chains, hooks, and safety equipment, hook up the towed vehicle to the tow bar. All safety chains must be installed as well as towed vehicle lights from the Centerfold to the towed vehicle.
- g. Return Centerfold to transport position, making sure the hydromechanical lock is secured.
- h. Check operation of lights on towed vehicle for safety purposes.

Always tow with the tow bar extended.

Properly secure the vehicle being towed.

i. Disengage the P.T.O.

After unloading the vehicle being towed, retract the tow bar before sliding the Centerfold bed.

Page 8

Landoll Centerfold truck decks are designed for years of service with little maintenance. This small amount of maintenance, however, is very important for durability and for safe operation of the deck.

Maintenance is an owner/user responsibility as neither the manufacturer nor the distributor can normally control this function.

Use only safe practices when maintaining this equipment. Never get under a tilted deck unless it is adequately supported (don't rely on the hydraulic system). Always shut off the engine before reaching into pinch areas as when checking the hydraulic oil level or greasing under the deck. Maintain a clean shop for safety. Clean up spilled oil immediately.

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 operating improperly. The cause of any binding or leakage should be determined immediately and the problem promptly fixed.

Sliding surfaces are to be cleaned and coated with a heavy grease periodically. Cleaning every 6 months is recommended for clean highway operations, but this frequency will vary appreciably with the type of service. Sliding on dirty wear surfaces will cause rapid wear. Fittings on linkage pivots should be greased every 2 months, again depending upon useage. See Lube Chart.

Check the hydraulic oil level monthly or after any leakage. Use hydraulic oil as recommended in lubricant chart.

The proper oil level is best checked by sliding the deck back enough to gain access to the fill plug. The oil tank should be about 2/3 full with the deck so positioned (shut off the engine after moving the deck). This will result in a 3/4 full tank with the cylinder fully retracted (deck fully forward).

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 emory cloth to avoid repetition of the trouble. Whenever any seal replacement is necessary, it is always advisable to replace all seals in that component. These seals are available in kits. Also, thoroughly clean all components before reassembly.

NORMAL CARE AND CLEANING OF YOUR ALUMINUM DECK

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, nonabrasive soap or detergent such as those found around the house or recommended for washing automotive finishes, or any of the numerous non-etching, non-abrasive aluminum cleaners which are available at grocery stores, department stores, hardware stores, and automotive stores. To apply these cleaners, use a soft cloth or sponge for smooth surfaces. Follow the cleaning with a thorough rinsing of the surface with clear water and drying with a chamois or cloth to prevent spotting or streaking. To help keep the surface clean, to protect the finish from minor scratches or abrasion, 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 and maintenance between waxings. 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 damp 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 fallout.

CENTERFOLD MAINTENANCE					SERV	SERVICE INTERVALS	ALS			
AND LUBRICATION SCHEDULE	FIRST 100 MILES	FIRST 1,000 MILES	DAILY	WEEKLY	30 DAYS	90 DAYS	180 DAYS	YEARLY	YEARLY LOCATION RECOM.	RECOM. LUB.
BED SLIDES	I					Ħ			-	
TIRES	Ι		Λ	1					2	
LIGHTS	Ι		Λ						£	-
HYDRAULIC OIL	I				Ι			Я	7	-
HYDRAULIC OIL FILTER	I							R	5	
WINCH	I				I	-			9	
FASTENERS	I	T			Λ				7	
LATCH	Ι				T		A	į	8	2

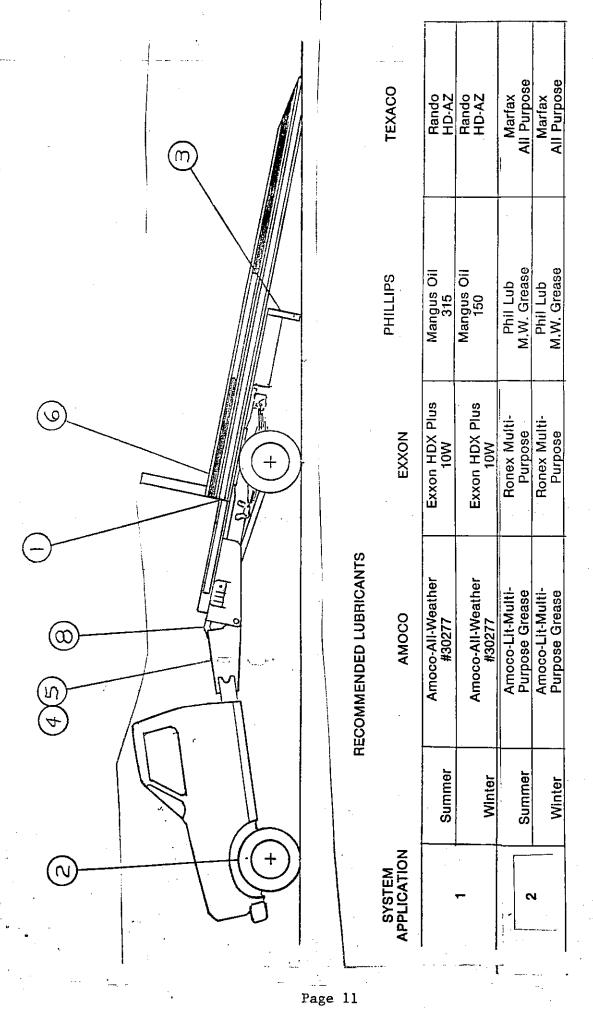
- Adjust.

- Inspect (correct, clean, or replace if necessary).

L - Lubricate.

1 - Replace or change.

Tighten or Re-torque. Visually inspect and if necessary, diagnose, correct, remove or replace.



DISASSEMBLY AND REASSEMBLY INSTRUCTIONS SPIN-IN RING RETAINER

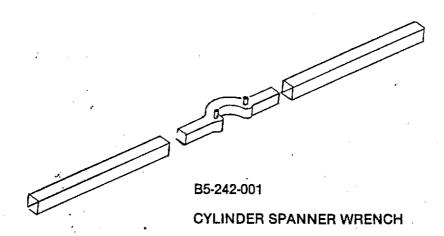
With the cylinder removed from the machine, retracted, and drained of oil, proceed as follows:

- Secure the cylinder in a vise or other method to prevent rotation. Rotate cylinder so the slot in barrel
 is positioned for easy access.
- 2. With a 90° pin type spanner wrench rotate gland counter clockwise. The tail end of the wire will appear in slot of barrel. If tail of wire catches, it may be necessary to lift wire slightly with narrow screwdriver. Continue rotating gland to feed wire completely out.
- 3. Pull on piston rod to remove gland and piston from tube. Note: If seals catch in retaining ring groove, it may be necessary to cut seal through slot in tube and pull out with needle-nose pliers.

Before reassembly check that new seals have been installed and all internal parts are free of visible contamination. Smear a heavy grease on piston and gland O.D. seals for easier assembly.

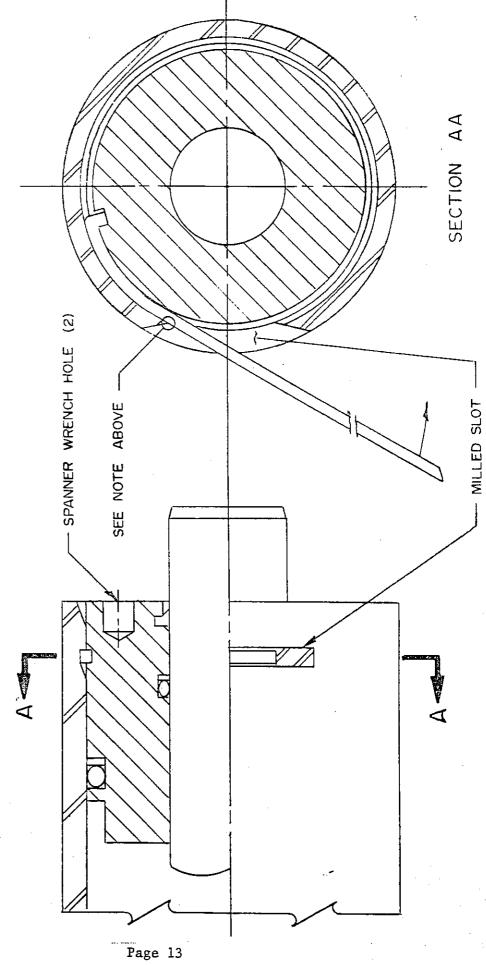
- 1. Insert piston, gland and rod assembly into tube. Line up hole in gland retaining groove with slot in cylinder barrel.
- 2. Using new retaining wire rotate gland clockwise until wire is completely in tube.

The cylinder is now ready for reassembly in machine.



DISASSEMBLY 8 REASSEMBLY DIAGRAM SPIN-IN RING RETAINER

PUSH TAIL OF RING TOWARD CYLINDER TO AVOID SCRAPING OF RING ON MILLED SLOT. NOTE



TROUBLE SHOOTING GUIDE HYDRAULIC SYSTEMS

FINDING AND SOLVING PROBLEMS:

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.

1. SYSTEM INOPERATIVE

- No oil in system, insufficient oil in system. Fill system. Check for leaks
- · Wrong oil in system. Refer to specifications. Change oil.
- Filter dirty or clogged. Drain oil and replace filter or filter element.
- Oil line restriction. Oil lines dirty or collapsed. Clean or replace.
- · Air leaks in pump suction line. Repair or replace as necessary.
- Worn or dirty pump. Clean, repair or replace. Check alignment.
 Check for contaminated oil. Drain and flush system.
- Badly worn components (valves, cylinders, etc.) Examine and test for internal or external leakage. Replace faulty components. Check for cause of wear.
- Leakage. Check all components, particularly the relief valve for proper settings. Refer to technical manuals.
- · 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.

2. SYSTEM OPERATES ERRATICALLY

- Air in system. Check suction side of system for leaks. Repair.
- · Cold oil. Allow ample warm-up period.
- Dirty or damaged components. Clean or repair as necessary.
- Restriction in filters or lines. Clean and/or replace elements or lines.

3. SYSTEM OPERATES SLOWLY

- Oil viscosity too high, cold oil. Allow oil to warm up before operating machine.
- Low pump drive speed. Increase engine speed (check manual for recommendations).
- · 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 as needed.
- Restriction in filters or lines. Clean and/or replace elements or lines.
- Improper adjustments. Check orifices, relief valves, etc. Adjust per manual.
- Oil leaks. Tighten fittings. Replace seals or damaged lines.

4. SYSTEM OPERATES TOO FAST

- Wrong size or incorrectly adjusted restrictor. Replace or adjust as necessary.
- · Engine running too fast. Reduce engine speed.

5. OVERHEATING OF OIL IN SYSTEM

- Oil passing thru relief valve for excessive time. Return control valve to neutral when not in use.
- Incorrect oil, low oil, dirty oil. Use recommended oil, fill reservoir, clean oil, replace filter element.
- Engine running too fast. Reduce engine speed.
- Excessive component internal leakage. Repair or replace component as necessary.
- Restriction in filters or lines. Clean and/or replace elements or lines.
- · Malfunctioning oil cooler. Clean or repair.
- Insufficient heat radiation. Clean dirt and mud from reservoir and components.
- Malfunctioning component. Repair or replace.

6. FOAMING OF OIL

- Incorrect, low or dirty oil. Replace, clean or add oil as needed.
- Air leaks. Check suction line and component seals for suction leaks. Replace.

7. NOISY PUMP

- Low oil level, incorrect oil, foamy oil. Replace, clean or add oil as needed.
- Suction line plugged, inlet screen plugged. Clean or replace.
- · Worn or damaged pump. Repair or replace.

8. LEAKY PUMP OR MOTOR

- Damaged or worn shaft seal. Replace. Check for misalignment.
- · Loose or broken parts. Tighten or replace.

9. LOAD DROPS WITH CONTROL VALVE IN NEUTRAL

- · Leaking cylinder seals or fittings. Replace worn parts.
- Control valve centering when released. Check linkage. Check for spool binding. Repair.

10. CONTROL VALVE STICKY (Binding).

- · Valve linkage misaligned. Repair.
- Tie-bolts too tight (stack valves). Loosen as necessary.
- · Valve damaged. Repair or replace.

11. CONTROL VALVE LEAKS

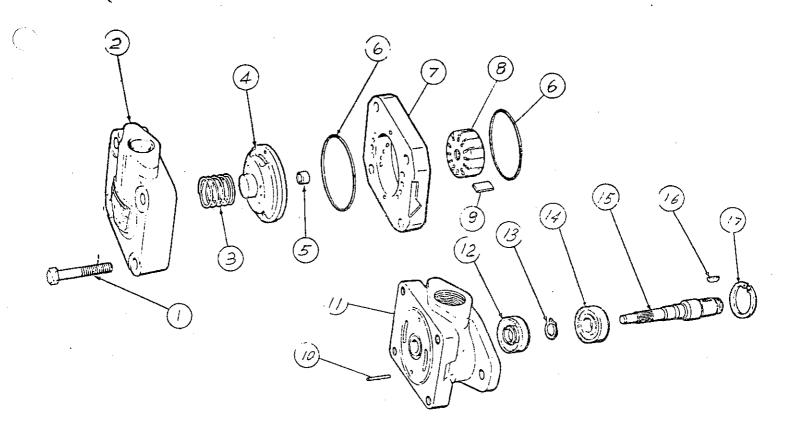
- Tie-bolts too loose (stack valves). Tighten as necessary.
- Seals damaged or worn. Replace.

12. CYLINDER LEAKS

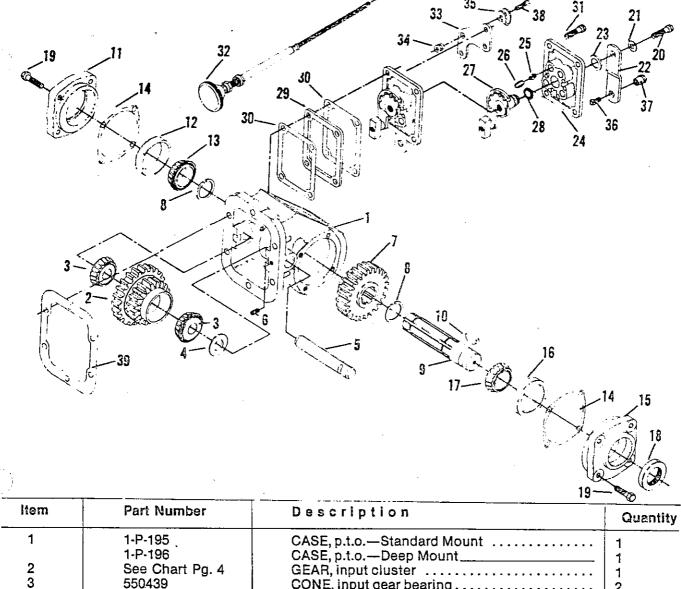
- · Seals worn or damaged. Replace.
- · Rod damaged. Replace.

13. CYLINDER LOWERS WITH VALVE IN "METER UP" POSITION

- Damaged or leaky lift check. Replace check.
- · Leaking cylinder seal. Replace seal.



ltem	Part No.	Description	Qty.
1	1319	Screw	4
2	313657	Cover	1
2 3	· 275672	Spring	1
4	359287	Pressure plate includes 280267 bushing	1
5	280267	Bushing	1
6	154090	"O" ring	ż
7	331807	Ring .	1
8	358334	Rotor	1
9	923479	Vane kit (12 vanes)	1
6 7 8 9 10	9603	Pin	ż
11	280689	Body	• 1
12	229235	Seal	1
13	98653	Snap ring	1
14	98574	Bearing	1
15	280372	Shaft Č	1
16	5881	Key	1
17	109975	Snap ring	1
	922733	Seal kit	-
		includes items 6 and 12.	
	923487	Cartridge kit	
		includes items 6, 7, 8 and 9.	



Item	Part Number	Description	<u> </u>
	rait ivember	Description	Quantity
1	1-P-195 ્	CASE, p.t.o.—Standard Mount	1
	1-P-196	CASE, p.t.o.—Deep Mount	•
2 3	See Chart Pg. 4	GEAR, input cluster	i
3	550439	CONE, input gear bearing	2
4	328017X	KIT, input gear spacer—Consists of one 14	-
		1 thru 14-P-15-5	1
	14-P-15-1	SPACER, input gear—.055" Thick	1
	14-P-15-2	SPACER, input gear—.060" Thick	
	14-P-15-3	SPACER, input gear—.065" Thick	
	14-P-15-4	SPACER, input gear—.070" Thick	1
7	14-P-15-5	SPACER, input gear—.075" Thick	
5	9-P-60	SHAFT, idler	1
	•	378452-7	, -
		SET SCREW—For]
•	•	Standard Mount— 1/4"-20x1/2"	
	378452-3	SET SCREW—For Deep Mount—1/4"-20x1/4"	1
7	2-P-291 ·	GEAR, output sliding—24 Teeth	1
8	378391 -	RING, output shaft snap	2
9	3-P-352	SHAFT, std. p.t.o. output 1-1/4" Round—5/16"	
		Keyway	1
10	500007-29	KEY, woodruff—Shipped Loose—5/16"	1
11	328278X	BEARING CUP ASSEMBLY—Closed End—	
	·	(Includes Cup 550221)	1
12	550221	CUP, bearing—For Closed End	1
13	550532	CONE, bearing—For Closed End	1

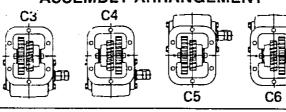
(148) - From SPACER KIT, select SPACER of proper thickness to provide end play of gear.

42 SERIES PARTS LIST & SPECIFICATIONS

· Chelsea®

Item	Part Number	Description	Quantity
14	22-P-24-1	GASKET, bearing cup014" ThickAR	
. •	22-P-24-2	GASKET, bearing cap—.020" ThickAR	
15	328277X	BEARING CAP ASSEMBLY—Output End—	
10	320277	(Includes Cup 550221)1	
16	550221	CUP, bearing—For Output End1	1
	1		1 .
17	550397	CONE, bearing—For Output End1	
18	28-P-2	SEAL, output shaft oil	ł
19	378430	CAPSCREW, hex. head eslock—5/16"-18x1"8	
	328290-1X	SHIFTER ASSEMBLY—For Wire Control	
		(Use with Assemblies C3 & C6)	
	328290-2X	SHIFTER ASSEMBLY—For Wire Control1	
		(Use with Assemblies C4 & C5)	
20	500409-6	CAPSCREW, hex. head — 5/16"-24x5/8" 1	
21	378003	LOCKWASHER, eslock capscrew—5/16"1	
22	51-P-22	LEVER, shifter1	1
23	378004	WASHER, shifter lever—1" O.D1	
24	34-P-17	COVER, shifter1	
25	37-P-20	SPRING, shifter ball1	
26	63-P-6	PIN, poppet1	
27	328289-1X	PLATE SUB-ASSEMBLY—For C3 & C61	
	328289-2X	PLATE SUB-ASSEMBLY—For C4 & C51	
28	28-P-49	"O" RING, shifter post—34" O.D	
29 29	5A-062	SPACER, shifter cover fiber	
30	35-P-8	GASKET, shifter coverAR	
31		CAPSCREW, hex. head eslock—5/16"-18 x 1" 4	
31	378430-9	CAPSUREW, Hex. Head estock—3/16 -16 x 14	
		PARTS SHIPPED LOOSE	
32	328346-10X	WIRE CONTROL ASSEMBLY—Wire & Knob 1	
	328380X	WIRE CONTROL MOUNTING PARTS KIT1	
33	50-P-17	WIRE CONTROL MOUNTING PARTS KIT	
	1	BRACKET, wire control1	
34	378326	NUT, hex1	
35	50-P-19	BRACKET, swivel1	
36	500568-4	SETSCREW14"-10x1/2"1	
37	378019		
38	500396-8	PIN, pivot	
39			
3 5	35-P-9-1	GASKET, p.t.o. mounting—.010" ThickAR	
	35-P-9-2	GASKET, p.t.o. mounting—.020" ThickAR	
		P.T.O. MOUNTING STUD KIT	
	328170-76X	STUD KiT—For Standard Mount	
	328170-77X	STUD KIT—For Deep Mount1	
		GASKET & SEAL KIT	
	328356-13X	GASKET & SEAL KIT—Must Be Ordered	
	320000-107		1
		(Contains 4 each of Item 14, 18, & 28; 2 pieces	
		Item 30; 1 piece each Item 8 & 39)	1

ASSEMBLY ARRANGEMENT

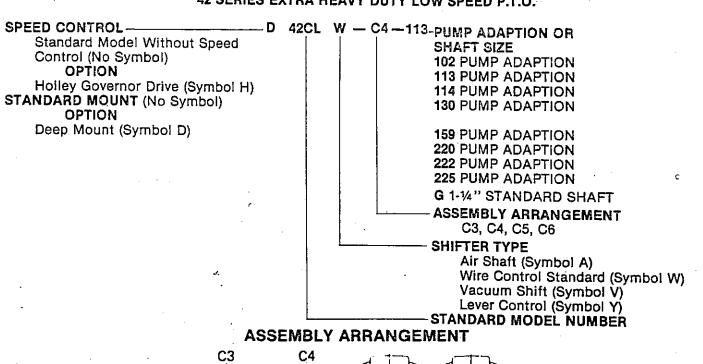


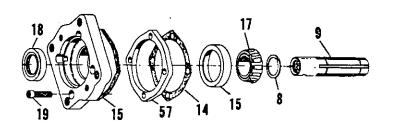
Chelsea®

42 SERIES PITCH MODELS & GEAR DATA

P.T.O. Model	Input Gear Item No. 2	Teeth	Transmission Application	Pitch & Pressure Angle
42ARL	5-P-432	25-19	New Process 4 Speed 435L Series & Others	8.1160NP-20° L.H.
42CFL	5-P-426	26-19	Warner T98-A (Left Hand Helix)	8.0829NP-20° L.H.
42CL	5-P-428	19-19	General—All 5 or 5/7	5 or 5/7-20°
42D17L	5-P-427	22-19	Spicer 5650, 5750 & 5850 Series	6/7-17 1/20
42F6	5-P-535	22-19	Fuller T-1056-A	
42F8	5-P-537	33-19	Fuller TS1312A & TS1308-A	8.35-20°
42GDL	5-P-466	25-19	New Process 4 Speed 435-D Series	8-2559NP-20° L.H.
42HCL	5-P-348	25-19	Chevrolet 4 Speed & Spicer 3150,	
			3550 & 3850 Series	7NP-20° L.H.
42HEL	5-P-425	21-19	Spicer 5831 Auxiliary & Watson Auxiliary	
42L	5-P-326	22-19	General—All 6 or 6/8	
42LDH	5-P-411	26-19	Clark 5 Speed	7.6168NP-18° 29'22" L.H.
42LKH	5-P-466	22-19	New Process NP-205 T.C. (Left Side)	7NP-20° R.H.
42LMH	5-P-358	25-19	Chevrolet CH-465 4 Speed & GMC	
42LNB6	5-P-526	18-19	Clark 397V	6.100-25° L.H.
42LNE7	5-P-495	23-29	New Process Model 203 Transfer Case	
42LNO5	5-P-499	17-19	Spicer R-8031 & R-8341	5-17 1/2° L.H.
42LRH ·	5-P-386	26-19	New Process 4 Speed Synchro-Shift (420)	7.6168NP-18º 29'22" R.H.
42LUH	5-P-420	23-19	Spicer 5000 Series (Right Side 8 Hole)	7NP-17 1/2° L.H.
42L7R	5-P-433	27-19	Spicer 1350 Series (Right Side 8 Hole)	8.0829NP-20° L.H.
42N10	5-P-542	33-19	Spicer 480010-20° R.H.	
D42HPL	5-P-434	21-19	Spicer 6350, 6450 & 6850 Series	6NP-17 1/2° L.H.

CHELSEA MODEL NUMBER CONSTRUCTION 42 SERIES EXTRA HEAVY DUTY LOW SPEED P.T.O.



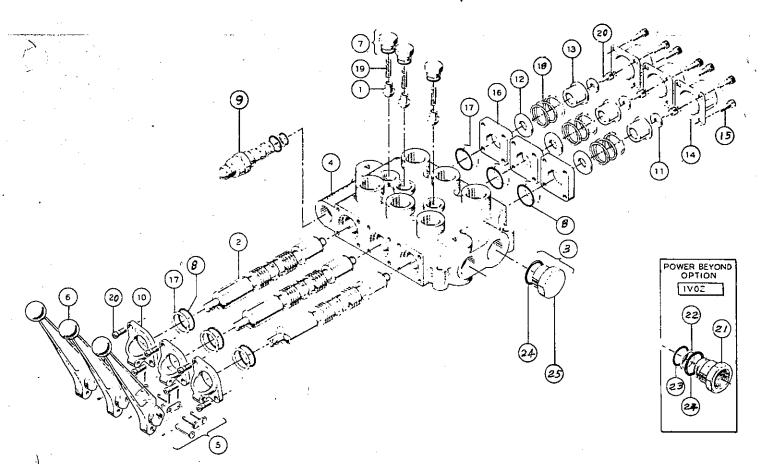


Pump Mounting Suffix	NEW Flange Item No. 15	Output Shaft Item No.	Capscrew & Dimensions Quantity Required—Four Item No. 19	Conversion Kit►
102	328580X	3-P-385	378447-9 (5/16"-18x1.750")	328593-5X
113	328333X	3-P-351	378447-9 (5/16"-18x1.750")	328593-9X
114	328580X	3-P-452	378447-9 (5/16"-18x1.750")	328593-11X
130	328583X	3-P-385	378447-8 (5/16"-18x1.500")	328593-13X
159	328584X	3-P-351	378447-9 (5/16"-18x1.750")	328593-14X
220	328328X	3-P-351	378447-8 (5/16"-18x1.500")	328593-15X
222†	328589X	3-P-351	378447-9 (5/16"-18x1.750")	328593-10X
225	328710X	3-P-452	378922 Studs, 378919 Washer	
	OZOT TOX	3-6-402	and 500963-1 Hex (Locknut (4 each)	328593-16X

[►] Conversion Kits consist of all Items listed plus Oil SEal 28-P-52 Item 18, Lockring 378391 (Qt. 2) Item 8, Gaskets 22-P-24-1 and 22-P-24-2 Item 14, and Spacer 378336 Item 57.

All Flange Assemblies consist of Pump Flange and Bearing Cup 550221.

[†] Flange Assembly 328589X interferes with Base on Deep Mount Housing Assembly C-3 only.

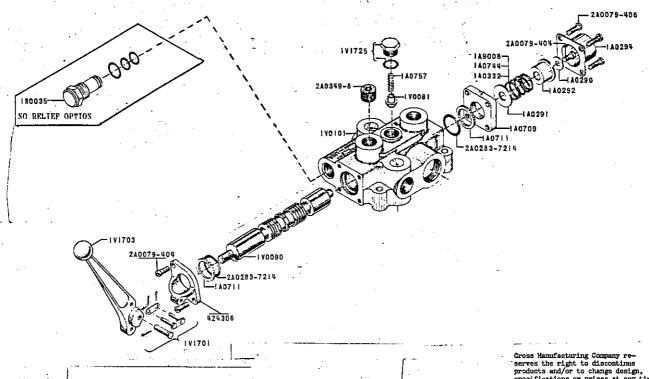


THREE SPOOL VALVE

Part No.	Des.		Qty.
1V0081	Load Check Poppet		3
1V0090	4-Way Spool	,	3
2A0354-121	Conversion Plug Assembly	•	1
1V0351 ~	Valve Housing		1
1V1701	Pin Kit		3
171703	Handle		3
1V1725	Load Check Plug -		3
2A0283-7214	Spool Seal		. 6
1R0017	Relief Assy. (1500-3000)		1
4Z4306		•	3
1A0290	Centering Spring Washer		ຼ 3
1A0291	Stop Washer		ັ 3
1A0292	Stop Collar		3 3
1A0294	End Cap		3
2A0079-406			12
1A0709			3
1A0711			6
1A0744	Centering Spring (std.)		3
1A0757	Load Check Spring		3
2A0079		and the second s	9
1V0075		•	1
2A0007-022			1
			1
			. 1
			1.
2V0010	Seal Kit		1
	1V0081 1V0090 2A0354-121 1V0351 - 1V1701 1V1703 1V1725 2A0283-7214 1R0017 4Z4306 1A0290 1A0291 1A0292 1A0294 2A0079-406 1A0709 1A0711 1A0757 2A0079 1V0075 2A0079-022 2A0283-9022 2A0283-9916 2A0354-21	1V0081	1V0081 Load Check Poppet 1V0090 4-Way Spool 2A0354-121 Conversion Plug Assembly 1V0351 - Valve Housing 1V1701 Pin Kit 1V1703 - Handle 1V1725 - Load Check Plug 2A0283-7214 - Spool Seal 1R0017 - Relief Assy. (1500-3000) 4Z4306 - Handle Bracket 1A0290 - Centering Spring Washer 1A0291 - Stop Washer 1A0292 - Stop Collar 1A0294 - End Cap 2A0079-406 - Cap Screw 1A0711 - O-Ring Spool Washer 1A0744 - Centering Spring (std.) 1A0757 - Load Check Spring 2A0079 - Cap Screw 1V0075 - Power Beyond Sieeve 2A0007-022 - O-Ring Back Up 2A0283-9916 - Plug O-Ring 2A0283-9916 - Plug O-Ring 2A0354-21 - Conversion Plug

^{*}Spools and valve body are matched at factory and may not be ordered as separate items.

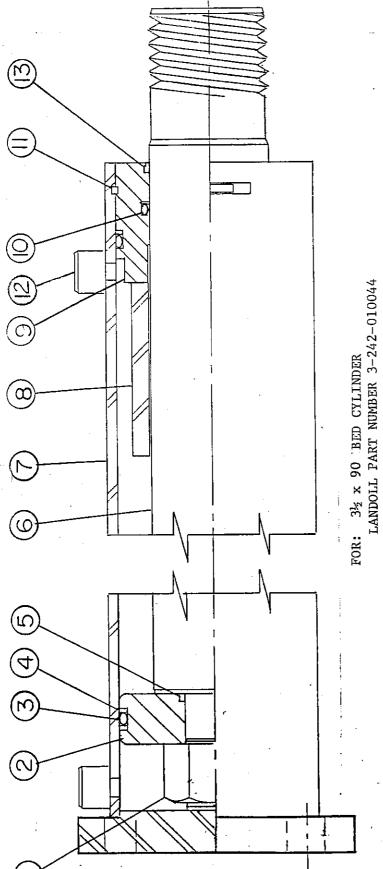
MODEL (BA) DIRECTIONAL CONTROL VALVE



PARTS LIST

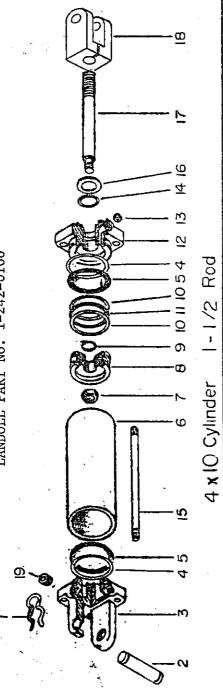
PART NO.	DESCRIPTION	XO. REQ:
LVDDAI	Load Check Poppet	
1.00000	4-Way Spool	-
170096	3-Way Spool	- 1
IVOIDE	Valve Housing (! Spool)	
170126	Valve Housing (2 Spool)	
170351	Valve Housing (3 Spool)	Į.
171701	Pin Kit	ŀ
111703	Handle	1
171725	Load Check Plug Ass'y.	ļ
1R0016	Rellef Ass'y., Adj. (500-1500)Std.	
4Z4306	Randle Bracket	
140290	Centering Spring Washer	
140291	Stop Washer	ĺ
140292	Stop Collar	
140294	End Cap	
140332	Light Centering Spring	1
140709	End Spacer	
140711	O-Ring Spool Washer	
1 4 0 7 4 4	Centering Spring (Std.)	1,
1A0757	Load Check Spring	
1A9908	Heavy Centering Spring	
240079-404	Machine Screw	
2A0079-405	Machine Screw	
240283-7214	Spool Seal	
		ł
IRODES	Relief Plug Assiy.	Ì
	elect-fit homing process at factory,	
	fits a spool to an individual valve	1
	eliminates the possibility of ordering	1
· the v	alve body or spool as separate items.	1

CROSS MANUFACTURING, INC. LEWIS, KANSAS 67552 / 316 324-5525

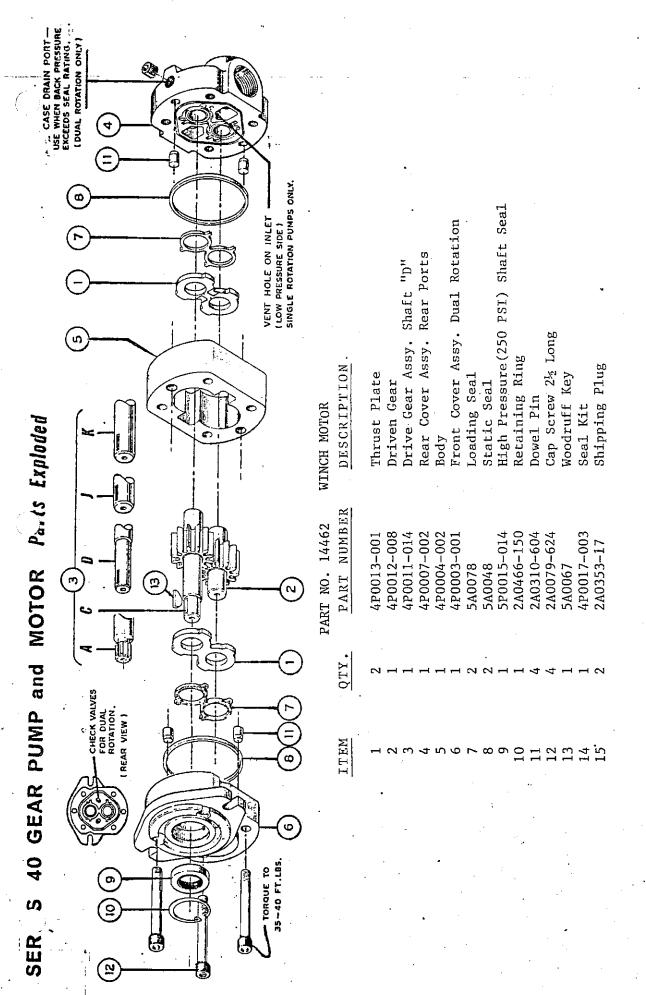


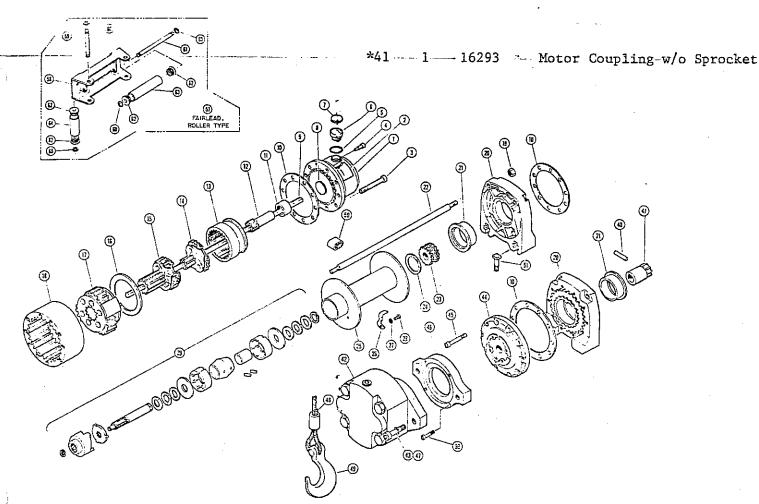
<u>Description</u>	Lock Nut	Piston	0-Ring*	Back-up Washer*	0-Ring*	Piston Rod	Butt & Tube Assembly .	Spacer	Gland	U-Cup*	Sq. Ret. Ring*	Pipe Plug	Wiper*	Packing Kit (Includes * Items)
Part Number	220000213	071700130	240000338	240005338	240000028	011000256	061700305	211100200	081700035	240020007	230007350	200018002	250001327	3-242-010046
Qty.	1	-	2	3	-	-	-	-	П	-		2	-	П
Item	1	2	ĸ	4	5	9	7	8	6	10	11	12	13	14

TILT CYLINDER LANDOLL PART NO. 1-242-0100



	(C)		
Item	Description	Qty	Part Number
-	Full Hair Pin Clip	2	190400002
Ń	Clevis Pin		190400004
m	Anchor Gland		141900037
4	Back-up Washer	2	240005240
ري	O-Ring	2	240000329
ď	Tube	_	600006190
· /-	Piston Rod Lock Nut	_	22000 02 10
- 60	Piston	,—	071900006
6	0-Ring		240000022
0	Back-up Washer	2	240005342
=	0-Ring	_	240000342
2	Rod Gland	-	081900231
13	Tie Rod Nut	8	9716 UNC
4	U-Cup Sedl	_	240020059
5	Tie Rod	4	170301153
õ	Wiper Sedi	_	250001222
17	Piston Rod	-	01080006
9	Clevis Assembly	_	100000043
<u>ნ</u>	3/4 - 16 Steel Plug W/ 0-Ring	_	200300040
20	Packing Kit (Consist of items 4,5,9,10,11,14, 16)	ı	1-242-010C04

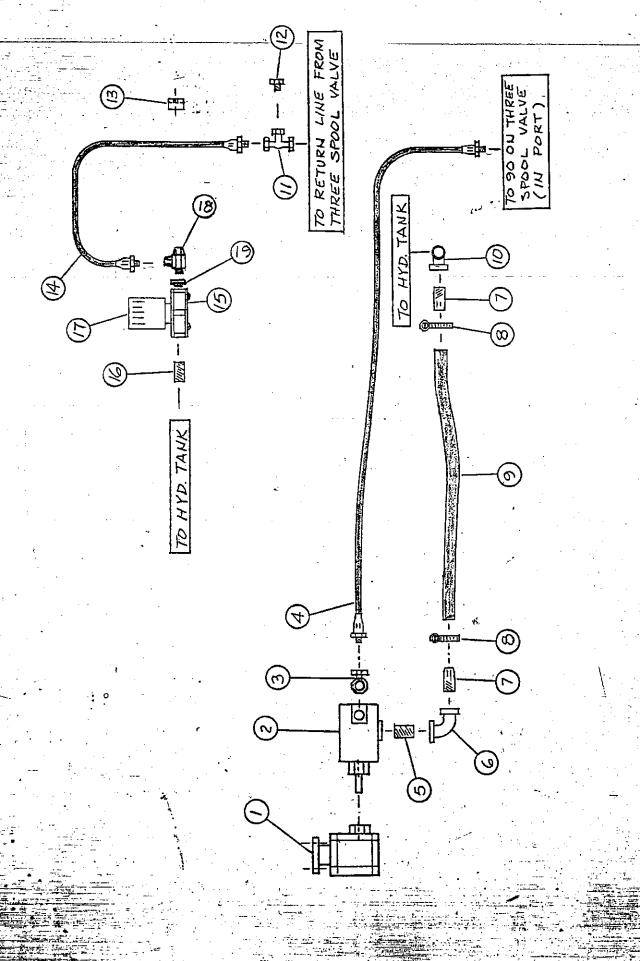




ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
:. 1	1	14547	End Housing Assy.	25	. 1	13876	Drum Assy.
			Incl. Items 2,8,&11	26	1	13887	Clamp, Wire Rope
2	1 .	14124	Decal, End Housing	27	1	1129	4 Lock Washer
3	10	13850	10-24x21/2 Socket HD CS	3 28	1	13699	4-20 Oval Hd. CS
4	1	13872	Screw, Clutch Knob	29	1	14812	Brake Assembly
5	1	14211	Seal, O-Ring	39	4	13340	½-20x3/4 Socket Hd. CS
6	1	14585	Knob, Clutch	40	1	3504	1/8 Diam.x3/8 Roll Pin-
			Incl. Item 7	41 *	1	14410	Motor Coupling
7	1	13854	Decal, Clutch	42	1	14462	Motor, Hyd, .75cu.in./Rev.
8 :	1	13868	Plate, Thrust	43	. 2	14157	7/16-14x1 Socket Hd. CS
9	1	14518	Drive Shaft	44	1	14468	Adapter, Motor
10	3	13848	Gasket	· 45	10	5553	10-24x3/4 Socket Hd. CS
11	1.	13829	Bushing	46	1	14467	Adapter, Hyd. Motor
12	1	14227	Gear, Sun, No. 1	47	2	2146	7/16 Lockwasher
13	1	13839	Gear, Ring, No. 1 & 2	2 48	1	14540	Wire Rope, 5/16x80 Ft.
14	1	14610	Carrier Assy., No.1				Incl. Item 49
15	1 .	14611	Carrier Assy., No.2	49	1 .	5320	Hook, 3/8
16	1	13826	Bushing, Carrier	50	1	14631	Sleeve, Wire Rope
17	1	14612	Carrier Assy., No.3	51	4	14939	Sq Hd 3/8-16x2, GR5 CS
18	1	14471	Gear, Ring	57	1	5742	Fairlead, Roller Type
19	4	6725	1/2-20HN, Self Locking			•	Inc. Items 58 - 64
20	2	15184	Support, Drum	58	1	5741	Bracket, Fairlead
4 .		•	Incl. Item 21	59	2	5744	Shaft, Vertical
21	2	13831	Bushing, Drum	60	8	6126	Ring, Retaining
22	2	13875	Tie Rod	61	2	5745	Shaft, Horizontal
23	Į	15185	Drive, Splined	62	8	2050	Bushing
			Incl. Item 24	63	2	2049	Roller, Horizontal
24	1	13827	Retaining Ring	64.	2	2051	Roller, Vertical

HYDRAULIC WET KIT, TWO TON CENTERFOLD

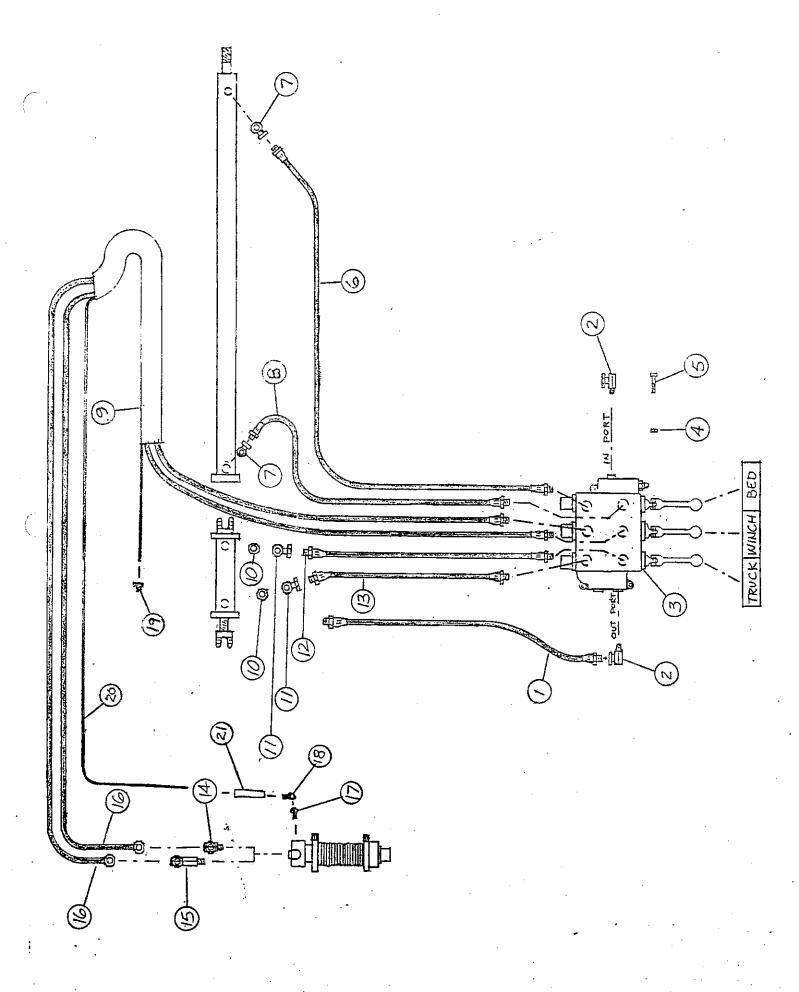
<u>Item</u>	Part Number	Description		Qty.
.1	P.T.O.	Power Take Off		1
2	V-201P13P1C11	Pump Vickers		1
3	1-007-010013	1/2FPT 3/4MPG 90 Swivel	•	1
4	1-397-010056	1/2 Hose Assembly 154IN		1 '
. 5	$1-1/4 \times 2PN$	1-1/4 x 2 Pipe Nipple		1.
6	14 x 14 90 EL	$1-1/4 \times 1-1/4 90$ Blk. ELL		1
7	3-561-010001	Hose Barb 1-1/4 NPT	<i>t</i> ′	1
8	6828	Ideal Hose Clamp		2
9	19B	Hose 1-1/4		7.5FT
10	1-1/4 ST ELL	BLK Pipe Elbow 90 ST		1
11	2255-8-8S	Tee Internal Pipe Swivel		1
12	1/2 Pipe Plug	Black		1 .
13	2-181-010001	Hose Clamp		1
14	2-397-010002	1/2 Hose Assembly 36IN		1
15	1-295-010001	Return Line Filter		1
1.6	3/4 Nipple	All Thread Nipple		1
17	1-295-010002	Replacement Filter Element		1
18	2-92-8-8S	Tee 1/2 External/Internal Pipe		1.
19	$C3109 \times 12 \times 8$	Steel Bush $3/4$ MPT x $1/2$ FPT		1



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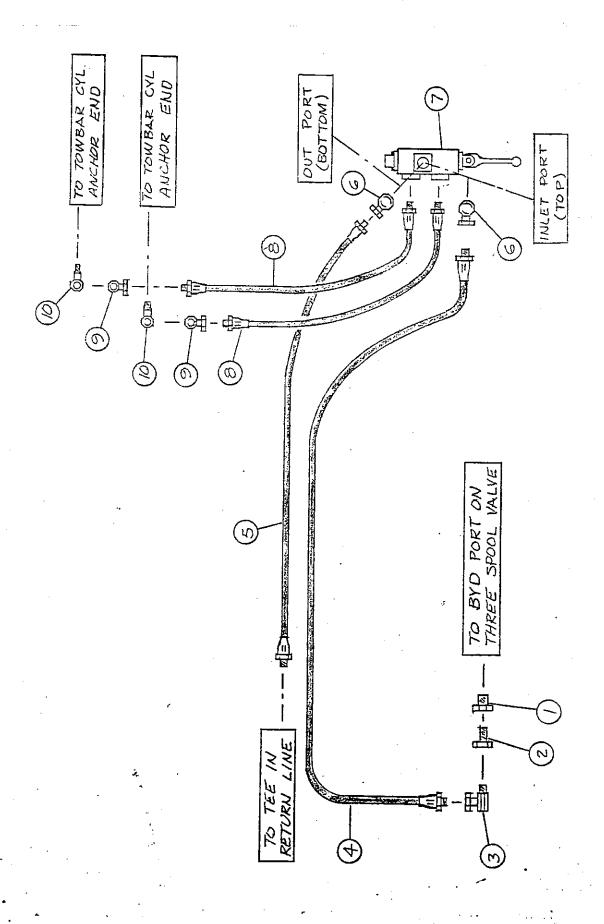
MAIN FRAME HYDRAULICS, TWO TON CENTERFOLD

Item	Part Number	Description	Qty.
1	2-397-010002	1/2 Hose Assembly 36IN	1
2	1-007-010013	1/2FPT 3/4 MPT 90 Swivel	2
3	BA3111AAAG3EAO	Valve 3 Spool w/Power Beyond	1
4	3/8-16HFLN	Lock Nut	3
5	$3/8-16 \times 1-3/4$ CS	Hex Cap Screw GR5	7
6	1-397-010060	3/8 Hose Assembly 152IN	1 ·
7	2047-6-6S	INT P Swiv. 3/8NPT	2
8 9	1-397-010064	3/8 Hose Assembly 58IN	1.
9	3-395-010001	CF Fire Hose	7.5FT
10	2216-6-8S	3/8FPT 3/4MPT O-Ring Adapter	2
11	1-007-010005	3/8 90 Swivel w/3/32 Restrictor	2
12	1-397-010061	3/8 Hose Assembly 46IN	1
13	1-397-010063	3/8 Hose Assembly 37IN	1
14	1-007-010011	90 Union O-Ring Adapter STD.	1
15	1-007-010012	90 Union O-Ring Adapter XL	1
16	1-397-010065	3/8 Hose Assembly 277IN	2
17	C3409 x 4	90° ST EL 1/4 MPT x 1/4 FPT	1
18	1480 x 6	45° EL 3/8 O.D. Tube x 1/4 MPT	. 1
19	$1468 \times 6 \times 8$	Connector 3/8 O.D. Tube x 1/4 MPT	1
20	62P6	Tubing 3/8 O.D.	26 FT
21	1-397-010010	1/2 Hydraulic Hose	8.0



TOW BAR, TWO TON CENTERFOLD

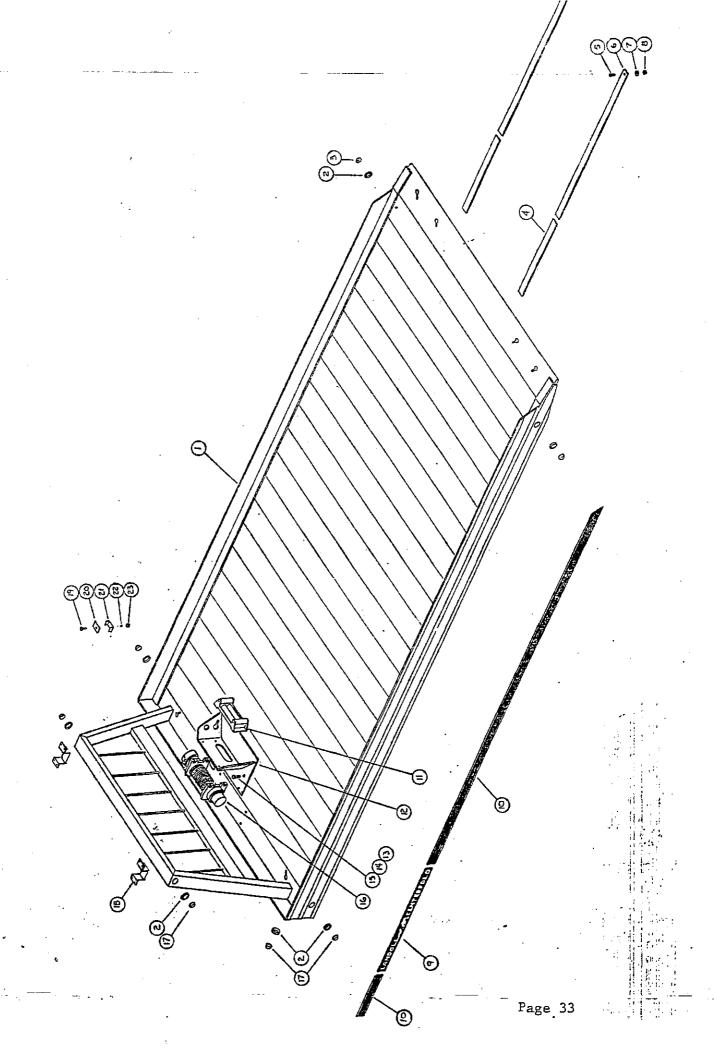
Item	Part Number	<u>Description</u>	<u>Oty</u> .
1	1V0208	Power Beyond Remote	1
2	$3/4 \times 1/2$ BUSH	BLK Pipe Bushing	1
3	2047-8-85	Adapter	1
4	3-397-010023	1/2 Hose Assembly 172IN	1
5	3-397-010021	1/2 Hose Assembly 148IN	1
6	1-007-010013	1/2 FPT 3/4 MPT 90 Swivel	2
7	BA11AD00A0	Single Spool Valve	1
8	1-397-010061	3/8 Hose Assembly 46IN	2
9	2047-6-6S	INT P Swiv. 3/8 NPT	2
10	1-007-010014	3/8FPT 3/4ST 37 Flare EL	2



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ALUMINUM BED STANDARD SIDE RAILS

<u>Item</u>	Part Number	Description	Qty.
1	3-080-010053	19FT Alum. Bed w/Side Rails	1
2	30401	2IN Grommet Mount Kit	. 8
3	- 30200R	2IN Sealed Clearance Red	2
4	RPRB3999x 96	¹ 4x2 ¹ 2x96 UHMW Polyethylene	. 2
5	3/8-16x1HHCS	Hex Cap Screw GR5	2
6	3-080-010033	Alum. Channel Bed Slide	2
7	3/8FW	Flat Washer ZP	· 2
8	3/8-16HFLN	Lock Nut	2
9	3-573-010063	Centerfold Decal	3
10	3-573-010066	Black Yellow Stripe 3IN	52 ft.
11	3-873-010057	Cable Guide Rollers	1
12	3-311-011913	Winch Mount Assy. Flat	. 1
13	5/8-11HFN	Nut ZP GR2 (Not Shown)	4
14	5/8SLW	Split Lock Washer ZP (Not Shown)	4
15	5/8-11x1-3/4CS	HHCS ZP GR5	4
16	3-873-010056	8000 LB Hydraulic Winch	i
17	30200Y	21N Sealed Clearance Yellow	6
18	3-141-010023	Mtg. Plate Emergency Lights CF	2
19	3/8-16x1-3/4CS	Hex Cap Screw GR5	4
20	3-181-010007	Hose Clamp Top Plate	4
21	3-181-010008	Bottom Hose Clamp	4
22	3/8sLW	Split Lock Washer	4
23	3/8-16HFN	Hex Nut ZP GR2	4

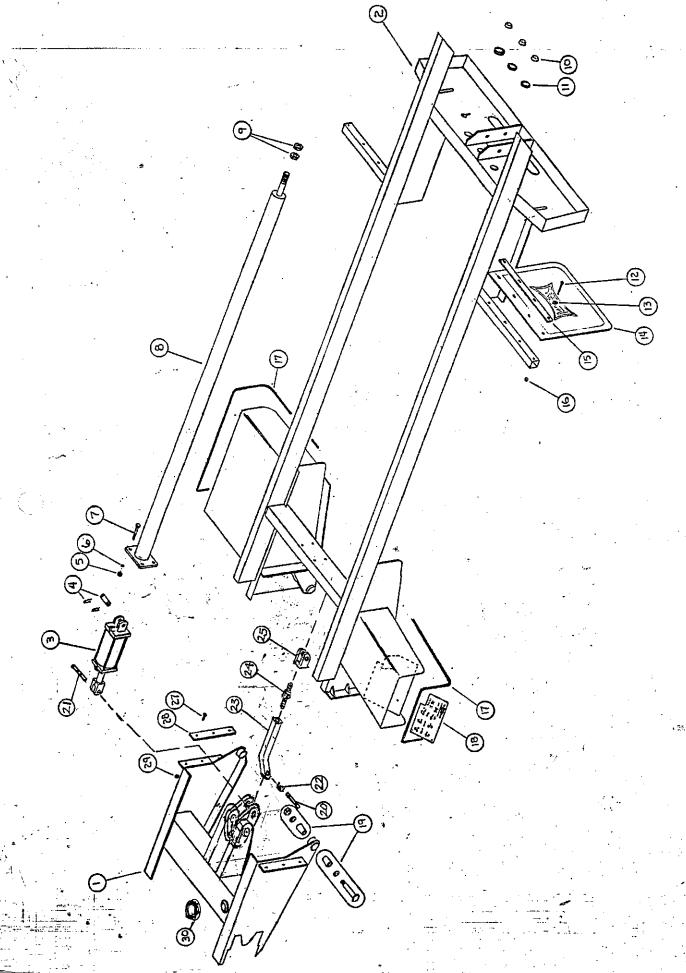


PARTS LIST FOR STEEL BED NOT COMPLETE AS OF 6/27/84.

STEEL BED DRAWING NOT COMPLETE AS OF 6/27/84.

FRAME KIT FOR TWO TON CENTERFOLD

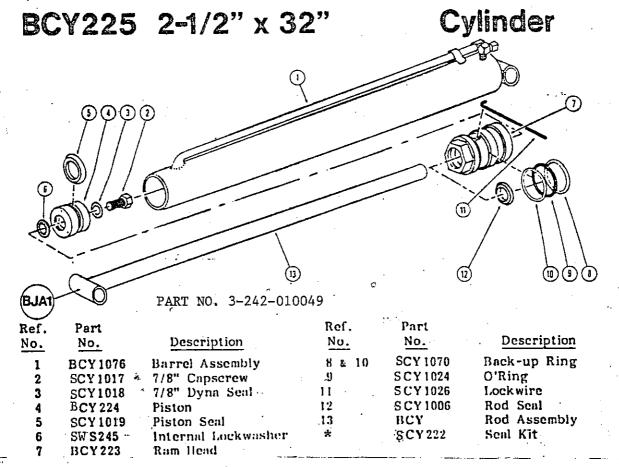
Item	Part Number	Description	Qty.
1 .	3-311-012473 3-311-012474	Two Ton Front Hinge Assy. Two Ton Centerfold Assy.	1
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	3-311-012474 1-242-010048 5/8-11HFN 5/8SLW 5/8-11x5-1/2 3-242-010044 1½-12 JN 30200R 30401 3/8-16x3HHCS 3/8FW 3-485-010001 3-762-010017 3/8-16HFLN 1-822-010002 3-573-010061 3-762-010267 3-311-012448 3-311-012449 3-150-010005 3-311-012442		1 1 4 4 4 1 3 3 3 8 8 2 2 8 As Req. 1 1
24 25 26 -	3-311-011791 3-242-010051 1-557-010014	Adjustment Rod 1" Rod Cast Clevis Hair Pin 1/4 Dia. (Not Shown)	1 1 4
27 28 29 30	5/16-18x1⅓ 3-146-010003 5/16-18HFN 3-162-010001	Hex Soc Flat Head Cap Screw Armorite Cushion Hinge Hex Nut ZP GR2	3 2 6
31 32 33	1-DSL LATCH BSL-6-4 5010	Filler-Breather-Strainer Assy. Zinc Finish Paddle (Not Shown) Rivet (Not Shown) Zerk Fitting & SAE (Not Shown)	1 1 4



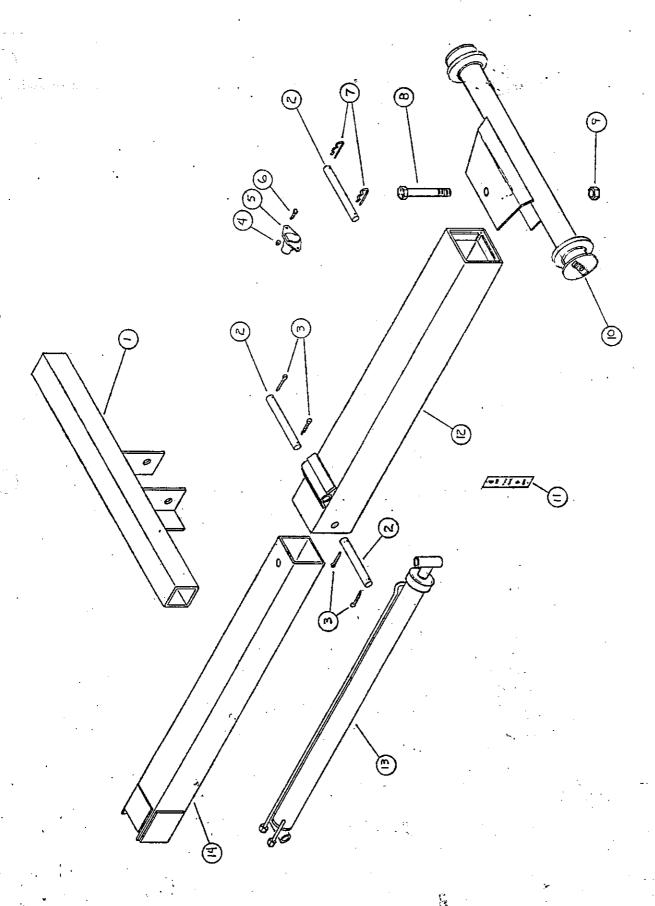
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STANDARD TOWBAR W/ RUBBER RING

<u>Item</u>	Part Number	Description	Qty.
1 .	3-311-012475	Tow Bar Anchor Assembly 2 Ton	1
2	3-311-012450	Tow Bar Pin	3
3	$1/4 \times 2$	Cotter Pin ZP	4
4	½−20HFLN	Hex Lock Nut GRB Cad w/Wax	. 2
5	3-272-010003	4 Pole Elect. FM Connector	1
6 .	½-20x1HHCS	Cap Screw ZP	2
7	1-557-010014	Hair Pin 1/4 Dia.	2
8	1-8x C 5	Hex Cap Screw GR5 ZP	1
9	1-8HFLN	Lock Nut Ding Type ZP	1
10	3-311-012464	Rubber Ring Tow Bar Weldment	1
11	3-573-010067	Tow Bar Operation Decal	1
12	3-311-012447	Outer Tube Tow Bar Weldment	1
13	BCY 225	2½x32 Tow Bar Cylinder (See Below)	1
14	3-311-012446	Inner Tube Tow Bar Weldment HD	1
		and the second s	



*NOTE: Seal kit part number LCY 10498 will work on new style cylinders having a split piston.

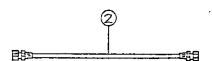


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BRAKE LINE COMPONENTS

Item	Part Number	Description	Qty.
1	3-158-010009	1/4 Standard Nut	2
2	3-158-010006	Brake Hose 1/4 Tube	1



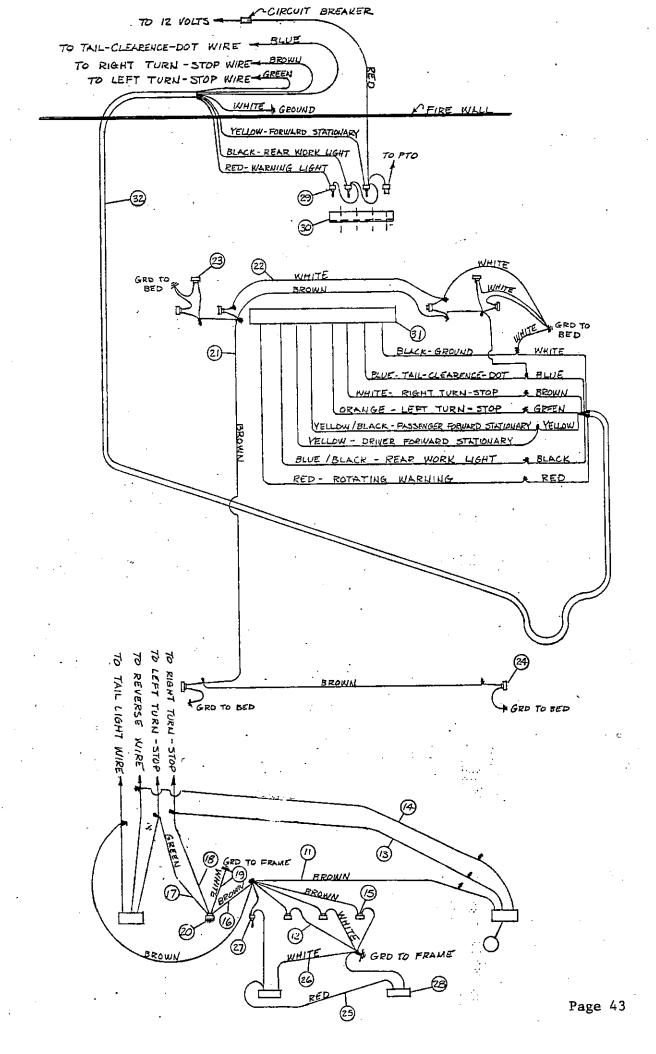


BRAKE LINE COMPONENTS

ADDITIONAL PARTS ADDED TO FRAME KIT FOR STEEL BED INSTALLATION NOT COMPLETE AS OF 6/27/84.

ELECTRICAL FRAME

Item	Part Number	Description	Qty.	
			4.0	tim
11	1-879-010005	14AWG Brown Wire	1.5	FT
12	1-879-010007	14AWG Yellow Wire	45	FT
13	1-879-01001 \	14ANG Błack Nire 14ANG Green Wire	2.5	FT.
14	1-879-010006 30200R	2IN Sealed Clearance Red	3	EA
15				
	WIRING 4 POLE C	ONNECTOR FOR UNITS WITH TOWEAR		
Item	Part Number	Description	Qty	<u>•</u>
16	1-879-010005	14AWG Brown Wire	1.50	
17	1-879-010006	14AMG Green Wire	1.50	
18	1-879-0100 07	14ANG Yellow Wire	1.50	
19	1-879-010010	14AWG White Wire	1.50	
20	3-272-010003	4 Pole Elect. FM Connector	1	EA
	BED CL	FARANCE LIGHT WIRING		
		WITH BULKHEAD		
<u>Item</u>	Part Number	Description	Ō₽	<u>7.</u>
21	1-879-010005	14AWG Brown Wire	45	FT
22	1-879-010010	14AWG White Wire	12	\mathbf{FT}
23	30200R	2IN Sealed Clearance Red	2	EA
24	30200Y	2IN Sealed Clearance Yellow	6	EA
	<u>v</u>	VITHOUT BULKHEAD		
21	1-879-010005	14AWG Brown Wire	45	FT
23	30200R	2IN Sealed Clearance Red	2	EΑ
24	30200Y	2IN Scaled Clearance Yellow	4	EA
	REAL	R WORK LIGHT WIRING		
Itom	Part Number	Description	Qt	<u>y.</u>
<u> </u>			2.50	FT
25	1-879-010004	14AWG Red Wire	2.50	
26	1-879-010010	14AWG White Wire	1	ΕA
27	3-272-010004	SPST Toggle Switch	2	EA
28	60004	3 x 7 Back-up Lamp w/Grommet	2	170
	WIRING	BED WITH EMERGENCY LIGHT		
Item	Part Number	Description	Ō	<u>ty.</u>
29	3-272-010004	SPST Toggle Switch	3	EΑ
30	3-272-010005	Switch Plate Cab	1	EA
31	3-446-010001	CF Light Bar w/Hook-up Kit	1	EA
32	59A-7	Multi-Conductor Cable	40	FT
	WIRING BE	D WITHOUT EMERGENCY LIGHT		
	2_272_010007	PTO Plate Cab	1	EA
30 32	3-272-010007 14-3 S0	Three Conductor Wire	32	FT
24	14-1 DO	And the second of the second o		



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- We provide complete repair parts lists.
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