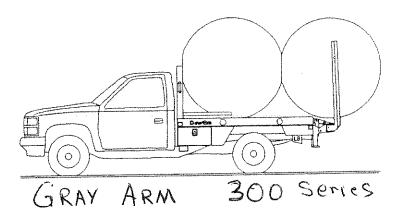
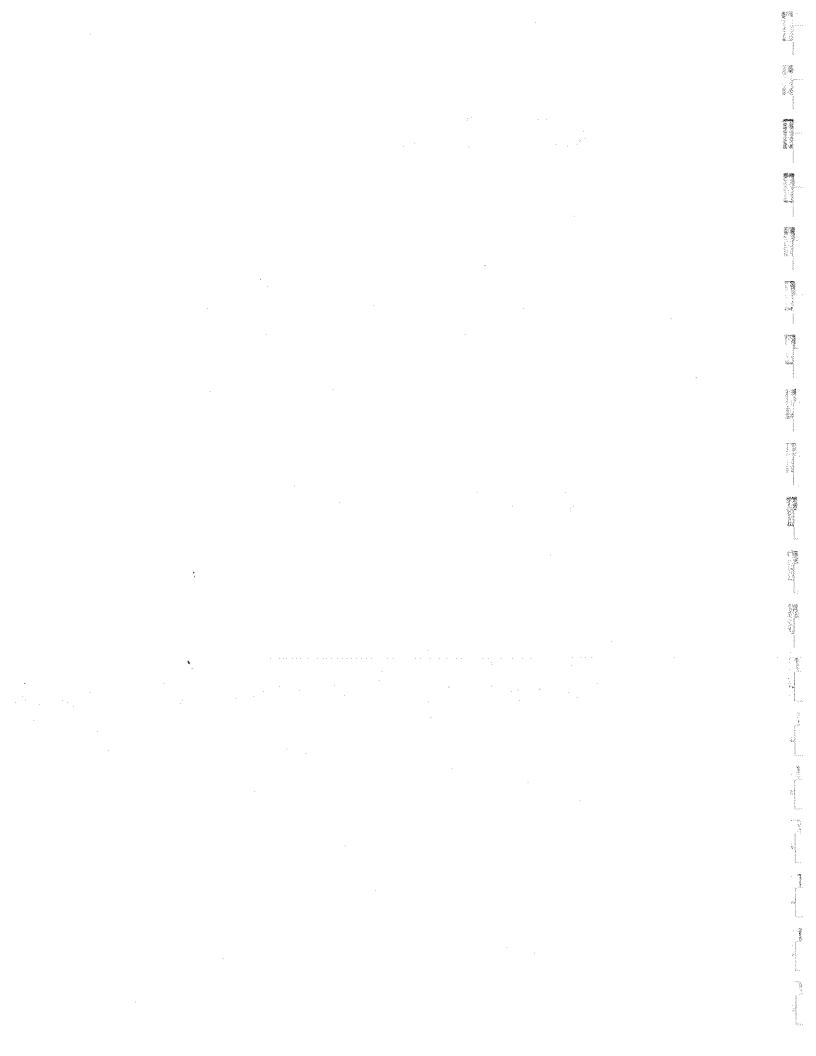
Operation & Service Manual

FLATBED





FOR YOUR RECORDS

Date, of	Purchase
Dealer's	Name
Dealer's	Phone
Serial N	umber

Following publication of this manual, certain changes in standard or optional equipment may have occurred which would not be included in these pages. Your DewEze dealer is the best source for up to date information.

DewEze Mfg., Inc. reserves the right to change product specifications at any time without incurring obligation to provide such updates to previously manufactured units.

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SAFETY PRECAUTIONS

GENERAL

- 1. Never stand under the hugger arms when operating the bale pickup unit, even when the arms are empty. Personal injury may result.
- 2. Make sure all safety pins are in place and flatbed mounting bolts are secure at the truck frame.
- 3. Make sure hinges, joints, and sliding parts are well greased, especially during off season to prevent rusting and blinding.
- 4. Check with your truck dealer for any load limits, additional suspension or tire requirements. The Flatbed's lifting capability may exceed the truck's load capacity in a few instances.

HYDRAULIC SYSTEM

- 1. Never activate the electric clutch except when truck engine is at idle. Switching clutch on at road speeds can seriously damage your hydraulic system.
- 2. Do not operate hydraulic system with hood open.

BEFORE OPERATING

FILL RESERVOIR

Park truck on flat and level surface to check and fill reservoir. Fill reservoir till oil is between bottom and top sightglass. Reservoir holds approximately 10 gallons of oil.

FILL SYSTEM

Start engine and run both cylinders in and out or up and down twice to fill system with oil. Make sure the two hoses coming through the Flatbed frame to the squeeze arms do not kink or stretch during operation. Check for hydraulic leaks.

SYSTEM PRESSURE

Connect a hydraulic test gauge to the quick couplers in hoses going to squeeze cylinder. Check hydraulic system for pressure. It should be 2500 psi.

OPERATING INSTRUCTIONS

STARTING

Turn pump ON with engine idling. (Red light will indicate pump is on.)

IMPORTANT: In cold weather, allow engine to idle for 5 or 10 minutes with pump on before operating the arms. This allows the oil to warm up and flow more freely. Failure to do so may cause hydraulic pump failure.

LOADING

Back the truck against the bale with the arms wide apart and tilted slightly upward. Close the arms firmly against the bale. Lift the bale onto the truck. Release the bale and repeat the operation for the second bale except do not release the bale after it is onto the truck. Instead, keep the bale in the arms while hauling and it will be ready for unloading at your destination.

UNLOADING

Do the reverse of the loading operation.

NOTE: Sometimes it may be necessary to operate with spinners to grip the front bale for unloading.

UNROLLING

With the arms laying on the bed, place the optional risers in the "eye" of the arms, and the spinners in the "eye" of the risers. Position the arms over the bale so the spinner is at the center of the bale. Close the arms and pick up the bale. To unroll, lower the bale onto the ground and drive. Gradually lower the arms as the bale unrolls.

NOTE: Without the risers, the spinners will not lower close enough to the ground to completely unroll the bale.

STORING THE ARMS

Close the arms partially and lay on the flatbed. Open arms until they are flush with the side of the bed. They now serve as sides for the flatbed.

TURN CLUTCH OFF when not using hydraulic system. Operating the truck at road speeds, or above 2,000 RPM, with pump engaged, may cause hydraulic pump failure.

MAINTENANCE

- 1. Oil reservoir must be kept full at all times. Maintain the oil between the two sightglasses.
- In cold weather, engage clutch and let the hydraulic system circulate until system sounds normal.
- 3. Change oil filter (10 micron) after first forty hours of use and then every 250 hours or anually, thereafter.
- 4. Keep belt tension tight. Loose belts may cause premature wear of belts and pulleys.
- 5. Watch hydraulic system for signs of leakage. Loss of hydraulic fluid may cause serious damage to major hydraulic components.
- 6. When quick-couplers leak, the O-ring may need to be replaced.
- 7. Examine the oil. If milky in appearance it is probably saturated with air or water and should be replaced with fresh oil.
- 8. Unusual sounds in the hydraulic pump or anywhere in the system should be investigated by a fluid power mechanic.
- 9. High heat, 190 degrees or greater, can be damaging to the hydraulic system and should not be tolerated. Feel various parts of the system to make sure there are no "hot spots" which may indicate a problem is developing.
- 10. Clutch should be disengaged when hydraulic system is not in use.
- 11. Make sure quick-disconnect couplers are clean, properly connected and mated, so that oil flows freely from hydraulic power source to implement.
- 12. For easy hookup of the couplers, shut clutch switch "off" and activate control valve switches with the ignition "on". This will release the pressure in the lines on the truck.
- 13. When quick-couplers are not in use, cover with dust caps.
- 14. Engine should not exceed 2,000 rpm with clutch engaged and pump operating.
- 15. CAUTION: Do not operate hydraulic system with hood open.

		TROUBLE SHOOTING
PROBLEM AREA	SYMPTOMS	POSSIBLE SOLUTIONS
Hydraulic Pump	No Oil Flow	 CHECK OIL LEVEL IN RESERVOIR. If oil level is low, check for leaks in system. CHECK BELT TENSION. Tighten if needed. Replace belt if necessary. CHECK FOR SHEARED KEY ON PUMP SHAFT. Replace key. CLUTCH NOT FUNCTIONING. See clutch section. INTERNAL PUMP DAMAGE. Have pump repaired or replaced. CHECK PRESSURE LINE AT PUMP TO SEE IF OIL IS MOVING.
	No Oil Pressure	 VALVE NOT FUNCTIONING. Check for disconnected wires at solenoid. CHECK FOR POSSIBLE LEAKS IN SYSTEM. Repair leaks or blown hoses. CHECK FOR MALFUNCTIONING SWITCH. Replace broken switches. PRESSURE RELIEF SPRING BROKEN ALLOWING OIL TO BYPASS SYSTEM. Replace spring. PRESSURE SEAL ON PUMP IS BROKEN OR WORN. Replace. BELTS OR CLUTCH ARE SLIPPING. Tighten belts. PRESSURE RELIEF MAY BE SET TOO LOW. CAUTION: PRESSURE EXCEEDING 2,600 PSI CAN DAMAGE THE PUMP.
Clutch	Does Not Engage	 CHECK FOR BLOWN FUSE. Replace. CAUTION: Fuse should not exceed 30 amps. CHECK WIRE TO CLUTCH. Insure there are no breaks or shorts in wire and that it is plugged into clutch lead. CHECK FOR BAD SWITCH IN SYSTEM. Replace. CHECK FOR BLOWN MAGNETIC COIL. Use jumper from positive battery terminal to coil lead to check coil. Replace coil if necessary.
Belt(s)	Jumping Off Pulleys	 BELTS TOO LOOSE. Tighten belts. CHECK FOR EXCESSIVE BELT WEAR. Replace worn belts. CHECK FOR LOOSE PUMP BRACKET. Tighten loose bolts. Replace broken bolts. CHECK ALIGNMENT OF CLUTCH AND CRANKSHAFT PULLEYS. Re-align pulleys. CHECK CRANKSHAFT PULLEY FOR LOOSE OR BROKEN BOLTS. Tighten loose bolts. Replace broken bolts. CHECK ALIGNMENT OF IDLER PULLEY (IF APPLICABLE) AND THE CONDITION OF IDLER PULLEY BEARINGS. Re-align idler pulley. Replace worn or broken bearings.

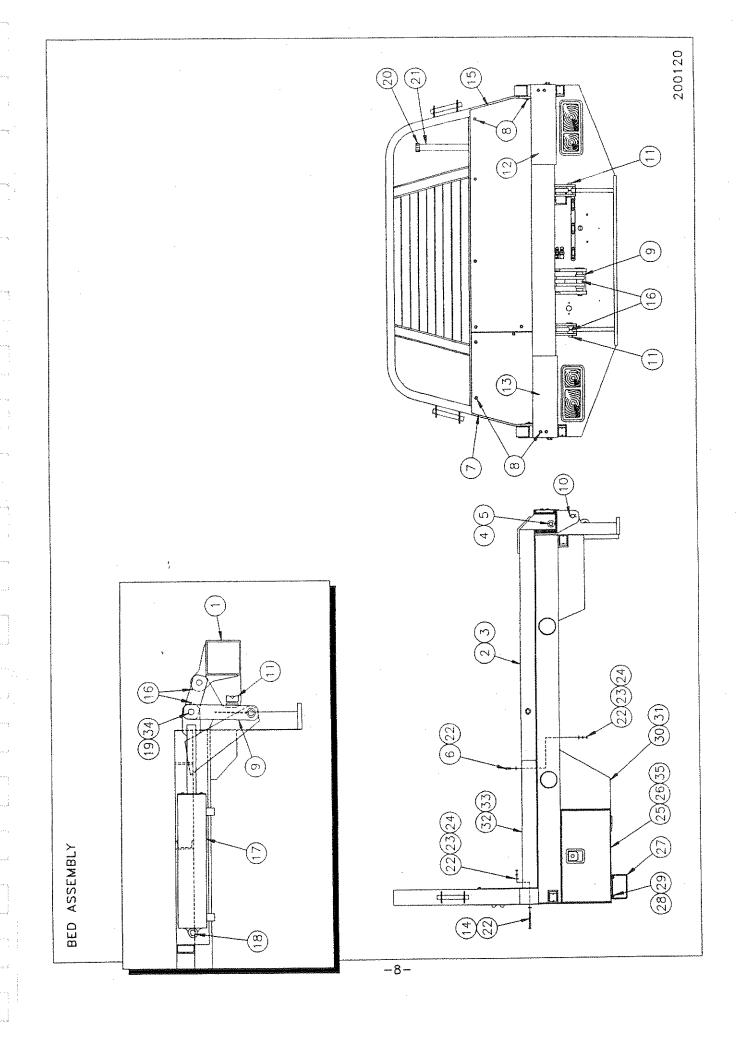
TROUBLE SHOOTING - Cont.

Assuming coil and electrical systems seem to functioning, use a screw driver and push in on the button at the end of the tube assembly. (Note: The solenoids rest on this tube.) This will usually operate the valve. CAUTION: Make sure no one is on or around moving parts of the equipment that is hooked to the hydraulic system.

If spool is jammed, do not force spool as this may cause a scar on the spool or valve body. Disassemble valve, clean, and reassemble. If spool is still tight, use a very fine emery cloth to smooth burrs or rough edges on spool.

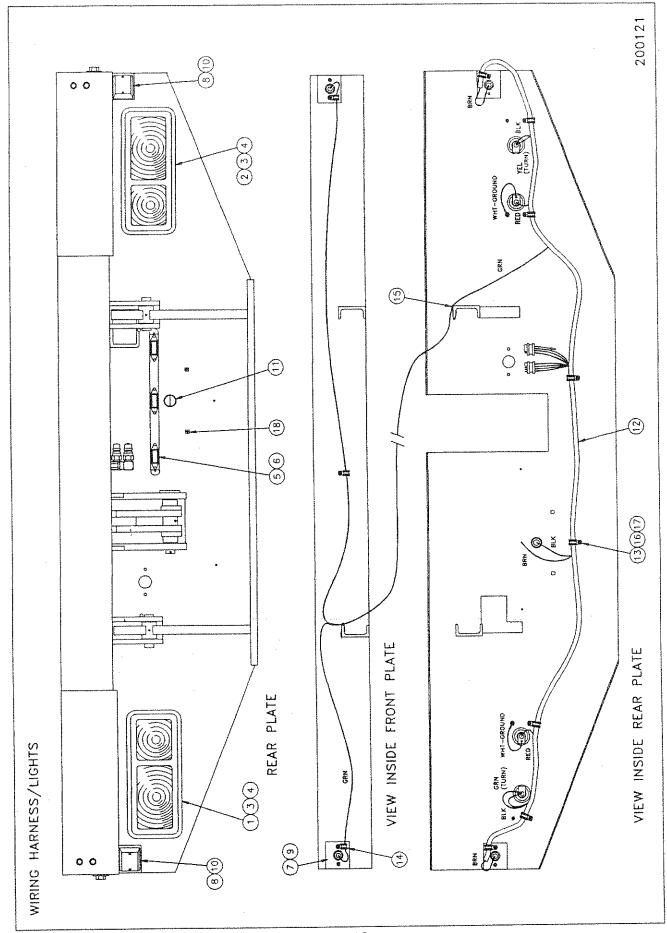
NOTE: The relief valve is preset from factory. Warranty is voided if valve pressure is increased beyond factory setting.

For additional trouble shooting information and help contact your dealer.

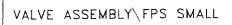


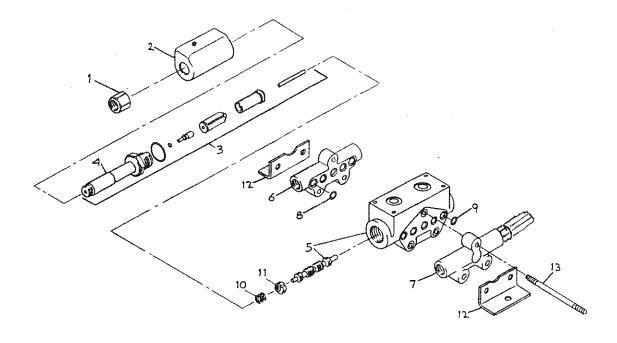
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DESCRIPTION	CROSSARM ASSY	HUGGER ARM/L	HUGGER ARM/R	5/8NC X 1 1/2 BOLT	r/a civa washeb	_ ,	3/8NC X 1 BOLI	VALVE COVER PLATE	×	# / F10 V	JULER ARM	COLLER	PIN/CROSSARM	CROSSARM COVER/R	I/AUNCONON CONTRACT			RESERVOIR	GREASE ZERK		PIN/BASE	$\overline{}$		E S	FLAT	3/8 LOCK WASHER	3/8NC NUT
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LIGHT T ASSY/AMBER ASSY/RED AMBER RED	E SCREW
SY/L SY/R SY/R SHT CATION D. LIGHT LIGHT LIGHT LIGHT LIGHT C	JUT JCENSE PLATE SCREW
IGHT IGHT IGHT TAIL TAIL MARKI MARKI MARKI MARKI MARKI CLIP	10-24 NUT NYLON LICE
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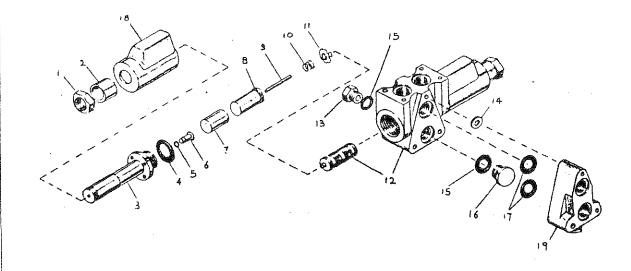




ITEM	PART NO.	DESCRIPTION
1	720005	Nut
2	720004	Solenoid coil
3	720003	Tube sub-assembly
4	720017	Tube
5	720002	Body and spool
6	720008	Outlet
7	720006	Inlet
8	720019	O-ring/outlet
9	720018	O-ring/inlet
10	720023	Spring
11	720024	Spring retainer
12	720022	Mounting bracket
13	720021	Tie rod

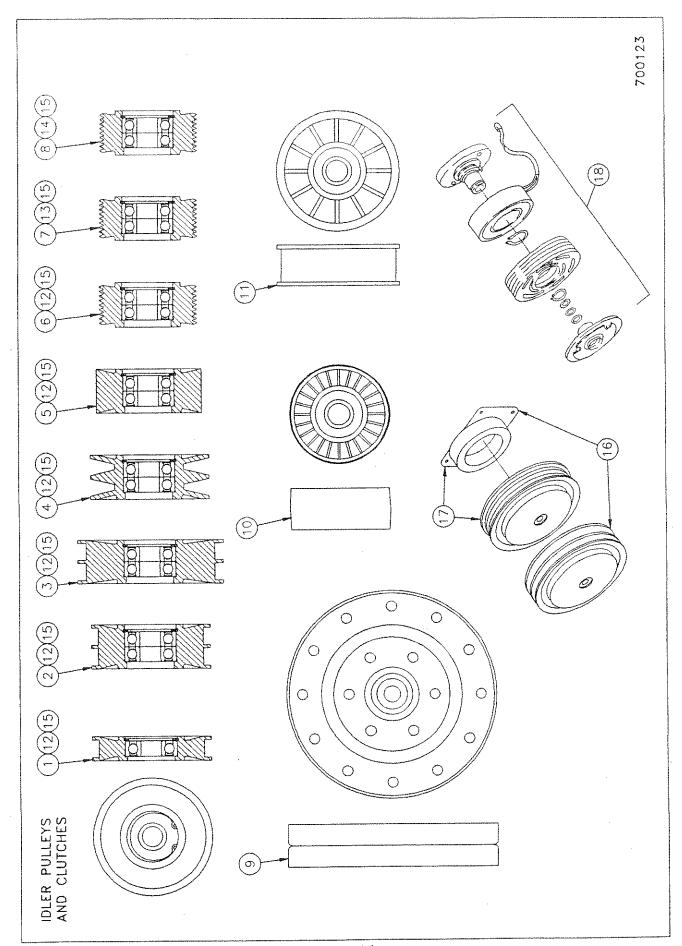
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VALVE ASSEMBLY\FPS LARGE



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ITEM
      PART NO.
                DESCRIPTION
      720044
                Nut
      720045
                Sleeve
  2
  3
      720046
                Tube Sub-assembly
      720047
                0-ring
  5
6
7
                0-ring
      720048
      720050
                 Button
      720051
                 Plunger
  8
      720052
                 Plug
  9
      720053
                 Pin<sup>°</sup>
 10
      720054
                 Spring
                 Retainer/spring
      720055
 11
                 Spool & body (matched set)
 12
      720056
 13
      720057
                 Plug
 14
      720058
                 Mylar shim
                 0-ring
 15
      720059
                 Series plug
      720060
 16
                 0-ring
 17
      720061
                 Solenoid coil
 18
      720062
 19
      220047
                 Relief valve
                 Valve assembly/1-bank
 20
      220043
                 Valve assembly/2 bank w/relief
      220044
 21
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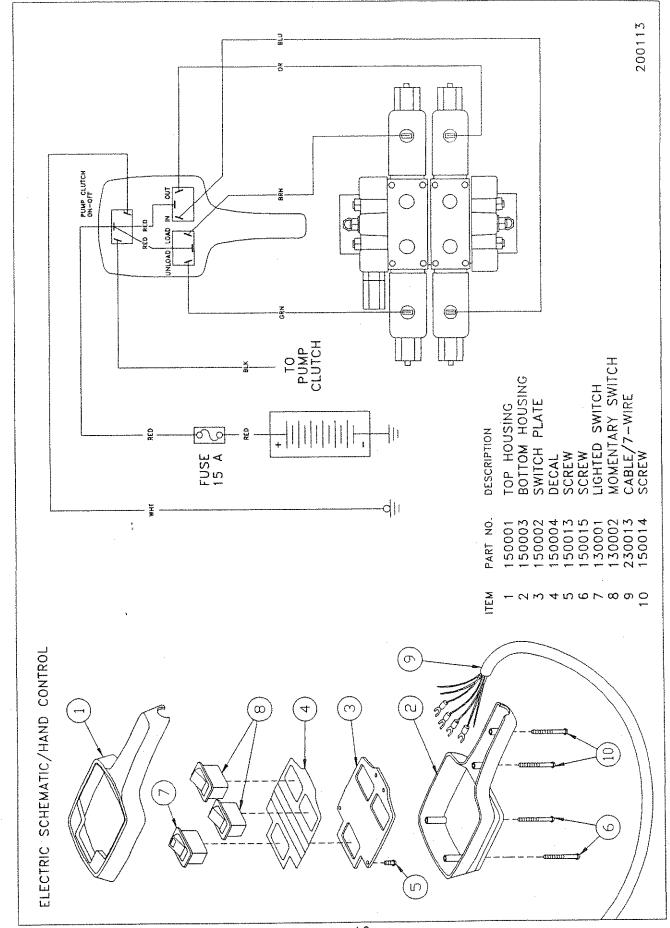
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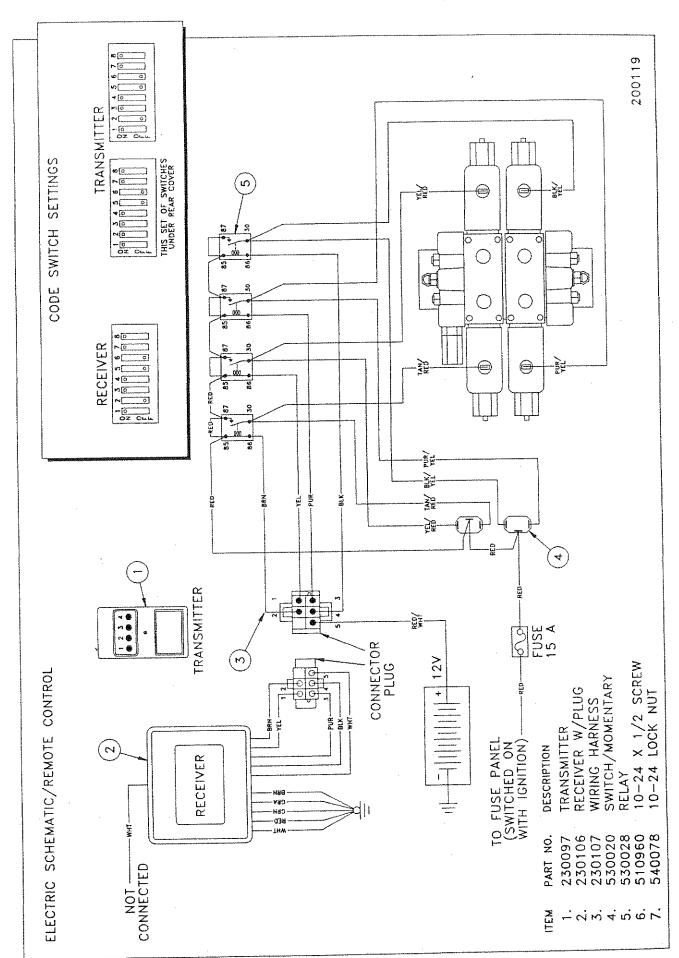


IDLER PULLEYS AND CLUTCHES

PULLEY ASSY/1	PULLEY ASSY/2 BACK 3.0	PULLEY ASSY/2 BACK	PULLEY ASSY/2 V-	PULLEY ASSY/FLAT BACK	PULLEY ASSY/SERPENTINE	PULLEY ASSY/SERPENTIN	PULLEY ASSY/SERPENTINE	PULLEY ASSY/FLAT B	PULLEY ASSY/FLAT PLA	PULLEY A	ARING .625"	.50	99.		STD. V-	H.D. V-GROOV	-GROOV	CH/H.D. SERP. 8-GROOVE	UTCH-HUB ASSY./H.D. SERP. 6-GROOVE	SSY./H.D. SERP. 7—GROO
DESCRIF	IDLER	DLER	IDLER	IDLER	IDLER	IDLER	IDLER	DLER	DLER	IDLER	BEARI	BEAR	BEAR	SNAP	CLUT(CLUT(CLUT(CLUT	CLUT	CLUT
4RT 1	4004	740133	740042	4020	4015	740158	4014	4017	4015	740145	4006	4015	4014	4006	4003	4003	740144	4014	401	740179
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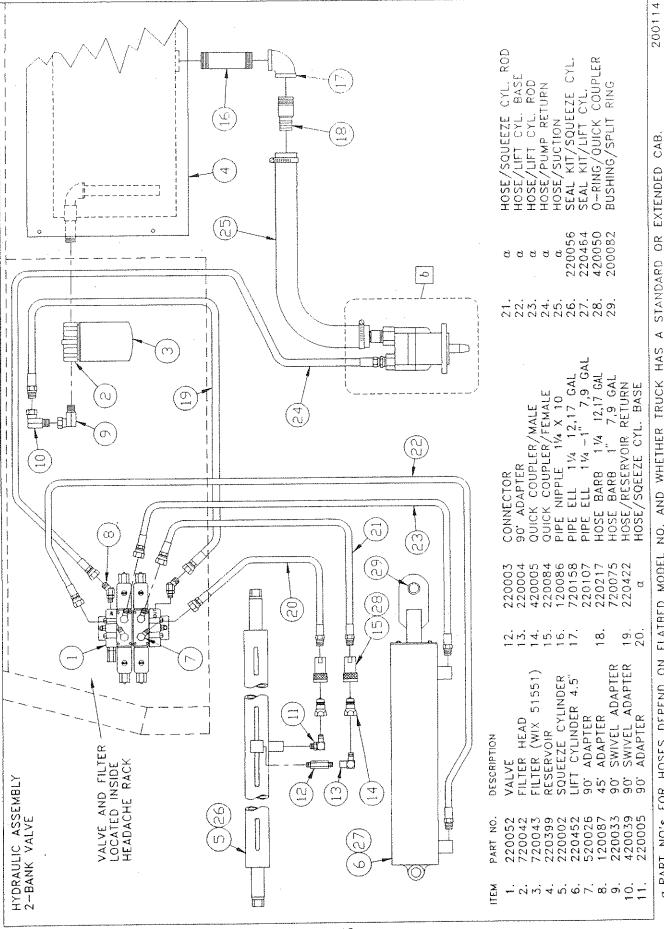
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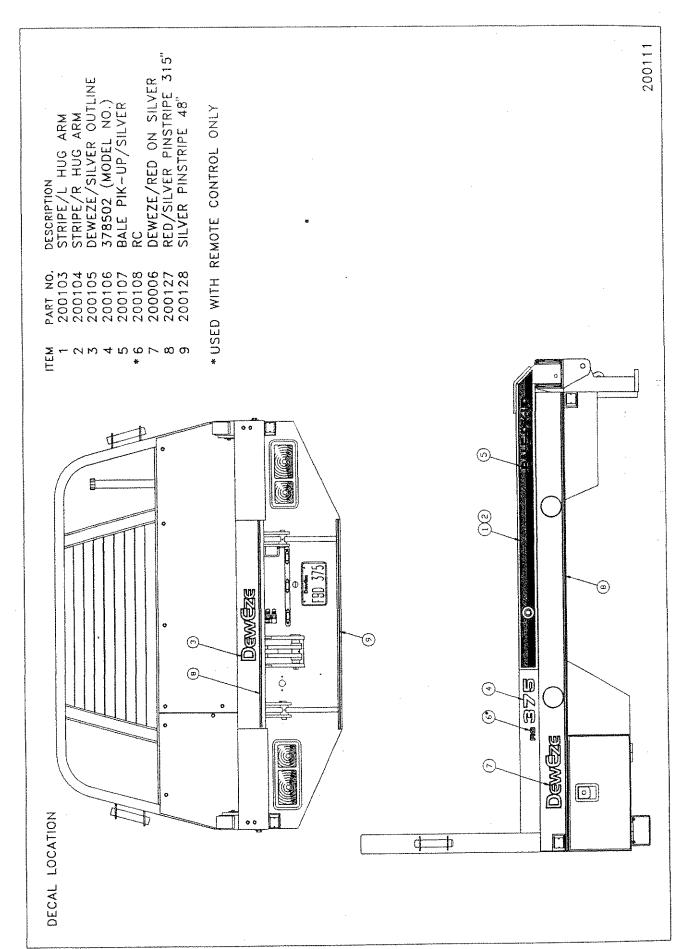


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DEWEZE MANUFACTURING, INC.

STATEMENT OF WARRANTY

DewEze Mfg., Inc. warrants to each purchaser of new DewEze Bale Pick-up Flatbeds from an authorized dealer or representative that such equipment to be free from manufacturing defects which appear while in normal service for a period of TWO YEARS commencing with delivery to the original user (effective on Flatbeds sold after January 1, 1997).

The obligation of DewEze under this warranty is expressly limited, at our option, to replacement or repair at a service facility designated by DewEze or at the manufacturing plant in Harper, Kansas, of such part or parts as inspection shall disclose to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance) while in the possession of the consumer.

DewEze shall not be liable for consequential damages of any kind, including but not limited to, consequential labor costs or transportation charges in connection with replacement or repair of defective parts.

DewEze makes no warranty with respect to trade accessories. They are subject to the warranties of their respective manufacturers.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. DewEze makes no other express warranty, nor is anyone authorized to make any on behalf of DewEze.

For information procedures please contact your nearest dealer.