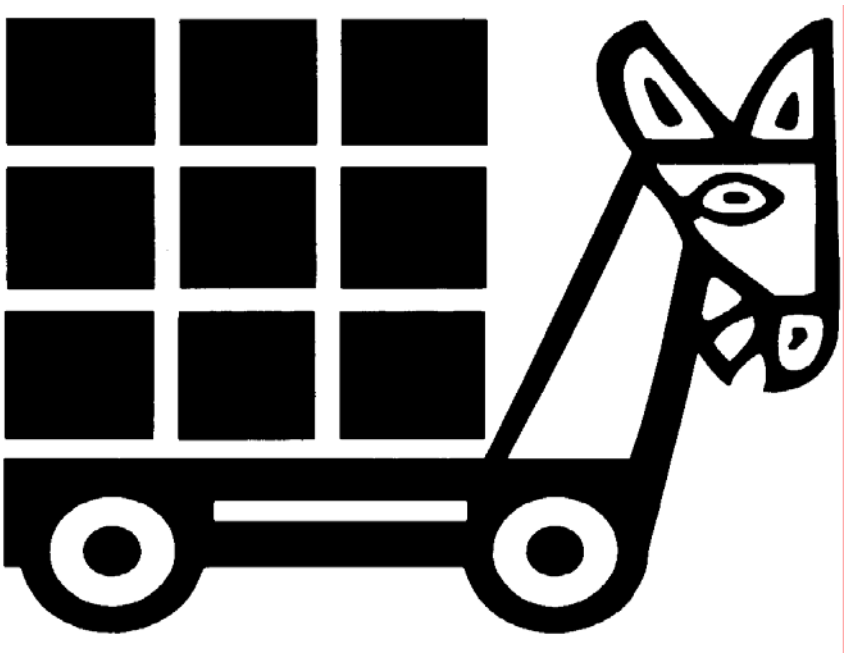
NSN 3920 Truck, Hand Lift, Pallet. Manual-Hydraulic, Shipboard, HS Safety Rating, 42-27-60XTSB

PALLET MULE



SHIPBOARD PALLET TRUCK

42-27-60XTSB

PARTS / SERVICE MANUAL

REVISED – FEBRUARY 2003

WESLEY INTERNATIONAL

3680 Chestnut Street Scottdale, GA 30079

800-241-2869 404-292-7441 404-292-8469 Fax

WWW.PALLETMULE.COM

INTRODUCTION

The factory-installed oil in the Shipboard Pallet Mule is automatic transmission fluid, type dextron 2.

The hydraulic system holds approximately one pint of fluid and operates on approximately ½ pint of fluid.

The oil level and filler plug is located on the left-hand side on the pump assembly approximately 2 inches down from the top of the pump.

To properly fill the reservoir, lower forks, remove level-filler plug, squirt fluid from squirt-type oil can into hole until oil trickles out the bottom edge of the hole. This is the maximum amount of fluid necessary to operate properly.

The wiper seals around the top of the pump piston and lift ram are fully functional wiper rings and do not need to be replaced unless they are damaged, as both the pump piston and lift ram can be removed directly from and reinstalled through the wiper seals without their having to be removed.

USE OF LOCTITE WHEN NECESSARY TO INSTALL:

(A) Preparation on the B1-15.5 pump piston seal involving installation in its oversize casting bore.

1. The seal and its respective casting bore must be clean and free of debris and oil.
2. To clean: Spray the casting bore surface, and the outer perimeter of the pump seal with Locquic Primer-Cleaner grade T, and then wipe with a clean rag.
3. Next: Spray the casting bore surface, and outer perimeter of the pump seal again with Locquic Primer-Cleaner grade T, this time allowing to dry for approximately 5 minutes.
4. Loctite Locquic Primer-Cleaner grade T causes the Loctite retaining compound to harden faster and insures best results. MIL Spec. 22473

(B) Application of the Loctite Retaining Compound to the B1-15.5 pump seal and its respective oversize casting bore. MIL Spec. R46082

1. Apply a coating of retaining compound to the inside perimeter of the casting bore. Also apply a coating of retaining compound to the outside perimeter seal.
2. Insert seal in casting bore: allow 1 hour for proper hardening.
3. It is of great importance that the clearances between the mating parts be completely filled in order to obtain a leak-proof seal. Make certain not to remove require material while wiping any excess, specifically where the pump piston is involved. Loctite is a material that hardens from a liquid state into a solid state when confined between mating parts without the presence of air.

The pump piston, lift ram and release plunger cylinders are all burnished to a #10 finish. In conjunction with this fine finish, the Pallet Mule uses simplified packing, consisting of polyurethane O-rings and U-cups. This packing is made of the same tough, resilient material that the wheels are coated with. The combination of polyurethane working against this fine finish means years of trouble free hydraulic operation.

SAFETY AND OPERATIONAL CONSIDERATIONS

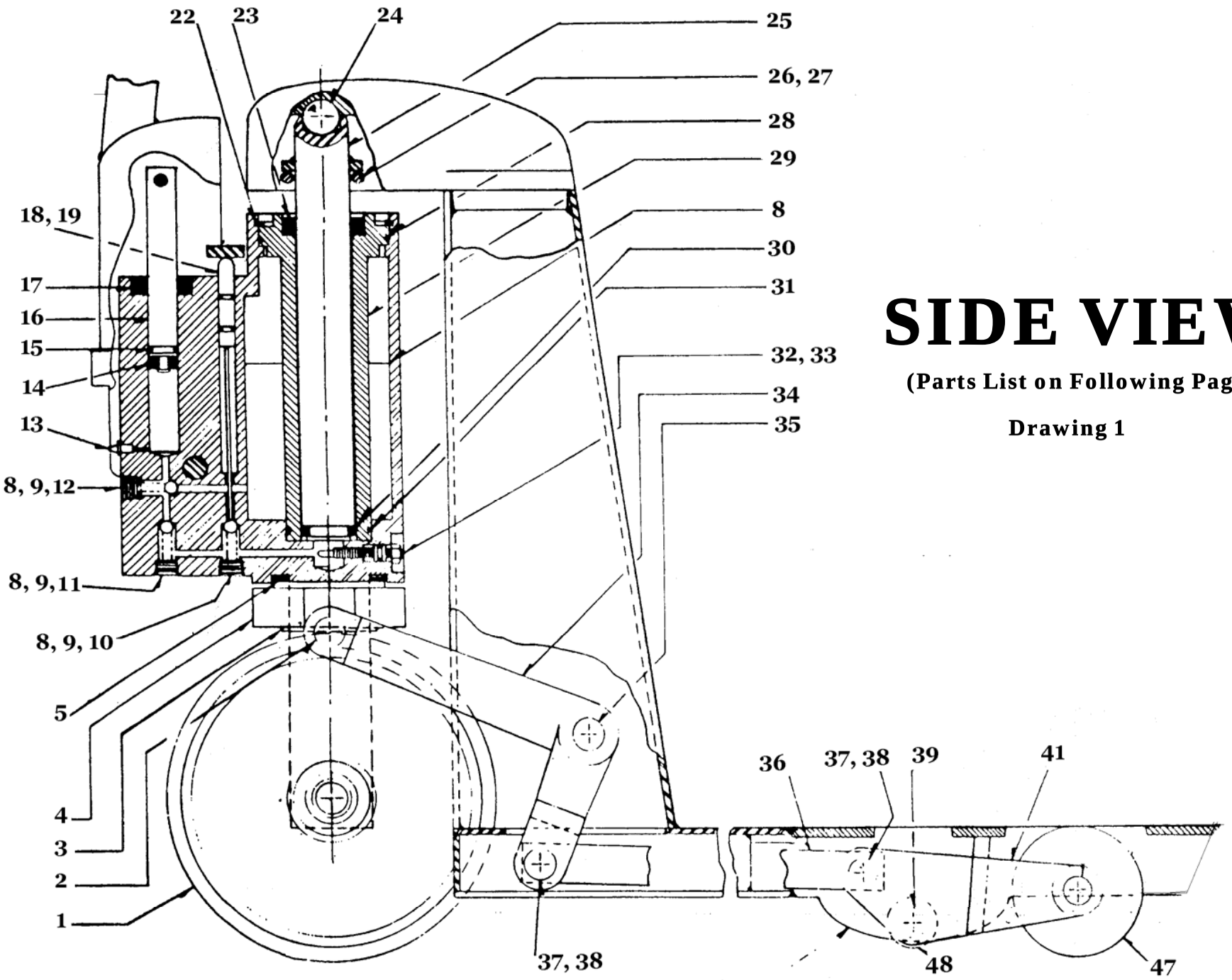
- Read Manual before operating hand pallet jack.
- Always make sure hand pallet truck is operated by trained personnel.
- Keep hands, feet and loose clothing clear of area beneath hand pallet truck.
- Always make certain that your view is unobstructed in the direction that you are moving.
- **Do** balance the load evenly on the forks.
- **Do Not** exceed the maximum lifting capacity as shown on the id plate.
- **Do Not** ride or carry personnel on hand pallet truck.
- **Do Not** lift loads or objects with the fork tips.
- **Do Not** use hand pallet truck on grades.

How to Operate

- To raise the load, pump handle until load reaches desired height
- Hold the release lever up – The truck will lower load.
- Hold brake handle up to move. Releasing brake handle will immediately apply brakes.

Take Hand Pallet Truck out of service immediately if:

- Hydraulic pump is leaking
- Any fasteners are loose or missing
- Any part of the hand pallet truck is bent or damaged.
- Brake does not automatically hold hand pallet truck in a locked position.



SIDE VIEW

(Parts List on Following Page)

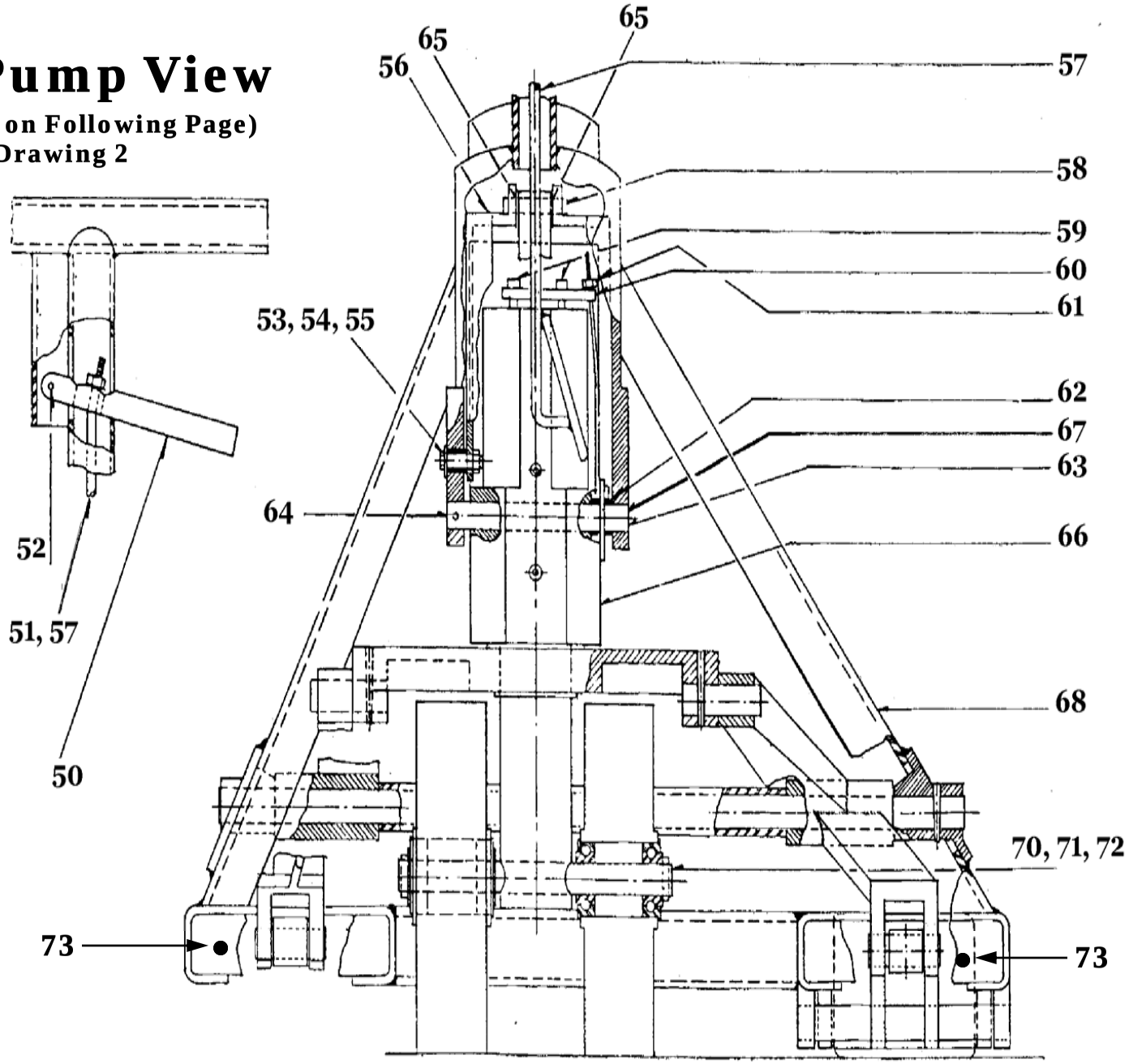
Drawing 1

SIDE VIEW PARTS

Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	DM-09	2	Steer Wheel Assembly	25	B1-26 10M SS	1	Lift Ram 10M, Stainless Steel
2	B1-03C SS	2	Load Arm Pivot, Stainless Steel	**26**	B1.34	2	Stripper Bolt
3	B1-08B	1	Load Arm Snap Ring	**27**	B1-34B	2	Nut
4	B1-03 Spec	1	Load Arm	**28**	B1-29	1	Center Cylinder O-ring, Top
5	AA-30 CR	1	Thrust Bearing	**29**	B1-01C 10M	1	Center Cylinder 10M
8	B1-20	4	Plug	**30**	B1-32 10M	1	Lift Ram U-cup, 10M
9	B1-16	3	Ball	**31**	B1-06	1	Center Cylinder O-ring, Bottom
10	B1-35	1	Low Valve Ball Spring	**32**	B1-38	1	Restrictor
11	B1-33	1	High Pressure Spring	**33**	B1-38B	1	Restrictor O-ring
12	B1-31	1	Low Pressure Spring	**34**	B3-01 L7 Spec	1	Left Bell Crank
13	B1-11	1	Bleeder Valve	**34**	B3-01 R7 Spec	1	Right Bell Crank
14	B1-18.5	1	Pump Piston U-Cup	**35**	B3-02	1	Bell Crank Axle
15	B1-36.5	1	Air Seal	**36**	B6-01 Spec	2	Push Rod
16	B1.17.5 SS	1	Pump Piston, Stainless Steel	**37**	B6-02	4	Push Rod Axle
17	B1-15.5	1	Pump Piston Seal	**39**	B4-02 Spec	2	Load Wheel Fork Axle
18	B1-13 SS	1	Release Plunger, Stainless Steel	**41**	B4-01T GF	2	Load Wheel Fork, w/ Grease Fit
19	B1-14	2	Release Plunger O-ring	**42**	B4-04 SS Spec	2	Load Wheel Axle, Stainless Steel
22	B1-28	1	Cylinder Snap Ring	**43**	B4-07 OSB	8	Load Wheel Bearing
23	B1-27 10M	1	Lift Ram Seal	**47**	A3X4POSB	4	Load Wheel
24	B1-25	1	Load Pivot Ball	**49**			Roll Pin

Rear Pump View

(Parts List on Following Page)
Drawing 2



Rear Pump View Parts

Item #	Part #	Qty	Description	Item #	Part #	Qty	Description
50	B5-A	1	Hand Release	**62**	B1-39	1	Spacer
51	B5-B	1	Nut	**63**	B4-04	1	Handle Pivot
52	B1-03B	1	Screw Post	**64**	B1-40R SS	1	Roll Pin, Stainless Steel
53	B1-04B	2	Cap Screw	**66**	B1-01 10DM	1	Hydraulic Pump Housing
54	B1-04W SS	2	Washer, Stainless Steel	**67**	B4-1R SS	2	Roll Pin, Stainless Steel
55	B5-6	2	Bushing	**68**	B2	1	Frame
56	B1-04 L/R	1	Pump Link Assembly	**69**	B1-40CP SS	1	Cotter Pin, Stainless Steel
57	B5-04A	1	Release Link Assembly	**70**	DM-20	1	Steer Wheel Axle
58	B1-41N	1	Lock Nut	**71**	B6-04 SS	2	Steer Wheel Axle Pin
59	B1-42	2	Release Guide	**72**	B1-07 RB OSB	4	Steer Wheel Bearing
60	B1-43	1	Release Bar	**73**	DM-14	2	Static Strips
61	B1-44A	1	Handle Release Adj. Nut				

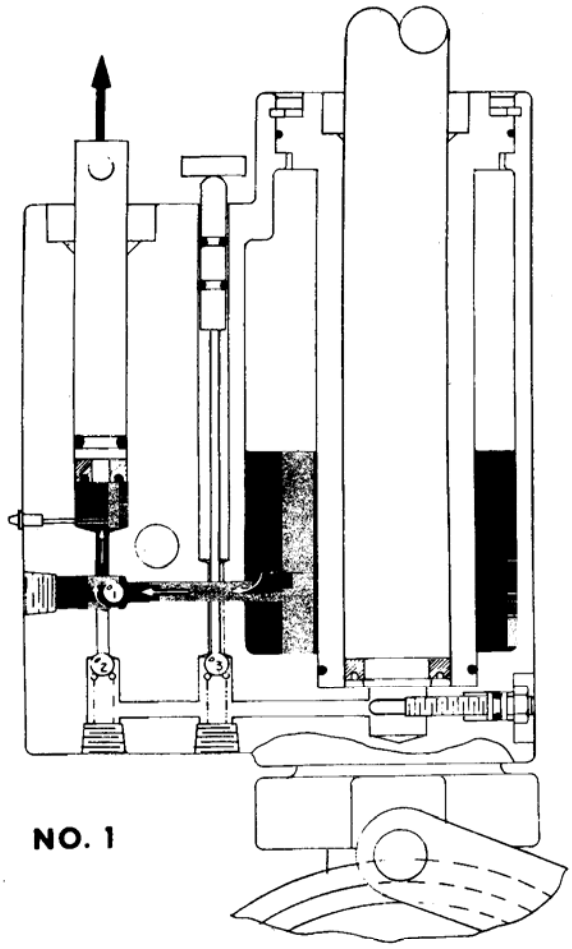
B1-10M 5/8 Hydraulic Repair Kit for Shipboard Pallet Truck (42-27-60XTSB)

Kit contains all necessary seals, wipers, o-rings, springs, and balls required to rebuild pump.

SHIPBOARD PUMP
REBUILD PROCEDURE

(Requires B1-10M 5/8 Hydraulic Kit)

1. Remove B1-28 Snap Ring at top of pump cylinder
2. Fluid level under Lift Ram (B1-26 10M SS) mush have approximately 1.5 – 2" under Lift Ram U-cup. Procedure is as follows...Place shop rag around the top of the pump to prevent oil splatter. Firmly strike the top of the Lift Ram with a rubber mallet. The fluid back pressure will cause the B1-01 C Center Cylinder to lift out. Remove the lift ram ,part B1-26 10MSS.
3. Remove B1-04 R/L pump straps.
4. Lift out B1-17.5SS pump piston.
5. Remove both the B1-42 release guides and B1-13SS release plunger.
6. Remove the B1-20 hydraulic plugs (4 plugs), along with the B1-35, B1-33, B1-31 springs.
7. Remove B1-16 balls (3) and the B1-13 RP release plunger.
8. Keep all parts clean during the reassemble process.
9. Replace all O-rings, U-cups, Wipers, Springs, and Balls.
10. Reassemble pump in reverse order of part removal, applying one drop of non-detergent SAE 30 oil to all o-rings, wipers and seals.
11. Fill pump in the upright position with Dextron Type 2 Automatic Transmission Fluid. Fill to the bottom of the B1-20 filler plug, with the Lift Ram in the lowered position.
12. Open B1-11 Bleeder Valve 1/8 turn to remove air trapped under the pump piston. Close valve when fluid runs free of air. Do not over tighten.
13. Reinstall pump and adjust B1-38 Restrictor screw to set lowering speed.



NO. 1

PALLET MULE HYDRAULIC SYSTEM

Schematic No. 1 showing pump filling from reservoir:

Normal Action: On the up stroke of the main handle we have the intake stroke, which draws oil from the reservoir into the pump piston cylinder. Ball #1 is pulled off its seat allowing oil from the reservoir to be pulled up under the piston, balls #2 and #3 are seated by spring pressure.

TROUBLE SHOOTING:

EFFECT: - Air, instead of oil, is pulled into the pump piston on the intake stroke, resulting in a loss of pumping effort on the subsequent pump stroke.

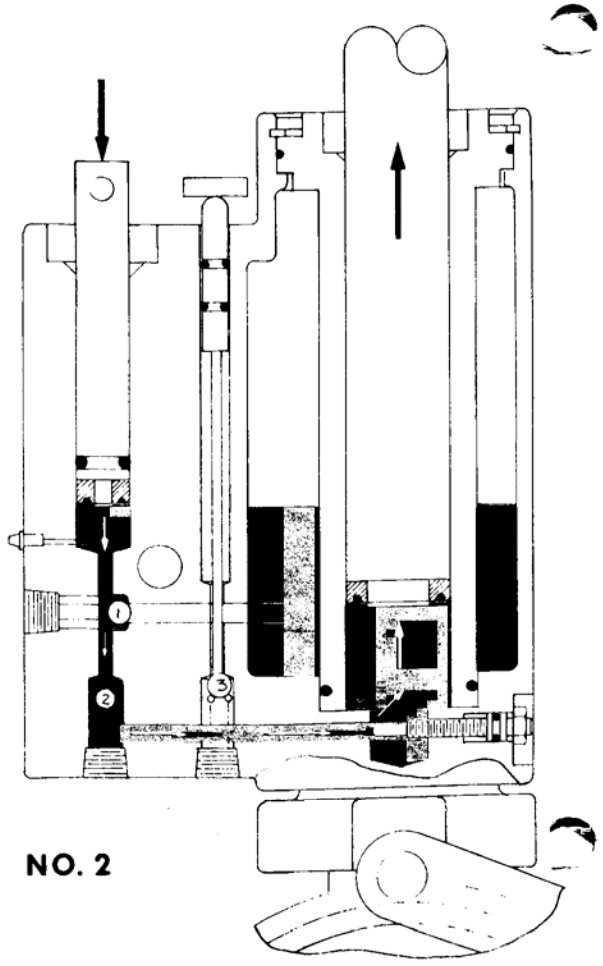
CAUSE: - Truck may have been turned upside down allowing air to be pulled into system.

CORRECTION: - Bleed system as follows:

1. Place handle in near upright position, allowing room for your hand to manipulate wrench.
2. Open bleeder screw P/N B-1-11 with ¼ inch box end wrench.
3. Push handle rest of the way down fast.
4. Close bleeder screw snugly - don't jam.
5. Repeat if necessary. You should now have a full handle stroke.

CAUSE: - Release plunger "O" rings and/or pump piston "O" ring are worn and allow air to be pulled into system.

CORRECTION: - Replace release plunger "O" ring and/or pump piston "O" ring.



NO. 2

PALLET MULE HYDRAULIC SYSTEM

Schematic No. 2 showing pump pressure stroke.

NORMAL ACTION: - On the downstroke of the main handle, oil accumulated from the upstroke of the main handle is forced from the pump cylinder by the pump piston to the lift ram cylinder causing the lift ram to raise, which in turn causes the frame and/or load to raise. Ball #2 is forced off its seat by the oil pressure. Balls #1 and #3 are seated by spring pressure.

TROUBLE SHOOTNG::

EFFECT: - On the downstroke of the main handle the lift ram raises, but drops back down when the main handle is raised. If there is a load on the forks, you will not only see the lift ram drop back down, but will feel back-pressure on the handle.

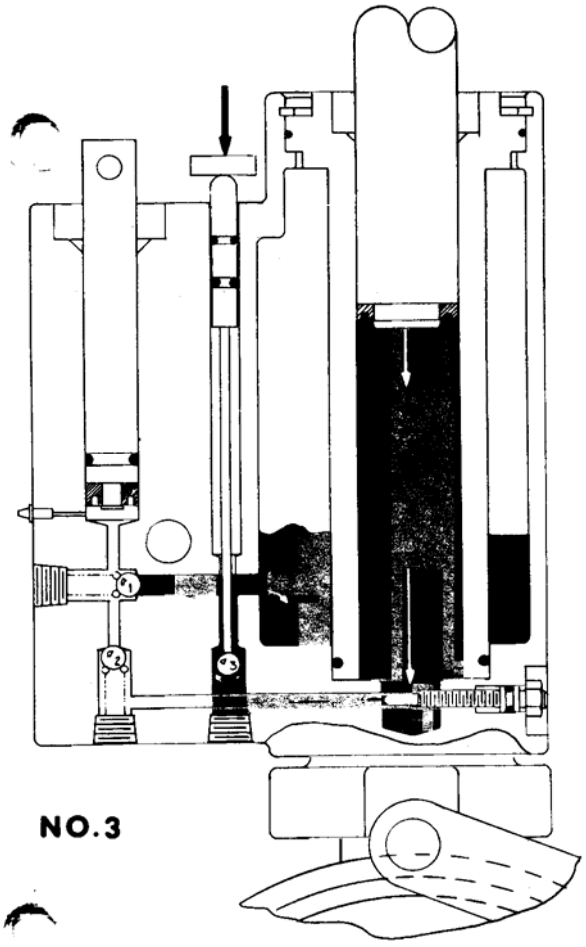
CAUSE: - Ball #2 is not seating properly.

CORRECTION: - Remove B-1-33 spring and ball #2, wipe ball clean and probe ball seat with a magnetic pencil. Reinstall spring and ball.

EFFECT: - On the downstroke or pump stroke of the main handle the lift ram does not raise.

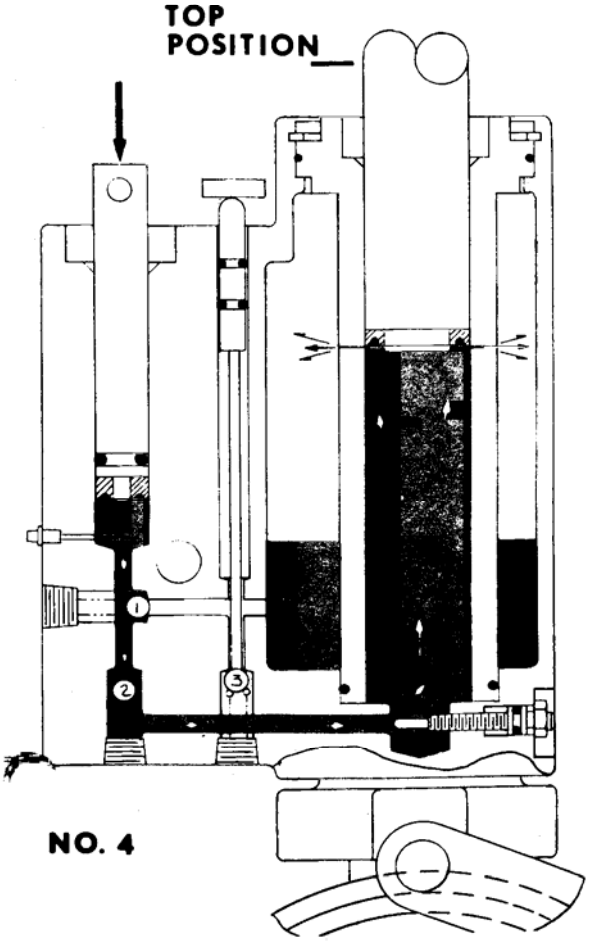
CAUSE: - Ball #3 is not seating because of a particle under the ball or perhaps the release plunger is out of adjustment or hanging up so as to hold ball #3 off its seat, allowing the oil to by-pass and simply recirculate back through the reservoir and pump instead of applying pressure under the lift ram.

CORRECTION: - Remove B-1-35 spring and ball #3. Wipe ball clean and probe ball seat with a magnetic pencil. Reinstall spring and ball.



NO.3

TOP POSITION



NO. 4

PALLET MULE HYDRAULIC SYSTEM

Schematic No. 3 showing load release and lowering speed restrictor operation.

RELEASE OPERATION:

NORMAL ACTION: - Hand actuation of the hand release lever located adjacent to the main handle activates the release plunger and rod, which in turn pushes ball #3 off its seat, allowing the oil that is holding the lift ram in a raised position to flow back into the reservoir with the resultant lowering of the lift ram and/or load. Ball #1 and #2 are seated by spring pressure.

TROUBLE SHOOTING:

EFFECT: - The load wil not release when the hand release lever is actuated.

CORRECTION: - The hand release adjustment nut needs to be adjusted downward on the short link (P/N B-1-44A).

EFFECT: - When a loaded truck is being pushed with the main handle in a vertical position, the load lowers.

CORRECTION: - The hand release adjustment nut needs to be adjusted upward on the short link (P/N B 1-44A).

RESTRICTOR OPERATION:

The restrictor is a simple screw, this screw is located at the rear lower portion of the hydraulic housing and is designed to enable the easy adjustment of load lowering from extremely slow lowering to fast lowering, depending on the handling requirements of the user.

EFFECT: - Load lowers too slowly.

CORRECTION: - Turn screw counter-clockwise. This action backs off screw and allows for faster release of oil from under lift ram.

EFFECT: - Load lowers too rapidly.

CORRECTION: - Turn screw clockwise. This action further blocks passage and allows for slower release of oil from under lift ram.

EFFECT: - Main handle locks up, cannot be pulled downward in pumping stroke.

CAUSE: - Restrictor has been screwed all the way into the outlet port under the ram blocking the flow of oil through the entire system.

CORRECTION: - Back off on restrictor screw.

PALLET MULE HYDRAULIC SYSTEM

Schematic No. 4 showing lift ram at top position with oil by-pass.

NORMAL OPERATION:-When the load is fully raised the lift ram is at its top position, which is controlled by the by-pass which allows all additional oil pumped into the lift ram cylinder to flow back into the reservoir.

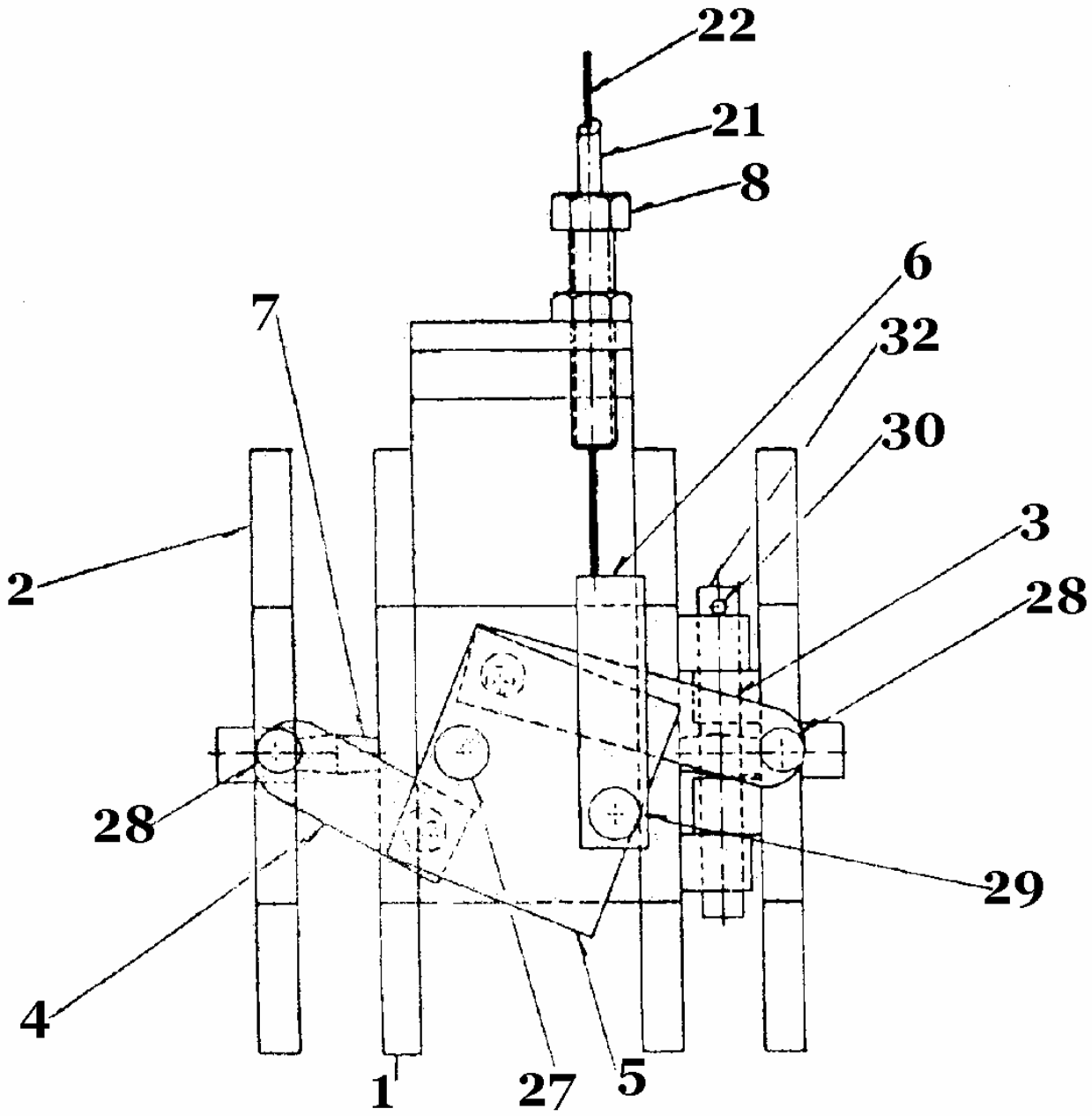
TROUBLE SHOOTING:

EFFECT:-Ram drifts down, does not hold position.

CAUSE:-No. 1 B-1-32 "U" cup that seals the lift cylinder has been cut by oil bypass.
No. 2 - B-1-6 "O" ring that seals the center cylinder into the tapered bore in the base of the pump housing has been nicked or chipped, allowing oil from under the ram to by-pass back into the reservoir.

CORRECTION: - No.1 - Replace B-1-32 lift ram "U" cup.
No. 2 - Replace B-1-6 "O" ring on bottom of center cylinder.

NOTE: To remove center cylinder: remove B-1-28 center cylinder snap ring. Be sure oil is in the reservoir. Raise the B-1-26 lift ram a couple of inches so that it is not bottomed out. Then strike top of lift ram firmly with a leather or rubber mallet. The back-pressure will jar the center cylinder loose where it can be hand removed.



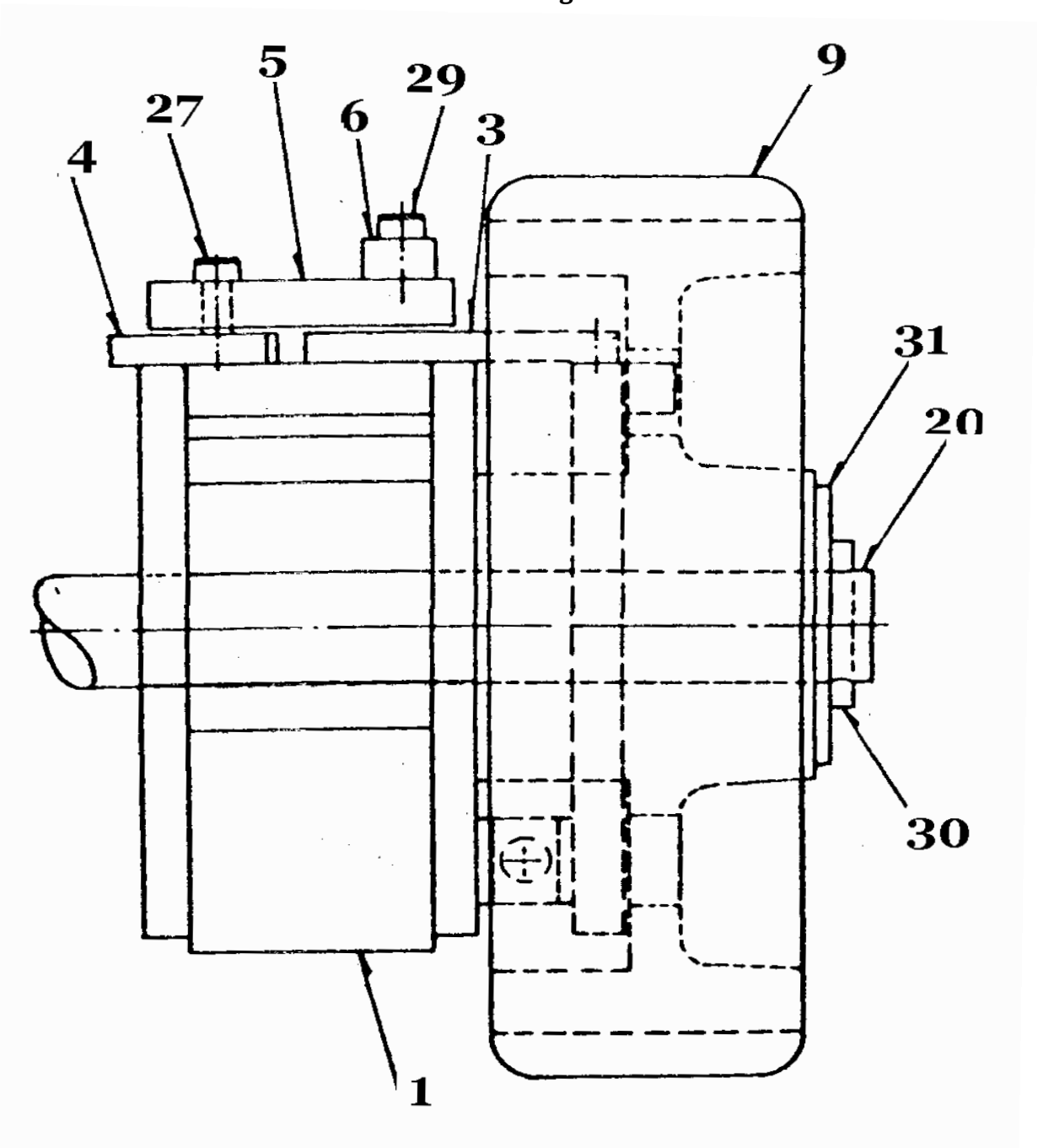
Internal Brake Parts

Drawing 3

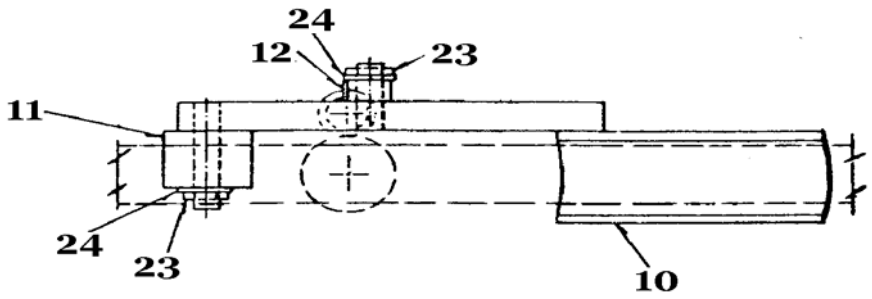
Item #	Part #	Qty	Description	Item #	Part #	Qty	Description
1	DM-01	1	Spindle Stop	21	DM-21	1	Cable Housing
2	DM-02	2	Clapper Plate	22	DM-22	1	Cable, Stainless Steel
3	DM-03	1	Long Link	27	DM-27	1	Pivot Shoulder Screw
4	DM-04	2	Short Link	28	DM-28	2	Link Shoulder Screw
5	DM-05	1	Pivot	29	DM-29	1	Pivot Pull Shoulder
6	DM-06	2	Pivot Pull	30	DM-30	2	Roll Pin
7	DM-07	2	Heavy Duty Spring	32	DM-32	2	Clapper Plate Pin
8	DM-08	2	Clamp for Housing				

BRAKE / WHEEL PARTS

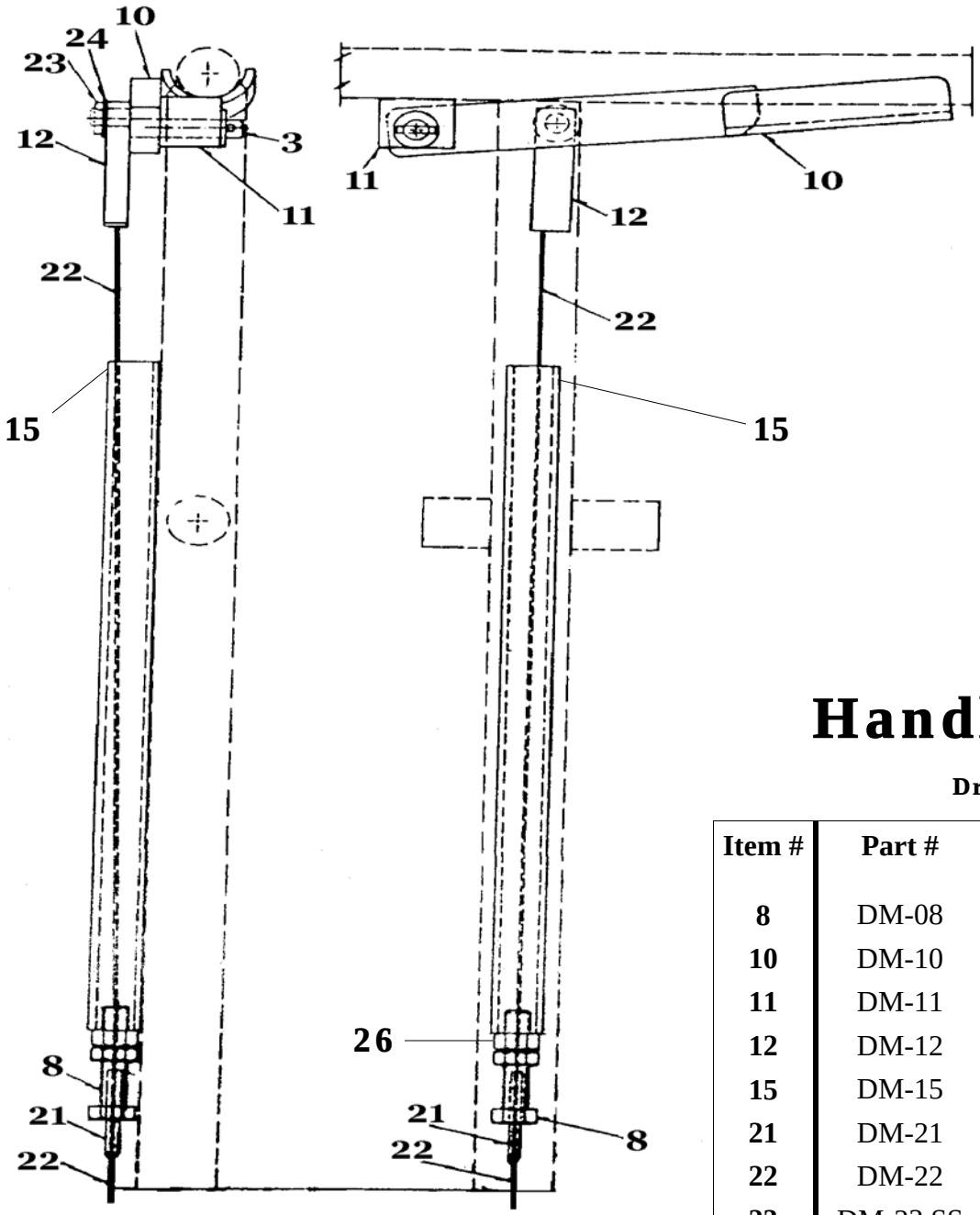
Drawing 4



Item #	Part #	Qty	Description	Item #	Part #	Qty	Description
1	DM-01	1	Spindle Stop	**20**	DM-20	1	Steer Wheel Axle
3	DM-03	1	Long Link	**27**	DM-27	1	Pivot Shoulder Screw
4	DM-04	2	Short Link	**29**	DM-29	1	Pivot Pull Shoulder
5	DM-05	1	Pivot	**30**	DM-30	2	Roll Pin
6	DM-06	2	Pivot Pull	**31**	DM-31	2	Axle Washer
9	DM-09	2	Steer Wheel				



HANDLE VIEW – TOP DOWN



HANDLE VIEW – SIDE

Handle Parts

Drawing 5

Item #	Part #	Qty	Description
8	DM-08	2	Clamp for Housing
10	DM-10	1	Brake Handle Assy
11	DM-11	1	Handle Pivot
12	DM-12	1	Pivot Cable Lock
15	DM-15	1	Cable Tube
21	DM-21	1	Cable Housing
22	DM-22	1	Cable, Stainless
23	DM-23 SS	4	Roll Pin, Stainless
24	DM-24	2	Washer
26	DM-26	1	Jam Nut

SHIPBOARD DEADMAN BRAKE
CABLE REMOVAL AND ADJUSTMENT

1. Remove both DM-06 and DM-12 pivot pulls
2. Loosen associated set screws in the pivot pulls.
3. Remove DM-08 short and long bolts followed by the brake cable housing and the brake cable.
4. Replace the DM-21 brake cable housing and DM-22 brake cable. Insert the DM-22 brake cable through both the DM-08 short and long bolts. Install the DM-08 long bolt into handle tube and DM-08 short bolt in the DM-01 spindle stop.
5. Replace both the DM-06 and DM-12 onto DM-22 brake cable. Insert the brake cable into the bottom of the 3/32 hole. Tighten associated set screws.
6. To set the brake release, the DM-10 brake handle assembly **Must be in Contact with the Steer Handle** when the brake is fully disengaged.
7. If the handle is not making contact with the steer handle, proceed as follows: Turn the DM-08 long & short bolts in a **clockwise** rotation until the DM-10 brake handle makes contact with the steering handle.
8. If the brake is not releasing, proceed as follows: Turn DM-08 long & short bolts in **counter clockwise** rotation until the brake releases with DM-10 brake handle making contact with the steering handle.

DEADMAN BRAKE ASSEMBLY & FRAME MAINTENANCE INSTRUCTIONS

1. Inspect visually that all pins are in place.
2. Check tightness of all pivot screws (Item # 27, 28, Drawing 3)
3. Wipe down – removing excess grease and foreign materials
4. Oil any visible rust or corrosion spots.
5. One drop of moly-disulfide bearing grease on each projecting clapper plate stop pins, visible through holes in the Steer Wheel.
6. One drop of non-detergent SAE 30 oil on the top end of Item # 26 (Drawing 5) on handle. This will migrate down into Item # 8, lubricating both Item # 21 and Item # 22.
7. One drop of non-detergent SAE 30 oil applied to the following locations:

Drawing #	Item	Part #	Description
1	18	B1-13 SS	Release Plunger, Stainless Steel
1	25	B1-26 10M SS	Lift Ram 10M, Stainless Steel
1	33	B1-38B	Restrictor O-ring
1	17	B1-15.5	Pump Piston Seal
1	16	B1-17.5 SS	Pump Piston, Stainless Steel
5	8	DM-8	Housing Clamp, Adjustable
3	28	DM-28	Link Shoulder Screw
5	27	DM-27	Pivot Shoulder Screw
5	26	DM-26	Jam Nut
5	15	DM-15	Cable Tube, Welded to Handle

8. With pump handle turned 90 degrees, reach inside of wheels and apply oil to Clapper Plate Pin, Item #32 (Drawing 3), one inside of each wheel.
9. Apply grease to ¼" fitting with Corrosion Control (Mystic Mfg. P/N JT6-HI-T-P) type grease in the following locations:

Part #	Description	# of Fittings
DM-09	Steer Wheel Assembly	2
B3-01 R7 Spec	Right Bellcrank	2
B3-01 L7 Spec	Left Bellcrank	2
B4-01T GF	Load Wheel Fork, 2	3

COMMON HARDWARE ITEMS

Part #	Description	Size	Quantity
B1-03B	Bolt, Socket Head	10-24 x 1 1/4	1
B1-04B	Hex Bolt, Grade 5	1/4-20 x 1 1/4	2
B1-34	Bolt	3/8-16 x 4 1/4	2
B1-34B	Nut, Nylon Lock	3/8-16	2
B1-40CPSS	Cotter Pin, Stainless Steel	3/16 x 1 1/4	1
B1-40RSS	Roll Pin, Stainless Steel	3/16 x 1 1/2	1
B1-40SS	Roll Pin, Stainless Steel	3/16 x 2	10
B1-41	Shoulder Bolt	3/8-18 x 1 1/2	1
B1-41N	Nut, Nylon Lock	5/16	1
B1-42	Bolt, Hex	1/4-20 x 1 1/2	2
B5-B	Nut	10-24	1
B6-04SS	Roll Pin, Stainless Steel	3/16 x 1 1/2	2
DM-30	Roll Pin, Stainless Steel	1/8 x 3/4	2
DM-23	Roll Pin, Stainless Steel	1/8 x 3/4	2

Suggested Spare Parts

Part #	Description	Quantity
A3x4 POSB	Load Wheel Assembly	1
AA-30 CR	Thrust Bearing	1
B1-10M 5/8	Hydraulic Repair Kit	1
B5-HRS	Handle Return Spring	2
DM-02	Clapper Plate	1
DM-07	Spring for Deadman Brake	2
DM-09	Steer Wheel Assembly	1
DM-14	Static Strap Kit	2
DM-22	Brake Cable	2
DM-21	Brake Cable Housing	1

Parts Index

(Order Parts from Wesley International, Cage 56250)

Part #	Quantity	Description	Drawing #
A3X4POSB	4	Load Wheel	1
AA-30 CR	1	Thrust Bearing	1
B1-01 10DM	1	Hydraulic Pump Housing	2
B1-01C 10M	1	Center Cylinder 10M	1
B1-03B	1	Screw Post	2
B1-03 Spec	1	Load Arm	1
B1-03C SS	2	Load Arm Pivot, Stainless Steel	1
B1-04B	2	Cap Screw	2
B1-04 L/R	1	Pump Link Assembly	2
B1-04R SS	2	Roll Pin, Stainless Steel	2
B1-04W	2	Washer, Stainless Steel	2
B1-06	1	Center Cylinder O-ring, Bottom	1
B1-07RB OSB	4	Steer Wheel Bearing	2
B1-08B	1	Load Arm Snap Ring	1
B1-11	1	Bleeder Valve	1
B1-13 SS	1	Release Plunger, Stainless Steel	1
B1-14	2	Release Plunger O-ring	1
B1-15.5	1	Pump Piston Seal	1
B1-16	3	Ball	1
B1.17.5 SS	1	Pump Piston, Stainless Steel	1
B1-18.5	1	Pump Piston U-Cup	1
B1-20	4	Plug	1
B1-25	1	Load Pivot Ball	1
B1-26 10M SS	1	Lift Ram 10M, Stainless Steel	1
B1-27 10M	1	Lift Ram Seal	1
B1-28	1	Cylinder Snap Ring	1
B1-29	1	Center Cylinder O-ring, Top	1
B1-31	1	Low Pressure Spring	1
B1-32 10M	1	Lift Ram U-cup, 10M	1
B1-33	1	High Pressure Spring	1
B1-34	2	Stripper Bolt	1
B1-34B	2	Nut	1
B1-35	1	Low Valve Ball Spring	1
B1-36.5	1	Air Seal	1
B1-38	1	Restrictor	1
B1-38B	1	Restrictor O-ring	1
B1-39	1	Spacer	2
B1-40CP SS	1	Cotter Pin, Stainless Steel	2
B1-40R SS	1	Roll Pin, Stainless Steel	2
B1-41N	1	Lock Nut	2

Parts Index (Continued)

Part #	Quantity	Description	Drawing #
B1-41N	1	Lock Nut	2
B1-40SS	10	Roll Pin	1
B1-42	2	Release Guide	2
B1-43	1	Release Bar	2
B1-44A	1	Handle Release Adj. Nut	2
B2	1	Frame	2
B3-01 L7 Spec	1	Left Bell Crank	1
B3-01 R7 Spec	1	Right Bell Crank	1
B3-02	1	Bell Crank Axle	1
B4-01T GF	2	Load Wheel Fork, w/ Grease Fit	1
B4-02 Spec	2	Load Wheel Fork Axle	1
B4-04 XD	1	Handle Pivot	2
B4-04 SS Spec	2	Load Wheel Axle, Stainless Steel	1
B4-07 OSB	8	Load Wheel Bearing	1
B5-04A	1	Release Link Assembly	2
B5-6	2	Bushing	2
B5-A	1	Hand Release	2
B5-B	1	Nut	2
B6-01 Spec	2	Push Rod	1
B6-02	4	Push Rod Axle	1
B6-04 SS	2	Steer Wheel Axle Pin	2
DM-01	1	Spindle Stop	3, 4
DM-02	2	Clapper Plate	3
DM-03	1	Long Link	3, 4
DM-04	2	Short Link	3, 4
DM-05	1	Pivot	3, 4
DM-06	2	Pivot Pull	3, 4
DM-07	2	Heavy Duty Spring	3
DM-08 Long	2	Clamp for Housing Assembly	3, 5
DM-09	2	Steer Wheel Assembly	1,4
DM-10	1	Brake Handle Assembly	5
DM-11	1	Handle Pivot	5
DM-12	1	Pivot Cable Lock	5
DM-14	2	Static Strap (includes mounting hardware)	
DM-20	1	Steer Wheel Axle	2, 4
DM-21	1	Cable Housing	3
DM-22	1	Cable, Stainless Steel	3
DM-23 SS	4	Roll Pin, Stainless	5
DM-24	2	Washer	5
DM-26	1	Jam Nut	5
DM-27	1	Pivot Shoulder Screw	3, 4
DM-28	2	Link Shoulder Screw	3
DM-29	1	Pivot Pull Shoulder	3, 4
DM-30	2	Roll Pin	3, 4
DM-31	2	Axle Washer	3, 4
DM-32	2	Clapper Plate Pin	3