

S P O K A N E M E T A L P R O D U C T S

100 GALLON FUEL BOWSER

OPERATION AND MAINTENANCE MANUAL

MODEL NUMBER BOW 100-00

S P O K A N E M E T A L P R O D U C T S

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1.0 INTRODUCTION

- 1.1 To obtain optimum benefit from your fuel bowser unit, it is recommended that all personnel operating it read and understand this manual prior to operation.
- 1.2 Upon receipt of bowser unit a visual inspection should be made to determine that it is complete and has not sustained any damage during transportation.

2.0 SAFETY

2.1.0 Potential Fire Or Explosion

- 2.1.1 Due to the nature of fuel, care should be exercised to eliminate all sparks and open flame in the area of the fuel bowser.
- 2.1.2 A 50 foot radius area around the fuel bowser for no smoking, sparks, or open flames is usually a good practice. It is strongly recommended all local or other regulations be consulted for further restrictions.

2.2.0 Telescoping Drain

- 2.2.1 Care should be exercised in using the telescope to prevent crushing fingers between clamps by dropping sections.

2.3.0 Grounding

- 2.3.1 To eliminate static sparks the bowser unit is equipped with two grounding reels which should be connected prior to draining or filling operations

2.4.0 Towing

- 2.4.1 Make sure the tow bar is securely attached to the towing vehicle.

- 2.4.2 Before moving the bowser unit check to assure the parking brake is released.

- 2.4.3 Maximum allowable towing speed is 15 M.P.H.

2.5.0 Parking

- 2.5.1 Parking brake must be applied when filling and draining or when left unattended.

2.6.0

2.6.1

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2.7.0 Inspections

- 2.7.1 Inspection of tires, under carriage, tow bar, vent, valves, hoses, sight gauge, reflectors, safety labels, etc., should be instituted at regular periodic basis. It is recommended these inspections be performed on a weekly basis.
- 2.7.2 Internal inspection will be necessary to insure structural integrity and cleanliness. It is recommended that interval inspections be performed at least every (6) six months. Caution! when entering confined spaces, such as the interior of the bowser tank, care should be taken to provide proper breathing equipment and a separate person dedicated solely to a safety watch of the person inside. It is strongly recommended that all local or other regulations be consulted.

3.0 OPERATION

3.1.0 Intended use

- 3.1.1 The fuel bowser unit is intended for use in draining and collection of fuel from aircraft and the transportation to a disposal site. Any other use is prohibited and may void any and all warranties.

3.2.0 Parking Brake

- 3.2.1 The bowser unit is equipped with a mechanically operated parking brake. The brake should be applied prior to disengaging tow bar. The brake should be applied when filling, or draining tank, or whenever left unattended.

3.3.0 Tow Bar and Undercarriage

- 3.3.1 The bowser unit is equipped with steerable front wheels controlled by the tow bar.

- 3.3.2 Care should be taken to not jackknife the bowser when backing up.

- 3.3.3 Tire inflation should be checked and maintained as described in the maintenance section.

- 3.3.4 Before towing check to see the brake is disengaged, grounding reel and hoses are disconnected, valves are closed, tow bar is securely attached to the towing vehicle, telescoping drain is collapsed, and all manways and covers are closed and latched.

- 3.3.5 The bowser unit is equipped with a tow bar latch to hold it in the upright position.

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3.4.0 Telescoping Drain Assembly

3.4.1 The fuel bowser is equipped with a telescoping drain assembly. It is capable of being adjusted from 4'2" to 12'0" high.

3.4.2.0 To Raise

3.4.2.1 Loosen top clamp if necessary.

3.4.2.2 Grasp top section with one hand and lift until the top clamp raises approximately 6 inches.

3.4.2.3 Tighten clamp securely with the other hand.

3.4.2.4 Reposition lifting hand grasping tube below clamp just tightened and lift until the next clamp is raised approximately 6 inches.

3.4.2.5 Repeat operations 3.4.2.2 and 3.4.2.4 until desired height is attained or assembly is fully extended.

3.4.3 To Lower

3.4.3.1 Grasp bottom extended tube securely with one hand and loosen clamp holding it.

3.4.3.2 Slowly lower the extended sections, hand over hand, until the next clamp is resting on the lower clamp.

3.4.3.3 Repeat steps 3.4.3.1 and 3.4.3.2 until all sections are collapsed.

3.4.4 Funnel is equipped with nitrile rubber seal around top edge to allow placement against the under side of a wing.

3.4.5 When not in use telescope should be collapsed and the cover closed to eliminate contamination.

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3.6.0 Grounding Reels

- 3.6.1 The bowser unit is supplied with two grounding reels.
- 3.6.2 Before filling or draining, the grounding reels must be attached to the aircraft or object being serviced and an appropriate ground.

3.7.0 Drain Valves

- 3.7.1 The bowser unit is equipped with an 1-1/2" NPT ball valve with a camlock connector.

3.9.0 Telescoping drain strainer

- 3.9.1 The bowser unit is equipped with a sump with removable bottom to allow cleaning of the drain strainer.

4.0 MAINTENANCE

4.1.0 Parking Brake

- 4.1.1 The bowser unit is equipped with a parking brake assembly consisting of a 7" diameter brake drum with 2-1/4" wide brake shoes.
- 4.1.2 The shoes are activated via a mechanical linkage, eccentric and lever.
- 4.1.3 Adjustment may be necessary as the shoes wear.

S P O K A N E M E T A L P R O D U C T S

4.1.3.1 Tightening is accomplished by removing bolt thru one yoke and screwing yoke in to shorten connecting rod.

4.1.3.2 Do not over tighten or brakes may drag when released.

4.1.4 Replacement of shoes.

4.1.4.1 Remove wheel.

4.1.4.2 Remove nut retaining hub and drum assembly.

4.1.4.3 Disconnect actuating rod.

4.1.4.4 Remove shoe retainers.

4.1.4.5 Install new shoes.

4.1.4.6 Replace shoe retainers.

4.1.4.7 Adjust actuator rod length.

4.1.4.8 Replace wheel.

4.2.0 Under Carriage and Tow Bar

4.2.1 The bowser unit is equipped with steerable front wheels, fixed rear wheels, and a tow bar.

4.2.2 Maintenance should consist of the following.

4.2.2.1 King pin bushings, turning arm bushings and tie rod ends are self lubricating and need no additional maintenance.

4.2.2.2 Pack wheel bearing at intervals not to exceed three (3) months.

4.2.2.3 Check tire pressure weekly. Pressure should be maintained at 28 psi.

4.2.3 Tow bar pivot pin and hook ring should be inspected monthly for excessive wear or cracks.

4.3 Telescoping Drain Assembly consists of stainless steel housing 4" in diameter permanently attached to the tank and four (4) aluminum tube sections.

4.3.1 The stainless tube and three largest aluminum tubes are equipped with a clamp assembly.

4.3.2 Each clamp has a nylon clamp sleeve.

4.3.3 Each aluminum tube is equipped with a stop sleeve crimped on the lower end which acts as a stop to prevent the tube from sliding thru the clamp.

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4.3.4 Disassembling of the telescope assembly is accomplished by removing the 4 screws holding the clamp sleeve in the clamp. After removal of the clamp sleeve the stop sleeve will slide through the clamp.

4.5 Grounding Reels

4.5.1 Grounding reel cables should be pulled out, cleaned and inspected monthly.

4.5.2 Cable clamps and ends should be inspected for loose connections monthly.

4.6 Sight Gauge

4.6.1 The sight gauge should be inspected monthly for loose connections and weathering of clear tubing.

4.7 Telescoping Drain Strainer

4.7.1 Telescoping drain strainer is located on the bottom of the stainless steel drain housing.

4.7.2 Maintenance should consist of inspection and cleaning monthly.

4.7.3 Removal.

4.7.3.1 Removal is accomplished by loosening the wing nut on the clamp holding the base of the sump. NOTE! Check interior to assure fuel has been thoroughly drained before reloosening wing nut.

4.7.3.2 Remove camp and sump base.

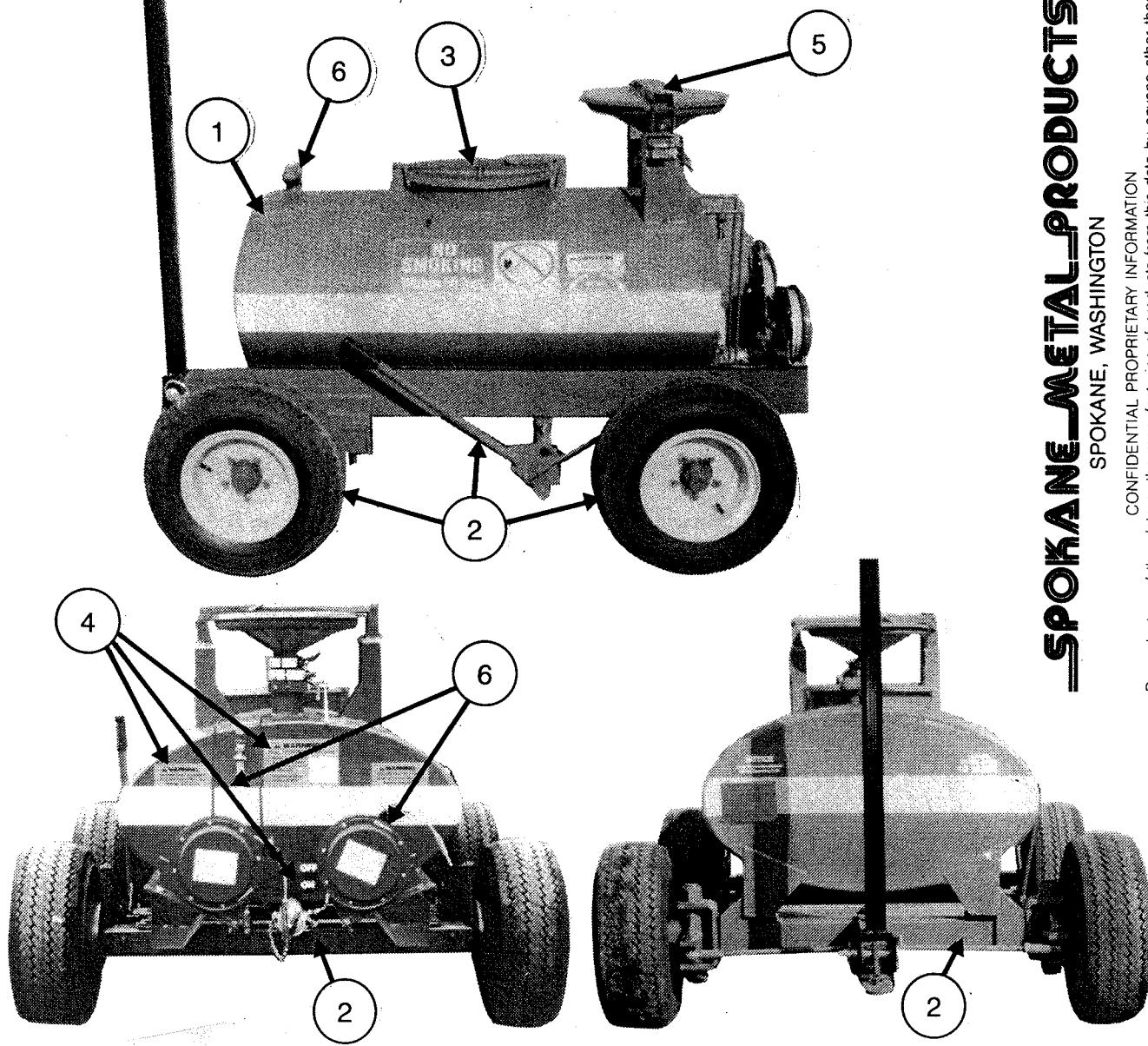
4.7.3.3 Loosen clamp holding screen to stainless steel drain housing and pull screen down.

5.0 REPLACEMENT PARTS

This section provides information for identification of parts for ordering. To order it is important to have the Model Number, Subassembly Number, Part Number and Description. Parts may be ordered by calling or writing to:

SPOKANE METAL PRODUCTS
P.O. Box 3621
Spokane, WA 99220-3621
Telephone: Area Code 509-928-0720

PARTS INDEX
MODEL: BOW 100-00 Series FUEL BOWSER

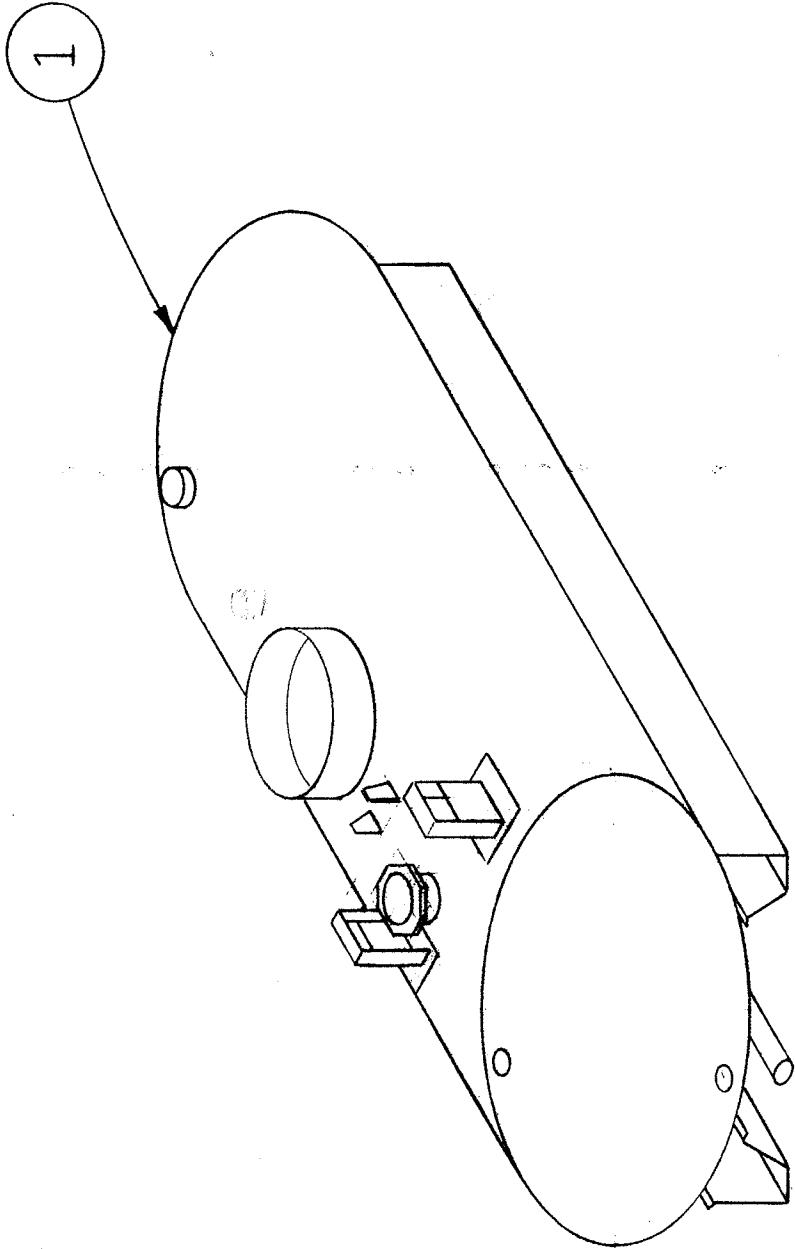


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<u>Item No.</u>	<u>Section</u>
1	Main Tank
2	Axe, Front
2	Axe, Rear
2	Brake, Parking
2	Wheel Assembly, Front
2	Wheel Assembly, Rear
3	Manway Assembly
4	Decal Package
5	Telescoping Drain
6	Miscellaneous Fixtures



MAJOR ASSEMBLY - TANK WELDMENT, 100 GALLON

Sub Assy.	Item	Part No.	Quantity	Description	Weight
1	08-10091	1	1	Stainless Steel Tank Weldment 100 Gallon Capacity Series BOW 100-00	175 #

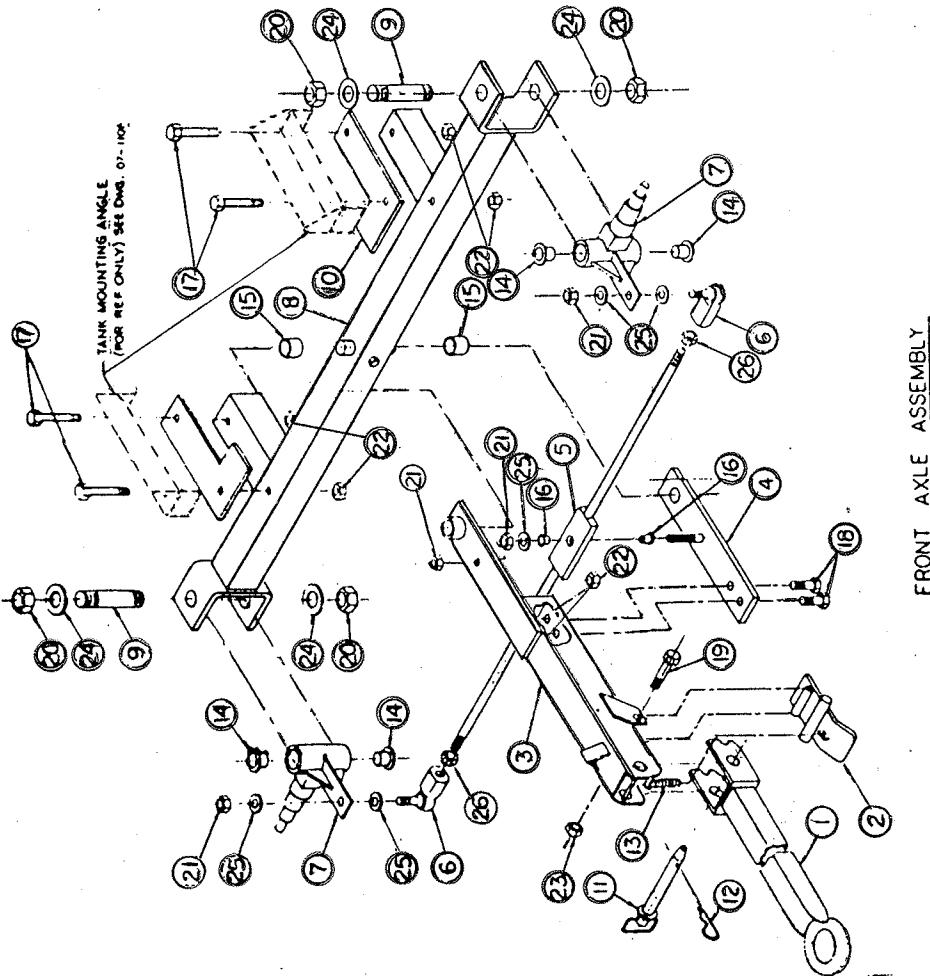
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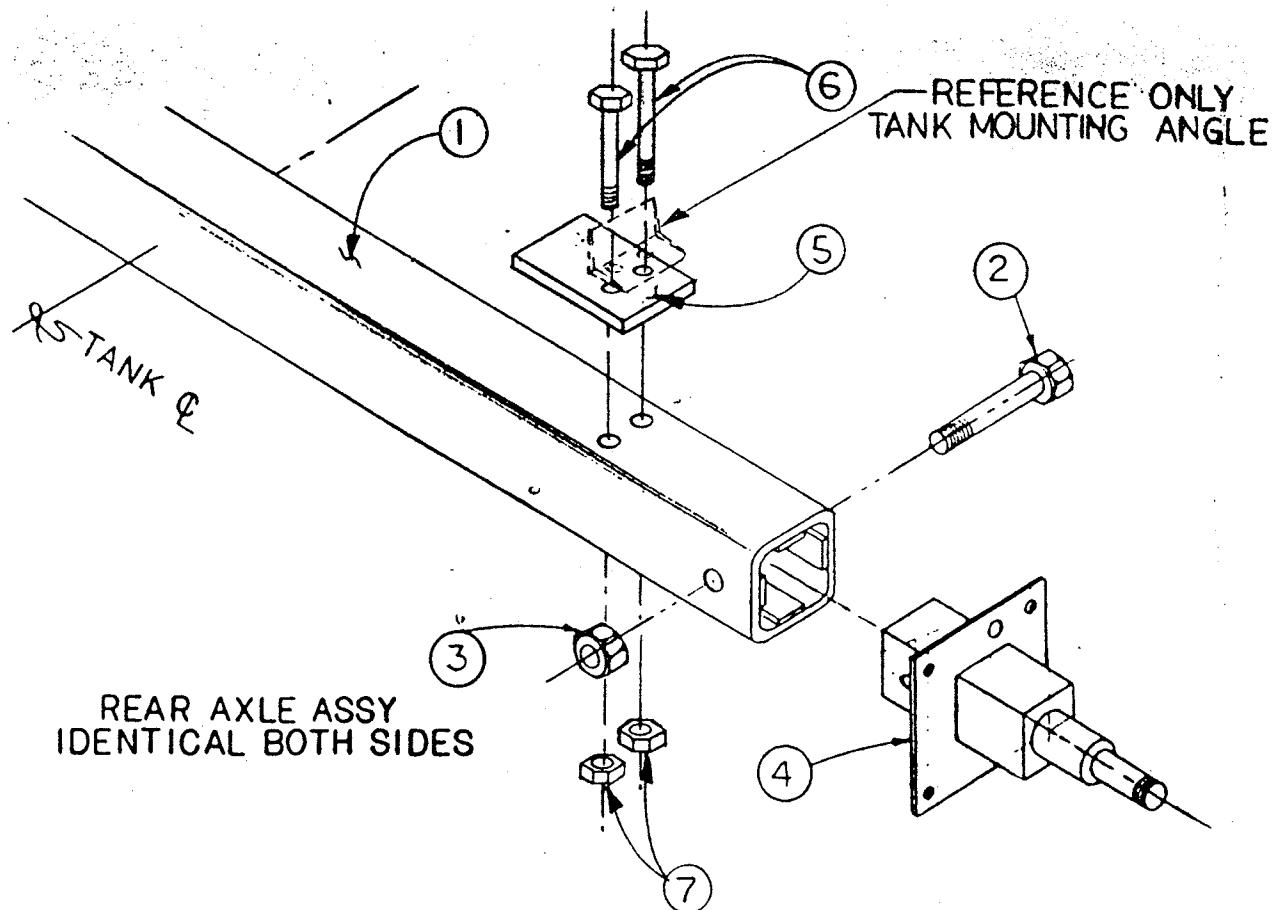
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MAJOR ASSEMBLY - AXLE ASSEMBLY

Sub Ass'y.	Item	Part No.	Quantity	Description	Weight
08-1029				AXLE ASSEMBLY, FRONT	
	1	07-1103	1	TOE BAR	23.
	2	07-1020	1	TOE LATCH	3.1
	3	07-1052	1	ARM, STEERING	16.
	4	07-1046	1	STEERING ARM, LOWER PLATE	6.1
	5	07-1005	1	TIE ROD	7.3
	6	03-1016	2	ROD END, BALL JOINT	5.
	7	08-1009	2	HOUSING, KING PIN	24.
	8	07-1053	1	AXLE, FRONT	53.
	9	05-1010	2	KING PIN	11.
	10	06-1023	2	Mounting PAD	
	11	02-104	1	HITCH PIN	2.
	12	02-1300	1	COTTER PIN	.2
	13	04-1054	1	SPRING	.5
	14	03-1013	4	BUSHING	1.1
	15	03-1014	2	BUSHING	1.
	16	03-1015	2	BUSHING	.8
	17	02-1503	4	BOLT	1.3
	18	02-1502	2	BOLT	.32
	19	02-1501	1	BOLT	.2
	20	02-12131	4	NUT	2.
	21	02-12071	4	NUT	
	22	02-12041	4	NUT	
	23	02-1201	1	NUT	
	24	02-11131	4	WASHER, FLAT	
	25	02-11072	6	WASHER, FLAT	
	26	02-12141	2	HEX NUT	



FRONT AXLE ASSEMBLY



MAJOR ASSEMBLY - AXLE ASSEMBLY

Sub Assy.	Item	Part No.	Quantity	Description	Weight
Axle Assembly Rear					
1	05-1054	1		Axle, Rear Weldment	50#
2	02-1505	2		Bolts, Mounting Spindle	1#
3	02-12041	2		Nuts, Mounting Spindle	.5#
4	05-1022	2		Spindle, Rear	30#
5	06-1012	2		Mounting Pad, Tank	4#
6	02-1503	4		Bolt, Tank Mounting	1#
7	02-12041	4		Nuts, Tank Mounting	.5#

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MAJOR ASSEMBLY - BRAKE, PARKING

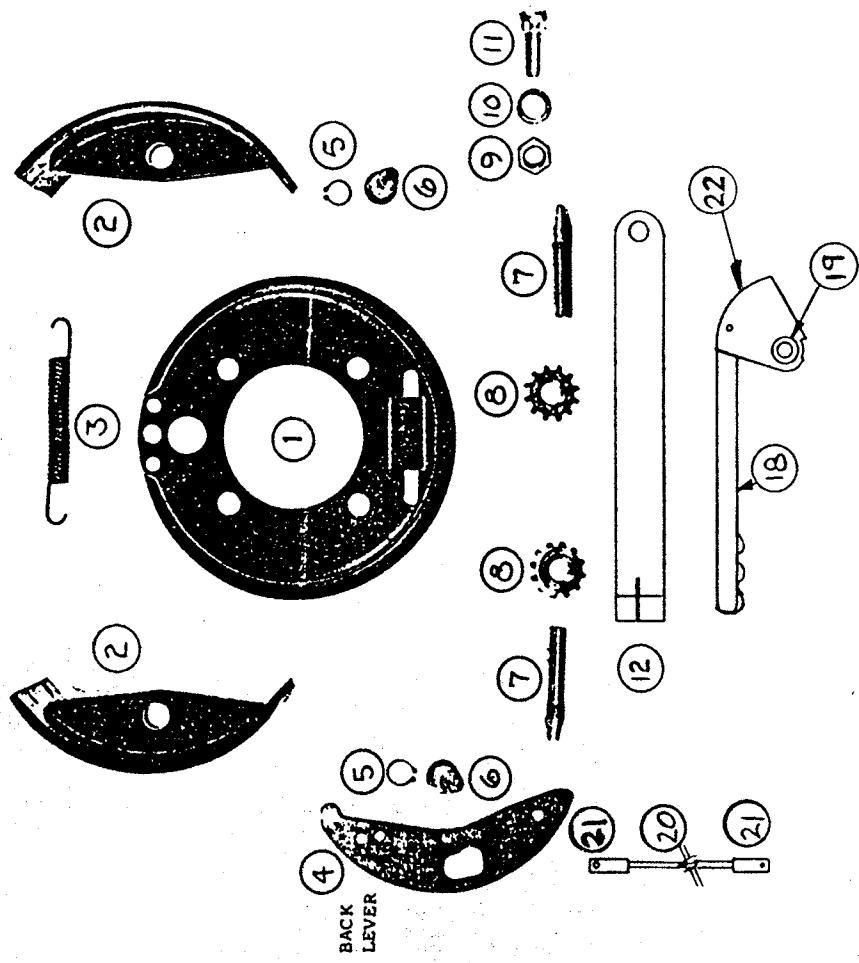
Sub Assy.	Item	Part No.	Quantity	Description	Material
08-1007	04-1063	1		Brake, Plate Assembly (2 req'd per Bumper)	
	1	04-1023	1	Brake, Plate Assembly	.78
	2	04-1024	1	Brake, Shoe Assembly	.49
	3	04-1026	2	Brake, Shoe Lever Spring	.18
	4	04-1025	2	Brake, Shoe Lever	.18
	5	02-1400	2	1/2" Retaining Ring	.24
	6	02-1303	2	Anchor Pin	.24
	7/8	04-1027	2	Adjusting Screw Assembly	.78
	9	02-12031	4	Nut,	.29
	10	02-11031	4	Lockwasher,	.14
	11	02-10031	4	Bolt, 7/16" Shoulder	.58
	12	04-1030	1	Brake, Control Arm (Camlever - 5-1/4")	.39
08-1008				Brake, Handle Assembly	
	13	04-1028	1	Cam *	.59
	14	04-1029	1	Cam Lever 2" *	.78
	15	04-1031	1	Cam Spacer *	.29
	16	02-10012	1	Bolt *	.49
	17	02-12021	1	Nut *	.18
	18	01-8105	1	Brake, Handle	.49
	19	01-8104	1	Brake, Handle Connector	.49
08-1009				Brake Linkage Assembly (2 req'd per Bumper)	
	20	05-1026	1	Brake Linkage Rod	.18
	21	04-2516	2	Brake Linkage, YOKE-ENDS	.58
	22	05-1025	2	Brake Linkage Mount	.14

* Denotes Items Not Shown

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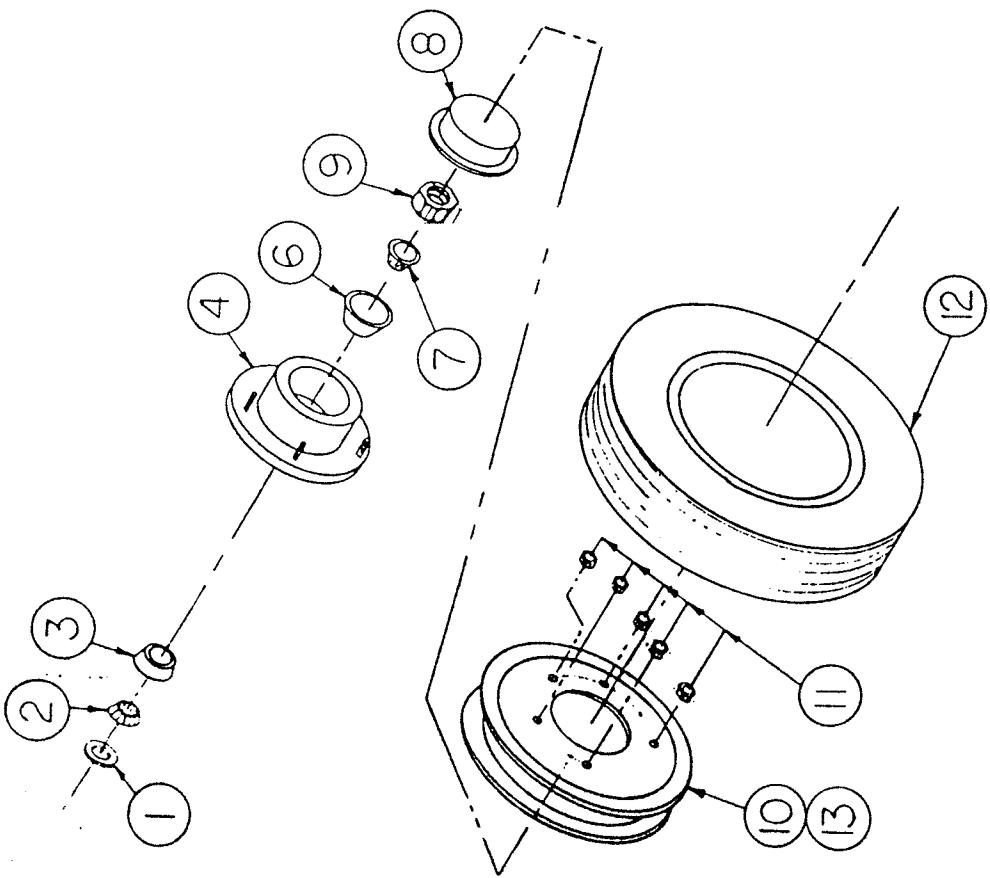
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MAJOR ASSEMBLY - WHEEL ASSEMBLY, FRONT

Sub Assy.	Item	Part No.	Quantity	Description	Weight
08-1011				Bearing Assembly (2 req'd per Bowser)	
	1	04-1012	1	Seal, Bearing	1#
	2	04-1013	1	Bearing, Cone, Inner	3#
	3	04-1015	1	Bearing, Cup, Inner	2#
	4	04-1017	1	Hub, Wheel	7#
	6	04-1016	1	Outer Rearing Cup	4#
	7	04-1014	1	Outer Bearing Cone	3#
	8	04-1019	1	Dust Cap	1#
	9	02-1214	1	Spindle Nut	1#
08-10061				Wheel Assembly (2 req'd per Bowser)	
	10	04-10201	1	Wheel 10", Split Rim	10#
	11	04-1021	5	Wheel, Lugnuts	1#
	12	04-10221	1	Tires, 10"	4#
	13	04-1045	1	Tube Assembly	1#

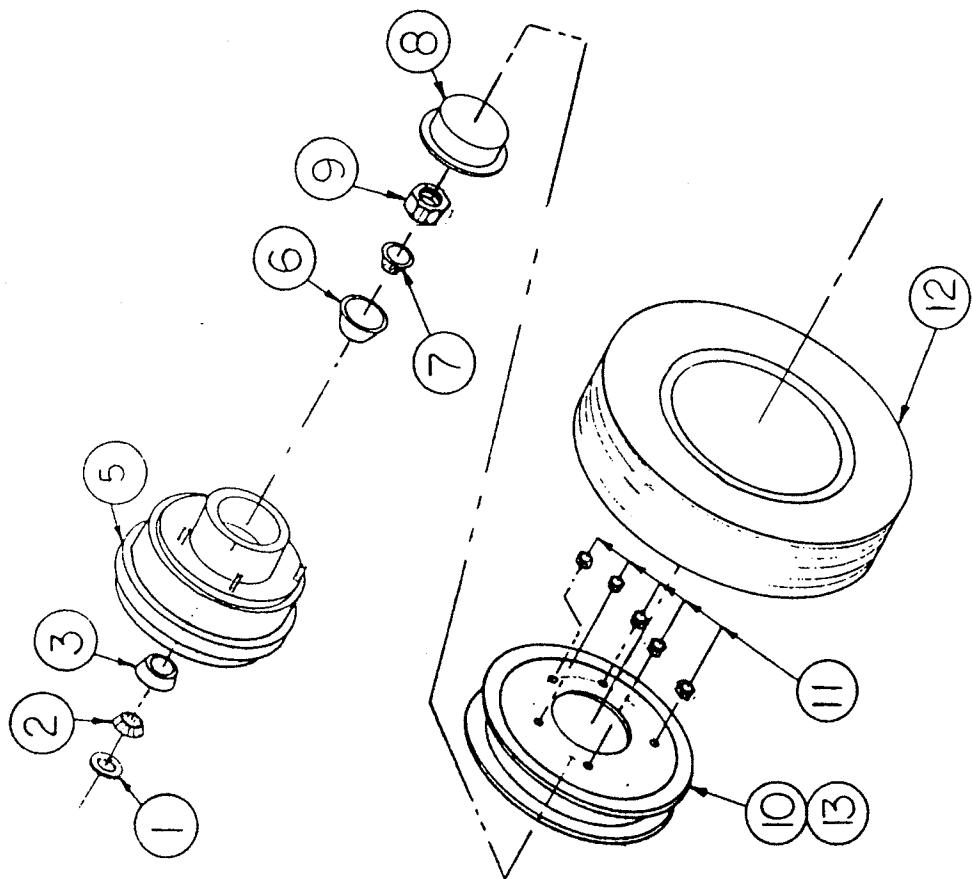


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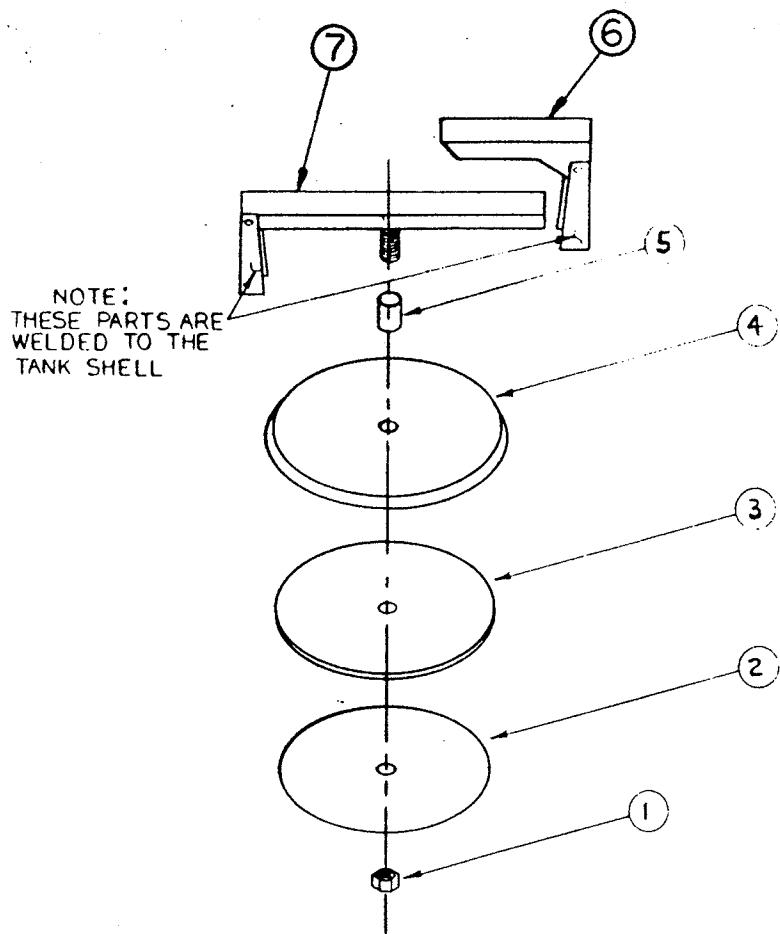
Sub Assy.	Item	Part No.	Quantity	Description	Weight
Rearing Assembly (2 req'd per Bowser)					
8-10111	1	04-1012	1	Seal, Bearing	1#
	2	04-1013	1	Bearing, Cone, Inner	3#
	3	04-1015	1	Bearing, Cup, Inner	2#
	5	05-1008	1	Hub, Drum Assembly	16#
	6	04-1016	1	Outer Bearing Cup	4#
	7	04-1014	1	Outer Bearing Cone	3#
	8	04-1019	1	Dust Cap	1#
	9	02-1214	1	Spindle Nut	1#
Wheel Assembly (2 req'd per Bowser)					
8-10061	10	04-10201	1	Wheel 10" - Split Rim	10#
	11	04-1021	5	Wheel, Lugnuts	1#
	12	04-10221	1	Tires, 10"	4#
	13	04-1045	1	Tube Assembly	1#



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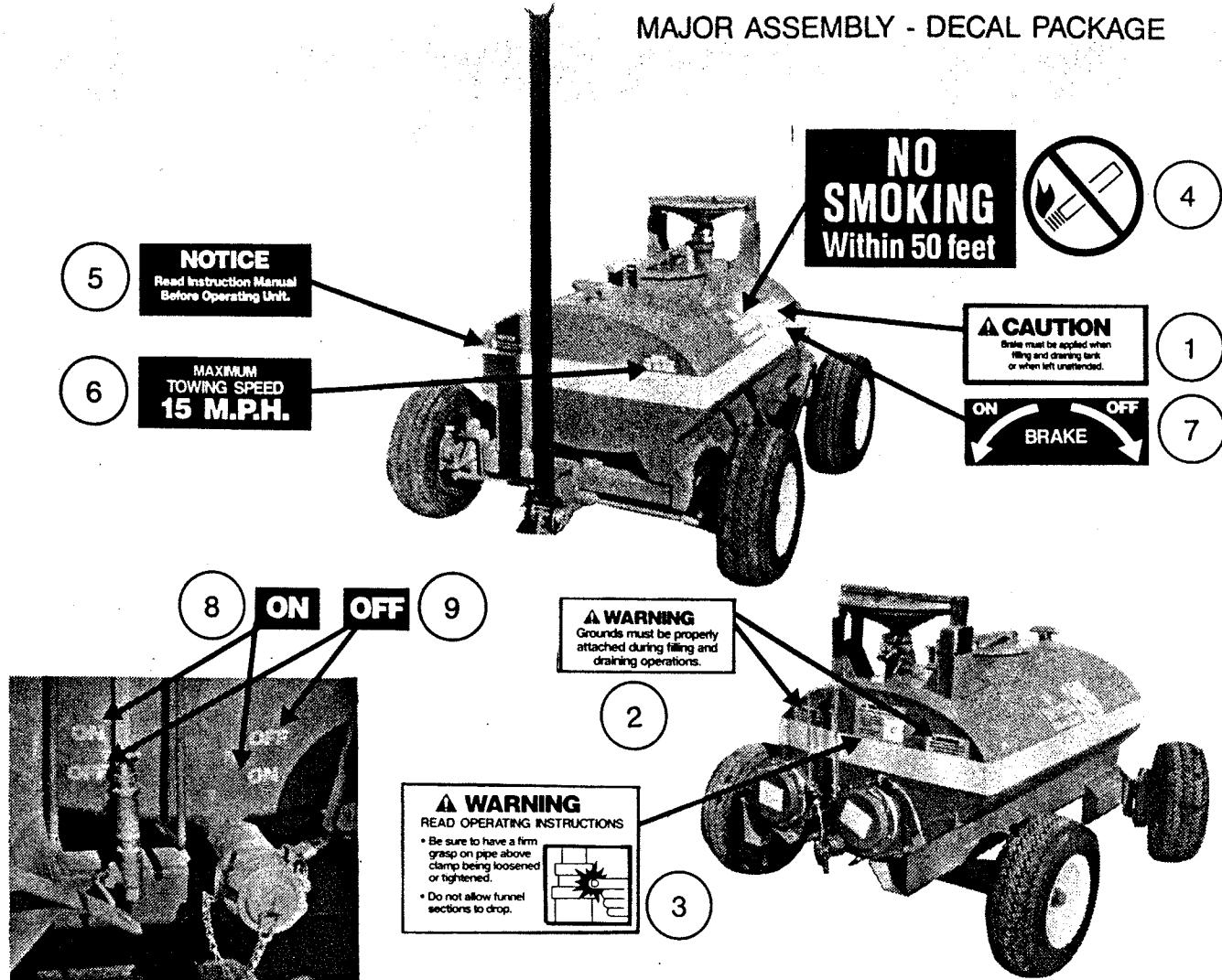
MAJOR ASSEMBLY - MANWAY ASSEMBLY

Sub Assy.	Item	Part No.	Quantity	Description	Weight
08-1032				16" Flip-Lock Manway	
	1	02-1206	1	Nut, Lock Retainer	.5#
	2	07-2303	1	Gasket, Retainer	2#
	3	06-25025	1	Gasket, Manway	1#
	4	01-86001	1	Cover, Manway	5#
	5	01-93455S	1	Spacer, Manway	.5#
	6	01-8222S	1	Cross Arm, 7", Manway	4#
	7	07-1039S	1	Cross Arm, 19-1/2" Weldment	2.5#

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MAJOR ASSEMBLY - DECAL PACKAGE



<u>Sub-Assy</u>	<u>Item</u>	<u>Part No.</u>	<u>Qty.</u>	<u>Description</u>	<u>Wt. #</u>
08-10251	1	06-1003	1	Decal, Caution, Parking Brake	.1
	2	06-1004	2	Decal, Warning, Grounding Reels	.1
	3	06-1005	1	Decal, Warning, Telescoping Drain	.1
	4	06-1006	2	Decal, Danger, No Smoking	.2
	5	06-1007	1	Decal, Notice, Read Manual	.1
	6	06-1008	1	Decal, Maximum Towing Speed-15 mph	.1
	7	06-1009	1	Decal, Parking Brake- Off/On	.1
	8	06-1011	2	Decal, On, Drain Valve	.1
	9	06-1011	2	Decal, Off, Drain Valve	.1

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MAJOR ASSEMBLY - TELESCOPING DRAIN ASSEMBLY

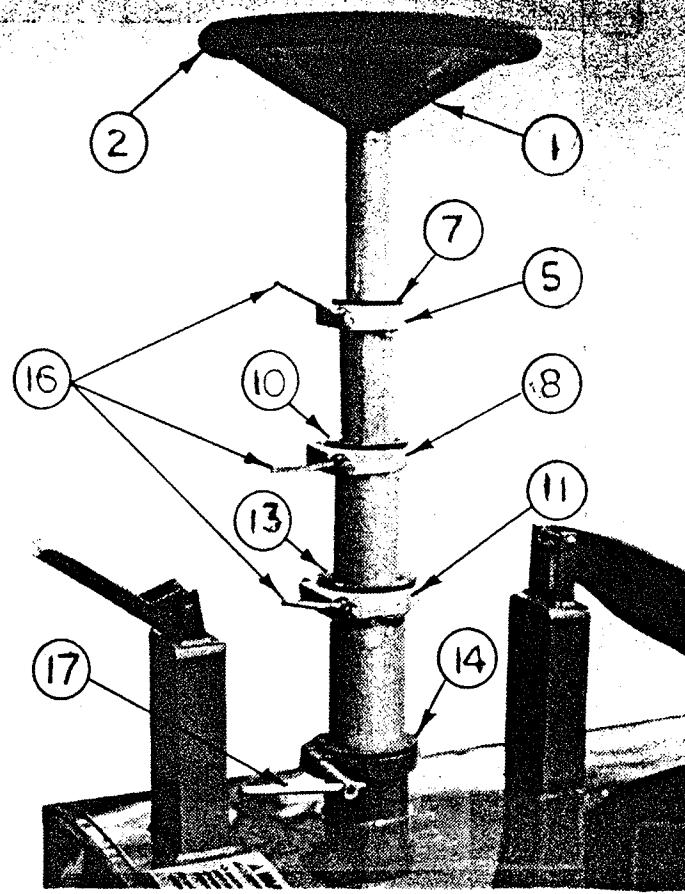
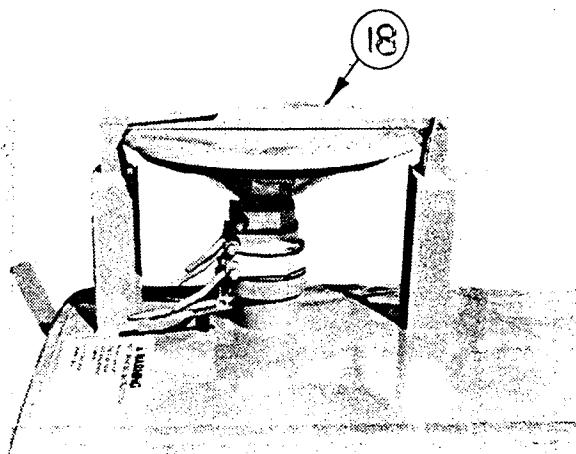
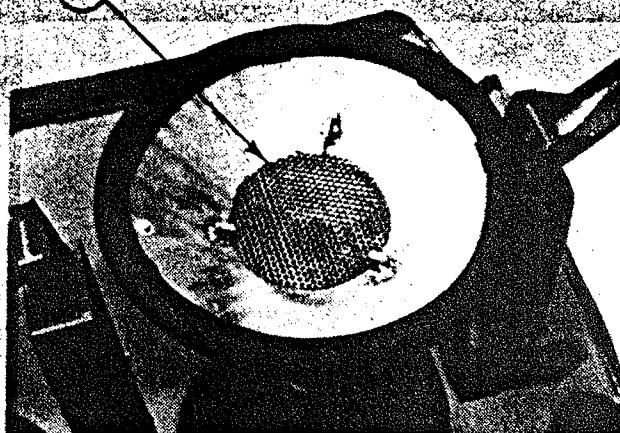
Sub Ass'y.	Item	Part No.	Quantity	Description	Weight
08-1016	1	07-1011	1	Drain, Funnel Section Assembly	.5#
	2	06-1022	1	Drain, Funnel Section	.7#
	3	05-1000	1	Gasket, Funnel Section	.1#
	4	04-1039	1	Sleeve, Stop *	.1#
				Screen, Funnel Section	.5#
08-1017				Drain, Telescoping Section Assy, 2-1/2"OD	
	5	07-1012	1	Telescoping Section Weldment, 2-1/2"OD	.3#
	6	05-1001	1	Sleeve, Stop *	.3#
	7	05-1002	1	Sleeve, Clamp Spacer	.1#
08-1027				Drain, Telescoping Section Assy, 3" O.D.	
	8	07-1013	1	Telescoping Section, Weldment, 3" O.D.	.3.5#
	9	05-1003	1	Sleeve, Stop *	.1#
	10	05-1004	1	Sleeve, Clamp Spacer	.4#
08-1028				Drain, Telescoping, Sect. Assy. 3-1/2"OD	
	11	07-1014	1	Telescoping Section, Weldment, 3-1/2"OD	.4#
	12	05-1005	1	Sleeve, Slider Spacer	.4#
	13	05-1006	1	Sleeve, Clamp Spacer	.2#
	14	05-1007	1	Sleeve, Lower Clamp Spacer	.5#
	15	02-1500	16	Screws, Sleeve Clamp *	.3#
	16A	04-1040	3	Handles, Clamp	.6#
	16B	02-10021	3	Handles, Bolts	.8#
	17	07-1015	1	Handle, Clamp Lower	.1#
	18	08-1026	1	Cover Assembly	.5#

* Denotes: Items Not Shown

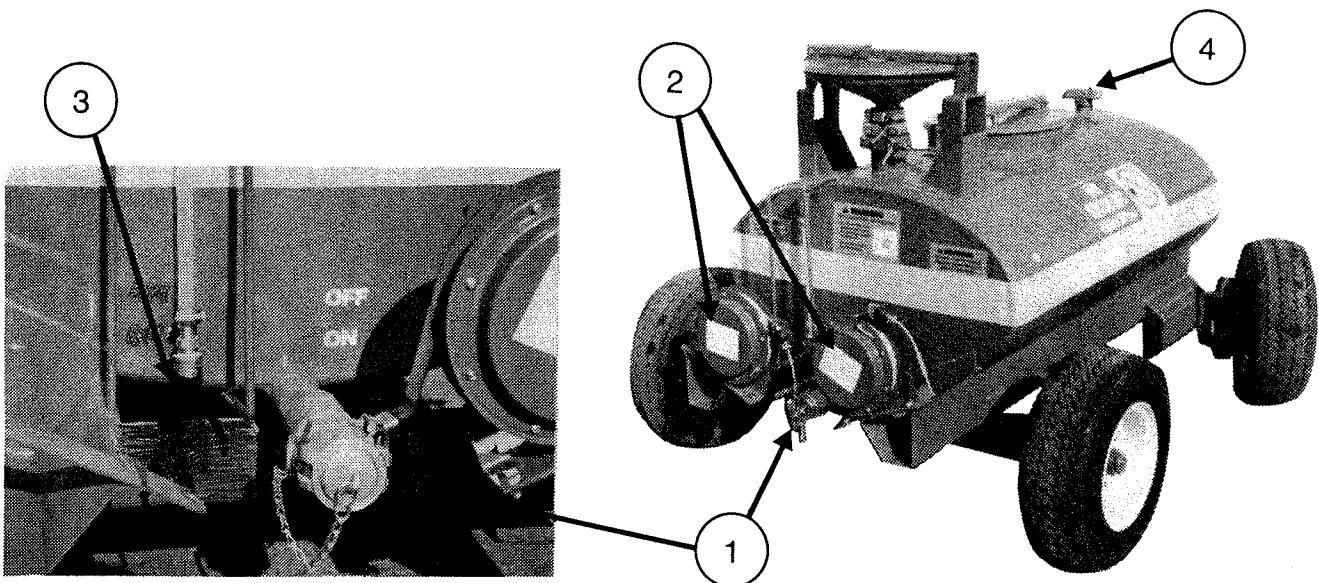
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SECTION 5.5



MAJOR ASSEMBLY - MISC. FIXTURES



<u>Sub-Assy</u>	<u>Item</u>	<u>Part No.</u>	<u>Qty.</u>	<u>Description</u>	<u>Wt. #</u>
08-1012	1			Drain Assembly	
	1A	04-10321	1	Valve, 1 1/2" Ball w/Locking Handle	6.
	1B	04-1033	1	Adaptor, Camlock 1 1/2"	1.5
	1C	04-10331	1	Plug, Camlock 1 1/2"	.5
	1D	04-1034	1	Chain, Safety X 12" lg.	.2
	1E	04-1035	1	S Link	.1
	1F	04-10351	1	S Link	.1
08-1013	2			Grounding Reel Assembly	
	2A	04-1036	2	Grounding Reel	24.
	2B	02-10042	4	Bolts	.3
	2C	02-12041	4	Nuts, Hex, Nylon Locking	.1
08-1014	3			Sight Gage Assembly	
	3A	03-1017S		Elbow, 1/2"	.5
	3C	03-1008	2	Nipple, 1/2"	.5
	3D	03-11130	2	Hose Barb, 1/2"	.5
	3E	03-1010	2	Hose Clamp, 1/2"	.1
	3G	06-2527	1	Tube, 1/2" I.D.	.2
	4	04-1037	1	Vent, 1 1/2"	3.

SPOKANE METAL PRODUCTS
SPOKANE, WASHINGTON

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SPOKANE METAL PRODUCTS

400 GALLON BOWSER FUEL DRAIN TANK

TWO YEAR LIMITED WARRANTY

Seller warrants its 400 Gallon Bowser Fuel Drain Tank to be free from defects in material and workmanship under the normal use and service for which the unit is intended if, but only if the unit has been properly operated, maintained and stored in accordance with printed directions contained in the product manual. Our obligation under this Warranty shall be limited to the repair or exchange of equipment and parts which may prove defective within two years of the date the unit is put into service but shall in no event extend beyond a date three years from the date the unit is shipped from our plant. All transportation charges on parts returned to us for replacement under this Warranty must be returned pre-paid.

This Warranty does not extend to damage caused by environmental factors varying from normal design conditions, whether natural or man-made, or to units subjected to misuse, negligence or accident. This Warranty likewise does not extend to the unit or any parts thereof which have been repaired or altered improperly or in any way so as to effect adversely its stability or reliability. This Warranty does not cover parts or labor required to repair or replace parts whose usefulness is exhausted due to normal operation of the unit.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOT SET FORTH IN A WRITING SIGNED BY AN AUTHORIZED REPRESENTATIVE OF SELLER. SELLER SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL LOSS OR DAMAGE RESULTING FROM THE USE OR LOSS OF USE OF THE UNIT.

D2F;LS/1;eab
2052986;15563

MISCELLANEOUS FIXTURES

Sub Assy.	Item	Part No.	Quantity	Description	Weight #
	1	04-1037	1	Vent Cap	
	2	03-0017S	2	Street El	
	3	03-0388S	2	Hose Barb	
	4	03-1010S	2	Hose Clamp	
	5	06-2527	1	Clear Tubing	
	6	04-10321	1	Ball Valve	
	7	04-1033	1	Cam Lock Adapter	
	8	04-10331	1	Cam Lock Male Plug	
	9	04-1034	1	Chain Safety	
	10	04-1035	1	Link, S-Hook	
	11	04-10351	1	Link, S-Hook	
	12	01-8223	1	Sump Strainer	
	13		1	"Knappco" Sump Gasket	
	14		1	Tow Bar, Sub-Assembly	
	15		2	Bolt	
	16		2	Lock Nut	
	17	04-1036	1	Grounding Reel	
	18	04-10361	1	Grounding Reel	