

Airflo MANUFACTURING CO., INC.

P.O. BOX 289 PRATTSBURG, NEW YORK 14873

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OPERATOR & PARTS MANUAL

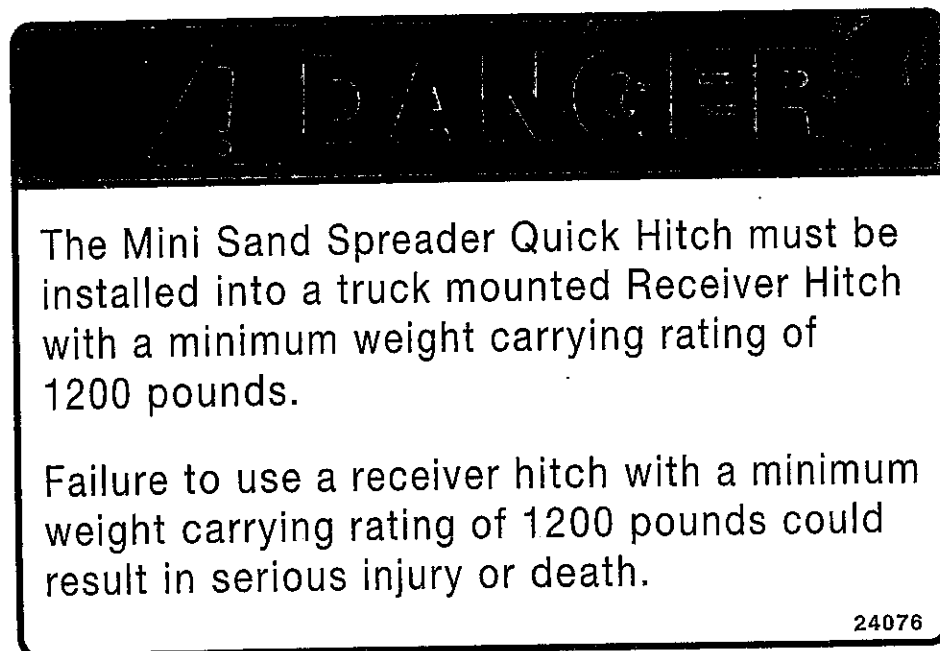
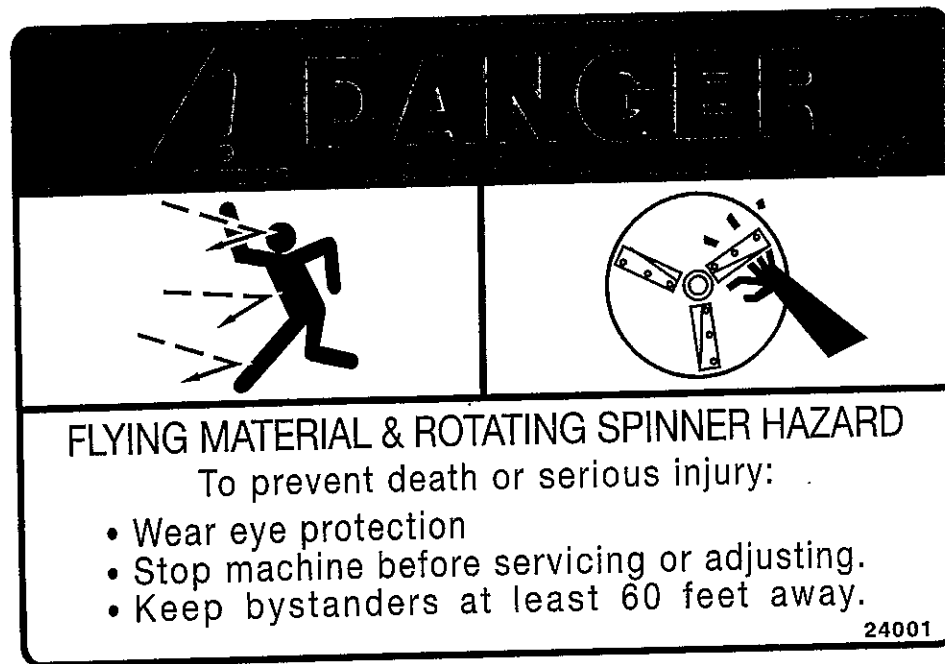
MINI SAND SPREADER

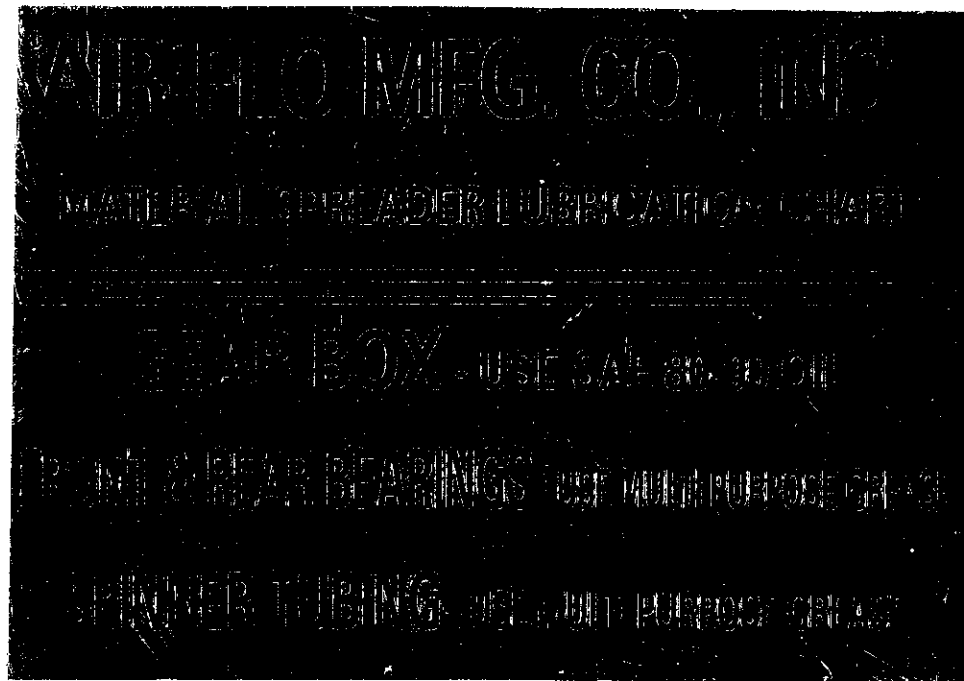
Airflo

MSS OPERATOR AND PARTS MANUAL

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CAUTION

**STAY OUT OF BOX
WHILE CONVEYOR IS MOVING**

**DO NOT RIDE
ON ANY PART OF SPREADER
WHILE VEHICLE IS IN MOTION.**

SAFETY

PERSONS WHO INSTALL, MOUNT OPERATE OR SERVICE THIS EQUIPMENT MUST BE PROPERLY INSTRUCTED AND WARNED.

READ OPERATOR MANUALS COMPLETELY BEFORE OPERATING EQUIPMENT.

READ DECAL INSTRUCTIONS, CAUTIONS, AND WARNINGS.

CHECK SPREADER TO ENSURE THAT ALL SHIELDS AND GRATES ARE IN PLACE.

USE CARE WHEN MOUNTING AND DISMOUNTING.

THE DRIVE SHAFTS, CONVEYOR AND SPINNER ASSEMBLIES TRANSMIT GREAT AMOUNTS OF POWER, AND ACCORDINGLY, ARE HAZARDOUS WHEN IN OPERATION. ALL MAINTENANCE, INSPECTIONS OR OPERATOR ADJUSTMENTS MUST BE MADE WITH ALL POWER OFF.

KEEP SPREADER AND SURROUNDING AREA CLEAR OF PERSONNEL AND PROPERTY WHEN OPERATING.

DO NOT USE EQUIPMENT WITHOUT STABILIZER BARS. USE WITHOUT STABILIZER BARS WILL VOID MANUFACTURERS WARRANTY.

CHECK LISTS

PRE-USE CHECK LIST

- ☐ Read this entire Owners Manual before operating this spreader.
- ☐ Before loading and operating the sander, check the recommended maximum payload. DO NOT OVERLOAD THE SANDER! Maximum payload Salt – 300 lbs. Sand – 600 lbs.
- ☐ Read and understand all the safety CAUTION, WARNING and DANGER signs on the spreader.
- ☐ Before starting your spreader, gearbox is filled to the proper level with lubricant and the viscosity meets your requirements.
- ☐ Verify that all personnel are clear of the spreader spray area before starting or operating this spreader.
- ☐ Make sure the spreader is securely fastened to the vehicle in accordance with this manual.

GENERAL INFORMATION

The purpose of this manual is to assist the owner / operator in maintaining and operating the Air-Flo Mini Sand Spreader. Read it carefully before attempting operation, maintenance or repair.

VEHICLE REQUIREMENTS

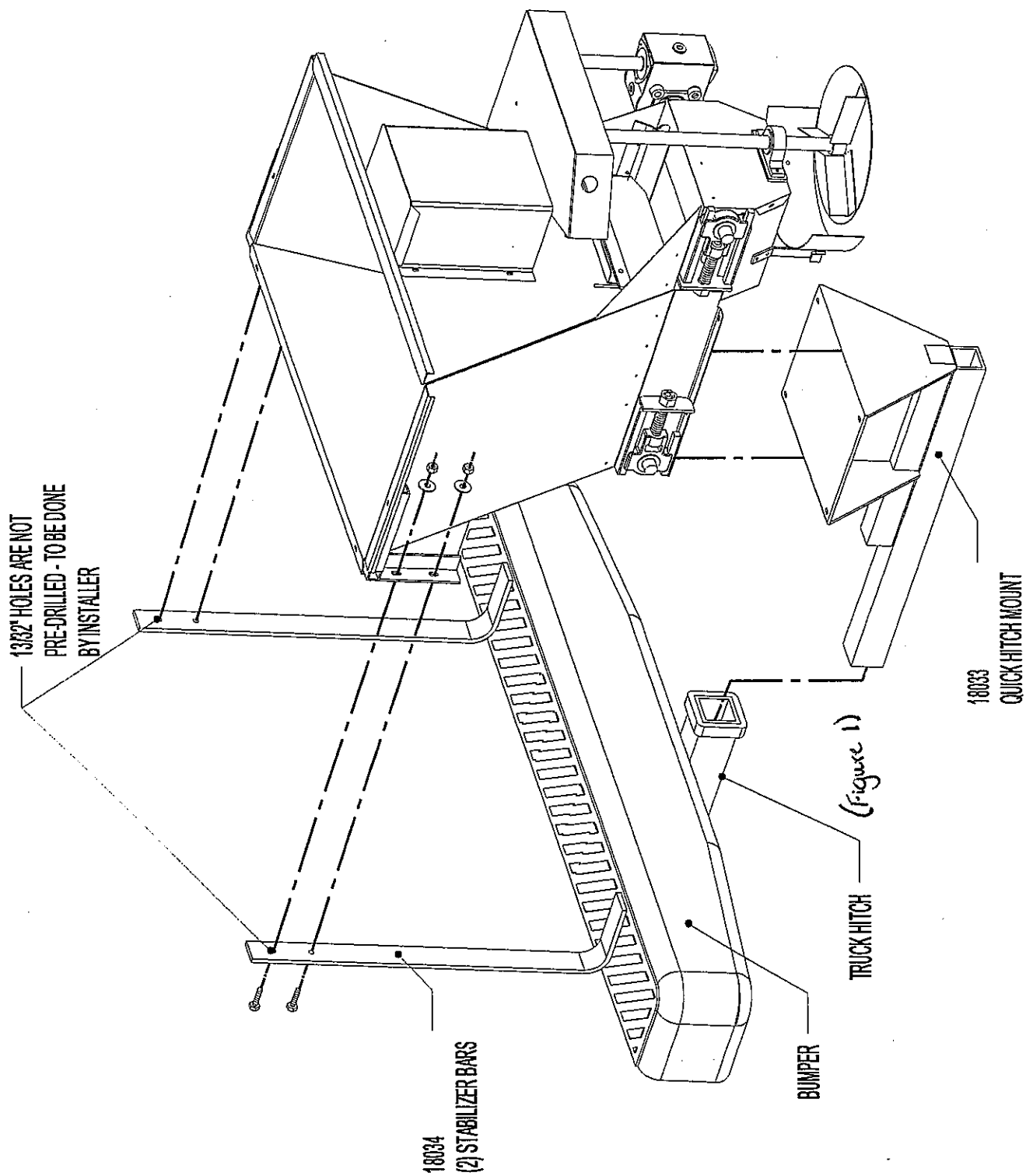
A Receiver Hitch with a minimum weight carrying rating of 1200 lbs. is required.

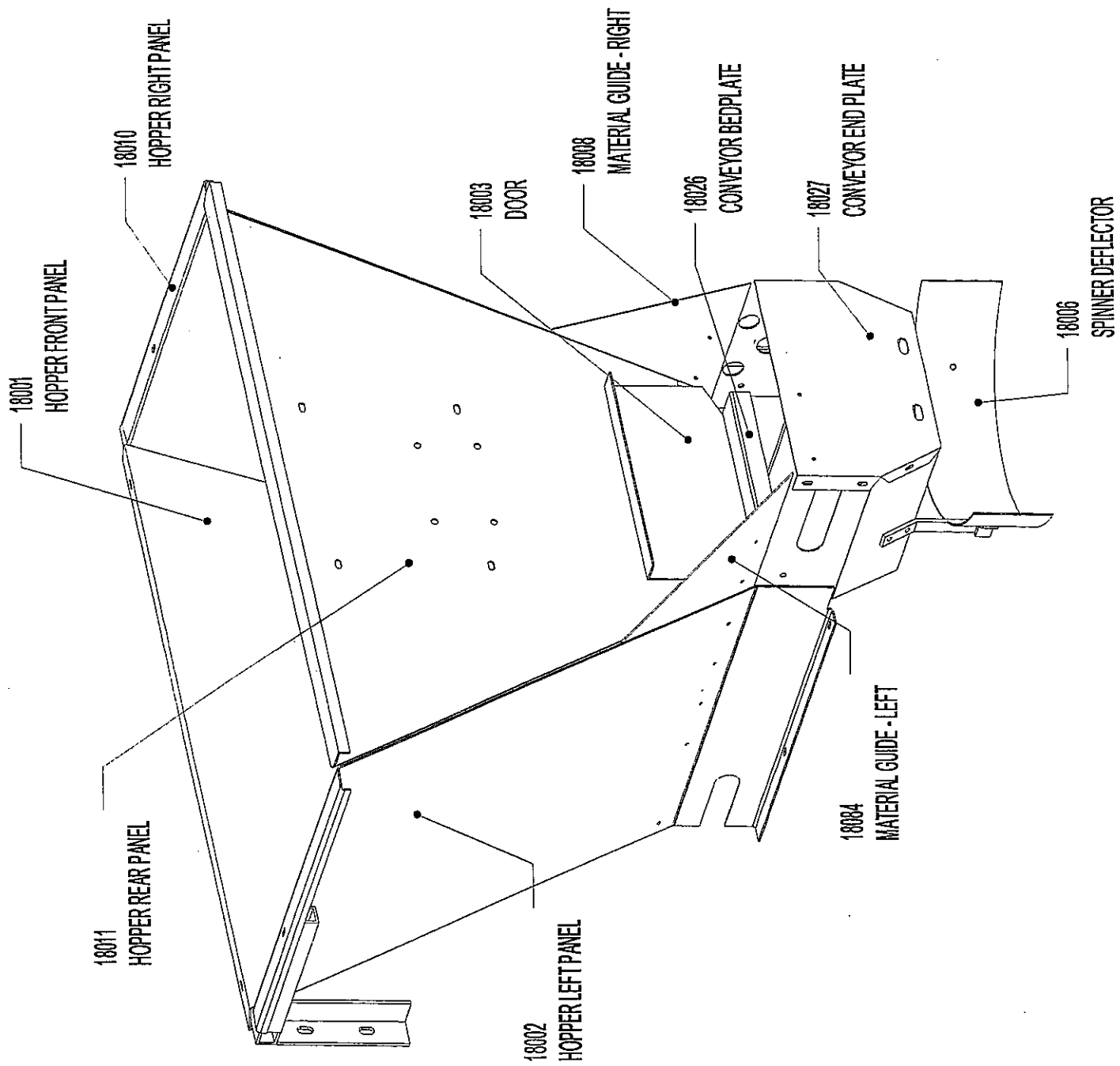
INSTALLATION OF MINI SAND SPREADER

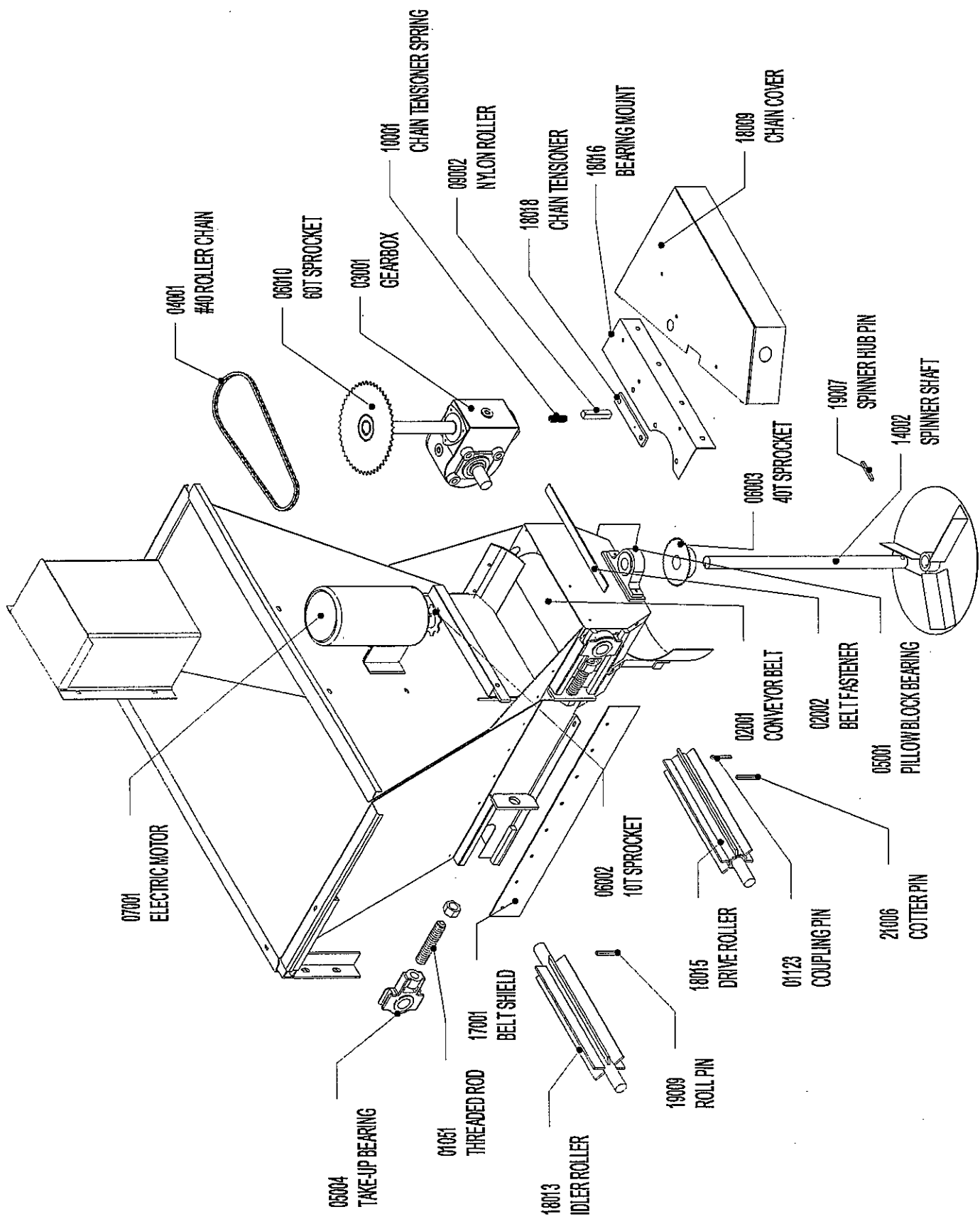
- Remove solid shipping plug from gear box once unit is in mounting position and reinstall attached vented plug.
- Slide quick hitch mount which is attached to spreader, into the truck receiver hitch (minimum carrying rating – 1200lbs.) and align pin opening. Insert hitch pin through opening and install safety clip to avoid loss of hitch pin. (Note – hitch pin and safety clip not provided.)
- With stabilizer bars resting on bumper (Figure 1), align bar mounted on spreader with stabilizer bars to proper height and mark for drilling. Remove stabilizer bars from truck bumper and drill (2) 13/32" holes through each bar. With stabilizer bars resting on bumper install (2) 3/8 x 1 Gr. 8 bolts through each bar and install flat washer, lock washers and nuts (as shown in Figure 1).
- Follow instructions on all Danger and Warnings stickers.

ELECTRIC MOUNTING INSTALLATION

- Install the toggle switch in the desired location on the truck instrument panel.
- Install the 80 amp relay and the 50 amp circuit breaker in a convenient location in the truck engine compartment.
- Remove the motor cover with the two top screws.
- Remove the two "knock-outs" in the top of the cover and install the 2 water tight fittings provided.
- Feed the two leads into the fittings and connect to the motor terminals, as stated below.
- Replace the motor cover.
- Make sure the fittings are sealed water tight.
- Connect one short length of 8 – gauge hook-up wire from one motor terminal to ground (license plate bolt, frame bolt, etc.).
- Connect a second 8 – gauge wire to the other motor terminal and route it to the truck engine compartment and connect to one large terminal of the relay.
- Run 8 – gauge wire from the other large relay terminal of the battery.
- Run 14 – gauge wire from a small relay terminal through the dash mounted toggle switch and on to the positive relay terminal.
- Connect a short 14 – gauge wire from other small relay terminal to ground.
- Observe the conveyor to insure proper direction of travel.
- If the belt travels in the wrong direction, simply reverse the wire connection on the electric motor.

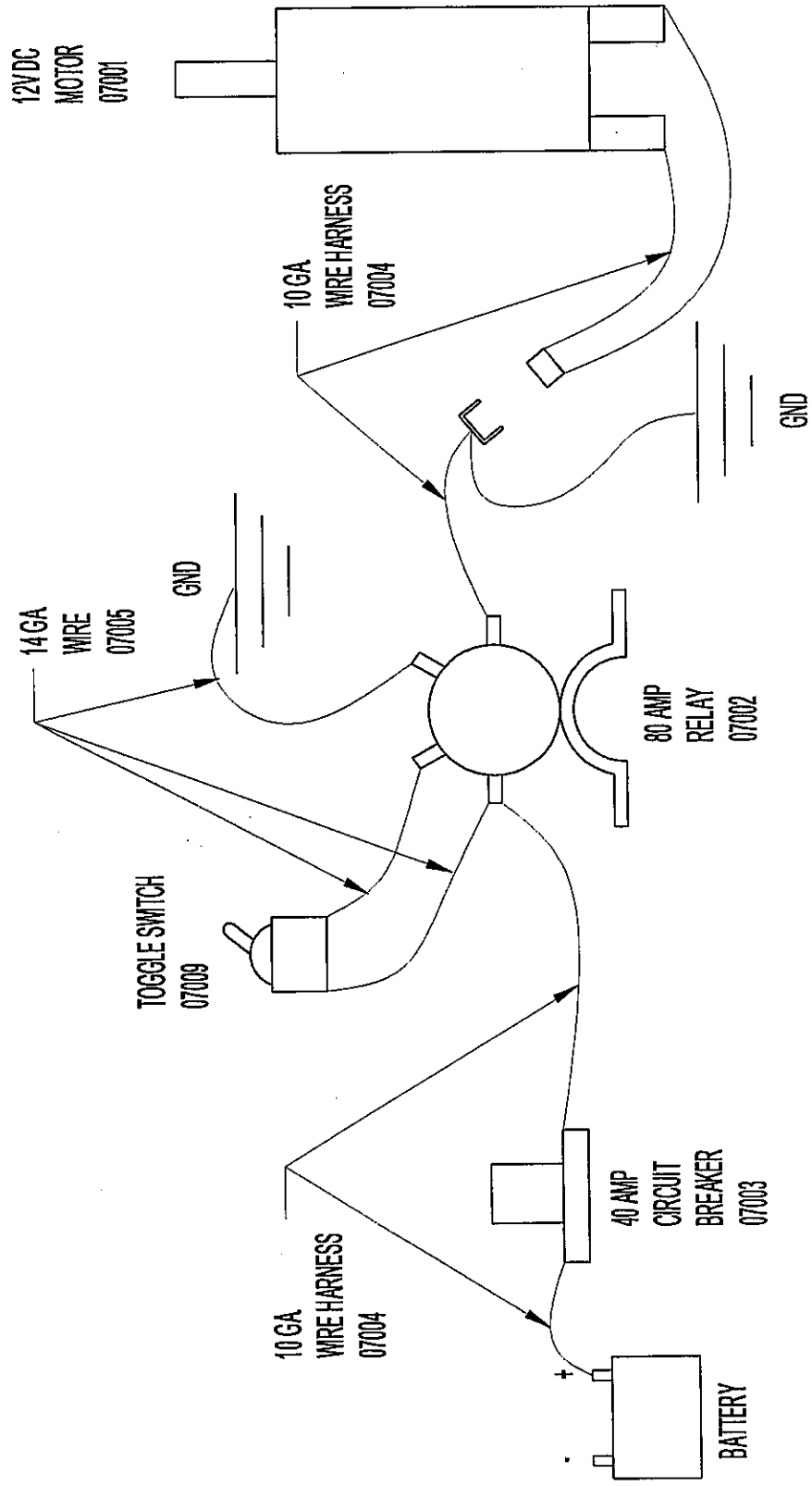






AIR-FLO MINI SAND SPREADER

ELECTRICAL COMPONENTS AND INSTALLATION SCHEMATIC

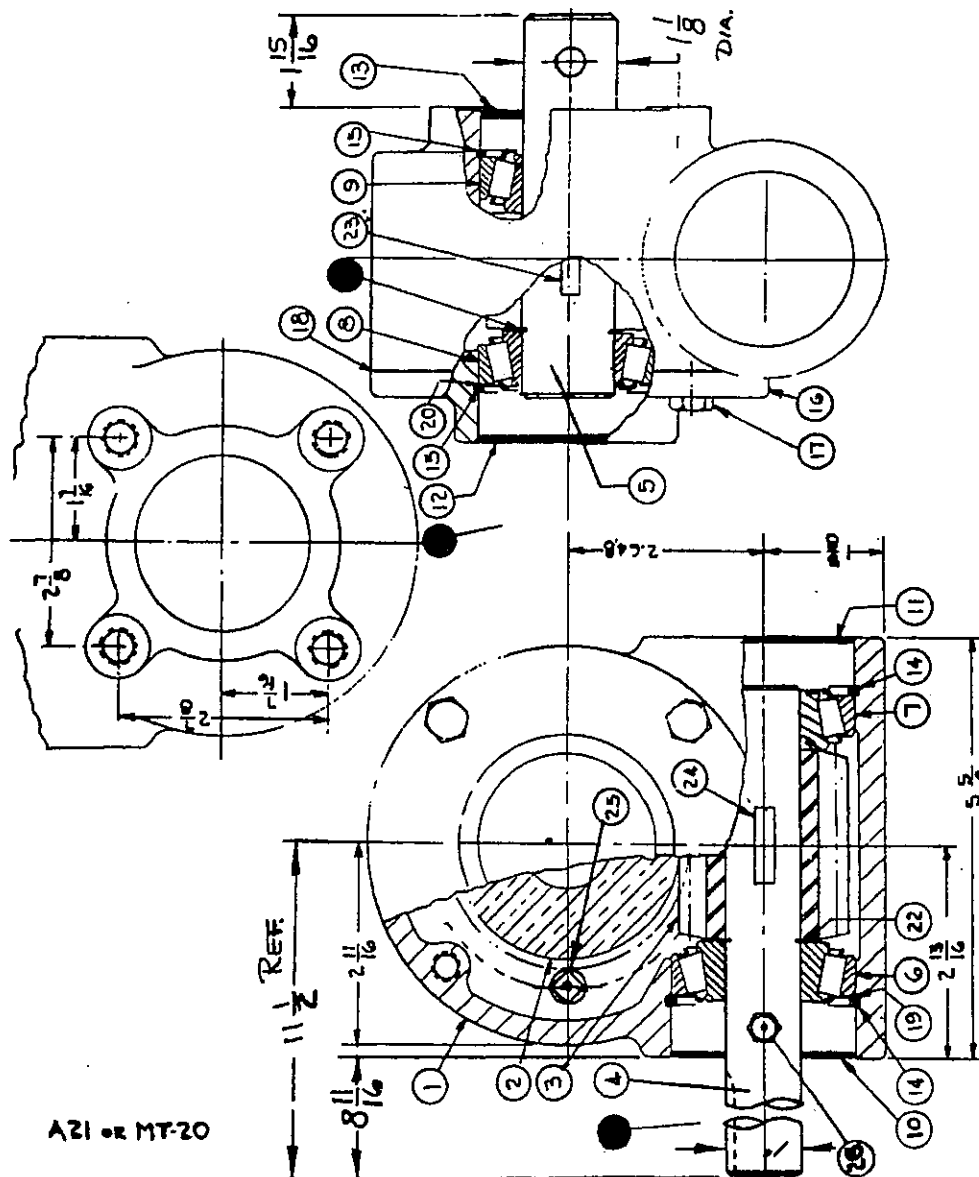


MSS PARTS LISTING

<u>PART #</u>	<u>DESCRIPTION</u>
01051	5" THREADED ROD
01123	COUPLING PIN
02001	CONVEYOR BELT
02002	BELT FASTENER
03001	GEARBOX
04001	#40 ROLLER CHAIN
05001	PILLOW BLOCK BEARING
05004	TAKE-UP BEARING
06002	10T SPROCKET
06003	40T SPROCKET
06010	60 T SPROCKET
07001	12V DC ELECTRIC MOTOR
09002	NYLON ROLLER
10001	CHAIN TENSIONER SPRING
14001	SPINNER DISK
14002	SPINNER SHAFT
17001	BELT SHIELD
18001	HOPPER FRONT PANEL
18002	HOPPER LEFT PANEL
18003	DOOR
18084	MATERIAL GUIDE - LEFT
18006	SPINNER DEFLECTOR
18008	MATERIAL GUIDE - RIGHT
18009	CHAIN COVER
18010	HOPPER RIGHT PANEL
18011	HOPPER REAR PANEL
18013	IDLER ROLLER
18015	DRIVE ROLLER
18016	BEARING MOUNT
18018	CHAIN TENSIONER
18026	BEDPLATE
18027	CONVEYOR END PLATE
18033	QUICK HITCH MOUNT
18034	QUICK HITCH STABILIZER BARS
19007	SPINNER HUB PIN
19009	ROLL PIN
21006	COTTER PIN

AIR-FLO MINI SAND SPREADER GEAR DRIVE

ITEM	NO. PCS.	PART NO.	DESCRIPTION
1	1	91001	GEAR HSG W/1 ZRRK 1/4-28 NP
2	1	91002	GEAR 1-1/8" BORE
3	1	91003	GEAR
4	1	91004	INPUT SHAFT
5	1	91005	OUTPUT SHAFT
6	1	91006	BRG/TIMKEN 15101 CONE 15245 CUP
7	1	91007	BRG/TIMKEN 15113 CONE 15245 CUP
8	1	91008	SEAL MVG63519
9	1	91009	CAP
10	1	91010	SEAL MVG63520
11	2	91011	SNAP RING #1208-8
12	1	91012	COVER
13	1	91013	CAP SCREWS 3/8-16 NC X 3/4" L.
14	2	91014	GASKET
15	AS	91015	SHIM
16	1	91016	SNAP RING #5422
17	1	91017	KEY 1/4 X 1-1/8 WOODRUFF NO.18
18	1	91018	KEY 1/4 X 7/8 WOODRUFF "A"
19	1	91019	PLUG VENT 3/8 NPT
20	1	91020	ZRRK 1/4-28 NP



INPUT MOUNTED
UP (VERTICAL)

Air-Flo Mfg. Co., Inc., Prattsburg, N.Y. 14873

MATERIAL SPREADER WARRANTY

AIR-FLO MANUFACTURING CO., INC., hereinafter referred to as "Manufacturer", warrants each new Material Spreader sold by the Manufacturer to be free from defects in material and workmanship, under normal use and service, for a period of One (1) year after the date of delivery to the original retail purchaser, and Manufacturer will, at its option, replace or repair, at one of the Manufacturer's Dealers, or at a point designated by the Manufacturer, any part or parts which shall appear to the satisfaction of the Manufacturer upon inspection at such point, to have been defective in material or workmanship. This Warranty does not obligate the Manufacturer to bear any transportation charges in connection with the replacement or repair of defective parts.

This Warranty shall not apply to any Spreader which shall have been installed or operated in a manner not recommended by the Manufacturer; nor to any Spreader which shall have been repaired, altered, neglected or used in any way which, in the Manufacturer's opinion, adversely affects its performance; nor to any Spreader in which parts not manufactured by the Manufacturer, or supplied by the Manufacturer or by one of Manufacturer's Distributors or Service Centers, have been used; nor to any accessories installed on the Spreader where the accessory manufacturer has its own warranty; nor to normal maintenance services or replacement of normal service items.

Manufacturer reserves the right to modify, alter, and improve any Spreader or parts without incurring any obligation to replace any Spreader or parts previously sold with such modified, altered, or improved Spreader or part.

THIS WARRANTY, AND THE MANUFACTURER'S OBLIGATION HEREUNDER, IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, and all other obligations or liabilities, including special or consequential damages or contingent liabilities arising out of the failure of any Spreader or part to operate properly. No person is authorized to give any other warranty or to assume any additional obligation on the Manufacturer's behalf unless made in writing and signed by the Manufacturer.

Air Flo Mfg. Co. Inc.

Prattsburg, New York 14873