

PRO-COM™ MULTI – PURPOSE BODY

TABLE OF CONTENTS

	PAGE #
CHECKLISTS.....	2
GENERAL INFORMATION.....	2
SAFETY & WARNING INFORMATION	
SAFETY PROCEDURES.....	3
SAFETY DECALS & LOCATIONS.....	4-5
INSTALLATION INSTRUCTIONS.....	6-7
UNIT OPERATION.....	8
UNIT MAINTENANCE.....	9
HYDRAULIC SCHEMATIC.....	10
PARTS LISTING.....	11-13
WARRANTY.....	14

CHECK LISTS

PRE-USE CHECK LIST

- ☐ Read this entire Owners Manual before operating this unit.
- ☐ Before loading and operating this unit, check the recommended maximum payload. DO NOT OVERLOAD THE BODY!
- ☐ Read and understand all the safety CAUTION, WARNING and DANGER signs on this unit.
- ☐ Before operating your body, check that the gearbox is filled to the proper levels with lubricant and the viscosities meet your requirements.
- ☐ Verify that all personnel are clear of the spinner spray area before starting or operating the conveyor & spinner.

GENERAL INFORMATION

The purpose of this manual is to assist the owner / operator in maintaining and operating the Air-Flo Pro-Com™ multi-purpose body. Read it carefully before attempting operation, maintenance or repair.

VEHICLE REQUIREMENTS

1 ton Chassis above 17,000 # GVWR.

CAUTION! Do not overload vehicle beyond the vehicle GVWR or GAWR. Check the vehicle's load rating certification sticker for maximum vehicle capacity.

Spreader and Material Weights

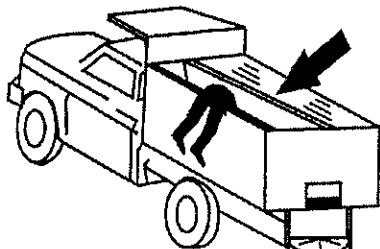
MATERIAL	WEIGHT (POUNDS PER CUBIC YARD)
PRO-COM™	3,350 lbs.
#1 Rock Salt	950 lbs.
#2 Rock Salt	1,215 lbs.
Coarse Sand – Dry	2,565 lbs.
Coarse Sand – Wet	3,240 lbs.

SAFETY

WARNING! Observe the following Safety Precautions before, during and after operating this unit. By following these precautions and common sense, possible injury to persons and potential damage to this machine may be avoided.

- 1) Persons who install, mount, operate, or service this equipment must be properly instructed and warned.
- 2) Read operator manuals completely before operating equipment.
- 3) Read decal instructions, cautions, and warnings.
- 4) Check unit to ensure that all shields are in place.
- 5) Use care when mounting and dismounting.
- 6) 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.
- 7) Keep unit and surrounding area clear of personnel and property when operating.
- 8) Keep unit and components in proper working condition. Replace missing or damaged safety signs.
- 9) Unauthorized modifications to the unit and related components may impair the function and / or safety.
- 10) Check to make sure all safety guards are securely mounted into place before operating this unit.
- 11) Keep all loose clothing, hair, jewelry and limbs clear of the unit before starting or operating the conveyor and spinner.
- 12) Do not adjust, clean, oil or unclog material jams without first turning off the conveyor and spinner.
- 13) Do not climb on or in the unit during spreading operations. Do not ride on or in the unit while the vehicle is in motion.
- 14) Do not operate a unit that is in need of maintenance or repair.

SAFETY DECALS & LOCATIONS



STAND CLEAR!
DO NOT operate the Hopper Sides
unless all personnel are clear of the body.

**LOCATED ON THE FRONT OF EACH
SIDE OF THE DUMP BODY.**



**LOCATED ON THE FRONT OF EACH
SIDE OF THE DUMP BODY.**



1. NEVER GET UNDER A RAISED BODY UNLESS IT IS EMPTY AND SECURELY PROPPED UP WITH THE BODY PROP.
2. DO NOT LOAD ANY AXLE BEYOND VEHICLE MFG'S RATED CAPACITY. REFER TO SPECIFIC TRUCK MANUFACTURERS PUBLICATION FOR SPECIFIC WEIGHT RATING INFORMATION.
3. MAKE CERTAIN THE LOAD IS EVENLY DISTRIBUTED.
4. DO NOT RAISE A LOAD ON UNEVEN OR UNSTABLE GROUND.
5. STAY AT THE CONTROLS THROUGHOUT THE DUMP CYCLE.
6. DO NOT TRY TO FREE A STUCK LOAD BY BACKING AND BRAKING ABRUPTLY.
7. MAKE CERTAIN NO ONE IS BEHIND THE BED BEFORE DUMPING.
8. DO NOT MOVE THE TRUCK WITH THE BODY IN A RAISED POSITION.
9. DO NOT LOAD THE TAILGATE WITH ANY WEIGHT.

FAILURE TO COMPLY WITH ANY OF THE ABOVE WARNINGS COULD RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH.

BODY "HOIST UNIT" WAS SHIPPED WITH A DETAILED OPERATOR MANUAL. THIS MANUAL CONTAINS VITAL INFORMATION FOR THE SAFE USE AND EFFICIENT OPERATION OF THIS UNIT. CAREFULLY READ THIS MANUAL BEFORE STARTING THE UNIT.

P/N 24014

LOCATED ON THE BODY PROP.



**FLYING MATERIAL - STAY AWAY.
WEAR EYE PROTECTION.
MAKE NO ADJUSTMENTS
UNTIL SPINNERS STOP TURNING.**

LOCATED ON THE SPINNER.

SAFETY DECALS & LOCATIONS



Never attempt to open the tailgate from the top down when the dump body is in a raised position, or if the dump body is loaded.

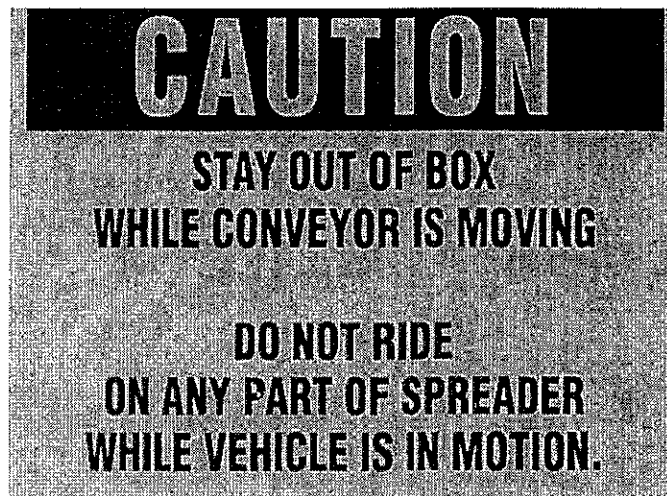
Failure to support the tailgate while opening the tailgate from the top down will result in the tailgate rotating open uncontrollably and could result in serious injury. Support the tailgate at the very top while opening the tailgate from the top down.

Failure to keep extremities away from chains and other pinch points while opening the tailgate from the top down could result in serious injury. When opening the tailgate from the top down hold the tailgate only at the very top away from chains and other pinch points.

Failure to maintain proper adjustment on tailgate latch linkage and/or failure to securely latch tailgate bottom while opening tailgate from the top down will result in the tailgate falling which could result in serious injury. Latch the tailgate and check for proper latch linkage adjustment before opening the tailgate from the top down.

Failure to use tailgate support chains when opening the tailgate from the top will result in the tailgate opening too far. Possible damage to body and/or tailgate may result.

LOCATED ON THE LEFT SIDE OF THE TAILGATE.



LOCATED ON THE LEFT FRONT OF THE DRIVERS SIDE OF THE BODY.

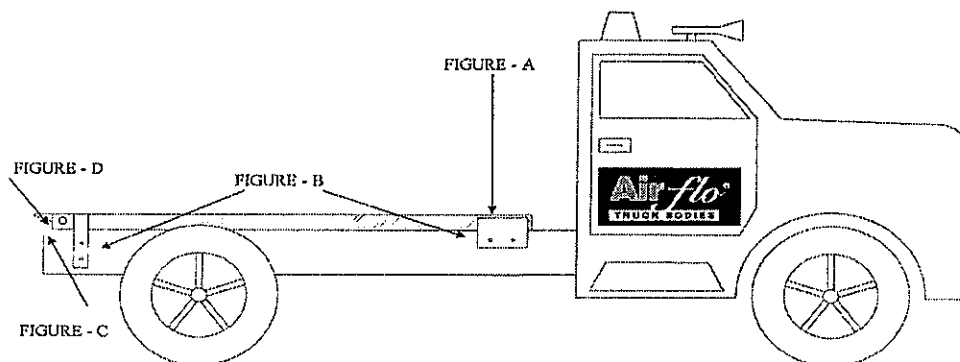
INSTALLATION INSTRUCTIONS

- 1) Mounting the body and sub-frame to the Vehicle:
 - A. Weld the 3/8" x 3"x3" angle (Figure B) one inch from the rear hinge and the 1/4" x 7" x 10" plate (Figure B) one inch from the front of the sub-frame.
 - B. Cut 2 1/2" (Figure C) at 45° from the chassis frame.
 - C. Set the sub-frame on the chassis frame and weld the rear edge of the sub-frame to the chassis at the top of the 45°. (Figure D) Drill 5/8" holes in the chassis frame and bolt the sub-frame to chassis frame with the 5/8" grade 8 bolts and locknuts. (Figure B)
 - D. Place the body in position with 8 1/4" of overhang from the center of the hinge. Lower the bottom of the cylinder into position in the cylinder frame. Remove the cylinder pin lock caps in the cylinder frame. Carefully remove the safety chain over the cylinder and then lower into place.

WARNING – NEVER WORK UNDER A SUSPENDED BODY WITHOUT FIRST BLOCKING UNDER THE BODY OR IT CANNOT FALL DOWN ON YOU.

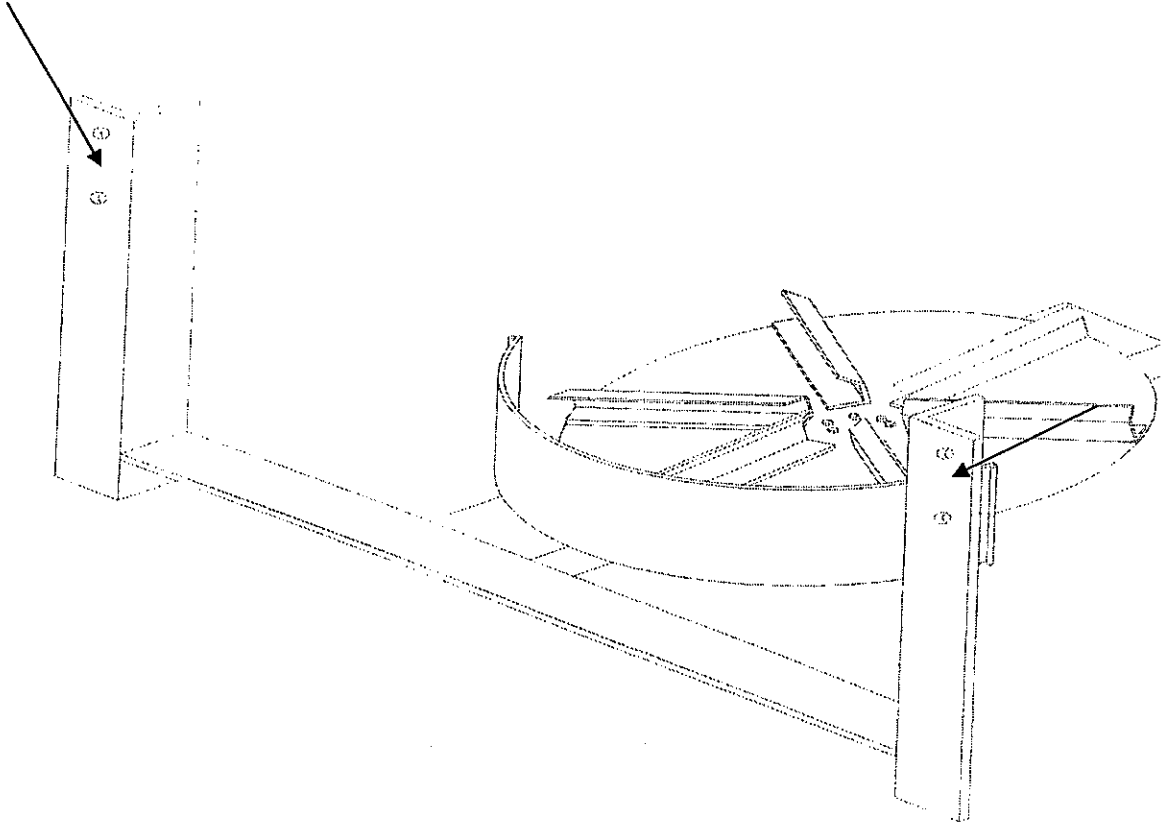
Place the cylinder lock caps back into place and tighten down with the hardened bolts provided.

Full weld the back hinge lugs to the body longitudinals.



SPINNER ARM MOUNTING

- 1) Mounting the rear spinner to the sub-frame:
 - A. Bolt the rear spinner assembly to the sub-frame with 4 ½" grade 8 bolts and lock washers.



UNIT OPERATION

DUMP BODY OPERATION:

This body is made to withstand many years of normal dump body use. No special care is needed when loading material in the dump body. The chain is built into the floor in such a way as to be protected from material dropped on it.

SPREADER OPERATION:

To convert this unit to the spread mode open the hopper sides with the provided hand cranks. With the doors open the conveyor is always ready to convey material rearward for spreading or stockpiling.

When using the body for spreading, set the gate at the desired material flow. There is approximately 3" of rubber belt below the gate. This belt will seal the gate opening and prevent material from leaking out when the gate is raised for spreading. As long as the steel end of the gate is opened no more than 3", this rubber will effectively seal the gate while it is open. Because of the extra wide conveyor, a 3" gate opening is adequate for most all spreading operations.

**WARNING – DO NOT RAISE THE BODY WHILE THE TRUCK IS IN MOTION.
STOP THE VEHICLE FIRST AND CHECK ABOVE THE BODY FOR
OBSTRUCTION CLEARANCE BEFORE RAISING THE BODY.
FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD
RESULT IN SERIOUS BODILY INJURY OR PROPERTY DAMAGE.**

CONVEYOR CHAIN ADJUSTMENT:

There is no need to raise the body to tighten the chain. Tighten the two nuts on the threaded rod that is attached to the bearing slide plate. This will push the bearing slide plate forward and consequently will tighten the conveyor chain.

Do not over tighten the conveyor chain. Tighten just enough to lift the chain off the bottom of the cross members. Over tightening will cause premature wear on the sprockets, chain and bearings.

UNIT MAINTENANCE

HYDRAULIC OIL

Cleanliness in handling of the hydraulic oil cannot be stressed enough. To insure maximum performance of the system, the oil must be kept in closed containers and handled with clean measures and funnels. Also, the original hydraulic oil filter must be changed after 50 hours of operation and then changed every 250 hours, thereafter. The oil in the system should be changed after every 1000 hours of operation. Check with the chart below for proper oil type to be used.

OIL WEIGHT	OPERATING TEMPERATURES
SAE 5 HYDRAULIC OIL	-10° F AND BELOW
SAE 10 HYDRAULIC OIL	-10° F AND 100° F
SAE 15 HYDRAULIC OIL	-100° F AND ABOVE

CONVEYOR GEAR CASE

The oil in the gear case should be drained, flushed, and refilled with light oil after the first 100 hours of operation. After the initial 100 hour change, the oil should be changed every 2000 hours or annually, whichever occurs first. Lubricate these gear cases with a non-corrosive type SAE 90 E.P. Gear Oil conforming to MIL – L 2105B multi-purpose gear lubricating oil requirements with ambient temperatures from 40 to 100 degrees Fahrenheit. Temperatures below 40° F require an SAE 80 E.P. lubricant; above 100° F use SAE 190 E.P. grade oil.

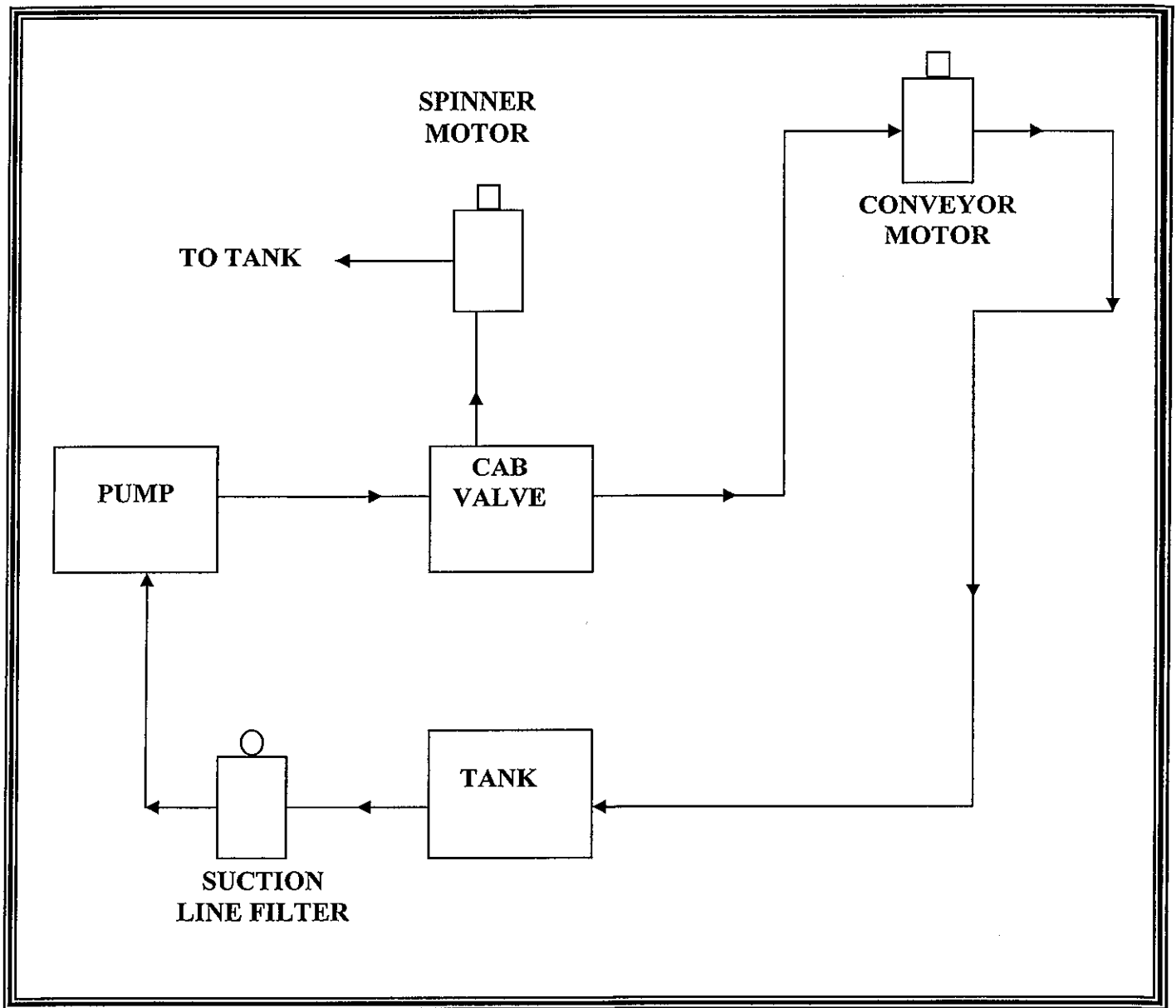
BALL BEARINGS

Periodically grease all ball bearings with a ball and bearing lithium base lubricant, with a viscosity which assures easy handling at prevailing temperatures.

CONVEYOR CHAIN

After spreading any corrosive material, at least once a week, apply kerosene or penetrating oil to each link with the conveyor running. **CAUTION** must be observed when lubricating a running conveyor chain. Run the chain slowly and shutdown the spinner.

HYDRAULIC SCHEMATIC



PARTS

ILLUSTRATIONS

&

PART NUMBERS

CONVEYOR MOTOR - 12005 - 8

6:1 CONVEYOR GEAR BOX - 03052 - 7

20:1 45° SIDE GEAR BOX - 03020 - 9

4 BOLT FLANGE BEARING (2 SHOWN) - 05020 - 6

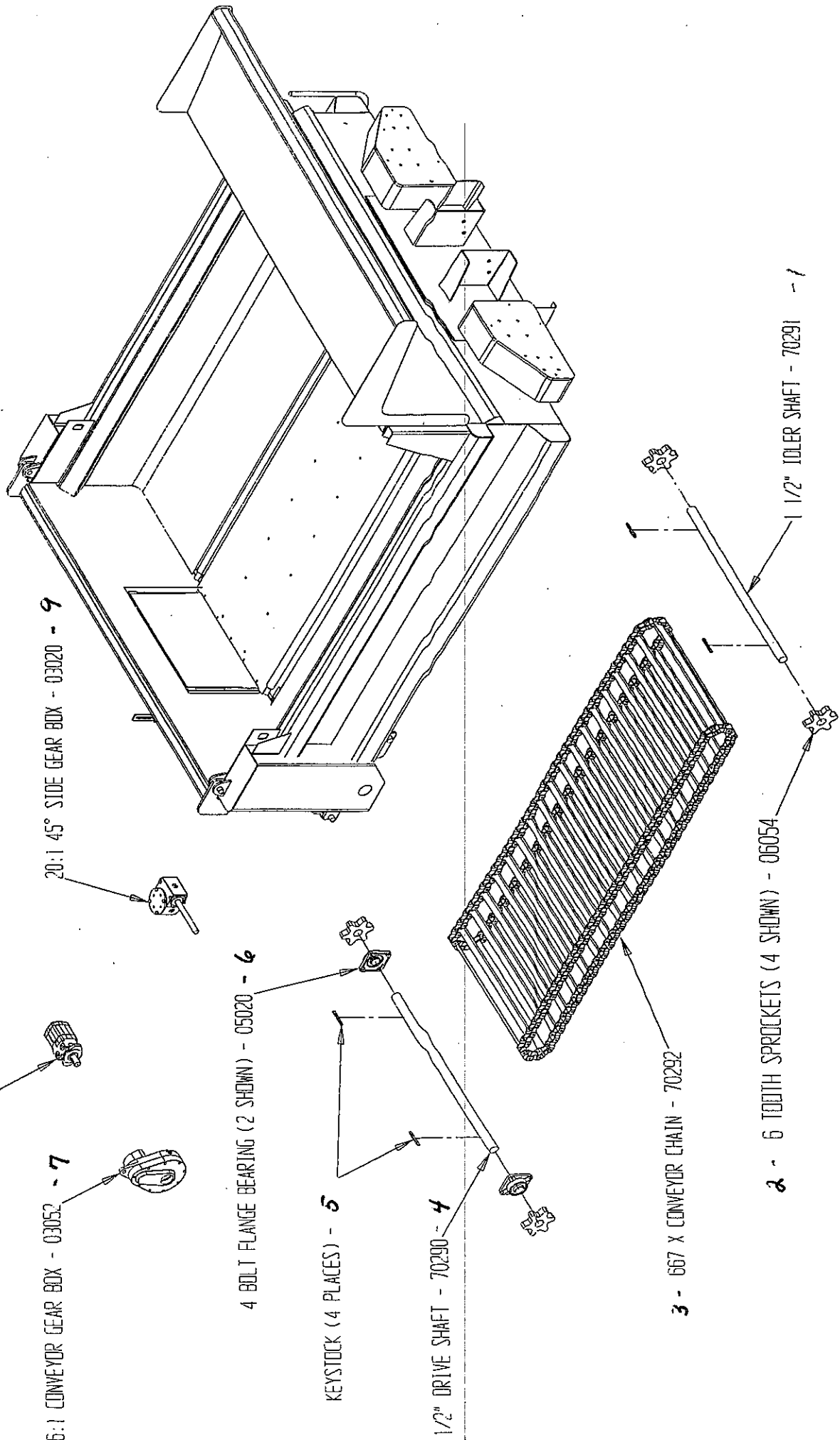
KEYSTOCK (4 PLACES) - 5

1/2" DRIVE SHAFT - 70290 - 4

3 - 667 X CONVEYOR CHAIN - 70292

2 - 6 TOOTH SPROCKETS (4 SHOWN) - 06054

1 1/2" IDLER SHAFT - 70291 - 1

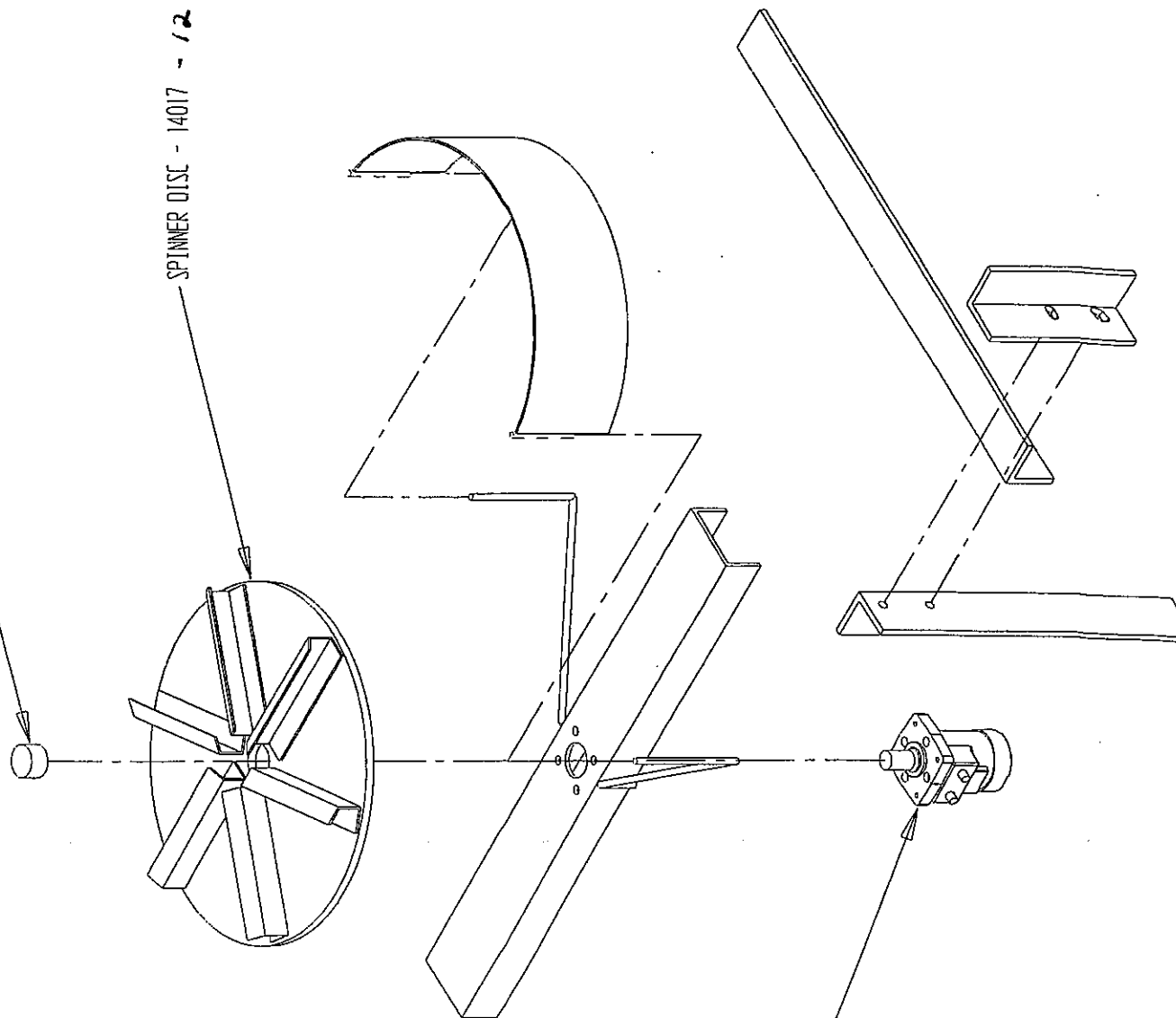


REAR SPINNER ASSEMBLY - 70293

SPINNER HUB - 06005 - 11

SPINNER DISC - 14017 - 12

SPINNER MOTOR - 12002 - 10



LOCATION	PART #	DESCRIPTION
1	70291	1 1/2" IDLER SHAFT
2	06054	6 TOOTH SPROCKETS
3	70292	667 X CONVEYOR CHAIN
4	70290	1 1/2" DRIVE SHAFT
6	05020	4 BOLT FLANGE BEARING
7	03052	6:1 GEAR BOX
8	12005	CONVEYOR MOTOR
9	03020	50:1 HOPPER DOOR GEAR BOX
10	12002	SPINNER MOTOR
11	06005	SPINNER HUB
12	14017	20" SPINNER DISC
N/A	70293	REAR SPINNER ASSEMBLY
N/A	70294	LEFT HAND HOPPER DOOR
N/A	70295	RIGHT HAND HOPPER DOOR
N/A	70296	HOPPER DOOR HINGE

WARRANTY

AIR-FLO MANUFACTURING CO., INC., hereinafter referred to as "Manufacturer", warrants each new Pro-Com™ Body 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 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 of repair of defective parts.

This Warranty shall not apply to any Body which shall have been installed or operated in a manner not recommended by the Manufacturer; not to any Body 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 Body in which parts not manufactured by the Manufacturer, supplied by the Manufacturer or by one of the Manufacturer's Distributors or Service Centers, have been used; nor to any accessories installed on the Body 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 and Body or parts without incurring any obligation to replace any Body or parts previously sold with such modified, altered, or improved Body 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 Body or part to operated 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.