## FORSBERG PRECISION AIR CLASSIFIER

Engineered and constructed in the traditional FORSBERG manner, providing design strength and machine quality at the lowest possible price.



CAPACITY: 167 bu/hr on wheat (note: capacities vary depending on product)

WHY THE

#### FORSBERG CLASSIFIER

IS SUPERIOR:

- 14 GAUGE STEEL CONSTRUCTION
- AIR CHAMBER OBSERVATION WINDOWS
- UNIFORM AIR DISTRIBUTION
- NO JACK SHAFT
- NO LUBRICATION REQUIRED
- NO SCREENS TO CLEAN

FOR INFORMATION ON THIS AND OTHER FORSBERG MACHINERY, PLEASE WRITE OR CALL:

FORSBERG.

P.O. Box 510 — Airport Road Thief River Falls, MN 56701 Telephone: (218) 681-1927 Cable: Forsep - TWX: 910-561-2634 FORSBERGS, THRF

## FORSBERG 6 x 18 PRECISION AIR CLASSIFIER

Weight:

515 pounds with motor

Height:

10 Feet 1 inch

Blower:

15" diameter wheel

Motor:

1½ HP, 1725 RPM

Fan Speed:

870 RPM

7' Input height (product)

2' Product discharge (heavy)

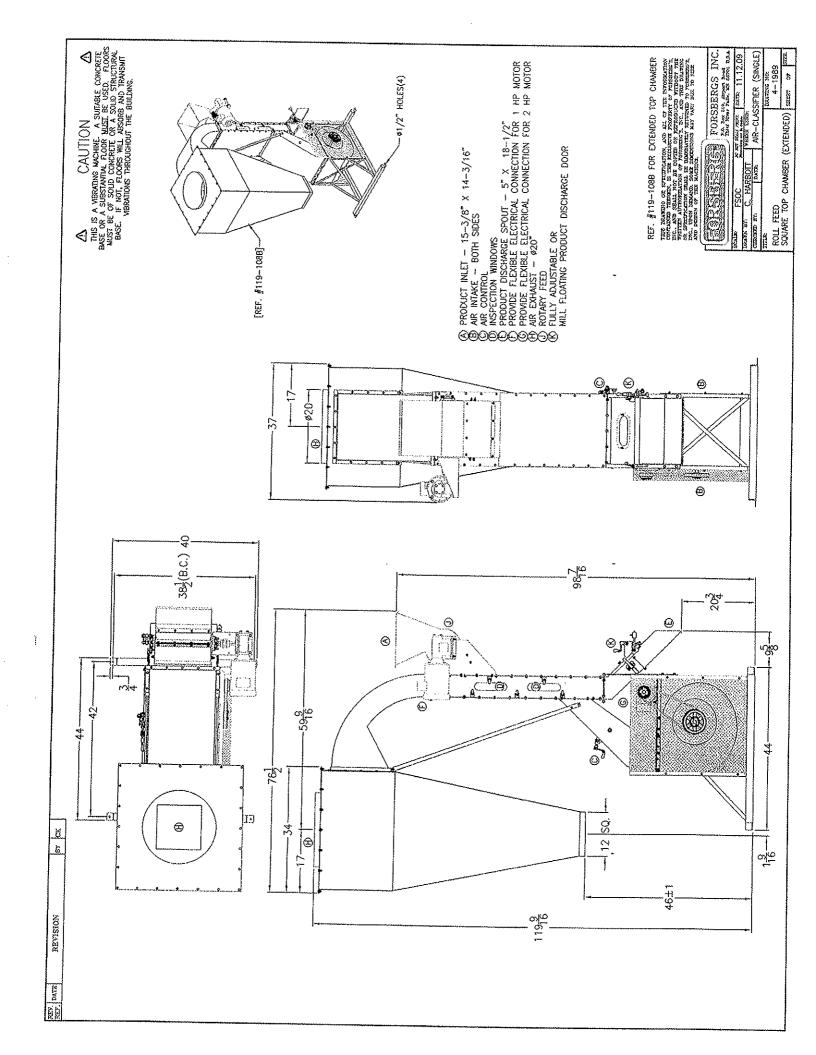
4' Light product discharge

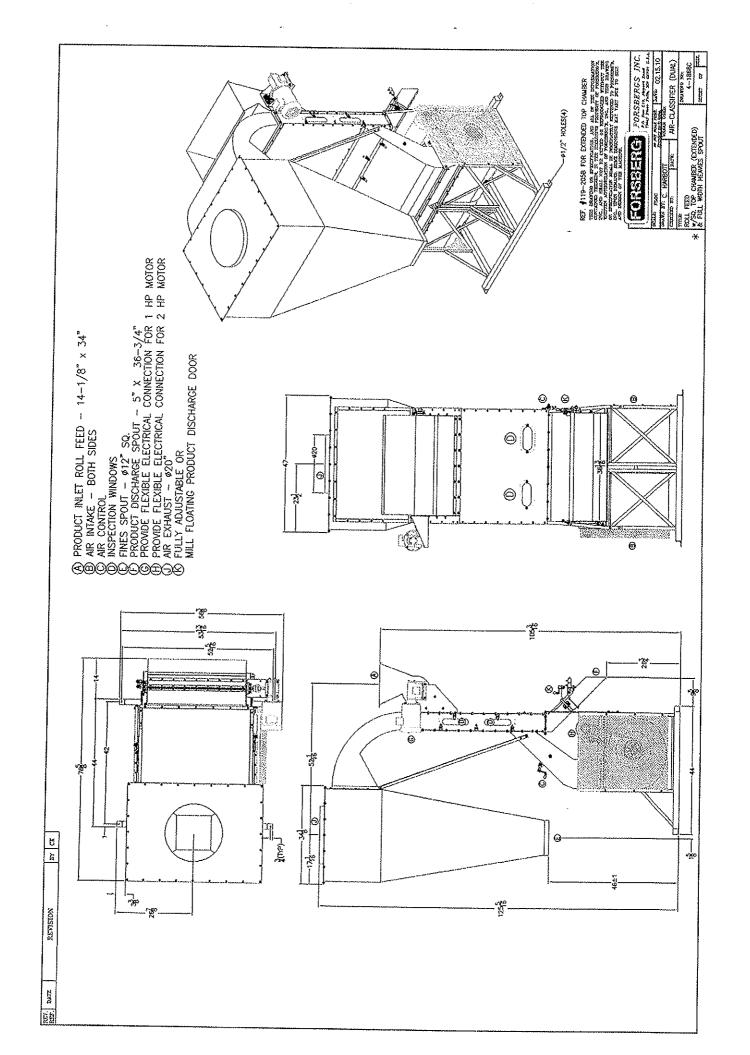
PRODUCT	CAPACITY	AIR
Shelled Corn	9,000 lbs/hr	1/2 open
	(161 bu/hr)	
Confectionery Sunflowers	5,000 lbs/hr	1/4 open
	(208 bu/hr)	
Pinto Beans	9,000 lbs/hr	1/2 open
	(90 bags/hr)	
Wheat	10,000 lbs/hr	1/3 open
	(167 bu/hr)	

#### **OPERATING PRINCIPLE**

The principle of product separation is based on differential of lifting velocity. Lifting velocity is dependent on the shape, surface texture and density which affects the aero-dynamic behavior of the product in the air stream.

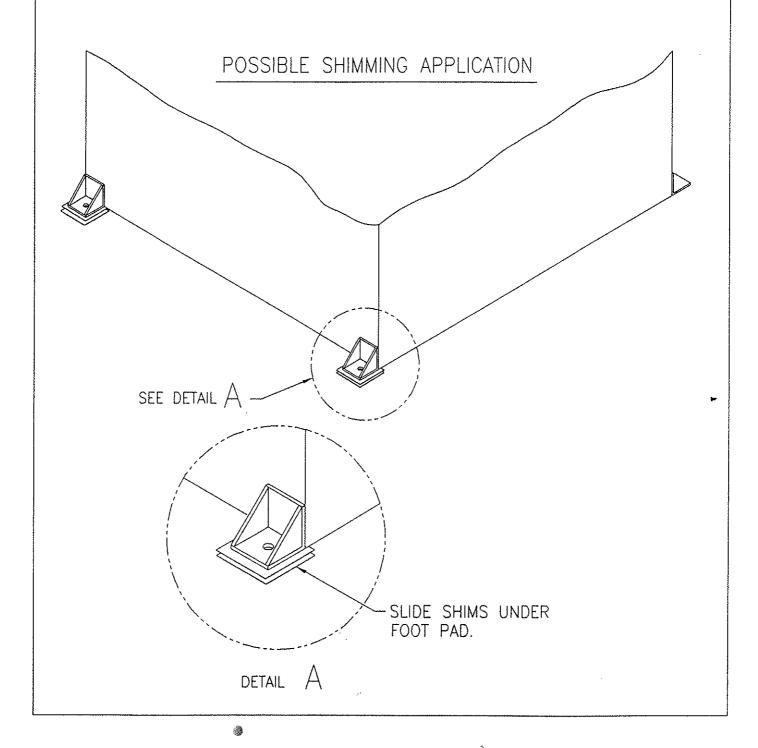
The portion of the product which is aerodynamically heavy will fall in the air stream and be discharged out the discharge density, airlock, spout. The lighter product is carried with the air stream to the settling chamber where most of this product is discharged through the light product discharge spout.





### SHIMMING INSTRUCTIONS

After the machine has been set in place on solid concrete or a solid structural base, and prior to bolting the machine down — THE MACHINE MUST BE SHIMMED PROPERLY! to do this, check all four mounting locations and make sure there is equal pressure between the mounting pads of the machine and the floor. If there is difference, SHIMMING MUST BE DONE! shimming might be as as light as 22 GA. or a 24 GA. SHIM, BUT IT IS NECESSARY!!!



# FORSBERGS INC. SEPARATION SYSTEMS

NOTE: ANY ALTERATIONS TO **THIS** MACHINE WITHOUT **FACTORY** APPROVAL VOIDS **WARRANTY!** 

#### FORSBERG PRECISION CLASSIFIER

Engineered and constructed in the traditional FORSBERG manner, providing design strength and machine quality at the lowest possible price. Listed below are a few of the important advantages over others currently being marketed.

- 1. 14 gauge all steel construction
- 2. Air chamber observation windows
- 3. No jack shafts
- 4. Uniform air distribution
- 5. Pre-lubricated bushings (2)
- 6. No screens to clean

Input capacity up to 167 bu/hr on wheat. (Capacities will vary depending upon product.)

FOR INFORMATION ON THIS AND OTHER FORSBERG PRODUCTS, PLEASE WRITE OR CALL:

FORSBERGS, INC.

P.O. Box 510 - Airport Road Thief River Falls, MN 56701

Telephone: (218) 681-1927

Cable: Forsep - TWX: 910-561-2634 FORSBERGS, THRF

#### FORSBERG PRECISION CLASSIFIER

#### INSTALLATION

No special foundation is required. Any floor or stand that will structurally support the machine is adequate. The machine should be leveled for best operation and drive belts, bearings, bolts, etc., should be inspected before starting. The machine should be positioned to allow access to the feed and air controls, for cleaning and maintenance. Machine installation should permit unobstructive air intake to the fan unit. Any alteration to the machine, unless approved by Forsbergs, Inc., may void the machine warranty.

#### OPERATION

Guards are provided for all moving parts and must be in place before starting the machine. Sound levels may exceed 85 decibels, requiring ear protection.

The principle of product separation is based on differential of lifting velocity. Lifting velocity is dependent on the shape, surface texture and density which affects the aerodynamic behavior of the product in the air stream.

The portion of the product which is aerodynamically heavy will fall in the air stream and be discharged out the discharge density, airlock, spout. The lighter product is carried with the air stream to the settling chamber where most of this product is discharged through the light product discharge spout.

#### FEED

Any feed system which spreads the feed evenly to within a few inches of each side of the feed hopper, to utilize the entire cleaning area, is recommended. A continued type of feed system, using either a vibrator, flat belt or roll feed is preferred. The feed rate has a definite effect on the machines cleaning ability.

#### REPLACEMENT PARTS

The following parts are available from this factory: fan unit and individual fan parts, including fan wheel and fan shaft. Please give part name and machine serial number when ordering. If body damage occurs, consult Forsbergs, Inc.

#### MAINTENANCE

The Precision Classifier requires periodic inspection and cleaning. The fan wheel is of primary concern. It is also possible to have a piece of product become lodged in any chute area, causing improper operation.

The bushings are sealed and require no lubrication.

All bolts and belts should be inspected and adjusted as necessary, prior to operation.

#### ADJUSTMENTS

The machine has only two adjustments, one for control of airflow and a feed control. The airflow rate can be adjusted by a simple slide lever with lock nut. The feed control lever operates a slide gate within the feed hopper. The proper airflow and feed rate will be determined by the operator, optimizing a balance of desired separation by observing the discharge of the heavy vs light particles. Adjustments must be made when the product input and air density changes.

CAUTION: Consult Forsbergs, Inc., before increasing fan speed as it may overdraw motor or damage fan wheel at excessive RPM.

#### VENTING THE SETTLING CHAMBER

The settling chamber will not separate dust size particles from the airstream. If such material is found in your product, venting may be required depending on volume, chemical composition and/or air pollution regulations.

Venting to the atmosphere or to the outside of the building are the most common methods. When venting, do not reduce the area of the settling chamber or top ring. Also, avoid use of small rain caps and elbows. The discharge should be directed away from prevailing winds.

## INSTRUCTIONS FOR ORDERING

PLEASE BE SURE TO GIVE THE FOLLOWING INFORMATION WHEN ORDERING-TYPE OF MACHINE, MODEL NUMBER AND SERIAL NUMBER.

THE FORSBERG LINE

TYPE

MODEL

MODEL

MODEL

FORSBERG'S INC.

THIEF RIVER FALLS, MINNESOTA, U.S.A.

TYPE

MACHINE

TYPE

MACHINE

SER. NO.

FORSBERG'S INC.

THIEF RIVER FALLS, MINNESOTA, U.S.A.

SERIAL NO.

BE SURE TO GIVE PART NO., ITEM NO., & PLATE NO. THIS INFORMATION IS VERY IMPORTANT TO INSURE PROMPT SERVICE.

## SEALMASTER Ball Bearings

#### INSTALLATION INSTRUCTIONS

SEALMASTER Ball Bearing extended inner race, zone hardened rings are ground for a sliding fit over the shaft. They are easily and securely locked to the shaft by means of two self-locking, cup point, socked head set screws, or with two slotted head half dog point set acrews and a locking wire. This positive race-sto-shaft lock is estained when the hardened cup point set acrews are securely tightened through the soft, extended ends of the inner race.

#### MOUNTING INSTRUCTIONS

- Use clean shelting free of nicks and burrs. If old shelting is used, locate SEALMASTER bearing on an unused section.
- 2. Make certain set screws are clear of bore.
- J. Slide SEALMASTER into position on shalt never hammer the ends of the inner race, as they are soft and may be damaged. If necessary to apply force, use a brass bar or pipe against the inner race only to drift hearing inte place. Never strike housing as it may damage the bearing.
- 4. Bolt housing to support.
- 5. Rotate shaft to make certain it turns freely.
- 6. Tighten self-locking, cupped point set acrews securely onto the sheft. If a torque wrench is used, see Table II.
- 7. Do not spot drill shaft through set screw holes when using half dog point set screws. Due to zone herdening, the threads are in their original metal-lurgically soft state and may be injured by the drill.
- 3. When using half dog point set screws, position bearing, center punch through set screw holes to mark positions. Back off bearing and spot-drill hole deep enough to receive the full length of helf dog points. Replace bearing, bolt in position, lighten set screws and place wires in position.

TABLE II

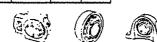
TORQUE FOR TIGHTEHING SET SCREWS				
SET	HEX. SIZE	TOR	COM.	
DIAM	ACROSS FLATS	INCH LBS.	FOOT LBS.	
1/4	1/8	66	5.5	
5/14	5/32	126	10.5	
3/8	3/16	228	19.0	
7/16	7/32	348	29.0	
1/2	1/4	504	42.0	
5/8	5/16	1104	72.0	

SEAL MASTER' BEARINGS MORSE CHAIN DIVISION BORG-WARNER CORPORATION

Aurora, Illinois 60507

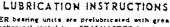
**Factory Representatives** & Dealers In All Principal Cities





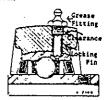






All SEALMASTER bearing units are prelubricated with grease chosen for its chemical and mechanical stability. SEALMASTER bearings are designed for lubrication anth grease. Units furnished with a grease flitting should be periodically relubricated. The relubrication interval depends on bearing operating conditions: speed, temperature, and environment. (See Conditions in Table | below for typical relubrication schedules.)

Figure 1 shows the locking pin and dimple feature of the SEALMASTER relubricable units. This feature provides positive mens for relubrication while allowing several degrees of misslignment. If the grease fitting supplied with the unit is replaced, make certain the same length of thread engagement is main-tained. Adaptor fittings are available for this purpose and also for extended line systems.



#### RELUBRICATION

- 1. Add grease slowly with shaft rotating until a slight bead forms at the seals.
- Relubrication is generally accompanied by a slight rise in operating temperature until the bearing chamber is stabilized with the proper amount
- If necessary to relubricate while bearing is stationary, refer to SEAL-MASTER catalog for maximum grease capacity for the size bearing.
- 4. For abnormal operating conditions of high temperature or abnormal environments, consult SEALMASTER Engineers.

TABLE

	CONDITIONS				
SPEED	ATURE	CLEANU. NESS	GREASING INTERVAL		
500 RPM 1000 RPM 1500 RPM Any Speed Any Speed Any Speed	Up to 120° F. Up to 150° F. Up to 210° F. Over 210° F. Up to 150° F. Over 150° F. Any Temp. Any Temp.	Clean Dirty Dirty	8 to 12 Months 2 to 6 Months 2 to 6 Months 2 Weeks to 2 Months Weekly 1 Week to 1 Month Daily to 2 Weeks Daily to 2 Weeks Daily to 2 Weeks Daily to 2 Weeks		

For normal operating conditions, relubricate with a grease conforming to NLGI No. 2 pentration, free from chemical impurities, such as dust, rust, metal particles or obrasives.

# Bearing Units

#### MOUNTING AND LUBRICATION INSTRUCTIONS

BROWNING Bearing Unit performance is dependent on proper installation and lubrication where required. Failure to follow instructions may result in poor performance and short bearing life.

#### MOUNTING INSTRUCTIONS

- For best results use turned and ground shafting, free of rough spots and burrs. If old shafting is used, locate bearing on a smooth unworn section.
- 2. Clean shaft and bearing bore. Coat shaft with a small amount of oil.

#### A — Eccentric Collar Bearings

- 3a. Slide bearing unit and collar on the shaft. (If projecting side of bearing is to be mounted toward the machine, put the locking collar on first.) Collar should be opposing thrust load. DO NOT HAMMER THE ENDS OF THE INNER RACE. If necessary to apply force in mounting, use a soft metal bar or pipe against the inner race only. Tap the bearing unit into place.
- 4a. Fit the eccentric locking collar on the projecting inner race. TURN IT IN THE DIRECTION OF SHAFT ROTATION. Tighten the collar securely, using a spanner or setscrew wrench. Tighten the setscrew against shaft.

#### B - Setscrew Lock Bearings

3b. Slide the bearing unit on the shaft. DO NOT HAMMER THE ENDS OF THE INNER RACE. If necessary to apply some force in mounting, use a soft metal bar or pipe against the inner race only. Tap the bearing unit into place. Tighten the two setscrews securely to lock bearing to shaft.

#### LUBRICATION INSTRUCTIONS

All BROWNING Bearing Units are factory lubricated and ready for use (except for unsually severe applications). Lubricated-for-Life Bearings have no grease fitting and require no additional lubrication while in use. Re-lube Bearing Housings have a lubrication fitting mounted on the housing and should be lubricated when used in wet or dirty applications. Experience will determine the best interval for each specific application, but the following table provides a guide.

#### Lubrication Guide

Conditions	Grease Intervals	
Dusty	1 - 4 weeks	
Moisture	Daily 1-week	

When lubricating bearings, add grease slowly while shaft is rotating. When grease begins to come out of the seals, the bearing will contain the correct amount of lubricant. For general use, relubricate with one of the following greases or equivalent:

Alvania #2

Texaco Multifak #2 Sun Prestige #41

Humble Lidok #2

Sinclair Litholine-Multi-Purpose

Bearings should not run in steady operation over 200° F. and should not exceed 225° for intermittent operation.

For unusual or severe applications write Browning Mfg. Division Emerson Electric., Maysville, Kentucky 41056.

#### REPLACEMENT BEARINGS IN BEARING UNITS

All BROWNING Bearing Units are fitted with self-aligning bearings which can be replaced in case of wear or damage to the original bearing. To replace bearing:

- 1. Loosen Setscrew in locking collar or bearing.
- Loosen Section in technic contar of bearing. Loosen Locking Collar, if any, from shaft by turning in direction opposite to shaft rotation.
- Remove Unit from shaft.

- Remove Collar, if any, from inner race of Bearing Unit. Rotate Bearing 90° in the housing.
  Withdraw along the slots in the sides of the housing.
  Inspect housing for wear or damage and replace if necessary.
- 8. Clean inside of housing with lint-free cloth or paper towel.
- Insert Bearing in the slots.
   Rotate Bearing 90° in the housing to operating position.
   the fit between the Housing and Bearing is loose, the Housing should be replaced. Replace Collar, if any.

- Remount Unit on shaft.

  Tighten Locking Collar, if any, on shaft by turning in direction of shaft rotation.
- 14. Tighten Setscrew in locking collar or bearing.



BROWNING MANUFACTURING DIVISION EMERSON ELECTRIC CO. MAYSVILLE, KENTUCKY 41056 Form No. 4773-D

Printed in U.S.A.

#### INSTRUCTION MANUAL FOR

#### Dodge SC, SCB and SCM Ball Bearings and Dodge Ball Bearing Fan and Blower Pillow Blocks

IMPORTANT NOTICE: Bearing performance depends on proper installation, lubrication and maintenance. Therefore, all instructions in the manual must be carefully followed.

#### INSTALLATION INSTRUCTIONS

- 1. Clean shaft and bore of bearing.
- Slip bearing into position. In the case of screw conveyor hanger bearings, mount so flow of material is against locking collar.
- If the bearing has a flanged collar, push it against end of race while tightening set screws to prevent possible collar wobble.
- 4. For bearings with collars, tighten set screws to recommended torque given in table below; or using a piece of pipe on wrench, tighten until screw stops turning and wrench starts to spring. CAUTION: For bearings without collars do not exceed recommended torque.

Set Screw Diam.	Hex. Size Across Flurs	Recommended Wrench Torque A (Pound-Inches)	A When a losque wrench is not available it is possible to approximate these torque values by using an ordinary wrench and piece of
Ho. 10 1/4 1/4 1/4 1/4 1/4	**************************************	30 70 140 220 350	pipe on wrench. For example, to obtain 140 pound-inches wrench torque, pull 20 pounds at 7" distance from center of pull to center of screw, or pull 10 pounds at a 14" distance, etc.

#### LUBRICATION INSTRUCTIONS

Storage or Special Shutdown — If exposed to wet or dusty conditions or to corrosive vapors, extra protection is necessary: Add grease until it shows at the seals; rotate the bearing to distribute grease; cover the bearing. After storage or idle period, add a little fresh grease before running.

High Speed Operation — In the higher speed ranges too much grease will cause over-heating. The amount of grease that the bearing will take for a particular high speed application can only be determined by experience — see "Operating Temperature" below. If excess grease in the bearing causes over-heating, it will be necessary to remove grease fitting to permit excess grease to escape. The bearing has been greased at the factory and is ready to run. When establishing a relubrication schedule, note that a small amount of grease at frequent intervals is preferable to a large amount at infrequent intervals. Operation in Presence of Bust, Water or Corrosive Vapors — Under these conditions the bearing should contain as much grease as speed will permit since

#### (Continued from Reverse Side)

a full bearing with consequent slight leakage is the best protection against entrance of foreign material. In the higher speed ranges too much grease will cause over heating — see "High Speed Operation" above. In the lower speed ranges it is advisable to add extra grease to a new bearing before putting into operation. Bearings should be greased as often as necessary Idaily if required) to maintain a slight leakage at the seals.

Normal Operation — This bearing has been greased at the factory and is ready to run. The following table is a general guide for relubrication. However, certain conditions may require a change of lubricating periods as dictated by experience. See "High Speed Operation" and "Operation in Presence of Dust, Water or Corrosive Vapors" above.

Operating Temperature — Abnormal bearing temperature may indicate faulty lubrication. Normal temperature may range from "cool to warm to the touch" up to a point "too hot to touch for more than few seconds", depending on bearing size and speed, and surrounding conditions. Unusually high temperature accompanied by excessive leakage of grease indicates too much grease. High temperature with no grease showing at the seals, particularly if the bearing seems noisy, usually indicates too little grease. Normal temperature and a slight showing of grease at the seals indicate proper lubrication.

Kind of Grease — Many ordinary cup greases will disintegrate at speeds far below those at which Dodge bearings will operate successfully if proper grease is used. Dodge bearings have been lubricated at the factory with No. 2 consistency lithium base grease which is suitable for normal operating conditions. Relubricate with lithium base grease or a grease which is compatible with original lubricant and suitable for ball bearing service. In unusual or doubtful cases the recommendation of a reputable grease manufacturer should be secured.

Special Operating Conditions — Refer acid, chemical, extreme or other spe-

Special Operating Conditions — Refer acid, chemical, extreme or other special operating conditions to the Dodge Manufacturing Corporation, Mishawaka, Indiana.

Lubrication Guide
Read Preceding Paragraphs Before Establishing Lubrication Schedule.

Neurs			Suggested	Lubricati	on Period	in Weeks		
Run per Day	1 10 250 RPM	251 1e 500 RPM	501 1+ 750 27M	751 ta 1000 RPM	1001 10 1500 RPM	1501 1+ 2000 RPM	2001 10 2500 RPM	2501 10 3000 RPM
1	12	12	10	7	5	4	1	2
14	12	7	5	4	2	2	1	ī
24	10	5	3	2	1	1	1	1

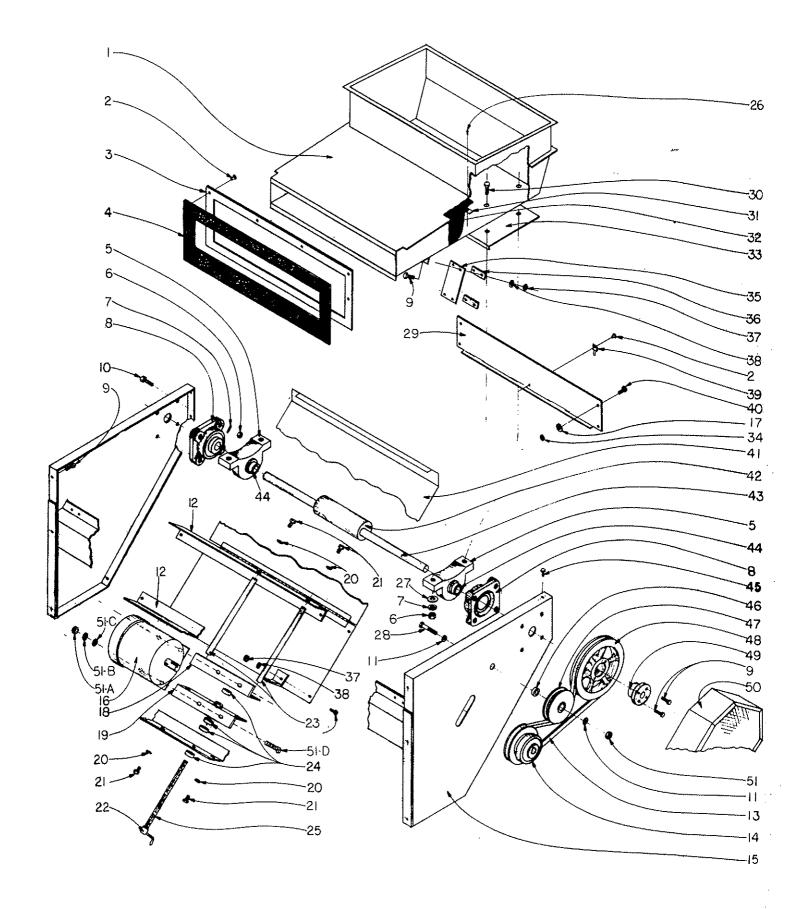
## DODGE MANUFACTURING CORPORATION DIVISION OF RELIANCE ELECTRIC CO.

Mishawaka, Indiana

Printed in U.S.A.

February, 1968 Issue of 499551

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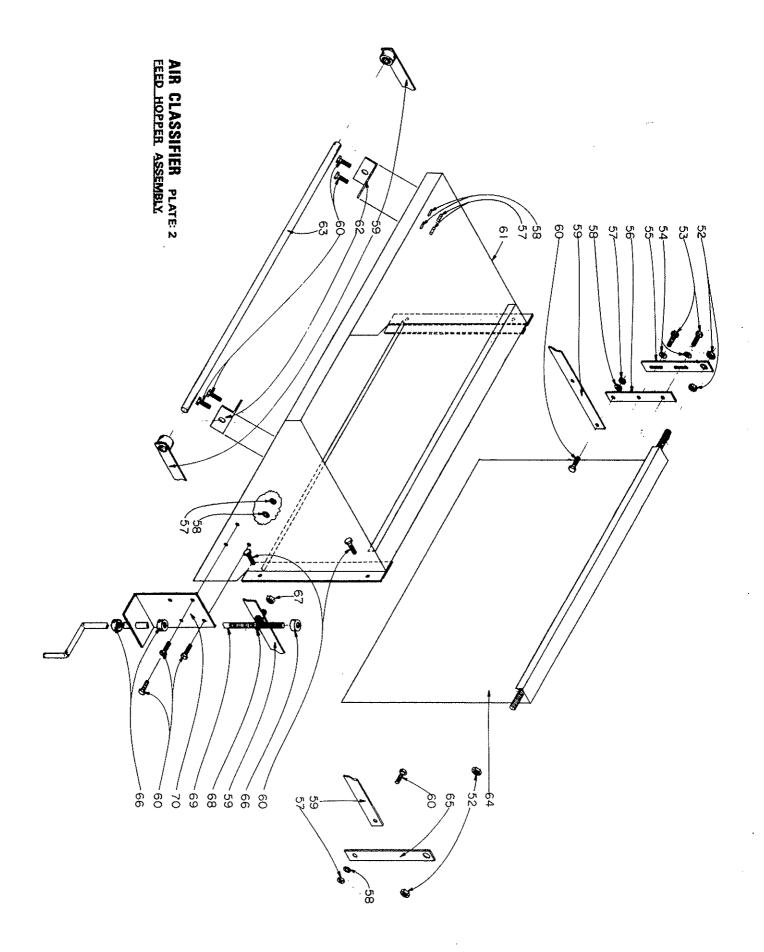


AIR CLASSIFIER PLATE: 1 PAN FEEDER ASSEMBLY.

Plate 1 - Pan Feeder Assembly

ITEM NO.	PART NO.	OUANTITY	DESCRIPTION
1	119-110-A	1	PAN
2	12-139-P68	10	RIVET, POP
2 3	119-110-16	1	FLANGE, C.R.S.
<u> </u>	119-110-15	1	GASKET, RUBBER
4 5 6	12-104-19	1 2	BEARING, BLOCK
	12-104-13 12-120-6C	ρ	NUT, HEX
7	12-120-6C 12-114-6R	8 8 2	
/		ວ ວ	WASHER, LOCK
8	12-335-13		BEARING, FLANGED
9	12-123-3	20	BOLT
10	12-123-56	8	BOLT
11	12-122-10	2	WASHER, FLAT
12	119-110-18	2 2 1	IRON, ANGLE
13	12-126-A		BELT
14	12-244-4-10	1	DRIVE, PULLEY
15	119-110-В	1	DRIVE, FRAME
16	12-331-1/2-1725-56	1	MOTOR
17	12-114-010R	4	WASHER, LOCK
18	119-110-19	1	IRON, ANGLE
19	119-110-20	1	IRON, ANGLE
20	12-114-5R	4	WASHER, LOCK
21	12-123-28	4	BOLT
22	12-069-2		CRANK
23	119-110-24	2	SHAFT
24	12-125-08	1 2 4	COLLAR, SET
25	119-110-27	1	ROD, THREADED
26	12-139-P48	1 5	RIVET, POP
27	12-122-6	4	WASHER, FLAT
28	12-123-149	1	BOLT
29	119-110-11	1	PANEL, BACK
30	12-123-57	4	BOLT
31	119-110-8	1	IRON, FLAT
32	119-110-7	1	NEOPRENE
33	119-110-2	1	PLATE, REINF
34	12-120-3C	4	NUT, HEX
35	119-110-10	2	SPRING, FIBER
36	119-110-9	4	IRON, FLAT
37	12-120-4C	8	NUT, HEX
38	12-114-4R	8	WASHER, LOCK
39	12-127-S	ĺ	CLIP, LUDWIG
40	12-123-187	4	BOLT
41	119-110-A	i	DRIVE, PANEL
42	119-110-28	ī	ECCENTRIC
43	119-110-26	ī	SHAFT
44	12-246-002M	2	ECCENTRIC
45	12-393	4	TAP, SCREW
46	12-125-10	i	COLLAR, SET
47	119-116	ī	PULLEY, IDLER
48	12-225-69H	ī	PULLEY, DRIVEN
49	12-225-H13/16	ì	BUSHING
50	119-110-C	1	GUARD, BELT
51	12-110-10C	1	NUT, HEX
51-A	12-120-6C	4	NUT, HEX
51-B	12-114-5R	4	LOCK, WASHER
51-C	12-122-4	4	FLAT, WASER
51-D	12-123-5	4	BOLT

WHEN ORDERING PARTS, SERIAL NUMBER OF MACHINE MUST BE INCLUDED

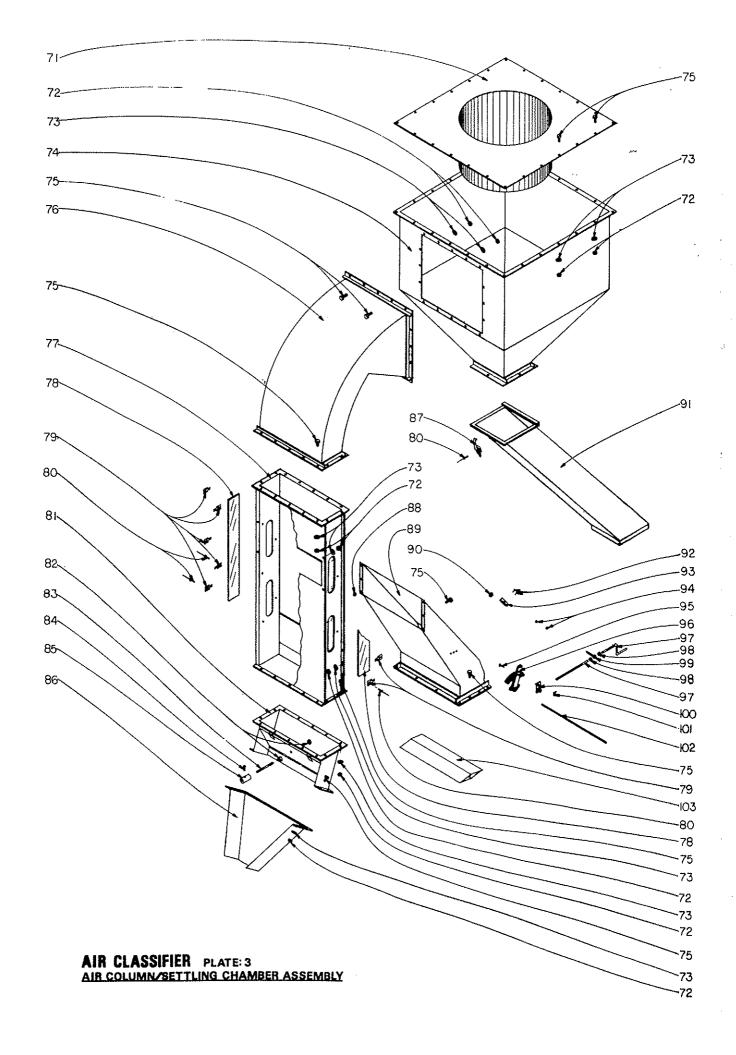


#### FORSBERG AIR CLASSIFIER

#### Feed Hopper Assembly - Plate 2

ITEM NO	PART NO.	<u>OUANTITY</u>	<u>DESCRIPTION</u>
52	12-118-6C	4	NUT
53	12-123-1	2	BOLT
54	12-122-4	2	WASHER, FLAT
55	119-107-11	1	LINK, ADJUSTMENT
56	119-107-09	1	LINK, CONNECTOR
57	12-120-4C	9	NUT, HEX
58	12-114-4R	9	WASHER, LOCK
59	119-10-02	2	CONTROL, HOPPER
60	12-123-3	13	BOLT
61	119-107-01	1	HOPPER, FEED
62	119-107-08	2	CONTROL, BRACKET
63	119-107-06	1	SHAFT
64	119-107-03	1.	FD, RESTRICTOR, PANEL
65	119-107-110	1	LINK-CTRL-SIDE
66	12-125-6	3	COLLAR, SET
67	12-118-4C	1	NUT, LOCK
68	119-107-07	1	BOLT, NUT, WLDMT.
69	119-107-13	1	CRANK
70	119-107-14	1	CRANK, BRACKET

FORSBERGS, INC.
P.O. Box 510 - Airport Road
Thief River Falls, MN 56701
PHONE: 218 - 681-1927
Toll Free (Cont. U.S.) 1-800-654-1927
FAX: 218 - 681-2037



#### FORSBERG AIR CLASSIFIER

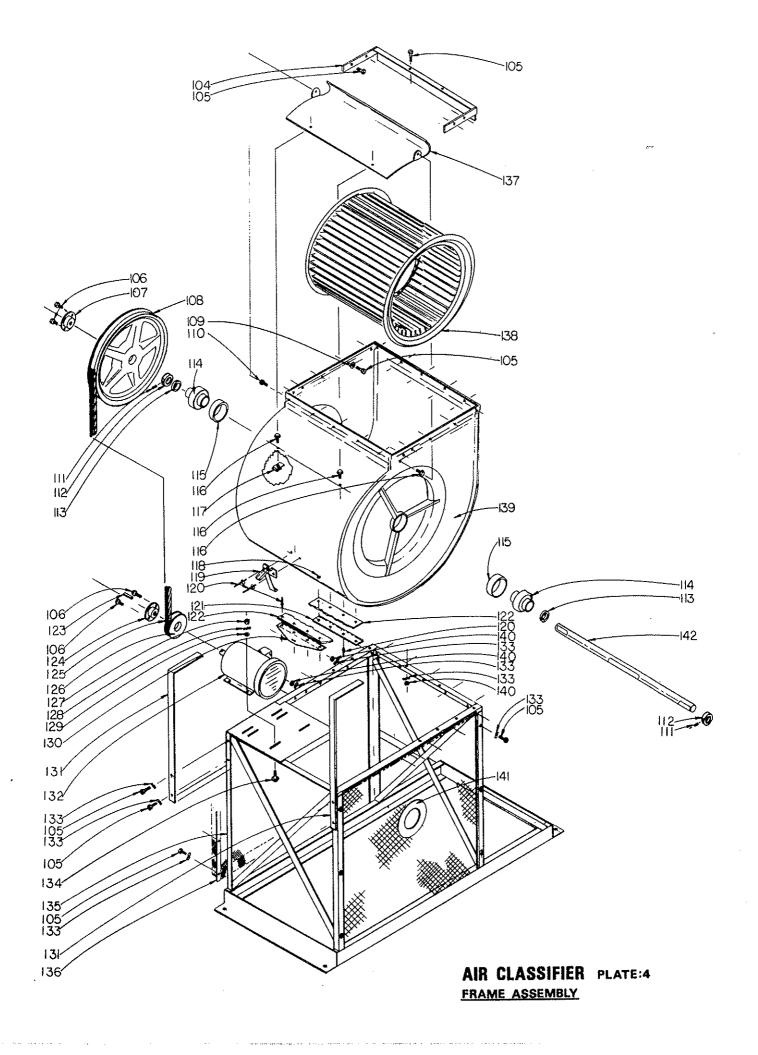
Air Column/Settling Chamber Assembly - Plate 3

ITEM NO.	PART NO.	<u>OUANTITY</u>	DESCRIPTION
71	119-108-01	1	PANEL, TOP
72	12-120-4C	87	NUT, HEX
73	12-114-4R	87	WASHER,LOCK
74	119-108-02	1	DUST, COLLECTOR
75	12-123-3	87	BOLT
76	119-108-03	1	CHAMBER, AIR
77	119-106-01	1	TUBE, AIR
78	119-106-07	2	PLEXIGLASS
79	12-127-S	10	LUDWIG, CLIP
80	12-139-P68	14	RIVET, POP
81	119-104-01	1	SPOUT, DISCH.
82	12-120-5C	2	NUT, HEX
83	119-102-08	1	WEIGHT, ROD
84	12-112-4	1	SCREW, THUMB
85	119-102-07	1 1	WEIGHT
86	119-103-01	1	TROUGH, DISCH.
87	12-214-1	1	CLAMP, BASSICK
88	12-125-8	1	COLLAR, SET
89	119-105-01	1	AIR, COLUMN
90	12-118-5C	1	NUT, LOCK
91	119-118	1	CULL, DISCH.
92	12-393	1 2	SCREW, TAP
93	119-105	$\overline{1}$	IRON, ANGLE
94	12-122-5	1 2	WASHER, FLAT
95	12-195-04	$\overline{1}$	BOLT
96	12-195	<u>1</u>	CONTROL, QUAD.
97	119-105	ī	HANDLE, CRANK
98	12-125-06	2	COLLAR, SET
99	119-105	ī	PIVOT, CRANK
100	119-105	ī	CRANK, BRACKET
101	12-182-4D-C	1	NUT, WING
102	119-105-02	1	SHAFT, AIR-GATE
103	119-105-02	1	GATE, AIR
TOO	TT3-T03-03	<u></u>	QUID'NIK

FORSBERGS, INC.
P.O. Box 510 - Airport Road
Thief River Falls, MN 56701
PHONE: 218 - 681-1927

PHONE: 218 - 681-1927
Toll Free (Cont. U.S.) 1-800-654-1927

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#### FORSBERG AIR CLASSIFIER

Frame Assembly - Plate 4

ITEM NO.	PART NO.	<u>QUANTITY</u>	DESCRIPITION
104	119-101-13	1	FAN, FILLER
105	12-123-3	42	BOLT
106	12-123-5	4	BOLT
107	12-109-16H	1	FAN, BUSHING
108	12-107-72	1	PULLEY, DRIVEN
109 110	12-122-4 12-393	20	FLAT, WASHER
111	12-393	2 2	TAP, SCREW
112	12-390	2	SET, SCREW
113		2 2 2 2	THRUST, COLLAR
114	12-391 12-392	2	THRUST, WASHER
115	12-392	4	SLEEVE, BEARING
116	12-201-7	4	BRG., ISOLATER
117	12-174-04-14	4	SCREW U-NUT
118	12-239-05	4	BACKING, WASHER
119	12-235-05 12-215-HR1	1	BASSICK, CLAMP
120	12-139-P66	10	RIVET
121	119-101	1	LATCH, PLATE
122	119-101	1	RUBBER, DOOR
123	12-395	1	KEY
124	12-109-10H	1	MOTOR, BUSHING
125	12-126-5L48	î	BELT
126	12-107-34	ī	MOTOR, PULLEY
127	12-120-5C	4	NUT, HEX
128	12-114-5R	4	LOCK, WASHER
129	12-122-4	4	FLAT, WASHER
130	119-101	i	LATCH, HANDLE
131	119-101-14	2	FLAT, IRON
	331-1/2-1725-145T	ī	MOTOR
133	12-114-4R	2	FLAT, IRON
134	12-151-4-5	4	CARRIAGE, BOLT
135	119-101-01	i	FRAME
136	119-104	ī	MOTOR, GUARD
137	12-281-10	ī	PLATE, AIR CTRL.
138	12-281-2	$\bar{1}$	WHEEL, FAN
139	12-281-1	1	HOUSING
140	12-120-4C	36	NUT, HEX
141	119-104	ĭ	AIR, GUARD
142	119-114	1	SHAFT

FORSBERGS, INC.
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Thief River Falls, MN 56701
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#### **DAMAGE CLAIMS AND WARRANTY**

#### A. Damage Claims

- 1. Thoroughly examine the enclosure as soon as it is received. If damaged, write on the face of the freight bill a complete and detailed description of the damage. Have the carrier's agent sign the description.
- 2. Immediately notify the delivering carrier of the damage or loss. This notification may be given either in person or by telephone. Written confirmation must be mailed within 48 hours. Railroads and motor carriers are understandably reluctant to make adjustments for damaged merchandise unless inspected and reported promptly.
- 3. Risk of loss of, or damage to merchandise remains with the buyer. It is the buyer's responsibility to file a claim with the carrier involved.
- 4. Immediately advise your FORSBERG representative, distributor, or the factory so that we may assist you.

#### **B.** Warranty and Conditions

- 1. WARRANTY. We Warrant that this product will be free from defects in material and workmanship for a period of one year from the date of shipment thereof or the product's total rated life, whichever first occurs. Within the warranty period we shall repair or replace such products which are returned to us with shipping charges prepaid and which are determined by us to be defective. This warranty will not apply to any product which has been subject to misuse, negligence, or accident; or misapplied or modified or repaired by unauthorized persons; or improperly installed.
- 2. INSPECTION. Buyer shall inspect the product promptly after receipt and shall notify us at our office in writing of any claims, including claims of breach of warranty, within thirty days after the buyer discovers or should have discovered the facts upon which the claim is based. Failure of the buyer to give written notice of a claim within the time period shall be deemed to be a waiver of such claim.
- 3. DISCLAIMER. The provisions of paragraph 1 are our sole obligation and exclude all other remedies or warranties, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PURPOSE, whether or not purposes or specifications are described herein. We further disclaim any responsibility whatsoever to the customer or to any person for injury to person or damage to or loss of property or value caused by any product which has been subject to misuse, negligence, or accident; or misapplied; or modified or repaired by unauthorized persons; or improperly installed.
- 4. LIMITATION OF LIABILITY. Under no circumstances shall the company be liable for any incidental, consequential or special damages, losses, or expenses, arising from the contract for this product, or in connection with the use of, or inability to use, our product for any purpose whatsoever.

FORSBERGS, INC.
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THIEF RIVER FALLS, MN 56701