

REPAIR PARTS CATALOG AND OPERATOR'S MANUAL

FOR

Brillion

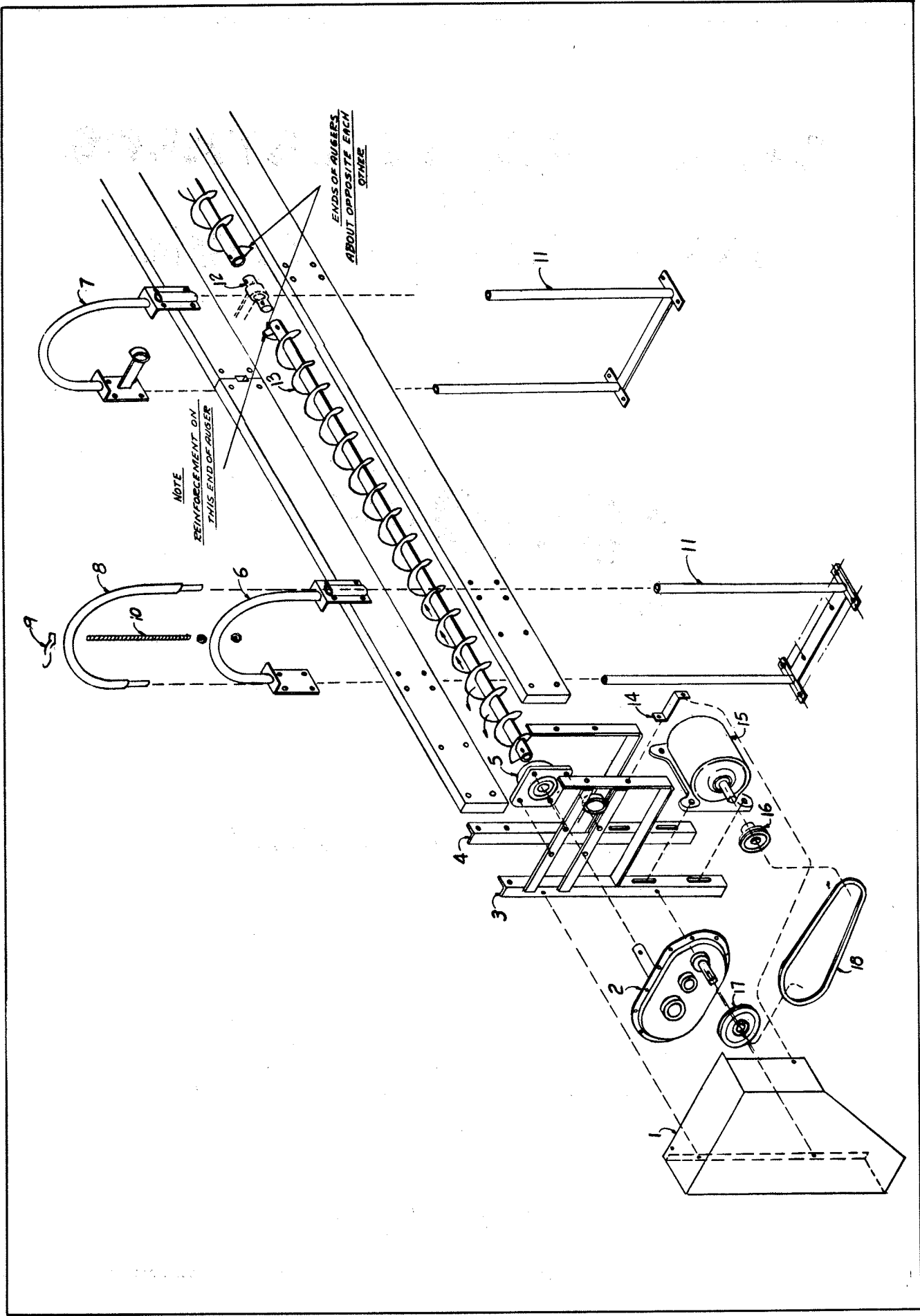
MODEL D

BUNK FEEDER

EFFECTIVE JANUARY 1, 1959

ALL PARTS NOT LISTED ARE STANDARD HARDWARE

BRILLION IRON WORKS, INC.
BRILLION, WISCONSIN



MODEL "D" BUNK FEEDER			
Index No.	Part No.	Part Name	Weight
1	8C-208	Belt Guard	8.5
2	8C-201	Gear Box	37.0
3	8C-203	Left Hand Motor Frame	12.5
4	8C-202	Right Hand Motor Frame	8.5
5	8C-214	Flange Bearing 1-1/2"	4.8
6	8C-204	Drive Support Frame	10.8
7	8C-205	Auger Support Frame	12.0
8	8C-207	Adjustment Bar	6.5
9	8C-212	Adjusting Handle	0.3
10	8C-211	Adjusting Screw	0.8
11	8C-206	Support Stand	10.3
12	8C-210	Coupling Shaft	4.0
13	8C-209	Auger	69.5
14	8C-213	Bracket for Guard	0.6
15		Motor	
16	8C-216	Sheave 1"	2.0
17	8C-215	Sheave 1"	2.5
18	8C-217	Belt	0.5
*	8C-218	Key 1/4" Sq. x 1-1/2" Long	

INSTALLING THE MODEL "D" BUNK FEEDER

1. Place a board across the side boards of your bunk near the end where the motor will be mounted, to give a working height. Now place one auger (8C-209) on this board with an overhang of about one foot past the end of the bunk. Be sure that the flighting on the auger will move the material outward when rotated. (Counter-clockwise at the motor end.) The reinforcement on one end of auger flighting to be on the discharge end.
2. Place another board across the sides of the feed bunk to support the outer end of auger and slip a coupling shaft (8C-206) in the outer end of auger bolting into place. Now place one of the bearing assemblies (8C-205) with support stand (8C-206) over this shaft, making sure that the bearing support is on the rear side of the auger. To determine this, stand at the drive end of the feeder looking down to the far end. The left side is rear. Continue the installation the same way.
3. The next auger may now be put into place, the flighting on each end of the adjoining augers spaced a little less than one-half turn. Continue until all of the augers are set up in their bearing.

4. Stretch a line, or string, the entire length of the bunk and center the stands (8C-206) exactly in the middle of the bunk. Do not bolt the stands to the bunk floor. You are now ready to install the auger side boards. The first rear board should be 2" x 10" and cut 10'- 1-3/4" long and notched as shown, which extends to the center of the first bearing support plate. The first front board 2" x 10" also could be cut 10' 1-3/4", but a 20'- 1-3/4" long would be preferred for stronger auger support. The rest of the 2" x 10" can be cut 20 ft. or 10 ft. long correspondingly, the last ones which should be cut to fit.
5. The drive support frame (8C-204) should be assembled with the adjustment bar (8C-207), adjustment screw and adjustment handle (8C-212), and placed onto the support stand (8C-206) as near the end of the bunk as practical. If this stand is directly under the silo chute, where it would make it hard to climb in and out of the chute, you may move it no more than three feet from the drive end of the side boards. Bolt to the side boards and remove your cross-member support inserted in Step 1.
6. Bolt the left hand motor frame (8C-203) to the side board making sure that this frame is square with each side board and perfectly level. Measure the distance between the mounting holes of the motor and place the right hand motor mount (8C-202) the same distance in on the side boards, bolting securely.
7. Bolt the flange bearing (8C-214) to the auger side of the left hand motor mount, and place the shaft of the gear box (8C-201) all the way through the flange bearing (8C-214) and lock securely with the locking collar and attach auger (8C-209).
8. After mounting the small grooved pulley (8C-216) on the motor shaft, bolt the motor in place on the motor mounts. Slip pulley (8C-215) on gear box, align the two pulleys and tighten down and install the drive belt (8C-217). The belt adjustment is made by moving the motor either up or down in the slots on the motor mounts.
9. Raise the string that you used to center the feeder, and align the height of all of the augers using the adjustment handles. Now lower the string back to the bunk floor, re-checking each support stand to be sure they are even and centered, then bolt them down to the bunk floor.
10. Wire the motor, using the proper motor starter and overload protection, with the proper size wire for the load rating of the motor, placing the on-off switch in a handy location.
11. Fill gear housing to proper level with SAE 90 oil for summer and SAE 80 for winter.
12. After a test run-in operation, the Guard (8C-208) is placed over the drive mechanism.