

OPERATOR'S MANUAL REPAIR PARTS CATALOG

FOR

Brillion

MODEL E

BUNK FEEDER

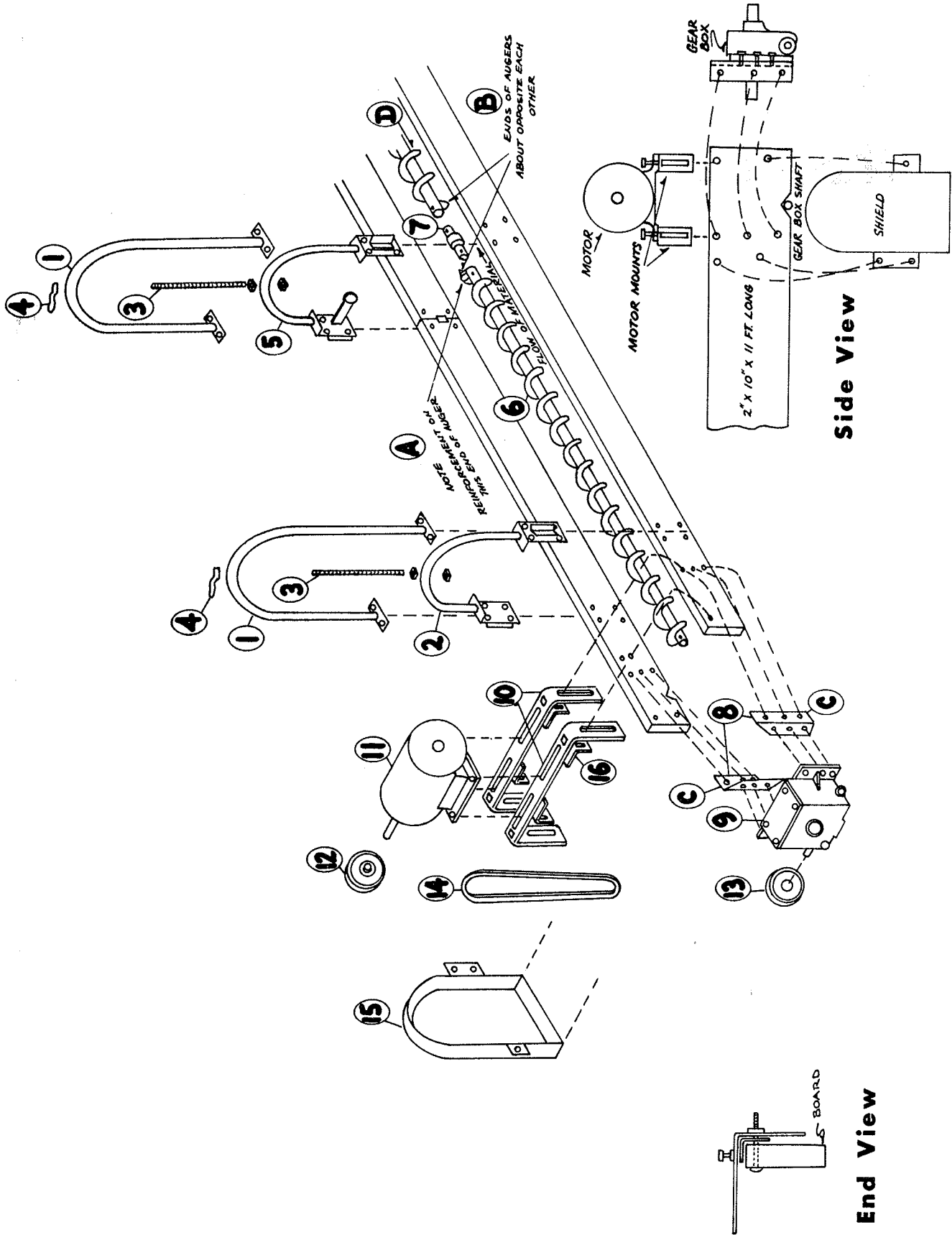
EFFECTIVE OCTOBER 4, 1961

ALL PARTS NOT LISTED ARE STANDARD HARDWARE

BRILLION IRON WORKS, INC.
BRILLION, WISCONSIN

8C-711

2/6/63



2/6/63

BFE BUNK FEEDER

INSTALLATION INSTRUCTIONS

8C-711
Step #1 - Attach drive support frame #2 to support stand #1 by threading one $\frac{1}{2}$ " nut on adjustment screw #3 about 2", insert thru hole in top of drive support frame #2. Secure by threading one $\frac{1}{2}$ " nut on end of adjustment screw #3 and tightening. Now place support stand #1 over drive support frame #2 making sure that adjustment screw #3 passes thru hole in top of support stand #1. Thread adjustment handle #4 on adjustment screw #3 about half way down.

Step #2 - Attach auger support frame #5 to support stand #1 by same method as used in attaching drive support frames. All frame-stand units can now be assembled in the above manner and placed in bunk about 10' apart.

Step #3 - Start assembling frame-stand units to augers by placing two pieces of plank across the bunk and placing auger #6 on top, making sure that end with reinforcement (check note A on illustration) is away from gear box end, or toward outer end of bunk. Insert coupling shaft #7 into end of auger #6 and secure by using one $\frac{1}{2}$ " x 3" bolt, nut and lockwasher. Next, place bearing of auger support frame #5 over end of coupling shaft #7 making sure that bearing mounting is on right hand side while facing drive end of feeder.

2-6-63
Step #4 - To install next auger #6, move outer plank approximately 10' down bunk and place end of auger without reinforcement over coupling shaft #7, secure by using one $\frac{1}{2}$ " x 3" bolt, nut and lockwasher, making sure that ends of flighting are almost opposite each other. (Check note B on illustration). Now balance of sections can be assembled by following step #4.

Step #5 - To install side planks place assembled drive support frame #2 and support stand #1 over auger #6 at drive end of unit. Next cut a 2" x 10", 11' long and notch one end to fit half way over bearing mount on auger support frame #5. Now place plank on inside of auger support frame #5 and drive support frame #2, making sure that drive support frame #2 is 18" from end of plank to center of drive support frame #2. Mark all holes and drill. Attach planks to support frames using $\frac{3}{8}$ " x $2\frac{1}{4}$ " carriage bolts and nuts.

Step #6 - To install the gear box, attach gear box mounting angles #8 to gear box #9 by using six $\frac{1}{2}$ " x $1\frac{1}{4}$ " bolts, nuts and lockwashers, making sure that the notched end of angle is up and narrow leg of angle is facing out. (Check illustration Point C)

Step #7 - To attach gear box; place between planks and insert shaft into auger. Plank over $1\frac{1}{4}$ " drive shaft will have to be notched out to let gear box up to its proper height. Secure by using one $\frac{1}{2}$ " x 3" bolt, nut and lockwasher. To attach gear box place mounting angles #8 even with top of plank, mark holes and drill. Secure by using four $\frac{1}{2}$ " x $2\frac{1}{2}$ " bolts and two $\frac{1}{2}$ " x 3" bolts with nuts and flat washers.

2-6-63

Step #8 - To attach motor mounts #10. First secure motor to motor mounts #10 using slots in top of motor mount #10 by inserting four $\frac{3}{8}$ " x $1\frac{1}{2}$ " bolts with flat washer on, thru motor mount #10 and thru motor; secure by using flat washer, lockwasher and locknut. Next, remove $\frac{1}{2}$ " nuts from top bolt of gear box attaching angle #8. Place tightening clip #16 over bolt and on top of plank. Then place motor and mounts over these two bolts and secure by replacing two flat washers, lockwashers and nuts. Now drill $\frac{1}{2}$ " hole thru plank $1-1/8$ " down from top and thru slot in second motor mount #10. Insert tightening clip underneath motor mount and secure by using two $\frac{1}{2}$ " x $2\frac{1}{2}$ " carriage bolts with flat washers under lockwasher and nut.

11/2-68

Step #9 - Install pulleys #12 and 13 on gear box #9 and motor #11 using pulley #13 with larger bore ($1\frac{1}{4}$ ") on gear box #9. Secure both pulleys with square keys and set screws, making sure pulleys are aligned perfectly.

Step #10 - Install belt #14 and tighten by turning the four $\frac{1}{2}$ " bolts in the motor mount #10 down. Make sure that the pulley #12 and 13 are kept in perfect alignment.

Step #11 - To install belt guard #15 place over belt and pulleys, keeping top of belt guard #15 about 2" above motor pulley #12. Then mark holes on plank and drill. Secure by using three $5/16$ " x 2" carriage bolts, and nuts.

Step #12 - Place Bunk Feeder as near center of bunk as possible and align by stretching a strong string (mason's line) along entire length of bunk feeder at point D. (See illustration). Now each section can be secured to the bunk making sure it is in perfect alignment. Bearings must also be in alignment up and down. This can also be checked with string.

Step #13 - Before operating bunk feeder, fill gear box #9 to the high level plug with #90 all purpose gear lube. Grease each one of the auger bearings with a good grade of gun grease. Now operate empty a few minutes, then check all bolts, making sure they are tight.

WIRING INSTRUCTIONS

The motors supplied require 230 volts for proper operation, voltage must not vary from this rating by more than 10% while machine is in operation. It is recommended that wiring specifications and installation should be obtained from a qualified electrician. In wiring it must be stressed that motors must be properly protected against overload by proper fuses or a thermal overload switch. Motors are guaranteed only by the motor manufacturer and only if the above specifications are followed.

NOTE #1

Sometimes when using a hopper it is necessary to mount the drive support frame #2 and support stand #1 on the outer end of the planks. In this case, the gear box mounting remains in the same place. One hole of the shield is secured by using the bottom bolt of the drive support frame #2 on that side. Secure by using 6 3/8" x 2-1/2" carriage bolts, nuts and lockwashers. The plank on the opposite side can be either 11' or 21', the longer plank making the stronger unit. Place plank same as first one, marking all holes, drilling and securing with 3/8" x 2-1/2" carriage bolts, nuts and lockwashers. Continue with 10' plank until all are fitted, the last pieces will have to be cut to the right length.

NOTE #2

When left hand auger flighting is used, the auger support frame #5 has to be mounted so that the bearing mount is opposite to the illustration.

2-6-63

REPAIR PARTS LIST

Index No.	Part No.	Part Name	Weight
1	8C-681	Support Stand	11.3
2	8C-680	Drive Support Frame	8.0
3	8C-211	Adjustment Screw	1.3
4	8C-212	Adjustment Handle	0.2
5	8C-683	Auger Support Frame - Side Mount.	9.3
	8C-684	Auger Support Frame - Top Mount.	10.0
6	8C-209	Auger	70.
7	8C-210	Coupling Shaft	3.5
8	9C-658	L. H. Mounting Angle	1.6
	9C-659	R. H. Mounting Angle	1.6
9	9C-657	Gearbox Assembly	37.0
10	8C-676	Motor Mount	4.0
12	8C-702	Pulley - 3/4" bore, Single Groove	2.8
	8C-215	Pulley - 1" bore, Single Groove	2.8
	8C-700	Pulley - 1" bore, Double Groove	5.4
	8C-703	Pulley - 1-1/8" bore, Single Groove	2.8
	8C-701	Pulley - 1-1/8" bore, Double Groove	5.4
13	9C-725	Pulley - 1 1/4" bore, Single Groove	2.8
	9C-730	Pulley - 1 1/4" bore, Double Groove	5.4
14	8C-699	V-Belt - B-48	.5
	8C-217	V-Belt - B-51	.5
15	8C-677	Belt Guard	5.0
16	8C-682	Tightening Clip	.2
		<u>Gearbox Parts</u>	
	1D-799	Gearbox Housing	
	1D-800	Gearbox Cover	
	1D-801	Worm Shaft	
	1D-802	Worm Gear Shaft	
	1D-803	Left Hand Worm	
	1D-804	Left Hand Worm Gear	
	1D-805	Spacer - Worm Shaft	
	1D-806	Spacer - Gear Shaft	
	1D-810	Oil Seal - 1 1/4 shaft	
	1D-811	Oil Seal - 1 1/2 shaft	
	5C-914	Bearing Cup (LM67010)	
	5C-913	Bearing Cone (LM67048)	
	1D-807	Bearing Cup (LM29710)	
	1D-808	Bearing Cone (LM29749)	
	1D-809	Bearing Cap	
	1D-812	Taper Pin (#7 x 2)	
	1D-813	Taper Pin (#7 x 2 1/2)	
	1D-814	Paper Gasket	

2-5-63

8C-711