



***Herd***

MODEL STANDARD M-96  
SEEDER OR BROADCASTER  
(3-BU. CAPACITY)

PHOTO NO.	PART NO.	NAME AND DESCRIPTION	NUMBER NEEDED
2.	RM-880	DRIVEN SHAFT ON SEEDER	1
3.	RM-881	SEED GATE WITH CONNECTING LINK	1
4.	RM-882	SEED GATE - COMPLETE	1
4A.	RM-882B	THUMBSCREW ONLY, 1/4" X 2-1/2", W/NUT, FOR SEED GAUGE	1
5.	RM-174	FAN - 5/8" BORE - 4-BLADED LAP-OVER (REPLACES RM-883FAN)	1
6.	RM-884	MITRE GEARS - 5/8" BORE - SOLD IN PAIRS ONLY	1 PR.
7.	RM-885	FAN SHAFT WITH AGITATOR	1
8.	RM-888	TWIN STAND OR LEG	1
9.	RM-889	BRACE BAR COMPLETE WITH ELEVATED CONTROL HANDLE, USED WITH TWIN STAND, ON RIGHT SIDE	1
10.	RM-890	V-BELT, 30", USED WITH TWIN STAND	1
11.	RM-913	GREASE FITTINGS - 1/4" STRAIGHT	4
12.	RM-924	BRACE ROD CLAMPS	8
13.	RM-925	SEED GATE GUIDES	2
14.	RM-930	TENSION SPRING WITH BOLT, USED ON CONTROL ARM	1
15.	RM-934	BRACE RODS - 5/16" HOLE IN END	4
16.	RM-936	BRACE RODS - 5/8" HOLE IN END	4
17.	RM-939	BRACKETS FOR HOPPER BRACES	2
18.	RM-943	LONG BRACE BAR - BACK OF HOPPER - LEFT SIDE	1
19.	RM-947	PULLEY - 2-STEP, WITH 1-5/8" SHAFT HOLE	1
20.	RM-948	DRIVE ASSEMBLY - FOR 1-3/8" P. T. O., 1-5/8" O. D.	1
21.	RM-949	PULLEY - SINGLE GROOVE - 5/8" BORE	1
22.	RM-954	BEARINGS - FOR CASTING - 5/8" X 1"	4
23.	RM-955	LOWER CONTROL HANDLE	1
24.	RM-959	COLLAR - 5/8"	1
25.	RM-981	HOPPER FOR MODEL M-96 - 12" DIAM. BASE	1
26.	RM-400	ROUND HEAD MACHINE SCREWS, 3/16" X 3/4", W/NUTS AND WASHERS	4
27.	RM-984	GREY-IRON BASE WITH BEARINGS, 12" DIAMETER	1
28.	RM-985	ADJUSTABLE SEED OPENING PLATE ON WHICH SEED GATE OPERATES	1
29.	RM-886	SOCKET SETSCREWS - 1/4" X 5/16" (USED IN MITRE GEARS AND FAN)	4
30.	RM-887	SOCKET SETSCREWS - 5/16" X 5/16" (USED IN PULLEYS)	2
31.	RM-932	SPECIAL FORD EXTENSION ADAPTER - FOR FORD, FERGUSON, FORD-FERGUSON AND OLD MODEL ALLIS-CHALMERS "C" TRACTORS, WHEN TRACTOR HAS NO STANDARDI- ZATION KIT. (TO BE USED WITH RM-948 1-3/8" DRIVE ASSEMBLY)	1
32.	RM-401	SQUARE HEAD SETSCREWS - 3/8" X 3/4"	4
33.	RM-408	ROUND HEAD MACHINE SCREWS - 3/16" X 1/2", W/NUTS AND WASHERS	3
34.	RM-402	RIVETS - 3/16" X 1"	2
35.	RM-403	HEX HEAD CAPSCREWS - 1/4" X 1/2"	2
36.	RM-404	ROUND HEAD MACHINE SCREWS - 3/16" X 3/16"	4
37.	RM-994	SPACERS USED BEHIND GEARS, FOR 5/8" SHAFT	4
38.	RM-406	LEATHER WASHER USED ON FAN SHAFT, WITH AGITATOR	1
39.	RM-407	MACHINE BOLTS - 5/16" X 1", W/NUTS AND LOCK WASHERS	4
40.	RM-879	GEAR GUARD	1
41.	RM-403B	HEX HEAD CAPSCREWS - 1/4" X 1/2", W/LOCK WASHER	2
42.	RM-989	SEEDING CHART DECAL - 7-1/2" X 13"	1
43.	RM-831	HERD SURE-FEED BROADCASTER DECAL (NEEDS MODEL NUMBER DECAL WITH IT).	1
44.	RM-429	MODEL NUMBER DECAL FOR STANDARD M-96 (USE WITH #831 DECAL)	1
45.	RM-1091	"CAUTION - SPINNING BLADES" DECAL	1
	RM-833	SMALL BOX OF PARTS IN STANDARD M-96 SEEDER CARTON. INCLUDES 1 @ RM-947, RM-948, RM-955, RM-890; 3 @ RM-407; 4 @ RM-934, RM-936, 5/16" LOCKWASHERS; 8 @ RM-924; INSTRUCTION BOOK	1

#### OPTIONAL EQUIPMENT AVAILABLE:

RM-796	LID	1
RM-797	LID SPRING W/BOLT	1
RM-982	18" HOPPER EXTENSION FOR HOPPER RM-981 (2 BUSHEL CAPACITY)	1
RM-923	BUSHING TO REDUCE 1-3/8" P. T. O. TO 1-1/8"	1
F-35	SPECIAL 15" LONG EXTENSION ADAPTER FOR FERGUSON 35 TRACTORS WITH NO DRAWBAR, AND 1-3/8" SPLINE	1
RM-996	SPECIAL 24" LONG EXTENSION ADAPTER FOR FARMALL 140 FAST HITCH, MASSEY FERGUSON 95, OR SIMILAR TRACTORS	1

#### PARTS USED ON PREVIOUS MODEL STANDARD M-96 SEEDERS:

RM-875	10" DIAMETER GREY-IRON BASE, WITH BEARINGS	1
RM-896	HOPPER FOR BASE RM-875 ONLY	1
RM-935	STAND FOR SEEDER - SINGLE LEG	1
RM-938	V-BELT, 36", USED WITH SINGLE STAND RM-935	1
RM-983	BRACE BAR FOR RIGHT SIDE, WITH ELEVATED CONTROL HANDLE, USED WITH SINGLE STAND RM-935	1
RM-173	INSECTICIDE CONTROL PLATE (DISCONTINUED FOR THIS MODEL SEEDER, AS WE RECOMMEND ELECTRIC SEEDERS FOR THIS PURPOSE)	1
RM-941	SEEDING INSTRUCTION DECAL - 4-3/8" X 3-1/2"	1
MG-36	INSECTICIDE KIT (DISCONTINUED), WHICH INCLUDED 1 @ RM-170, RM-171, RM-172, RM-173 AND 4 @ RM-987 (ALL DISCONTINUED)	1

## TO ASSEMBLE STANDARD MODEL M-96 SEEDER:

(PLACE SEEDER WRONG SIDE UP FOR EASE IN ASSEMBLY. WHEN IN DOUBT, CHECK DRAWING.)

1. RIVET FLAT HANDLE ONTO SEEDER CASTING WHERE RIVET IS PLACED, PLACING OFF-CENTER HOLE AWAY FROM SEEDER. REMOVE SMALL TENSION BOLT AND SPRING ASSEMBLY. SLIDE HANDLE BETWEEN SEED GAUGE AND SEED OPENING LINKAGE. REPLACE BOLT THROUGH OPENING LINKAGE, THROUGH HANDLE, THEN BETWEEN SLOT ON SEED GAUGE. PLACE WASHER, SPRING AND NUT ON TOP. TIGHTEN NUT SO THERE IS GOOD TENSION ON SPRING SO THAT OPENING WILL NOT WORK WHEN IN USE. CHECK SEED OPENING HANDLE TO SEE THAT OPENING WORKS FREELY. IF NOT, CHECK FOR PAINT IN SEED OPENING GROOVES, AND OIL.
2. TO ATTACH ELEVATED HANDLE, LOOSEN SETSCREW IN CASTING AND CLAMP BOLTS AT TOP OF BRACE BAR SHAFT TO WHICH HANDLE ASSEMBLY IS FASTENED. LOWER HANDLE ASSEMBLY AND PLACE END IN OPENING ON FLAT HANDLE. SLIDE BRACE BAR DOWN SO HANDLE CANNOT BE LIFTED OUT. TIGHTEN SETSCREW AND BOLTS IN CLAMP THAT WERE LOOSENED. SLIDE THE OTHER BRACE BAR DOWN EVEN WITH THE ONE ON WHICH HAS THE HANDLE ASSEMBLY.
3. REMOVE PAINT FROM 5/8" SHAFT THAT EXTENDS THROUGH GEAR. SLIDE SHAFT BACK UNTIL IT IS FLUSH WITH MITRE GEAR. TIGHTEN SETSCREW IN GEAR. SLIDE COLLAR FORWARD TO TAKE OUT END PLAY IN SHAFT SO THAT MITRE GEARS WILL NOT RIDE TOGETHER. THIS IS IMPORTANT FOR IF IT IS NOT DONE AS DIRECTED IT WILL CAUSE EXCESSIVE VIBRATION, UNDUE GEAR WEAR AND BEARING WEAR. TIGHTEN SETSCREW IN COLLAR.

## TO MOUNT STANDARD MODEL M-96 ON TRACTOR:

1. PLACE 2-STEP PULLEY AND ADAPTER ON TRACTOR PTO. TIGHTEN SETSCREW. WHEN SEEDER IS TO BE USED ON A FORD OR FERGUSON TRACTOR THAT HAS NOT BEEN STANDARDIZED AND HAVING 1-1/8" PTO, PART NO. RM-932 IS NECESSARY TO EXTEND PTO BACK TO DESIRED POSITION. INSTRUCTIONS ARE WITH ADAPTER. FERGUSON 35 TRACTORS WITH NO DRAWBAR REQUIRE NO. F-35 ADAPTER. FARMALL 140 AND M. F. 95 TRACTORS NEED SPECIAL 996 ADAPTER.
2. BOLT TWIN STAND TO DRAWBAR. PLACE FOOT ON STAND TOWARD TRACTOR WHEN DRAWBAR IS SET IN SHORT POSITION. TURN FOOT AWAY FROM TRACTOR WHEN DRAWBAR IS IN EXTENDED POSITION. MAKE SURE DRAWBAR IS IN LOCKED POSITION, SO WILL HAVE NO UP-AND-DOWN OR CROSSWISE MOTION.
3. BOLT BRACE RODS ON EACH SIDE AND BACK OF SEEDER TO TRACTOR AXLE-HOUSING OR TO SOME SECURE PLACE ON TRACTOR. BEND PLATE ON END OF BRACE ROD TO DESIRED ANGLE BEFORE ATTACHING TO TRACTOR — ALWAYS BEND AGAINST WELD. SMALL HOLES ARE ATTACHED TO SEEDER AND LARGE HOLES TO TRACTOR. IN MOUNTING BRACE RODS TO BACK OF HOPPER, FASTEN TO PLATE ON BRACE BARS.
4. LINE UP DRIVE PULLEYS AND PLACE V-BELT ON PULLEYS. LOOSEN SETSCREW ON TWIN STAND. RAISE SEEDER TO TIGHTEN BELT BUT DO NOT TIGHTEN BELT TOO TIGHT. TIGHTEN TWO SET SCREWS ON LEG CLAMPS SO THAT SEEDER IS LEVEL.
5. LUBRICATE THIS SEEDER HOURLY WHILE IN USE AND MORE OFTEN IF USED TO SPREAD FERTILIZER, INSECTICIDE OR NITRATE. WHEN SOWING SEED, DO NOT OVERLUBRICATE BEARING IN HOPPER. WIPE UP EXCESS GREASE IN HOPPER.

## OPERATING INSTRUCTIONS:

### For Herd Sure-Feed Seeder Standard Model M-96

IN OPERATING THIS SEEDER KEEP THE FOLLOWING FACTORS IN MIND:

1. THE RATE YOUR TRACTOR TRAVELS IN M. P. H.
2. THE SEED OPENING MUST BE OPENED WIDER FOR FAST SPEEDS AND MUST BE SET NARROWER FOR SLOW SPEEDS.
3. WHEN OPERATING TRACTOR MOTOR AT FULL THROTTLE, PUT V-BELT ON SMALL PULLEY OF 2-SPEED PULLEY. WHEN TRACTOR IS RUN ONE-HALF THROTTLE SPEED, PUT V-BELT ON LARGE PULLEY OF 2-STEP PULLEY SO THAT THE FAN OPERATES THE SAME REVOLUTIONS PER MINUTE. (POOR DISTRIBUTION MEANS SLOW FAN SPEED.) FAN SPEED SHOULD BE APPROXIMATELY 700 R. P. M.
4. NORMAL SETTING OF THE ADJUSTABLE PLATE IS WHEN THE MARK ON CASTING IN HOPPER IS IN LINE WITH RIVET IN SEED OPENING PLATE. TO CENTER THE SPREAD OF LIGHT-WEIGHT SEED OR FERTILIZER, THE ADJUSTABLE PLATE MAY BE MOVED. DO NOT MOVE ADJUSTABLE PLATE TOO FAR AT ONE TIME AS IT IS VERY SENSITIVE.
5. TO PREVENT THE HOPPER FROM RUSTING WHEN FERTILIZER IS USED, FILL THE SPACE WHERE HOPPER AND BASE MEET, WITH GREASE. REMOVE ANY EXCESS GREASE.
6. THIS STANDARD MODEL M-96 BROADCAST SEEDER IS NOT RECOMMENDED FOR SPREADING GRANULAR INSECTICIDES AND HERBICIDES. OUR ELECTRIC MODEL SEEDERS WERE SPECIALLY DESIGNED FOR THIS PURPOSE.
7. DO NOT ATTEMPT TO SPREAD GRANULAR HERBICIDES OR INSECTICIDES WITH THIS STANDARD MODEL M-96 FOR THE SPREAD CANNOT BE PROPERLY CENTERED, DUE TO THE LIGHTNESS OF THE MATERIAL. ALSO, THE AGITATOR WILL GRIND UP THE MATERIAL, CAUSING UNEVEN FEEDING AND DUSTING OF MATERIAL.

## **MAINTENANCE:**

1. WHEN THIS STANDARD M-96 IS BEING USED FOR NITRATES, FERTILIZER OR ANY TYPE OF HIGHLY CORROSIVE MATERIAL, BE SURE TO CLEAN BROADCAST SEEDER THOROUGHLY WHEN THROUGH, BY FLUSHING OUT WITH WATER. LUBRICATE SEED OPENING GUIDES AND PLATE, AND ALSO, ALL PARTS THAT MAY CORRODE, BEFORE STORING. IN DOING THIS, YOUR BROADCAST SEEDER WILL GIVE MUCH BETTER SERVICE WHEN YOU ARE READY TO USE IT THE NEXT TIME AND IT WILL PROLONG THE LIFE OF THE MACHINE.
2. THIS BROADCAST SEEDER WAS THOROUGHLY TESTED AND WILL DO THE JOB EFFICIENTLY AND PROPERLY IF THE INSTRUCTIONS ARE FOLLOWED. A LITTLE EXTRA TIME SPENT IN SETTING UP THIS MACHINE THE FIRST TIME, AND IN READING AND FOLLOWING OPERATING INSTRUCTIONS COMPLETELY, WILL PAY DIVIDENDS OVER THE YEARS, FOR THESE BROADCAST SEEDERS WERE BUILT FOR YEARS OF SERVICE.

## ***BROADCASTING INSTRUCTIONS***

### **FOR STANDARD MODEL M-96**

FIGURED AT 4 M.P.H. (SEE BELOW CHART FOR INSTRUCTIONS FOR OTHER SPEEDS)

<b><u>SEED OR MATERIAL</u></b>	<b><u>SIZE OPENING</u></b>	<b><u>PER ACRE</u></b>	<b><u>SPREAD WIDTH</u></b>
ALFALFA	3/16"	8 LBS.	18 FT.
AMMONIUM NITRATE	3/8"	80 LBS.	18 FT.
AUSTRALIAN PEA	3/8"	1 BU.	28 FT.
BLUE GRASS	1/2"	1 BU.	12 FT.
BROME GRASS	1/2"	1 BU.	12 FT.
CLOVER	3/16"	8 LBS.	18 FT.
FERTILIZER, PELLET OR GRANULAR	5/8"	83 LBS.	18 FT.
FESCUE	1/2"	17 LBS.	14 FT.
FLAX AND MILLET	1/4"	10 PTS.	20 FT.
LADINO CLOVER	1/32"	1 LB.	18 FT.
LESPEDEZA	3/16"	8 LBS.	18 FT.
OATS	1"	2 BU.	24 FT.
ORCHARD GRASS	3/8"	1 BU.	12 FT.
RED TOP	3/16"	7 PTS.	12 FT.
RYE	1/2"	1 BU.	26 FT.
RYE GRASS	1/2"	17 LBS.	14 FT.
SOYBEANS	3/4"	2 BU.	36 FT.
SUDAN GRASS	3/8"	18 LBS.	18 FT.
SWEET SUDAN GRASS	1/2"	20 LBS.	18 FT.
TIMOTHY	3/16"	8 PTS.	16 FT.
TURNIP SEED	1/4"	10 LBS.	24 FT.
VETCH	3/8"	1 BU.	26 FT.
WHEAT	1/2"	1 BU.	26 FT.

(1 BUSHEL OF BLUE GRASS, BROME GRASS AND ORCHARD GRASS WEIGHS APPROXIMATELY 14 POUNDS. 8 PINTS OF ALFALFA AND CLOVER WEIGH ABOUT 7-1/2 LBS.)

AT 6 M.P.H. THE OPENING SHOULD BE OPENED HALF-AGAIN AS MUCH, OR 50% MORE. AT 8 M.P.H. THE OPENING SHOULD BE OPENED TWICE AS MUCH, OR DOUBLED, OR, AS EXAMPLES: TO SPREAD 8 PTS. OF ALFALFA A WIDTH OF 18 FT. THE OPENING WILL BE 3/16" AT 4 M.P.H., OR 9/32" AT 6 M.P.H., OR 3/8" AT 8 M.P.H. OR, TO SPREAD 1 BU. BLUE GRASS 12 FT. WIDE, AN OPENING OF 1/2" IS FOR 4 M.P.H., A 1" OPENING IS FOR 8 M.P.H. AND A 3/4" OPENING IS FOR 6 M.P.H. SEED OPENINGS MUST BE OPENED WIDER FOR FAST SPEEDS AND SET NARROWER FOR SLOW SPEEDS. WHEN OPENING IS OPENED PAST 3/16" (OR LENGTH OF TEETH), THE AMOUNT FEEDING THROUGH THE OPENING WILL INCREASE 40%.

WIDTH OF SPREAD VARIES ACCORDING TO QUALITY AND WEIGHT OF SEED OR MATERIAL, SPEED OF TRACTOR AND WIND CONDITIONS. AFTER MAKING ONE RUN THROUGH THE FIELD, CHECK SPREAD. MAKE SURE THAT ALL SETSCREWS ON BROADCAST SEEDER ARE TIGHT.