# MEG

## **SHREDDER**

# ASSEMBLY - OPERATION AND MAINTENANCE INSTRUCTIONS

MODEL 12

12567

CHECK PACKAGES AND BUNDLES TO MAKE SURE THAT THEY CORRESPOND WITH YOUR SHIPPING DOCUMENTS. MAKE CLAIMS FOR SHORTAGES IMMEDIATELY.



FIGURE 1.

Place the Shredder Body Assembly on blocking so that it sets approximately 6" to 10" above the ground. Mount the tires and wheels to the Wheel Mount Weldment (Figure 8. Ref. 19). Determine the desired wheel spacing for the crop to be cut and place the Wheel Mount Weldment against the axle of the machine. Proper alignment with the axle may be obtained by use of the rear Mechanical Ham. Place the Wheel Mount Clamping Bracket in position (Figure 8. Ref. 18), and bolt securely using the ½-13 x 2" H.H.C.S., nuts and washers provided. Follow the same bolting procedure for the remaining three wheel mounts. Tighten bolts evenly into place.

The drawbar assembly may now be bolted to the front of the machine using the 1/2-13 x 1-1/2 H.H.C.S. provided. At this time, the front mechanical ram should also be installed.

The rear Hitch Weldment is held in place by 6-1/2-13 x 1-1/4" H.H.C.S. Place all bolts in holes and draw finger tight, before tightening down. Tighten bolts evenly into place.

Mount the power Take-Off Shaft in place as shown in Figure 8

#### LUBRICATION

Check oil level in gear box. Use No. 140 oil. Oil level should be up to oil level plug at side of gear box. Chain oiler should be filled with light engine oil to within 1/8" of the top of the tube. Be sure oiler is positioned correctly. Illustration shows points to lubricate with grease gun. The bearings have been greased; no additional lubricant is necessary to start. Begrease at required intervals. Add grease slowly with shaft revolving wherever

possible until grease comes rapidly out of pressure relief hole in grease fitting. Use caution when using high-pressure high-volume gun. Use grease sparingly and just give it enough to do the job. When you put the machine away at the end of the season, fill the bearings with grease to eliminate any cavities where condensation may occur.

#### **OPERATING INSTRUCTIONS**

Adjust Drawbar for Best Performance

Drawbar should operate level between the machine and tractor. Adjustment is provided for raising or lowering by means of a mechanical ram, located above the drawbar.

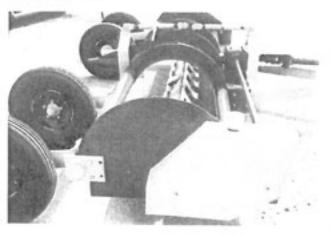


FIGURE 2.

#### CUTTING HEIGHT ADJUSTMENT

Cutting Height Adjustment is made by cranking the mechanical rams furnished on the machine, or by using a hydraulic cylinder in place of the rear mechanical ram, such as used on a plow. A hydraulic cylinder is desirable in rocky fields, especially if you see a rock you can raise the machine up and over. It is best, however, to stop and pick up the rocks.

#### TRACTOR GROUND SPEED AND POWER TAKE-OFF SPEED

Operating with a Power Take-Off speed of 540 RPM's and with a ground speed of from three to six miles per hour, you may shred heavy crops provided you have power available. The Model 12 Shredder requires a 4 plow tractor. Horsepower requirements vary with the weight of crop and the type of shredding. Horsepower is reduced by traveling at a slower forward speed. The right combination of power take-off speed and ground speed will produce the best results.

#### BREAKING IN PERIOD

It takes approximately 10 to 15 acres of shredding to get the inside of the machine and the blades polished to get the best performance. As the machine works in, performance will get better. After the machine has been operated a few hours, check all nuts and bolts to make sure they are tight. Open front cover and check knife bolts to be sure they are tight. NOTE: Electric Grinder Model 0038993 is available as an accessory to the shredder. When sharpening blades, try to maintain original angle of cutting edge as close as possible. For replacement discs for Electric Grinder order part No. 0038994.

#### MAINTENANCE OF SHREDDER BLADES

The machine is designed for easy inspection of shredder blades and rotor. To make this inspection, loosen "J" bolts and remove the cover. The shredder blades will last a long time with only occasional sharpening. It is important to check the blades occasionally to get good shredding action. The blades are eccentrically pivoted to the rotor shaft so that when they cut into the stalk, they swing back slightly causing an extended arc of cutting, thereby giving a smoother cut. It is important that the knives swing freely. When replacing blades to the hangers, be sure the whole blade assembly swings free. Be sure to tighten all bolts.

#### MAINTENANCE OF CHAIN DRIVE AND SPROCKETS

The sprockets must be lined up so that the chain runs perfectly straight on the sprockets. If chain runs extremely hot, this means the sprockets are not in line and the chain is dragging on the side of one of the sprockets. When your chain becomes excessively worn, it will then cause excessive wear on the sprockets. Be sure the sprockets are in line and set screws are tight. This is your best assurance of

good service. Keep Chain Oiler reservoir filled (see lubrication instructions).

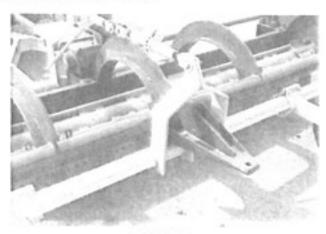


FIGURE 3.

#### SAFETY SHEAR PIN DEVICE

All M-C Shredders are equipped with safety shear bolts which fasten the drive sprocket to a flange on the gearbox output shaft. These shear pins are to protect the gear box and drive chain from damage. They will snap if the tractor clutch is let out too fast, or if the machine is submitted to severe impact from an unseen object in the line of travel. ID NOT USE HAPDENED BOLTS FOR SMEAR PINS.

#### PROVISION FOR 1000 RPM POWER TAKE-OFF TRACTOR

The M-C Model 12 Shredder is designed primarily for use with a 540 RPM Power Take-Off. However, the shredder is designed so as to allow for use with 1000 RPM P.T.O.'s by use of a 1000 RPM Conversion Kit.

#### CHAIN CURTAIN ASSEMBLY

A Chain Curtain Assembly is available for the Model 12 Shredder at an additional cost.

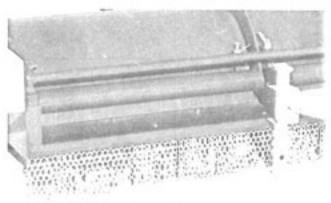
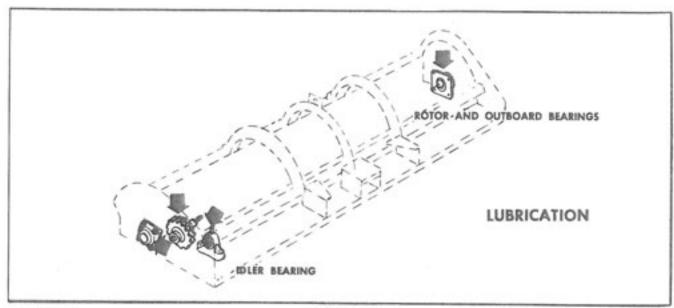


FIGURE 4.



#### LUBRICATION

Check oil level in gear box. Use No. 140 oil. Oil level should be up to oil level plug at side of gear box. Chain Oiler should be filled with a light engine oil to within 1/8" of the top of the tube. Be sure oiler is positioned correctly. Illustration shows points to lub-

ricate with grease gun.

All points should be lubricated once a day if machine is getting

#### FIGURE 5.

constant use. A hand grease gun is best because there will be less tendency to break the seals in the bearings by forcing too much grease into them. Use grease sparingly and just give it enough to do the job. When you put the machine away at the end of the season, fill the bearings with grease to eliminate any cavities where condensation may occur.

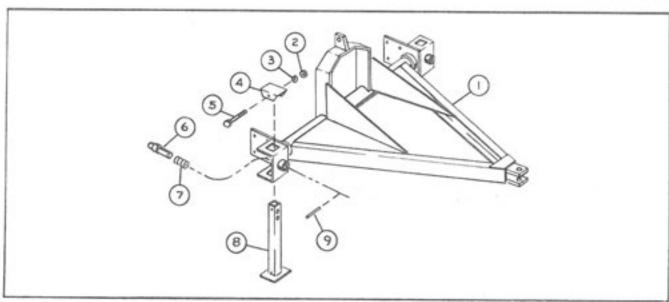


FIGURE 6.

#### DRAWBAR ASSEMBLY

REF. NO.	PART	DESCRIPTION
1	1110024	Drawbar Weldment
2		5/16-18 Hex Nut
4	1114765	5/16" Lock Washer Stand Cover
5		5/16-18 × 2-1/2 H.H.C.S.

REF. NO.	PART	DESCRIPTION
6	1110026	Lockpin Weldment
7	1118999	Lock Pin Spring
8	1110025	Stand Weldment
9	1118100	1/4" x 3" Roll Pin

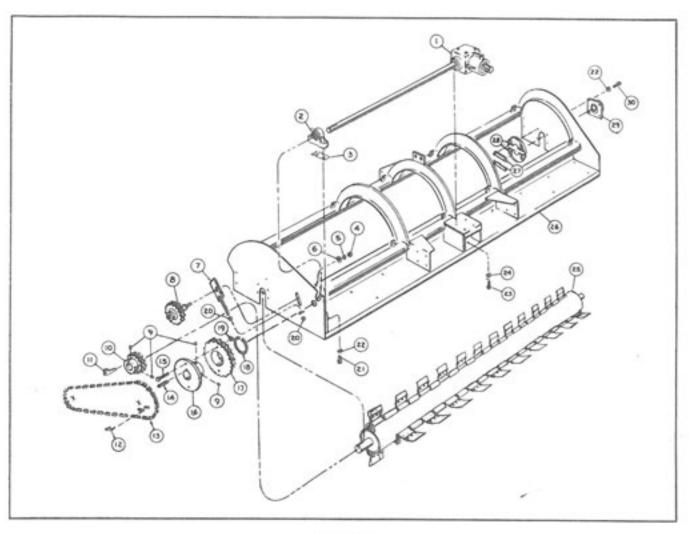


FIGURE 7.

#### BODY ASSEMBLY

REF. NO.	PART	DESCRIPTION	REF. NO.	PART	DESCRIPTION
1	1116604	Gear Box	16	0017651	Sprocket Shear Flange
3	0016013 0014877	Pillow Block Bearing 1-3/4 Bearing Shim 3/4-10 Hex Nut	16 17 18 19 21 22 23 24 25 26 27 28 29	1116402 0018100 0018149	Sprocket RC 60-2, 36T x 3-1/2 Bore Snap Ring - Shear Flange Lock Not
5	1118250	3/4 Lock Washer Flat Washer 3/4 ID x 1-1/2 OD	20	0010143	1/2-13 Hex Nut
7	1110033 1111009	Idler Mount	22		1/2-13 x 1" H.H.C.S. 1/2 Lock Washer
9		Idler Assembly 3/8-16 x 1/2 Allen Set Screw	24		5/8-11 x 3/4 H.H.C.S. 5/8 Lock Washer
11	1116401 0018987	Sprocket RC 60-2 19T x 1-15/16 Bore Gib Head Key 1/2 x 2-1/4 Lg:	25 26	1111002 1110021	Rotor Assembly #12 Body Weldment
12	0026303 1116302	Connecting Link RC 60-2 Chain RC 60-2	27 28	0015175	Stud Anchor Rotor Anti-Wrap
9 10 11 12 13 14 15	0015139	3/8 x 3" Lg. Key Stock 3/8-16 x 2-1/2 H.H.C.S.	29 30	0016010	4-Bolt Flange Bearing 1-15/16" 1/2-13 x 1-1/2 H.H.C.S:

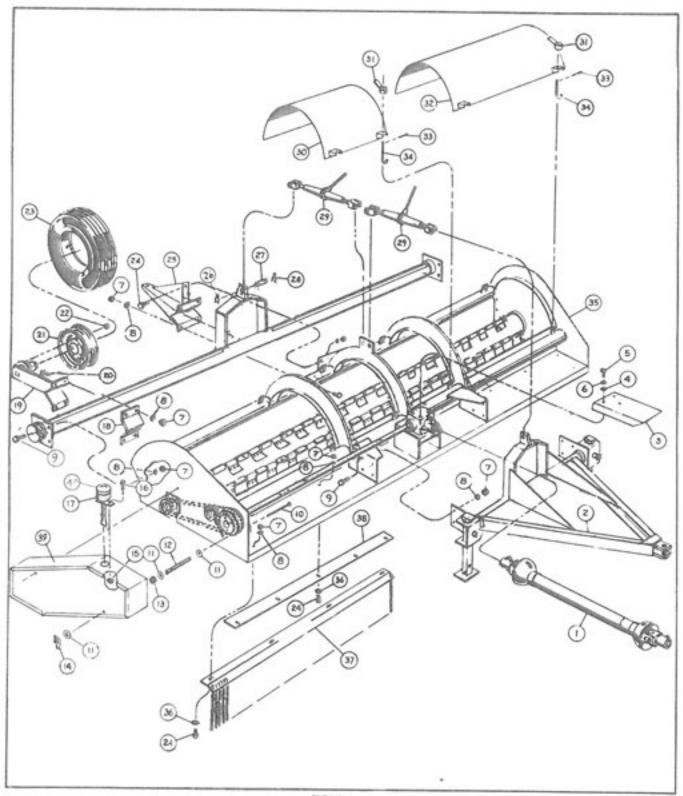
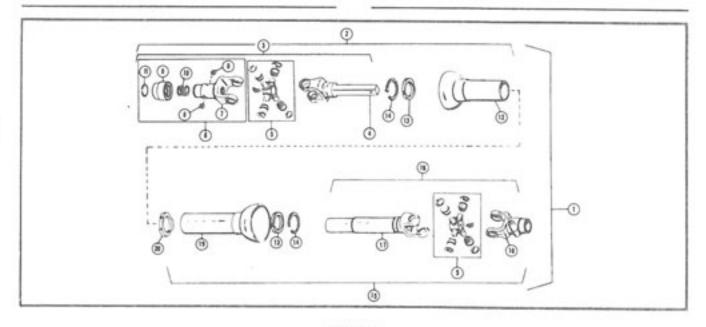


FIGURE 8.

MACHINE ASSEMBLY

#### MACHINE ASSEMBLY

REF. NO.	PART I	DESCRIPTION	REF. NO.	PART DESC	RIPTION
1	1116602 1111000	Power Shaft	21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 39	0018993	Wheel Rim
5	0014876	Drawbar Assembly Universal Guard	22	0018989	Wheel Lug Nut
ã.	0014010	3/8 Flat Washer	23	0008999	Tire & Tube 15" Implement
5		3/8-16 x 1" H.H.C.S.	25	1110037	1/2-13 x 1-1/4 H.H.C.S. Rear Hitch Weldment
6		3/8 Lock Washer	26	0928250	Spring Clip-Ram Pin
7		1/2-13 Hex Nut	27	0928230	Ran Pin
8		1/2 Lock Washer	28	1110023	Axle Weld
9		1/2-13 x 1-1/2 H.H.C.S.	29	0018985	Ratchet Jack
10		5/16-18 x 6-1/2 Carriage F t	30	1110034	Center Cover
11	******	5/16 Flat Washer	31	0010014	Clamping Handle
12	1115570	Chain Guard Spacer	32	1110035	End Cover
13		5/16-18 Hex Nut	33		1/8 x 3/4 Cotter Pin
14		5/16 Wing Nut	34	0018132	"J" Bolt 3/8-16 x 4
12		5/16 Whiz Nut	35	1111003	Body Assembly
17	1110036	5/16-18 x 3/4 H.H.C.S. Oiler Weldment	36		1/2 Flat Washer
18	1113572	Clamping Brk't Wheel Mount	37	1131000	Chain Curtain Assembly (Acc.)
19	1111006	Wheel Mount Assembly	30	0003470 1110038	Cutter Bar
10 11 12 13 14 15 16 17 18 19 20		1/2-13 x 2 H.H.C.S.	40	0017982	Chain Guard Oiler Cap



P. T. O. SHAFT Part No. 1116602

REF. NO.	PART	DESCRIPTION
1	1116602	"L55" Universal Jt. Tel. Shaft Assembly w/CDFWG
3	1126622	"155" Universal Jt. Tel. and Shaft w/QDFWG
3	1126623	"L55" Universal Jt. Tel. and Shaft
4	1126624	Yoke and Shaft
5	0026633	Repair Kit
6	0026653	Slide Lock Yoke Assembly
7	1126626	Slide Lock Yoke (1-3/8-68)
8	0026632	Pav1
8 9	0026631	Collar
10	0026630	Spring

REF. NO.	PART	DESCRIPTION
11	1126627	Retaining Ring
12	1126628	Female Guard Assembly
13	0026634	Nylon Bearings
14	0028250	Bearing Retainer
15	1126629	"L55" Universal Joint and Tube w/QDFWG
16	1126630	"L55" Universal Joint and Tube
1.7	1126631	Yoke and Tube
18	1126632	Clamp Yoke (1-3/4-68)
19	1126633	Male Guard Assembly
20	0026613	Nylon Centralizer

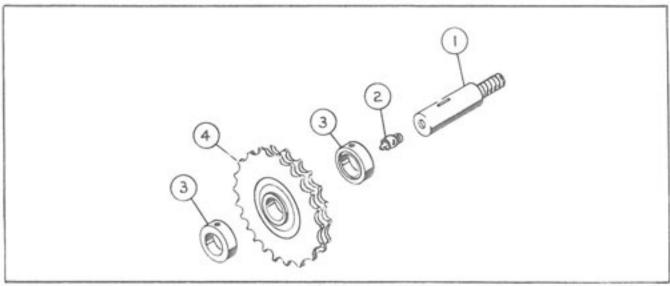


FIGURE 10.

#### IDLER ASSEMBLY

Part No. 1111009

REF.	PART	DESCRIPTION	REF, NO.	PART	DESCR	IPTION
1	111504	Idler Shaft	3	0016	002	Bearing Lock Collar
2	0026604	Grease Fitting	4	1111	1008	Idler Sprocket Assembly

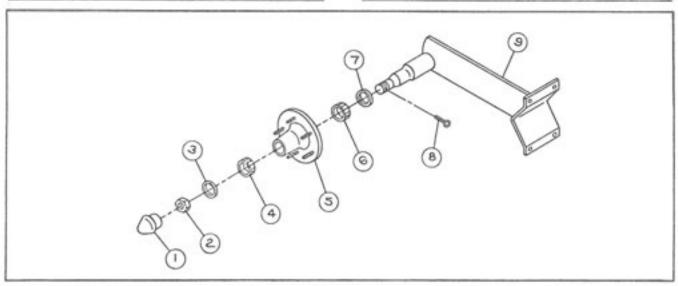


FIGURE 11.

#### WHEEL MOUNT ASSEMBLY

Part No. 1111006

REF. NO.	PART	DESCRIPTION
1 2 3 4 5	0018996 0018253 0018254 0016000 0018992	Wheel Hub Cap Wheel Spindle Nut Wheel Spindle Washer Wheel Outer Bearing Wheel Hub Assembly

REF. NO.	PART	DESCRIPTION	
6	0016001 0018991	Wheel Inner	Bearing
8 9	0018252 1110031	1/8 x 1-1/2 Wheel Mount	lg. Cotter Pin Weldment

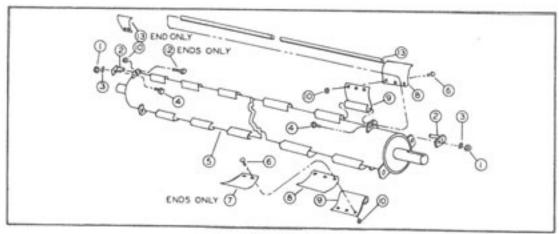


FIGURE 12.

#### ROTOR ASSEMBLY

REF. NO.	PART	DESCRIPTION
2 3	0010012	3/8" Lock Washer
5	1110029 0018131	3/8-16 x 1" H.H.C.S. Rotor Weldment #12 Knife Carriage Bolt

REF. NO.	PART	DESCRIPTION
7	0015206 0015208	End Knife Left
9	0015205	Heavy Duty Knife Blade Wide Knife Hanger
11	0018149 1117600	Locknut 3/8-16 Knife Tube
10 11 12 13	0015207	3/8-16 x 1-1/2 Full Thread H.H.C.S. End Knife Right

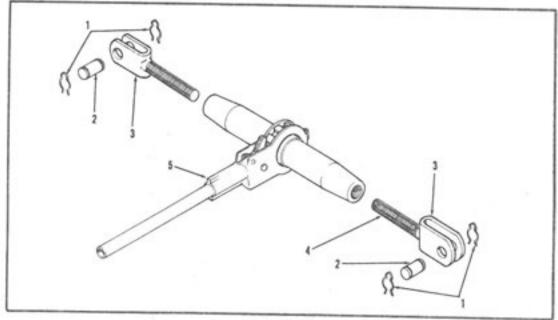


FIGURE 13.

### MECHANICAL RATCHETING JACK Part No. 0018985.

REF. NO.	PART	DESCRIPTION
1.	0028253	Ratcheting Jack Pin, Clip
2.	0028254	Ratcheting Jack Pin, 1" Dia. x 2-3/4" Lg.
3.	0028255	Ratcheting Jack End Weldment, L.H. Thread

REF. NO.	PART	DESCRIPTION			
4.	0028256	Ratcheting	Jack	End Weldment, R.H.	Thread
5.	0028257	Ratcheting	Jack	Handle Assembly	

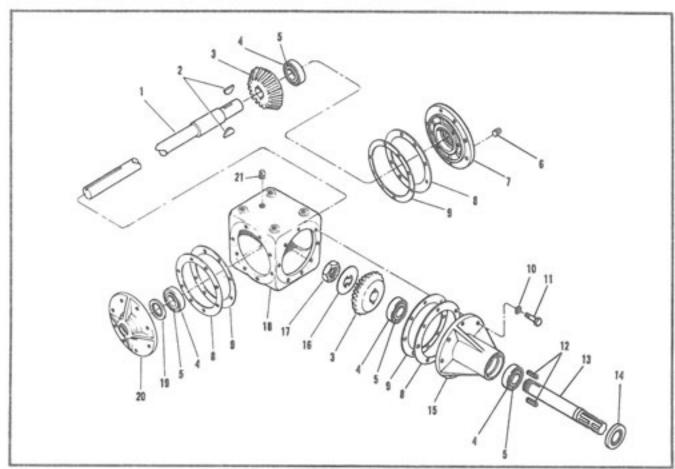


FIGURE 14. GEAR BOX Part No. 1116604

NO.	PART	DESCRIPTION	NO.	PART	DESCRIPTION
2. 00 3. 00 4. 00 5. 00 7. 00 8. 00	126634 018988 026500 026011 026010 028000 027655 026636 026637	Output Shaft, Gear Box Woodruff Key, 3/8 x 1-1/2" Bevel Gear Bearing Cone Bearing Cup Oil Level Plug Cover, Solid, Gear Box Gasket Shim .005 Thick Gasket Shim .010 Thick 1/2" Lock Washer	13. 14. 15. 16. 17. 18. 19.	0026638 0026639 0027656 0028252 0028251 0027654 0026635 0027653	Lock Washer Nut, Input Shaft Gear Housing Greate Scal



#### INSTRUCTIONS FOR ORDERING PARTS

- 1. ALL PARTS MUST BE ORDERED FROM YOUR DEALER.
- GIVE MODEL NAME, NUMBER and SERIAL NUMBER that is stamped on the NAME PLATE of your machine.
- Order from your PARTS LIST as this is the ONLY means we have
  of identifying the parts you need. Order by the QUANTITY
  DESIRED, the PART NUMBER and the DESCRIPTION OF
  THE PART.

NOTE: The Company reserves the right to incorporate any changes in design without obligation to make these changes on units previously sold.



TO INSURE WARRANTY CLAIMS, BE CERTAIN TO FILL OUT AND MAIL WARRANTY CARD WITHIN 30 DAYS.

M-O