

SAFETY FIRST



FARM AND INDUSTRIAL EQUIPMENT INSTITUTE SAFETY ALERT SYMBOL.
This symbol is used preceding all **CAUTION** (a general safety reminder), **WARNING** (denotes a potential hazard) and **DANGER** (denotes a potential injury) notices!

Most farm accidents, like industrial, home and highway accidents, are caused by the failure of some individuals to observe simple and fundamental safety rules or precautions. For this reason farm accidents, just as other types of accidents, can be prevented by recognizing the causes of accidents and doing something about them before an accident occurs.

Regardless of the care used in the design and construction of farm equipment, there are many points that cannot be completely safeguarded without interfering with accessibility and efficient operation.

A careful operator is the best insurance against an accident.

The complete observance of one simple rule would prevent many thousand serious injuries each year. That rule is "**NEVER ATTEMPT TO CLEAN, OIL OR ADJUST A MACHINE WHILE IN MOTION.**"

NATIONAL SAFETY COUNCIL

BEFORE ATTEMPTING TO OPERATE YOUR NEW MIXER FEEDER BE SURE TO READ THIS OWNERS MANUAL AND FAMILIARIZE YOURSELF WITH THE MACHINE!! OBSERVE THE FOLLOWING PRECAUTIONS FOR SAFE OPERATION OF THIS MACHINE!!

SAFETY TIPS



Keep Hands, Feet and Clothing away from PTO Shaft!



DO NOT climb on or enter machine while in operation



DO NOT make high speed maneuvers with the machine



Disengage PTO and remove key before servicing



Keep ALL Shields in place



DO NOT allow riders on outside of vehicle



DO NOT attempt to clean, oil or adjust machine while in motion

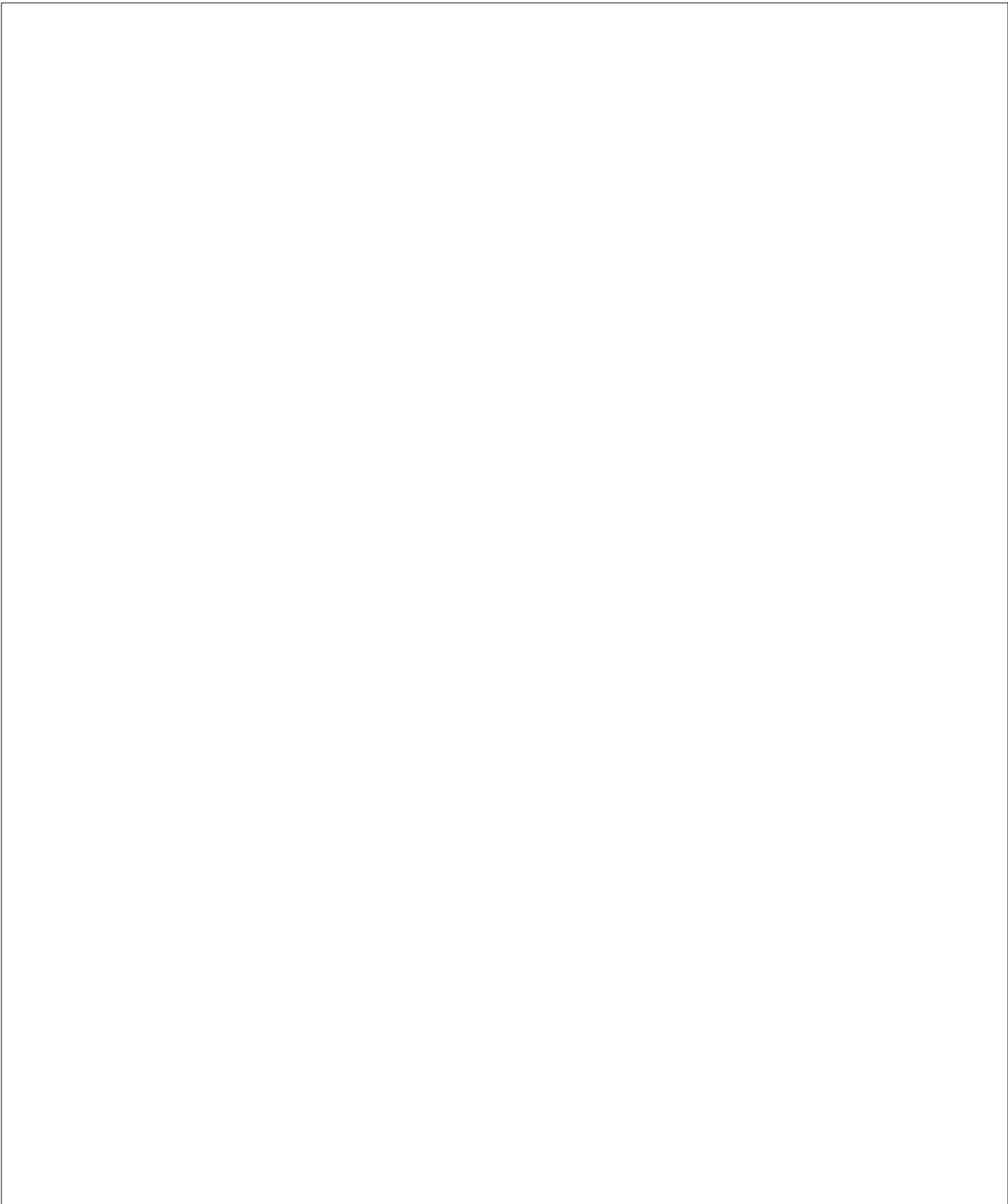


DO NOT exceed 1000 PTO speed on trailer mounted units

Properly ground all electrical Stationary applications.

**LOAD CELL & SCALE BRACKET
ASSEMBLY
MIXER FEEDER**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	51210200	FRONT & REAR SCALE BRACKET (MTR 420)	2
	51210500	FRONT & REAR SCALE BRACKET (MTR 520)	2
2.	51400000	HORIZONTAL SWAY BOLT	4
3.	51500000	VERTICAL SWAY BOLT	4
4.	51304000	SWAY PIPE	4
5.	51305000	RETAINER CLIP	4
6.	51307000	LOAD CELL PAD	8
7.		LOAD CELL (MODELS VARY)	4
8.	59600000	JUNCTION BOX (WEATHERPROOF)	1





**DISCHARGE GATE
BREAK DOWN**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70220420	GATE (MTR 420).....	1
	70220520	GATE (MTR 520).....	1
2.	70201000	HINGE SHAFT.....	1
3.	70240000	PMC-19710 3 X 10.....	1
4.	54505000	LOWER CYLINDER PIN.....	1
5.	54506000	UPPER CYLINDER PIN.....	1
6.	70230000	HYDRAULIC HOSE.....	2

**DISCHARGE CHUTE
BREAK DOWN**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70310000	CHUTE SHELL ASBY.	1
	70310010	(NO MAGNET) CHUTE SHELL ASBY. (ONE MAGNET HOLE)	1

	70310020	RAISED CHUTE SHELL ASBY.	1
		
	70310030	(NO MAGNET) RAISED CHUTE SHELL ASBY.	1
		
2.	70320000	(ONE MAGNET HOLE) HINGE PIPE ASBY.	1
		
3.	70335000	REAR LEVER ASBY.	1
		
4.	70336000	FRONT LEVER & SHAFT ASBY.	1
		
5.	53620000	2X11 CHUTE CYLINDER ASSEMBLY	1
		
6.	70341000	BOTTOM CYLINDER PIN	1
		
7.	70350000	UPPER CYLINDER HOSE 54" LONG	1
		
8.	70360000	LOWER CYLINDER HOSE 48" LONG	1
		
9.	70371000	MAGNET COVER	1
		
10.	TG 18.5	MAGNET	1
		
11.	53502005	MAGNET HOLDER	2
		

IDLER END BREAK DOWN

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70420420	IDLER STUB SHAFT (MTR 420)	2
	70420520	IDLER STUB SHAFT (MTR 520)	2
2.	F3U239H	2 7/16" FLANGE BEARING (MTR 420)	2
	F3U247N	2 15/16" FLANGE BEARING (MTR 520)	2
3.	70482420	SPACER (MTR 420)	2
	70482520	SPACER (MTR 520)	2
4.	70481420	END CAP (MTR 420)	2
	70481520	END CAP (MTR 520)	2
5.	7060042L	LEFT HAND ROTOR ASBY. (MTR 420)	1
	7060052L	LEFT HAND ROTOR ASBY. (MTR 520)	1
6.	7060042R	RIGHT HAND ROTOR ASBY. (MTR 420)	1
	7060052R	RIGHT HAND ROTOR ASBY. (MTR 520)	1

LEFT & RIGHT HAND ROTOR BREAK DOWN

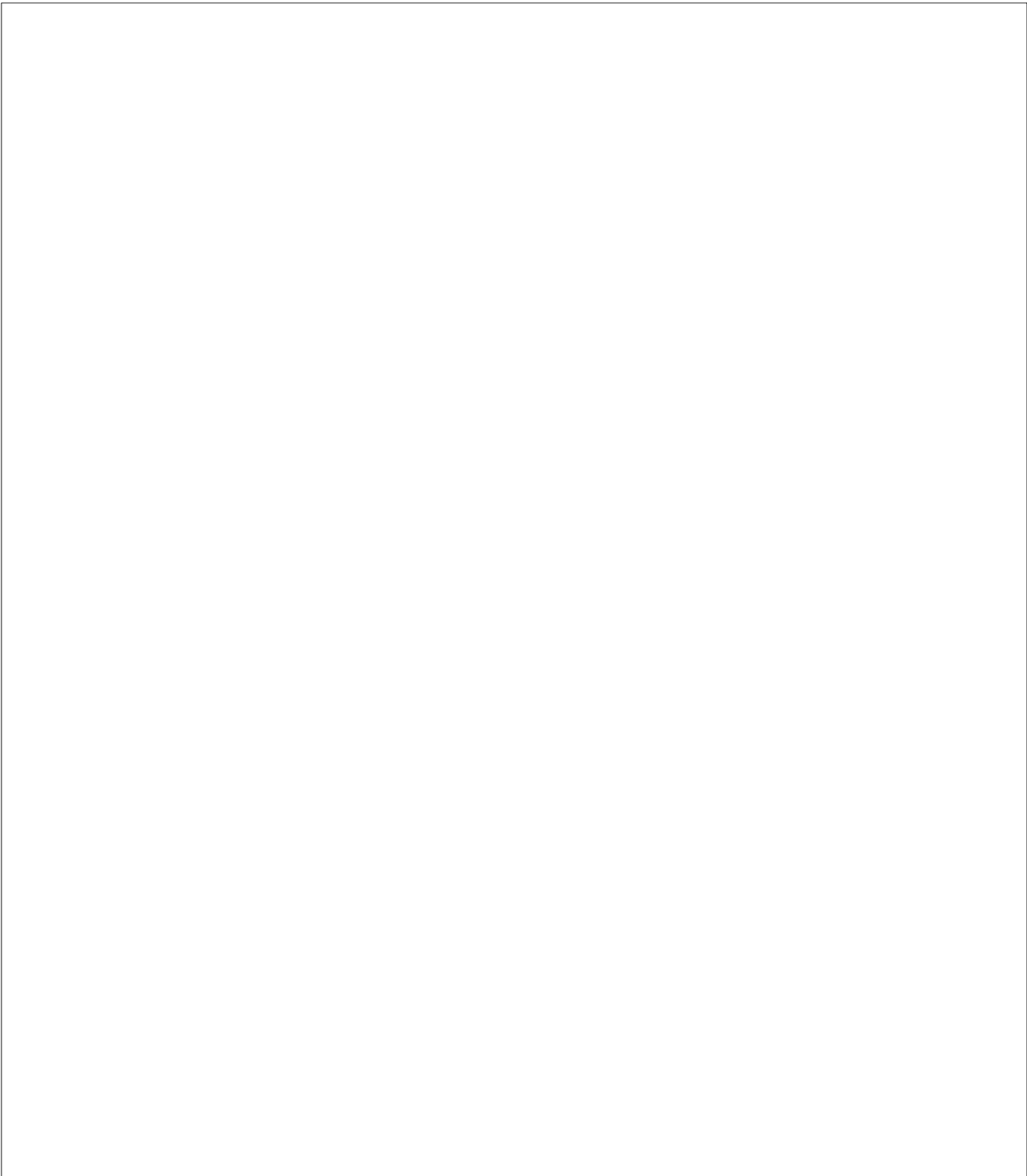
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70610000	ROTOR PIPE ASBY.	2
2.	70620420	LEFT HAND ROTOR ARM ASBY.	12
	70620520	(MTR 420) LEFT HAND ROTOR ARM ASBY.	12
3.	70630420	(MTR 520) RIGHT HAND ROTOR ARM ASBY.	12
	70630520	(MTR 420) RIGHT HAND ROTOR ARM ASBY.	12
4.	70670000	(MTR 520) PADDLE ASBY.	12
5.	70660000	PADDLE MOUNT ASBY.	24
6.	70644000	UHMW ROLLER	24
7.	70646000	END CAP	24

DRIVE END

BREAKDOWN

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70410420	DRIVE STUB SHAFT (MTR 420).....	2
	70410520	DRIVE STUB SHAFT (MTR 520).....	2
2.	F255	3 7/16" FLANGE BEARING (MTR 420).....	2
	FB22463H	3 15/16" FLANGE BEARING (MTR 520).....	2
3.	70430420	120B104 SPROCKET (MTR 420).....	2
	70430520	140B104 SPROCKET (MTR 520).....	2
4.	5/8X4 1/4 KEY	KEYSTOCK 5/8" X 4 1/4" (MTR 420).....	4
	3/4X4 1/4 KEY	KEYSTOCK 3/4" X 4 1/4" (MTR 520).....	4
5.	70483420	END CAP (MTR 420).....	2
	70483520	END CAP (MTR 520).....	2
6.	120B12	SPROCKET 120 CHAIN (MTR 420).....	1
	140B12	SPROCKET 140 CHAIN (MTR 520).....	1
7.	120B10	SPROCKET 120 CHAIN (MTR 420).....	1
	140B10	SPROCKET 140 CHAIN (MTR 520).....	1
8.	56807000	GR1600 SHAFT SPACER.....	2
9.	56802000	END CAP.....	2
10.	70473420	OIL BATH COVER (MTR 420).....	1
	70473520	OIL BATH COVER (MTR 520).....	1
11.	80B12 1 3/4	SPROCKET 80 CHAIN 12T 1 3/4" BORE.....	1
12.	80B76	SPROCKET 80 CHAIN 76T 2 7/16" BORE.....	1
13.	F3U239H	2 7/16" FLANGE BEARING.....	1
14.	FB22463H	3 15/16" FLANGE BEARING.....	1
15.	70710000	DISCHARGE AUGER.....	1
16.	80I11	SPROCKET 80 CHAIN 9T.....	1
17.	70455000	IDLER BRACKET.....	1
18.	120I9	SPROCKET 120 CHAIN 9T (MTR 420).....	1
	140I9	SPROCKET 140 CHAIN 9T (MTR 520).....	1
19.	70445000	LEFT HAND IDLER BRACKET.....	1
20.	70446000	RIGHT HAND IDLER BRACKET.....	1
21.	30843	SMALL SPRING.....	1
22.	2001-21001	TWIN LOOP I/O CHAIN (8 LINKS).....	1

23.	758060	BIG SPRING.....	2
24.	2001-21001	TWIN LOOP I/O CHAIN (12 LINKS).....	2
25.	RC120 CHAIN	CHAIN [15'-8"(126 PITCH)] (MTR 420).....	2
	RC140 CHAIN	CHAIN [18'-4"(126 PITCH) (MTR 520).....	2
26.	RC80 CHAIN	CHAIN [8'-0"(96 PITCH)].....	1
27.	70476000	SPACER.....	4
28.	GR1600 MTR	GEAR BOX W/1 1/2" INPUT.....	1
29.	GA01365023	2:1 GEAR BOX (TRUCK MOUNT ONLY).....	1
30.	50740000	M-625 MOUNT ASBY.....	1
31.	350 1 1/4 RD	350 1 1/4" ROUND YOKE.....	1
32.	D1 1 1/8 HEX	1 1/8" HEX YOKE.....	1
33.	350 CROSS&BRG	350 CROSS & BEARING.....	2
34.	70479000	1 1/8" HEX SHAFT 6" LONG.....	1
35.	D3 1 1/8 H.SL.	1 1/8" HEX SLIP YOKE.....	1
36.	350 1 1/2 RD	350 1 1/2" ROUND YOKE.....	1
37.	938612	515A 1.5:1 'DE' GEARBOX.....	1
38.	70520420	FRONT VERTICAL DOOR POST..... (MTR 420)	1
	70520520	FRONT VERTICAL DOOR POST..... (MTR 520)	1
39.	70530420	REAR VERTICAL DOOR POST..... (MTR 420)	1
	70530520	REAR VERTICAL DOOR POST..... (MTR 520)	1
40.	70540000	CENTER HORIZONTAL DOOR POST.....	1
41.	70551420	LEFT HAND DOOR PANEL (MTR 420).....	1
	70551520	LEFT HAND DOOR PANEL (MTR 520).....	1
42.	70552420	RIGHT HAND DOOR PANEL (MTR420).....	1
	70552520	RIGHT HAND DOOR PANEL (MTR520).....	1
43.	70553420	TOP DOOR PANEL (MTR 420).....	1
	70553520	TOP DOOR PANEL (MTR 520).....	1
44.	70554000	BOTTOM DOOR PANEL.....	1
45.	57150000	DOOR HINGE ASBY.....	6



**GR1600 MTR
BREAK DOWN**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	11-011-001	SHIM-END PLATE (.006) (*SEE NOTE*).....	35
2.	11-011-014	CLOSED END PLATE INPUT.....	1
3.	11-011-009	OPEN END PLATE INPUT.....	1
4.	472164	SEAL (INPUT)	2
5.	11-011-020	CLOSED END PLATE INPUT.....	1
6.	11-011-016	OPEN END PLATE OUTPUT.....	2
6a.	3/8X1 1/4 BOLT	BOLT, 3/8" X 1 1/4".....	18
6b.	3/8X1 1/2 BOLT	BOLT, 3/8" X 1 1/2".....	6
6c.	3/8X3/4 BOLT	BOLT, 3/8" X 3/4" (SOCKET HEAD FLAT).....	12
7.	455006	SEAL (OUTPUT).....	2
8.	11-011-018	GEAR CASE HALF.....	2
8a.	1/2X2 1/2 BOLT	BOLT, 1/2" X 2 1/2".....	2
8b.	1/2X2 BOLT	BOLT, 1/2" X 2".....	7
8c.	1/2X8 BOLT	BOLT, 1/2" X 8".....	4
8d.	1/2 HEX	NUT, 1/2" HEX.....	13
9.	11-011-008	BUSHING - LINEUP.....	2
10.	11-011-010	GASKET-TOP CASE HALF.....	1
11.	11-011-011	GASKET-BOTTOM CASE HALF.....	1
12.	11-011-024	TOP COVER PLATE.....	2
13.	35-P-9-1	GASKET-COVER (.010).....	2
14.	25520	TIMKEN CUP.....	4
15.	25580	TIMKEN CONE.....	4
16.	11-011-013	INPUT SHAFT & PINION (1 1/2").....	1
17.	JH415610	TIMKEN CUP.....	4
18.	JH415647	TIMKEN CONE.....	4
19.	11-011-012	OUTPUT GEAR.....	2
20.	11-011-019	OUTPUT SHAFT (MTR 2 7/16").....	2
21.	11-011-003	KEYSTOCK, 3/4" X 2 5/8" (OUTPUT).....	2
22.	1X9 BOLT	BOLT, 1" X 9".....	1
23.	11-011-006	GASKET-CENTER BOLT.....	2
24.	1-8 HEX	NUT, 1-8 HEX.....	1
25.	3/8X7/8X1 7/8	GEAR BOX MAGNET.....	2
26.	WB228UL	BEARING INSERT 1 3/4".....	1
27.	11-011-025	OPEN END CAP MTR.....	1
28.	11-011-026	BEARING OPEN END CAP MTR.....	1
29.	11-011-027	1 3/4" OUTPUT SHAFT MTR.....	1
30.	3/8 VENT PLUG	3/8" VENT PIPE PLUG.....	1
31.	1/2X3/8 BUSH	BUSHING 1/2" X 3/8".....	1
32.	1/2 PLUG	1/2" PIPE PLUG.....	3

11-136-200
HELICAL GEAR DRIVE A-136 RATIO 2:1

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	11-136-001	HOUSING HALF (CAST # 1361) W/ PLUG HOLE.....	1
2.	11-136-002	HOUSING HALF (CAST # 1361).....	1
3.	11-136-003	BOTTOM END COVER (CAST # 1362).....	2
4.	11-136-004	TOP END COVER (CAST # 1363).....	2
5.	5/16 LOCK	WASHER 5/16" LOCK.....	10
6.	5/16 HEX	NUT HEX HEAD ZC NC 5/16".....	10
7.	5/16X3 1/4 CAPSCR	CAPSCR 5/16" NC X 3 1/4"	8
8.	5/16X2 3/4 SHSDS	SOC.H'D.SH'DR.SCR. 5/16" X 2 3/4"	2
9.	394A	TIMKEN CUP.....	2
10.	395A	TIMKEN CONE.....	2
11.	11-136-005	1 3/4" HOLLOW SHAFT.....	1
12.	11-136-010	46T - 6P.....	1
13.	1/2X1 1/4 KEY	KEYSTOCK 1/2" X 1 1/4".....	1
14.	11-136-006	THICK SHIM (END COVER).....	2
15.	11-136-007	THIN SHIM (END COVER).....	2
16.	K250	SEAL.....	2
17.	57490000	GREASE CAP.....	1
18.	11-136-012	INPUT SHAFT.....	1
19.	11-136-009	23T - 6P.....	1
20.	5/16X1 5/8 KEY	KEYSTOCK 5/16" X 1 5/8".....	1
21.	HM88610	TIMKEN CUP.....	2
22.	HM88648	TIMKEN CONE.....	2
23.	5/16X1 CAPSCR	CAPSCR 5/16" NC X 1" LG.....	16
24.	K105	SEAL.....	1
25.	K154	CAP.....	1
26.	3/8 ST ELBOW	3/8" 90 DEG. STREET ELBOW.....	1
27.	K112	VENT PLUG.....	1
28.	3/8X1/8 BUSH	BUSHING 3/8" X 1/8".....	1
29.	3/8 PLUG	3/8" PIPE PLUG.....	1

HYDRAULIC SCHEMATIC MIXER FEEDER TRUCK MOUNT

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	1B5.6	PUMP PULLEY.....	1
2.	SDS 9/16	SDS 9/16" HUB.....	1
3.	73YB-RH	WEBSTER PUMP.....	1
4.	58210000	PUMP BRACKET.....	1
5.	58220000	ALTERNATE BRACKET.....	1
6.	58230000	MOUNTING ARM.....	1
7.	58240000	HYDRAULIC RESERVOIR TANK.....	1
8.	31061	OIL CAP.....	1
9.	FSP107-1LDNN	OIL FILTER (GRESEN FILTER).....	1
10.	MV5 SINGLE	SINGLE ELECTRIC VALVE.....	1
11.	*SEE NOTE*	SUCTION LINE (FROM TANK - PUMP).....	1
12.	*SEE NOTE*	PRESSURE LINE (FROM PUMP - MV5)	1
13.	*SEE NOTE*	RETURN LINE (FROM MV5 - TANK).....	1
14.	30780000	HYDRAULIC HOSE LINE (MV5 TO SEQUENCE VALVE)	2
15.	30732000	SEQUENCE VALVE.....	1
16.	70230000	GATE CYLINDER HOSE.....	2
17.	70350000	UPPER CHUTE CYLINDER HOSE.....	1
18.	70360000	LOWER CHUTE CYLINDER HOSE.....	1
19.	PMC-19710	GATE CYLINDER 3 X 10.....	1
20.	10820000	CHUTE CYLINDER.....	1
21.	08831-2300	ALTERNATE SHEAVE PULLEY.....	1
22.	08831	ALTERNATE HUB.....	1

*NOTE: IF NEEDING TO BE REPLACED, MEASURE THE SIZE AND LENGTH OF THE HYDRUALIC HOSE.

TRAILER ASSEMBLY LOW PROFILE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	58110000	MOUNTING PADS.....	4
2.	30402000	SAFETY SHIELD.....	1
3.	37403420	DRIVE SHAFT (MTR 420).....	1
	37403520	DRIVE SHAFT (MTR 520).....	1
4.	P3U222N	1 3/8" PILLOW BLOCK BEARING.....	5
5.	30410000	JACK ASBY.....	1
6.	30420000	HYDRAULIC HOSE STAND.....	1
7.	30430000	PTO BRACKET.....	1
8.	30440000	BUMPER.....	1
9.	TR35ND-P48	PTO 1 3/8" X 6" SPLINE.....	1
10.	37100420	TRAILER FRAME (MTR 420).....	1
	37100520	TRAILER FRAME (MTR 520).....	1
*11.	30300520	LOW PROFILE HITCH ASBY.....	1
*12.	30200000	LOW PROFILE AXLE.....	1
11.	H40X14.5-19 COMP	24 P.R. TIRE & WHEEL.....	2

OPTIONAL SPRING SUSPENSION TRAILER ASBY.

*11.	30600520	HIGH PROFILE HITCH ASBY.....	1
*12.	30500000	HIGH PROFILE AXLE (W/SUSPENSION).....	1

HYDRAULIC SCHEMATIC MIXER FEEDER TRAILER MOUNT

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	30790000	HYDRAULIC HOSE LINE (TRACTOR TO PRESSURE RELIEF VALVE) . .	2
2.	DRV-2LL-1250	PRESSURE RELIEF VALVE.....	1
3.	30780000	HYDRAULIC HOSE LINE (PRESSURE RELIEF VALVE TO SEQUENCE VALVE).....	2
4.	30732000	SEQUENCE VALVE.....	1
5.	PMC-19710	GATE CYLINDER 3 X 10.....	1
6.	70230000	GATE CYLINDER HOSE.....	2
7.	10820000	CHUTE CYLINDER.....	1
8.	70350000	UPPER CHUTE CYLINDER HOSE.....	1
9.	70360000	LOWER CHUTE CYLINDER HOSE.....	1

**STRAIGHT
EDGE**

**WEBSTER
PUMP**

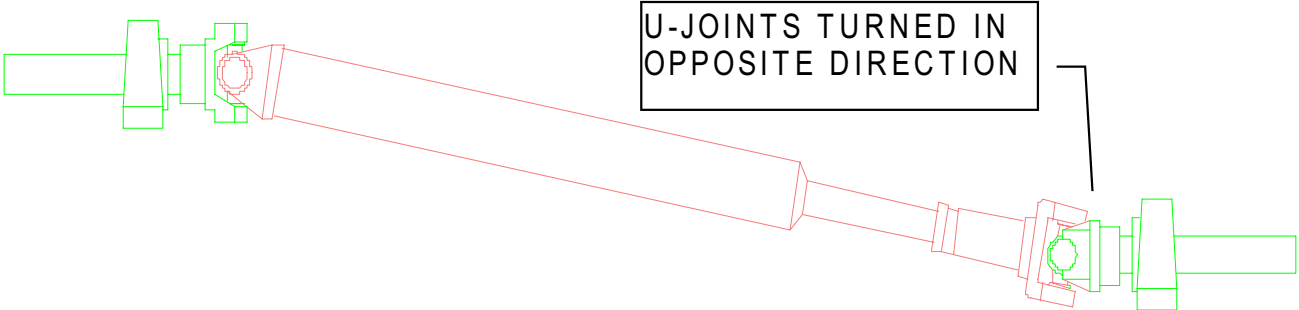
BELT TENSION GUIDE

**ALLOW 3/8" TO
5/8" SLACK**



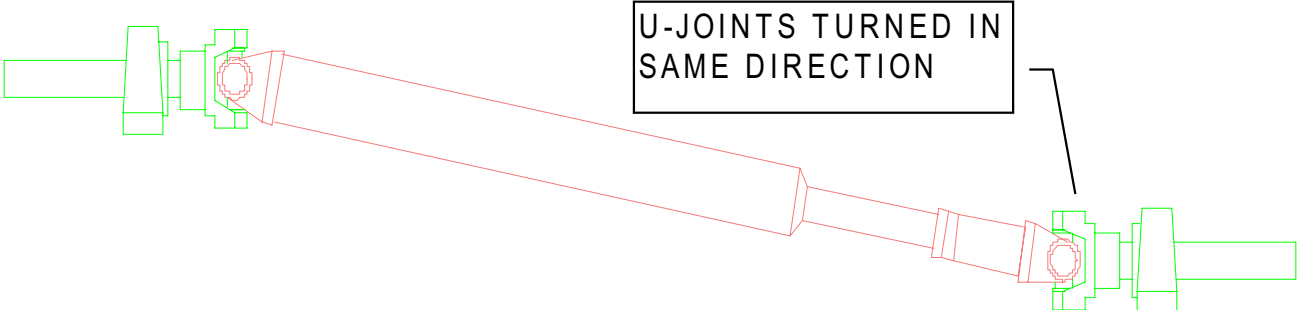
ALTERNATOR

WRONG



NOTE: POSITIONS OF U-JOINTS
U-JOINTS MUST ALIGN

RIGHT



U-JOINT ALIGNMENT

SCALE INDICATOR ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	59210000	INDICATOR STAND.....	1
2.	58220000	INDICATOR MOUNTING PIPE.....	1
3.	70950200	MTR CONSOLE PANEL.....	1
4.	J82-111-115	2 WAY JOY STICK.....	1
5.	4085B	TOGGLE SWITCH.....	2
6.	3049B	CONVEYOR LIGHT.....	1
7.	378978	PTO LIGHT.....	1
8.	HKP	30 AMP FUSE.....	1
9.	59240000	890 INDICATOR BRACKET.....	1
10.	59250000	99 INDICATOR BRACKET.....	1
11.	59260000	J-STAR INDICATOR BRACKET.....	1
12.	59290000	EATON REMOTE BRACKET.....	1
13.	59292000	J-STAR REMOTE BRACKET.....	1
14.	59295000	MDL: #9 625 INDICATOR BRACKET.....	1

