INSTRUCTIONS FOR ORDERING PARTS:

1. ALL PARTS MUST BE ORDERED FROM YOUR DEALER.
2. GIVE MODEL NUMBER and SERIAL NUMBER that is stamped on the NAME PLATE of your machine.
3. Order from your PARTS LIST, found below each illustration, 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.

OWNERS NOTICE

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

PRINTED IN U.S.A.

$3.00

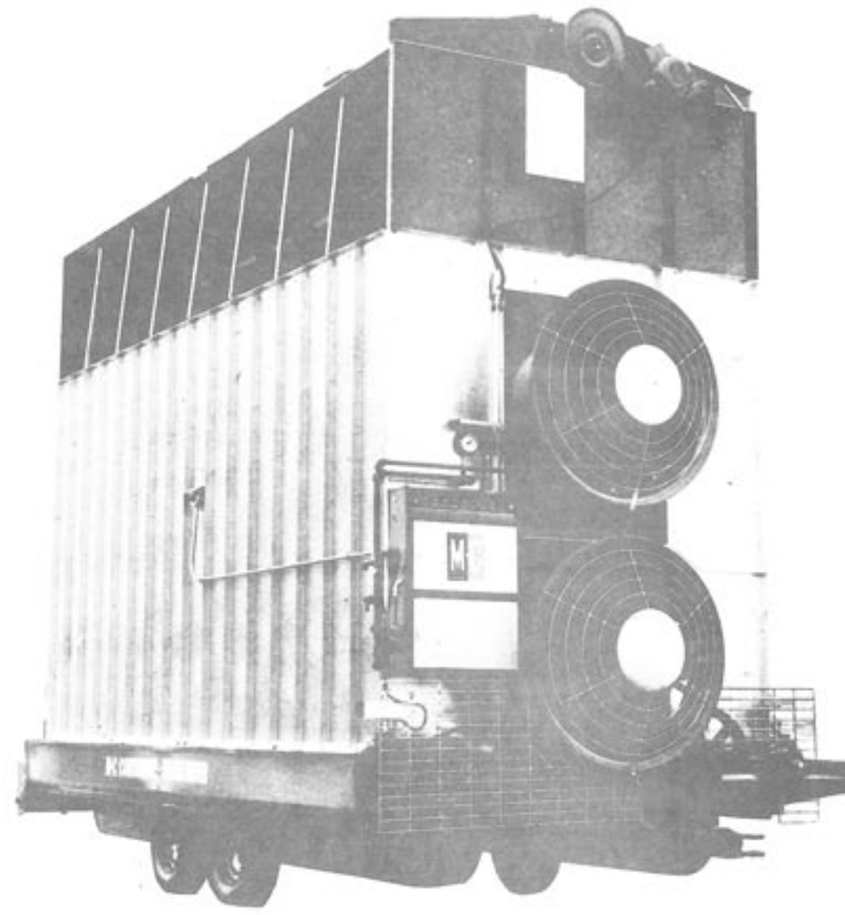
M-C

CONTINUOUS GRAIN DRYER

ASSEMBLY-OPERATION AND MAINTENANCE INSTRUCTIONS

ALL MODELS

300
400
600
800
900



DM 70
Reprint 7/85

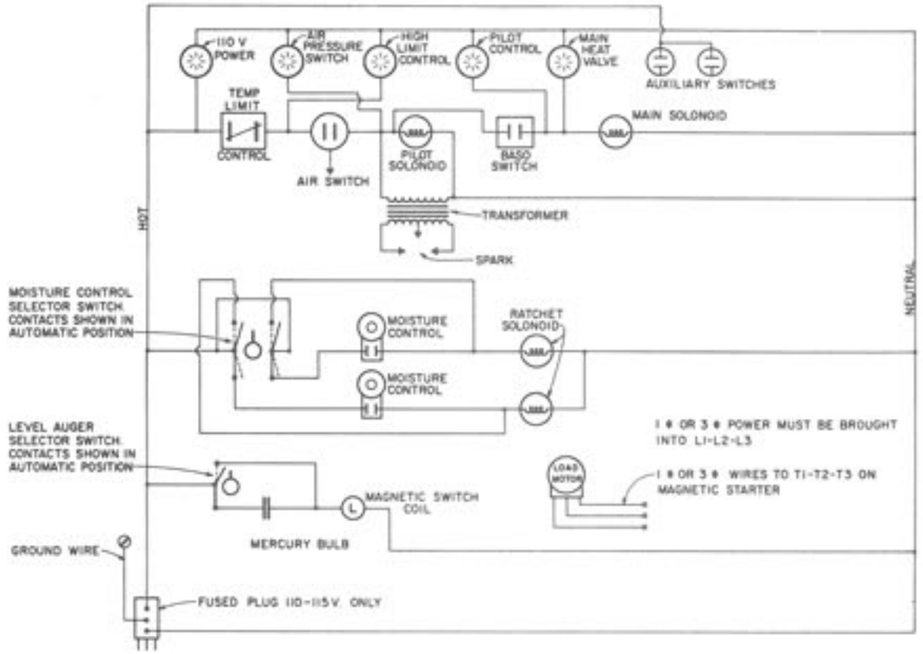
Mathews Co./
500 Industrial Ave., Crystal Lake, IL 60014, U.S.A. D197
815/459-2210 Telex 72-2488

M-C DRIVER PULLEY CHART
ELECTRIC MOTOR POWERED

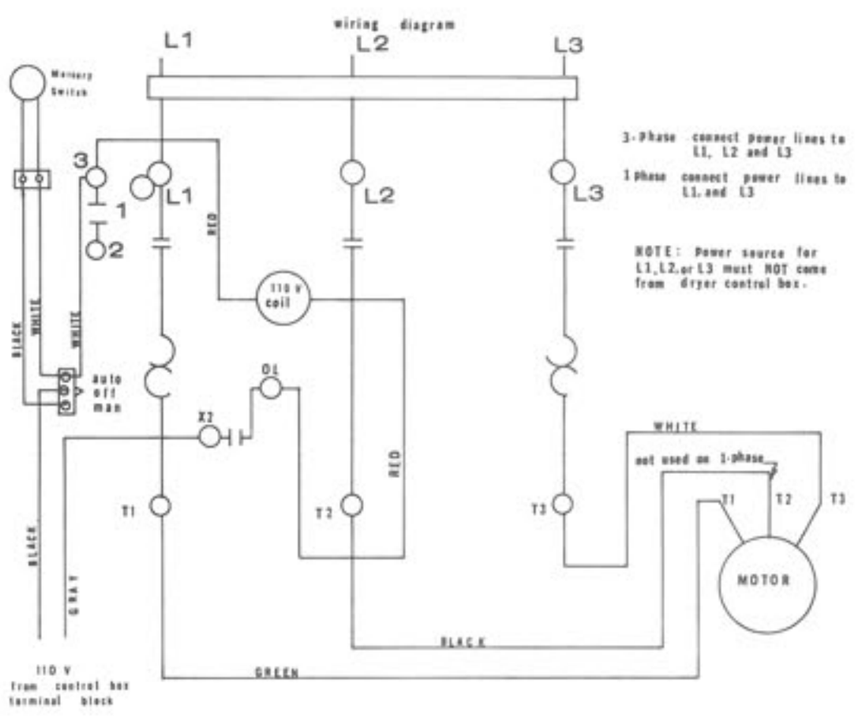
MODEL NO.	MOTOR HP	ELECTRIC MOTOR PULLEY				FAN SHAFT PULLEY				BELT	FAN SPEED RPM
		PART NUMBER	PULLEY SPECS.	SK BUSHING PART NO.	BORE	PART NUMBER	PULLEY SPECS.	SK BUSHING PART NO.	BORE		
300BE-10	20	1236206	8/3V4.75	1206216	1-5/8	1206215	8/3V5.9	1206216	1-5/8	1236104	1400.7
400BE-10	25	1236215	8/3V5.0	1236212	1-7/8	1206215	8/3V5.9	1206216	1-5/8		1483.0
600BE-10	30	1236207	8/3V5.3	1236212	1-7/8	1206215	8/3V5.9	1206216	1-5/8		1575.0
600BE-10	40	1206215	8/3V5.9	1236208	2-1/8	1206215	8/3V5.9	1206216	1-5/8		1750.0
800BE-10	40	1206215	8/3V5.9	1236208	2-1/8	1206215	8/3V5.9	1206216	1-5/8		1750.0
900BE-10	40	1206215	8/3V5.9	1236208	2-1/8	1206215	8/3V5.9	1206216	1-5/8		1750.0

MODEL NO.		TRACTOR DRIVEN P.T.O. – R.P.M.								BELTS	FAN SPEED RPM
		JACKSHAFT PULLEY				FAN SHAFT PULLEY					
		PULLEY PART NO.	PULLEY SPECS.	BUSHING "SF" TYPE	BORE	PULLEY PART NO.	PULLEY SPECS.	BUSHING "SK" TYPE	BORE		
	All B-10 Models	1216225	8/3V19.0	1216226	1-5/8	1206215	8/3V5.9	1206216	1-5/8	1236113	1750
		P.T.O. 1000 R.P.M.									
	All B-10 Models	1236214	8/3V10.6	1236216	1-5/8	1206215	8/3V5.9	1206216	1-5/8	1236105	1750

ELECTRICAL DIAGRAM



LEVEL SWITCH DIAGRAM



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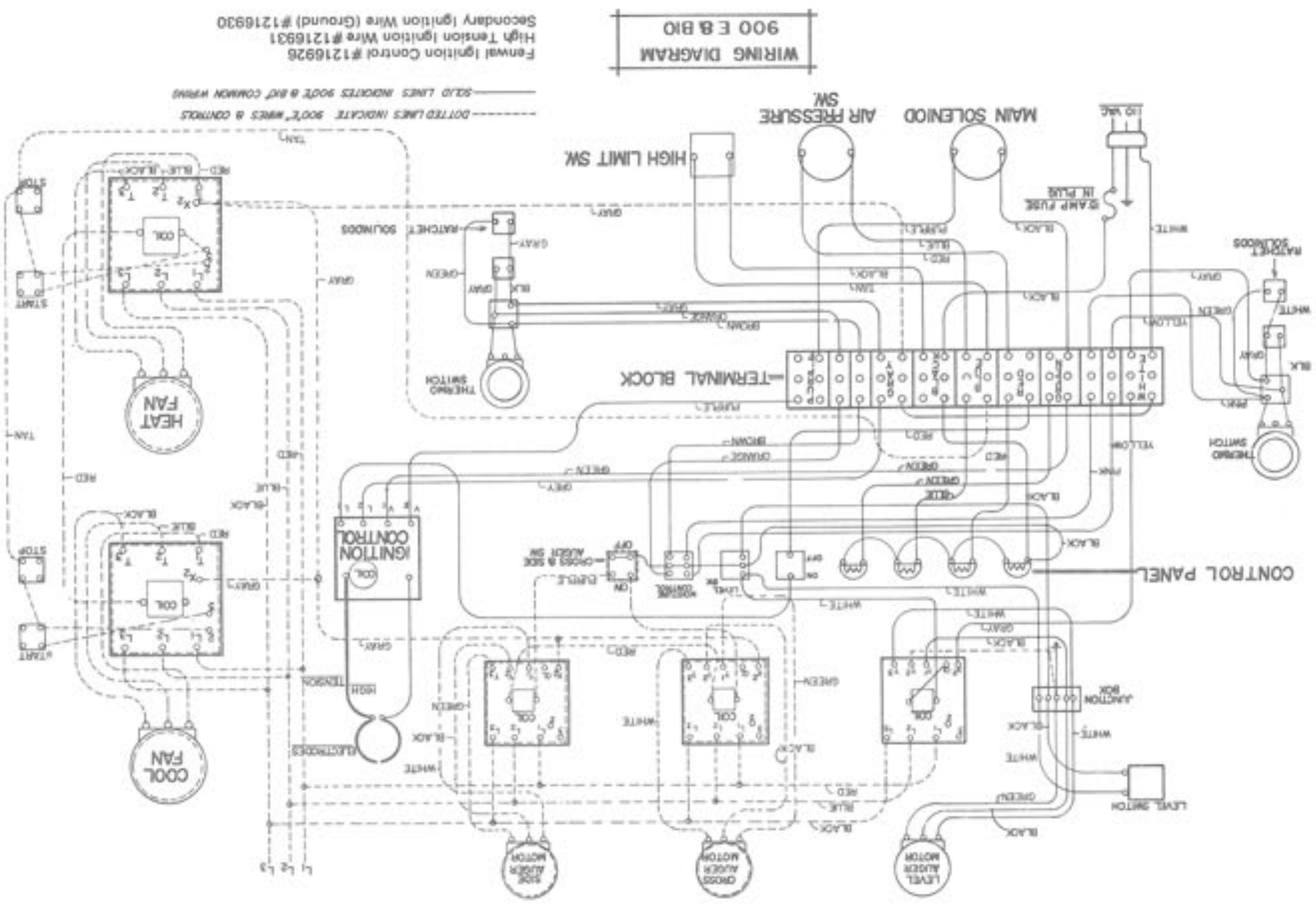
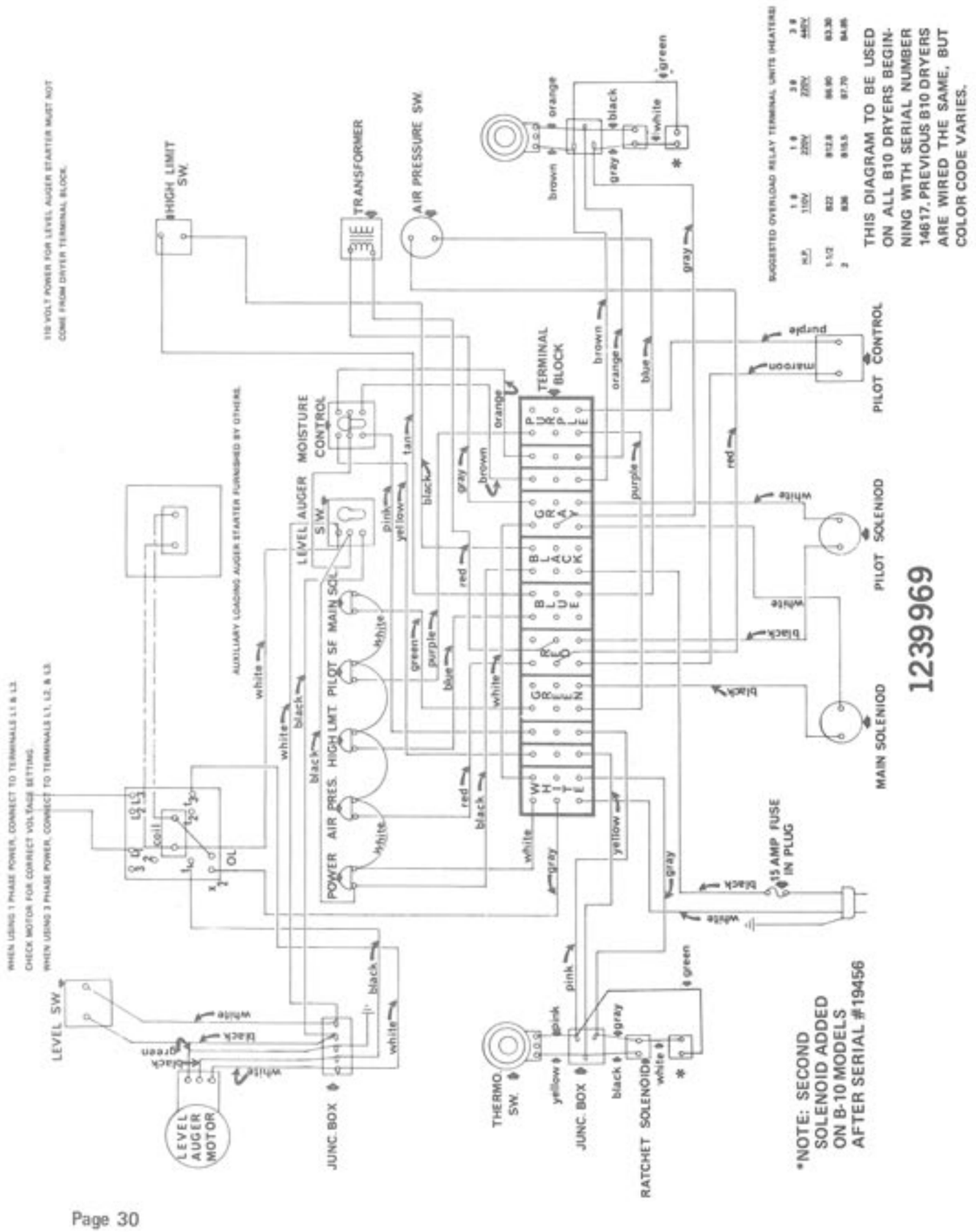
900 WIRING E & B-10
FENWAL IGNITION



STANDARD B-10 WIRING
300, 400, 600, 800



SET UP INSTRUCTIONS

1. Place dryer in a level position
   (A) Permanent Installation:
   Remove pole and wheels and place dryer on concrete slab, or pier, with a plank between concrete and skids.
   (B) For Portable Installation:
   Place planks under full length of skids. Remove wheels, or dig holes for wheels. Full weight of dryer must rest on the dryer skids.
2. Install Double Ratchet Assemblies and Rain Guard. See Page 16
3. Install Variable Drive Arm Assembly See Page 16
4. Install Wet Holding Hopper. See Page 14
5. Install Level Auger See Page 15
6. Install Cross Auger. See Pages 18-19
7. Install Wire Guards and Shields.
8. Connect 3 Phase power – "E" Models Only.
   For Electrical Diagrams See Page 30 & 31
9. Connect Gas Supply to Machine

Advise your LP gas supplier that the dryer takes liquid gas from the tank (Not Vapor). When the gas dealer hooks up the system, have him use the #1217021, Excess Flow Valve, furnished with the dryer. The #1217021, Excess Flow Valve will shut off flow of gas should the line break between tank and dryer. The valve furnished with the dryer will shut off quicker than those normally furnished by the gas supplier.

We provide the valve as an extra safety precaution. Use a minimum of 1/2" ID Tubing between tank and dryer. – On runs over 100 feet use a larger diameter. Connect line from tank to short length of hose on dryer.

For Natural Gas Operation a minimum of 5 lbs. of operating pressure is required on all models.

OPERATING INSTRUCTIONS

1. Turn off all switches on control panel.
2. Turn off Flip Valve, Pilot Hand Valve and Main Hand Valve.
3. Fill dryer with grain.
4. Connect 110V power to plug on control cabinet – Power On Light, and High Limit Switch Light should come on. TROUBLE – SEE PAGE 4
5. Start fans. Air Pressure light should come on. TROUBLE – SEE PAGE 4
6. Open Gas Flip Valve. SEE PAGE 8 THRU 11
7. Open Pilot Hand Valve, Pilot Safety and Main Solenoid Valve lights will come on within 90 seconds. **Omit This Step On Model 900** with Fenwel Ignition. TROUBLE – SEE PAGE 4.
8. Open Main Hand Valve – SLOWLY – (To Prevent Frosting).
   (A) 900 Fenwal Ignition Owners.
   Open Main Hand Valve 1/4 of a turn. Turn Pilot Switch to "On" position. Ignition will take place in approximately 6 seconds. If Not – Turn Switch "Off". Wait 10 seconds and turn back on. If ignition does not take place, See Trouble Shooting. Sec. II
   (B) After ignition, turn Hand Valve slowly to prevent freezing, until completely open.
9. Let machine run temporarily until temperature levels off. Then adjust Modulating Valve to desired temperature.
   Increase Spring Tension to **Increase** temperature. **Decrease Spring Tension** to **Decrease** temperature. If one of the preceding steps does not function properly, refer to Trouble Shooting. Sec. II.
10. Make sure Automatic Moisture Control Switch is in "Off" position. In order to dry all the corn in the upper section, it will require approximately 1 hour of continuous heat to dry the first load from 30% to 12% moisture.

11. The cooling section of the dryer will have wet grain in it, and will not be dried on the first run. This grain will have to be recycled back into the heating section.

12. For safe bin storage, the grain is normally dried to 13% moisture. After 1 hour of drying on the first load, turn moisture control switch to "Manual" position. This will engage Ratchet Solenoids and begin unloading the grain. When grain (In cooling section) has moved through and dried corn begins to auger out, test it for moisture content. If moisture content is too high, slow the unloading down. If moisture content is too low, speed unloading up.

13. To change the speed of unloading, a combination of two adjustments is available.

    (A) By turning variable crank arm **Clockwise** to **Slow Unloading** and **Counter Clockwise** to **Speed Unloading.** This is normally used for fine adjustment.

    CAUTION:

    Run through the complete cycle from fast to slow at least once every day when machine is being operated.

    This will keep all moving parts free. Do not put extreme pressure on belts. Adjust variable speed pulley only when machine is operating.

    (B) The Feed Rolls Can Be Adjusted Independently of the side augers by sliding the "Eccentric Connecting Rod" along the slotted bracket on the eccentric sprocket. The eccentric sprocket is located at the center of the base of the drive end of the dryer. Moving the eccentric connecting rod **towards the center** of the sprocket will **decrease** the stroke and **slow** down the unloading of the feed rolls. Moving it **away** from the **center** of the sprocket will **increase** the stroke and **speed up** the **unloading** of the feed rolls.

    CAUTION:

    Be careful not to run more grain out of the feed rolls than the side augers can carry away! Four teeth is about the maximum adjustment that the augers can handle.

14. After you have your dryer operating properly and drying your grain to the desired moisture content, you are ready to switch it to "Automatic Moisture Control." Refer to the following chart if you are drying shelled corn and set your Moisture Control Dial (located on the sides of your dryer) at the correct number.

APPROXIMATE SETTING FOR SHELLED CORN AND MOST SMALL GRAINS

Thermostat Setting	Set Control Dial At	To Get ——— Percent Moisture
140°	3.5	13 - 14%
180°	4.0	14 - 15%
180°	4.5	13 - 15%
180°	5.0	12 - 13%

Place 3-way switch for moisture control in the "Automatic Position."

When the combined temperatures of the air passing through the grain and the grain temperature are equal to the calibrated setting of the Control Dial, the Ratchet Pawls will engage the Ratchet Wheels and feed grain out of Side Auger. If the moisture is too high, increase the setting of the control one mark at a time until the correct moisture content is reached. Allow ample time between adjustments for the machine to correct itself, suggested time to be 1 hour.

Adjust the grain unloading mechanism to correspond with the rate of feeding of the grain by the automatic moisture control. These adjustments will only be slight if you have had your dryer operating correctly before switching it to "Automatic Moisture Control."

The speed of the Variable Drive should be fast enough to cause the Automatic Moisture Controls to operate intermittently. If the unloading mechanism is working too slowly, then the Moisture Controls will operate constantly and the grain will come out drier than the chart indicates.

15. Your dryer is a continuous flow dryer and it is necessary to hold the grain in the dryer for a period of time when finishing a run. Ratchet Pawls should be disengaged as described in Instruction Note 10. This will give the grain remaining in the dryer time to become dried before the heat is automatically turned off. Allow about 30 minutes of drying time for high moisture grain (30%) and proportionately less for drier grain.

16. If you should accidently get a foreign object in the grain feeding mechanism, shear pin on Sprocket No. 1216401 at lower left side (as you face drive end of dryer) will help to protect the feeding parts from breakage. Replace this pin when necessary. Do not use hardened shear pins.

17. If you have followed the instructions carefully your dryer will operate continuously without watching or adjusting as long as you keep it running and full of grain.

SUPPLEMENT TO DM-70 DRYER MANUAL

FOR ALL MODELS WITH SPOKE BURNERS

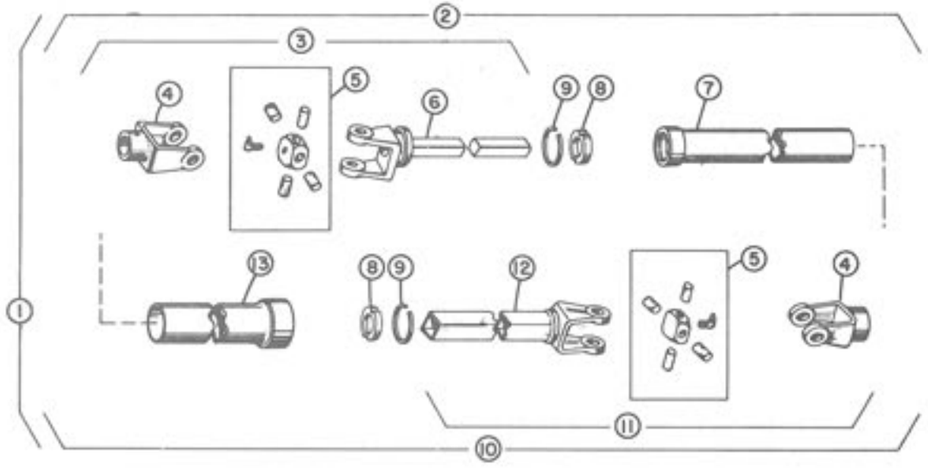
REFER TO OPERATING INSTRUCTIONS PAGE 1.

Step 7 **Omit this step on all models with Spoke Burners. (for identification see page 10)**

Step 8 **Follow parts "A" and "B" of this step for all Spoke Burner models.**
Add part "C" on all LP Fired Spoke Burners.
Adjust the gas pressure to the lowest setting that will maintain drying temperature. Usually this setting is between 3 and 10 lbs.

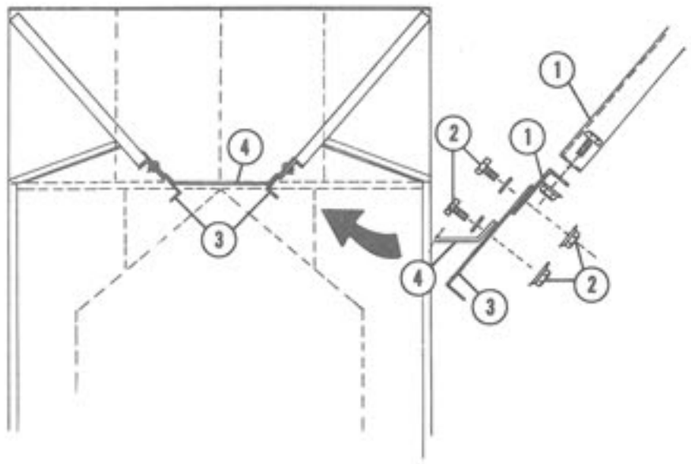
Next **Follow steps 9, 10, etc., as outlined.**

UNLOADING AUGER P.T.O. ASSEMBLY



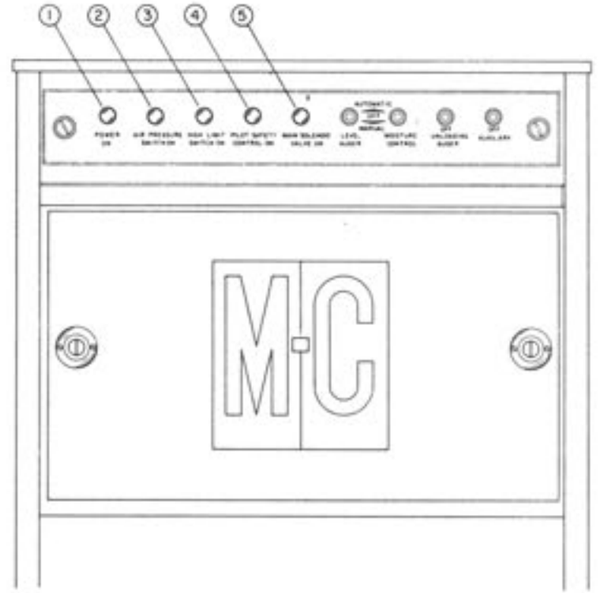
REF.	PART NO.	DESCRIPTION
1	1236601	P.T.O. Shaft Complete
2	1226600	"H" Joint & Shaft Assembly w/Guard
3	1226601	"H" Joint & Shaft
4	1226602	Yoke (3/4" Dia.)
5	1226603	Repair Kit
6	1226604	Yoke & Shaft
7	1226605	Female Guard Assembly
8	1226606	Nylon Bearing
9	1226607	Bearing,Retainer
10	1226608	"H" Joint & Tube Assembly w/Guard
11	1226609	"H" Joint & Tube
12	1226610	Yoke & Tube
13	1226611	Male Guard Assembly

HOPPER BOTTOM EXTENSION



REF.	PART NO.	DESCRIPTION
1		Existing Hopper Parts
2		5/16-18 x 3/4" H.H.C.S.
3	1212705	Hopper Extension 400 - 600 - 800 - 900 Model
	1212704	Hopper Extension 400 Model
4	1212014	Hopper Extension Brace (2 Braces Per 8' Panel)

CONTROL PANEL – ELECTRIC AND GAS CONTROL



The Control Panel consists of temperature and safety controls. There are five lights wired in series with the controls to indicate operation.

Control Lights

No. 1 Lights when electric power is on.

No. 2 Lights when fan is running (air pressure completes circuit to pilot valve letting gas flow to pilot).

No. 3 Lights when high limit control circuit is closed. This indicates the high limit temperature safety device is operating.

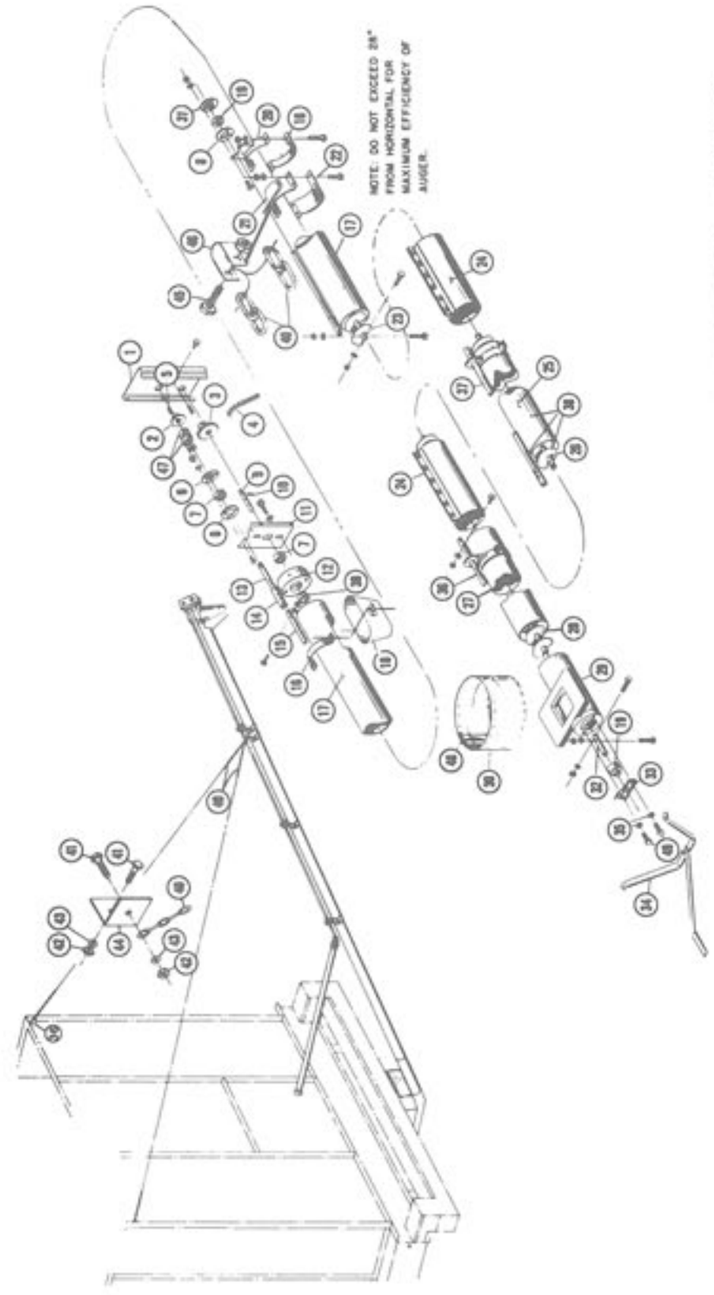
No. 4 Lights in 60 to 90 seconds after flame at pilot tip has heated thermocouple establishing circuit at pilot control.

No. 5 Lights when the temperature control calls for heat.
(900 Only) Fenwal Ignition Switch.

IF YOU HAVE TROUBLE – HERE ARE THINGS TO LOOK FOR!

PROBLEM	POSSIBLE CAUSE & SOLUTIONS
1. Cannot light pilot	1. (a) Broken wire from transformer to spark plug. (b) Electric power is not turned on. (c) Air Pressure Switch is not functioning. (d) High Limit Control (reset) tripped out. (e) Orifice in pilot is plugged. Remove and clean. (f) Check Pilot Solenoid Valve to be sure it is open. Coil may be burned out.
1A. If flame does not light (Fenwal Ignition)	1A. (a) Electrodes not positioned in flame properly. (b) Electric Power not on. (c) 15 AMP fuse in plug, blown. (d) Machine not grounded. Connect 3 prong plug to 110V grounded service. (e) Gas not on. (f) Gas solenoid not opening. (Faulty or loose wire). (g) High Limit Control (reset) tripped out. (h) Air Pressure Switch not functioning. (i) Broken wire from ignition board to electrodes. (j) Ignition board faulty - replace only.
2. Air Pressure Switch not functioning.	2. (a) Dryer must be full of grain to operate. If dryer runs out of grain, the air will escape freely and loss of air pressure causes air pressure switch to open circuit. (b) Air tube from pressure switch into dryer may be filled with chaff.
3. Main Burner will not light.	3. (a) Thermocouple from pilot control is not getting hot enough. Move pilot safety control bulb into flame enough to heat bulb sufficiently and establish contact, or regulate pressure in pilot pressure regulator. (b) You do not have enough gas flow from tank. Check, make sure all valves from tank are fully open. When burner is operating, pressure gauge will indicate flow of gas.
4. Heat shuts off.	4. (a) Dryer has run low on grain. (b) Modulating Valve faulty. (c) High Limit Control tripped out. (d) Solenoid faulty. (e) Out of gas. (f) Faulty or broken electrodes. (Fenwal only).
5. Not enough heat.	5. (a) Valves from tank are not fully open. (b) Increase pressure at pressure regulator. (This is set at factory. However, to increase gas flow, adjust screw at side of pressure regulator). (c) Orifice in main burner partially plugged. Remove and clean. (d) Hand valve not fully open. (e) Adjust Modulating Valve.
6. Gas lines frosting up.	6. (a) When first starting burner, open the Main Hand Valve only partially until the unit becomes warm.
7. Lights do not work.	7. (a) No electricity. Light bulbs burned out. Replace.
8. Electric circuit out of order.	8. (a) Check circuit with wiring diagram furnished with instructions.
9. Automatic Moisture Control does not work.	9. (a) Solenoid is burned out or a wire is broken. Check and make replacement. In the meantime, OPERATE DRYER MANUALLY. (b) Loose or broken wire at solenoid.

UNLOADING AUGER ASSEMBLY



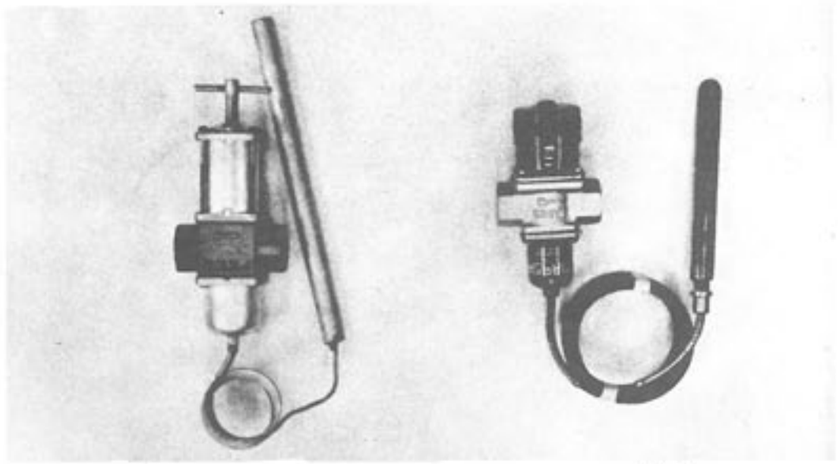
REF.	PART NO.	DESCRIPTION
1	1228956	Chain Cover
2	1228963	Sprocket 1" Bore x 13T #50
3	1228961	Sprocket 1" Bore x 26T #50
4	1228962	Chain, Roller 37 Pitch #50
5		1/4" Square Key x 1" Long
6	1228941	Flangette Ring
7	1228964	Drive Shaft End Bearing with Snap Ring
8	1228970	Top Bearing Retainer Plate
9	1228960	Sprocket Flighting Shaft
10	1228959	5/16 x 1-1/8" Spiral Pin
11	1228965	Drive Shaft End Bearing Bracket
12	1228966	Discharge Cap
13	1228967	Sprocket Drive Shaft
14	1228955	Drive Shaft Coupler
15	1228943	Drive Shaft
16	1228982	1-1/2" Plain Band
17	1228984	Discharge Tube
18	1228983	Discharge Spout
19	1228951	Bottom Drive Shaft Bearing with Lock Collar
20	1228985	Drive Shaft Bearing Bracket
21	1228946	Chain Mounting Bracket
22	1228957	Plain 4" Band
23	1228933	Flighting and Shafting
24	1228944	Connector Sleeve
25	1228932	Intermediate 10' Tube
26	1228933	Flighting and Shafting
27	1228936	Intake Tube
28	1228937	Intake Flighting and Shafting
29	1228947	Boot Section
30	1238996	Connecting Boot
31	1228968	Top Bearing Mounting Ring
32	1228953	Flighting, Idler Assembly
33	1228954	Support Anchor Bearing
34	1230011	Auger Mounting Bracket
35	1228938	1/2" Spring Lock Washer
36	1228936	Drive Shaft 1" x 28"
37	1228934	Intermediate Drive Shaft
38	1238991	10' Intermediate Section – Complete
39	1228958	Spacer Bushing
40	1238992	Hanger Chain 12'
41		3/8-16 x 2" Hex Head Cap Screw
42		3/8 Hex Nut
43		3/8 Flat Washer
44	1232381	Chain Mounting Bracket
45		3/8-16 x 2" Hex Head Cap Screw
46	1233300	Hanger Chain Yoke
47	1228940	10 ga. – 1" ID Bushing
48	1206251	Connecting Boot Spring
49	1228939	1/2-13 x 1-1/4" Hex Head Cap Screw

LP MODULATING VALVES

All "LP" Modulating Valves are either "Penn" or "Marsh" repair elements listed below valve.

Illustration of the two items are visually accurate. When ordering repair parts order by:

1) Manufacturer Name
2) Title Listed
3) Part No.



Penn
Repair Element
#1227002

Marsh
Repair Element
#1227007

FENWAL IGNITION

OPERATION

Upon a call for heat, power is applied to the control board, creating the spark and powering the gas valve. Electronic timing allows the system to continue to spark and hold the gas valve open for a specified trial for ignition period. If a flame is not present at the end of the trial for ignition period, the system will lockout. If a flame is present, the system will continue to operate; provided the electrodes are immersed in the flame.

In the spark source, a capacitor is charged and discharged rapidly through the primary of high voltage transformer. The current to charge the capacitor also energizes the valve control circuit so that as long as this action continues, the valve will remain open. The capacitor is discharged by a solid state switch, triggered by a neon circuit.

The flame detector monitors the spark current and the flame conductance to ground. If the spark of the flame is not present, feedback to the spark source removes power from the valve control circuit.

LOCATION OF ELECTRODE TIP

The electrode assembly should be located so that the tips are inside the flame envelope and about 1/2 inch above the base of the flame. IMPORTANT: Ceramic insulator should not be within or close to the flame pattern. Study the illustrations before positioning the electrodes.

NOTE: Electrode assemblies are precision components and should not be adjusted or disassembled. Electrodes should have a gap spacing of 0.125" $\pm$0.032". If this spacing is not correct, return the electrode assembly to the factory for replacement. Electrodes within their ceramic casing are NOT field adjustable. Adjust only the electrode mounting bracket. WARNING: HIGH VOLTAGE.

SAFETY CHECKS

1. Manually shut off the gas supply and apply power to the control board. The system shall lockout after the trial for ignition period. Check that there is no voltage output between terminals V1 and V2 using a suitable voltmeter or neon tester.

2. Manually open the gas valve and apply power to the control unit. The system shall lockout after the trial for ignition period and there shall be no voltage between terminals V1 and V2 under the following conditions:

(1) The low voltage electrode is shorted to the ground.
(2) The high voltage electrode is shorted to ground.
(3) The electrodes are shorted together.

NOTE

Recycle system before each test.

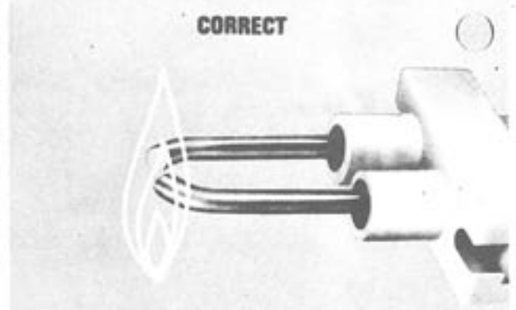
CAUTION

Use well insulated screwdriver for shorting electrodes.

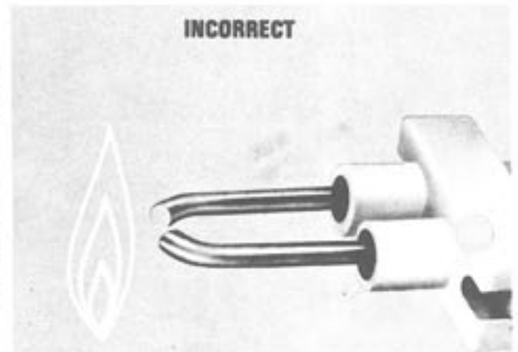
REPAIRS

The Ignition System is not field repairable. Faulty units should be returned to the factory for repair or replacement.

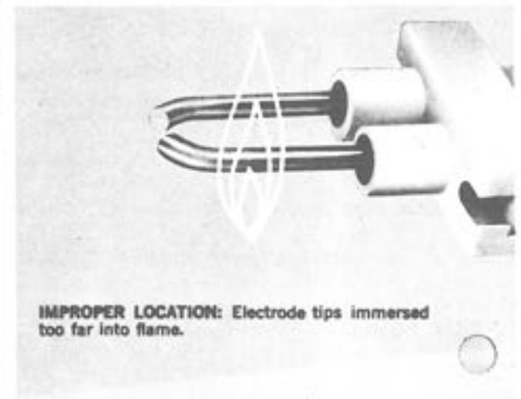
ELECTRODE POSITIONING



PROPER LOCATION: Flame impingement on electrode tips only.



IMPROPER LOCATION: Electrode tips not immersed in flame to proper distance.



IMPROPER LOCATION: Electrode tips immersed too far into flame.

CAUTION: HIGH VOLTAGE

SECTION II

OPERATION OF MACHINES EQUIPPED WITH DOUBLE RATCHETS

1. The Inner Ratchet Pawls will be activated when:
   (A) The Automatic Moisture Control Toggle Switch is in the Manual position (Switch located on control panel).
   (B) When the Automatic Moisture Control Toggle Switch is in the "Automatic" position and the grain is dry enough to activate the "Automatic" Moisture Control Switch (On sides of dryer).
2. The Outer Ratchet Pawls engage only when the Automatic Moisture Control Toggle Switch (On control panel) is in the "Automatic" position.
   NOTE: The Outer Ratchet Pawls are not operated by the Automatic Moisture Control Switch (On sides of dryer)
3. The Inner and Outer Ratchet Pawls are disengaged when the Automatic Moisture Control Toggle Switch is in the "Off" position.
4. The Outer Ratchet Pawls are set to engage one less notch than the Inner Ratchet Pawl (When Inner Ratchet Pawls engage one notch, the Outer Ratchet Pawls engage none).
5. When drying extremely high moisture grain (Approximately 30% and higher) we recommend setting the Inner Ratchet Pawls to engage one notch per stroke.
6. The dryer operates at its best when the Inner Ratchet Pawls operate approximately 90% of the time. This will vary according to weather and grain conditions.
7. The Variable Speed Pulley will increase the speed of unloading by increasing the number of strokes per minute. Moving the crank from "Slow" to "Fast" is approximately equal to increasing the number of notches by one. This enables the operator to get a finer adjustment.
8. When cooling down the dryer, move the Toggle Switch to the "Automatic" position. When the Inner Ratchets disengage, move the Toggle Switch to the "Off" position.

SECTION III

INSTRUCTIONS FOR CHANGING OVER LP TO NATURAL GAS OPERATION

For natural gas operation, a minimum of 5 lbs. of operating pressure is required on all models.

To convert an LP dryer to natural gas operation, it is advisable to purchase the complete pipe and control assembly within the cabinet. [The valves are larger, and 1-¼" I. D. pipe is used to assure an adequate flow of gas.] However, if natural gas line pressure is 20 lbs or more, it may be possible to operate efficiently with LP piping and controls, by removing the 1217004 pressure regulator.

The main burner orifice is ¼" in diameter on LP units, and ⅜" on natural gas models. The pilot orifice holes on both natural and LP models are the same.

A list of required parts for conversion is shown on pages 8 and 9.

LUBRICATION

All bearings on the grain augers are pre-lubricated and require no further attention. The bearing on the fan shaft of the dryers should be lubricated with regular gun grease every 100 hours of operation. DO NOT OVER GREASE.

One or two shots are sufficient. Caution: Excess greasing blows out seals. All other parts - ratchets, ratchet drive and chains, should be oiled with number 10 oil. When you stop using the dryer, grease and oil all parts.

Care should be taken to avoid getting oil into the ratchet pawl solenoids.

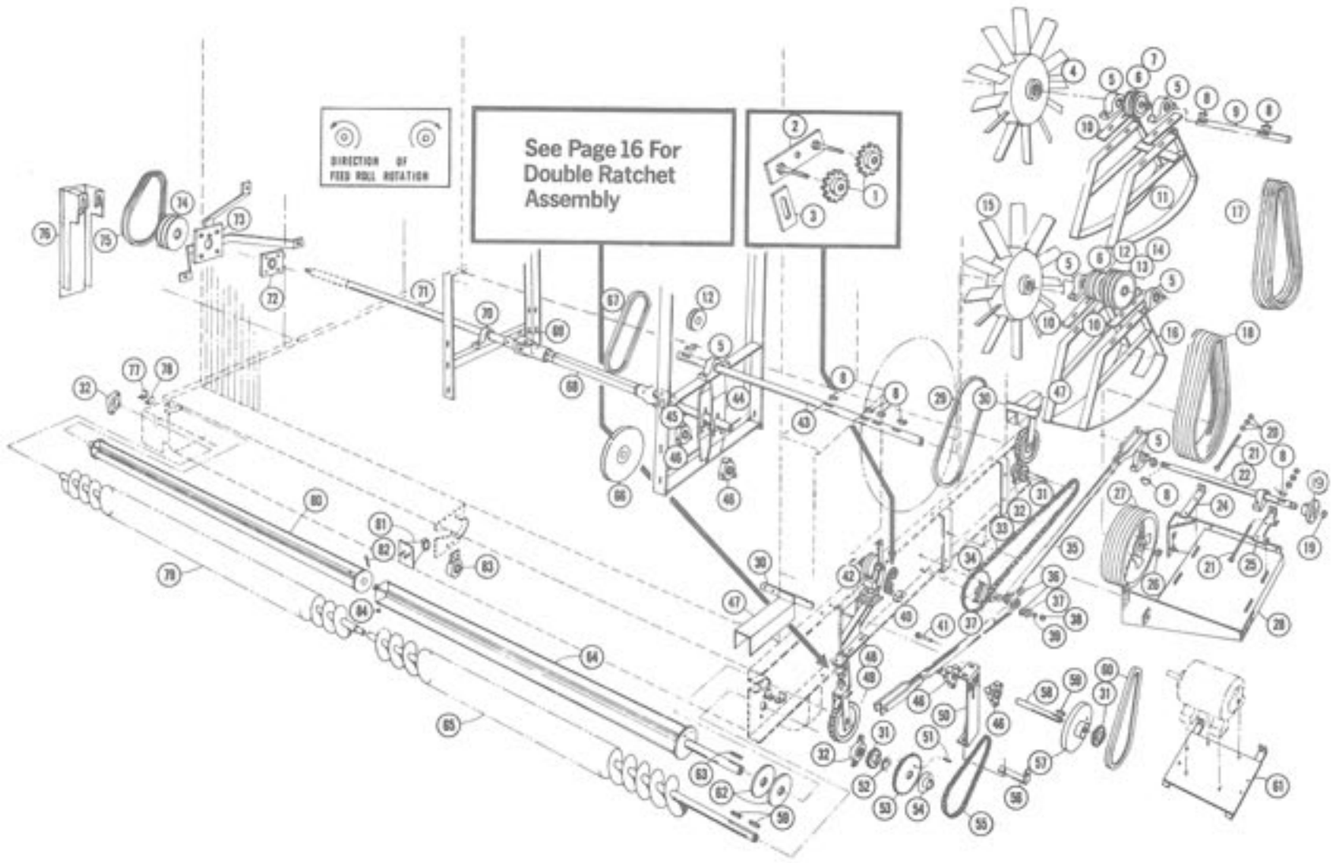
REF.	PART NO.	DESCRIPTION
1	1216403	Idler Chain Sprocket 3/4" Bore
2	1210079	Chain Idler Weldment
3	1213428	Idler Sprocket Holder
4	1210271	Heat Fan Weldment 600E, 600B-10 - 800E - 800B-10
5	1216003	1-5/8" Pillow Block Bearing
6	1206217	4/3V5.0 V-Pulley 4-Groove
7	1206220	SDS Bushing 1-5/8"
8	0018898	Woodruff Key 3/8 x 1-1/4"
9	1215073	Heat Fan Shaft
10	1214864	Thin Bearing Shim
	1253413	Thick Bearing Shim
11	1210256	Heat Fan Bearing Pedestal Weldment
12	1206218	Pulley 4.4 x 1-5/8" Bore
13	1206215	3V5.9 Pulley 8-Groove 300 - 400 - 600 - 800
	1216234	3V6.0 Pulley 8-Groove 900's
14	1206216	SK 1-5/8" Bushing
15	1210272	Cool Fan Weldment 300 - 400B-10 - 400E - 600B-10 - 600E
	1210271	Cool Fan Weldment 800E - 800B-10 900E - 900B-10
16	1210257	Cool Fan Bearing Pedestal Weldment
17	1216114	3V1120 Power Band Belt 4-Groove
18	1216113	3V1000 Power Band Belt 8-Groove
	1236104	BE-10 Models 3V-800 Power Band Belt 8-Groove
19	0018250	Snap Ring
20		1/2-13 Hex Nut
21	1208160	Jack Shaft Adjusting Screw
22	1215082	1-5/8" Jack Shaft
23	0017650	Shear Flange
24	1213550	Bearing Mount Adjusting Bar
25	1210261	P.T.O. Mounting Bracket
26	1216226	1-5/8" "E" Type Bushing
27	1216225	B-10 Models Jackshaft Base Pulley B-E Models See Pulley Chart
28	1210262	Jack Shaft Base
29	1216104	B-61 V-Belt

REF.	PART NO.	DESCRIPTION
30	1212057	Lower Front Fan Guard - Hanger
31	1206400	16T Sprocket 1-1/4" Bore
32	1206000	2-Bolt Flange Bearing 1-1/4" Bore
33	1216300	RC40 x 189" Chain
34	1211079	Eccentric Sprocket Assembly
35	1210009	Connecting Arm Weldment
36	0018267	Special 1/2" Flat Washer
37		1/2" Flat Washer
38		1/2" Hex Nut
39		1/2" Lock Washer
40	1215703	Chain Tightener
41		1/2-13 x 2-1/2" Carriage Bolt
42	1216600	Variable Speed Assembly – See Page –
43	1215072	Cool Fan Shaft
44	1210137	Drive Shaft Bearing Bracket Weldment (2 per 900)
45	1215048	Inner Idler Shaft
	1215058	Universal Connecting Shaft (Add With 900)
46	0016016	1-1/4" 3-Bolt Flange Bearing
47	1210038	Solenoid Cover Weldment (Single Ratchet)
	1211122	Solenoid Cover Weldment (Double Ratchet)
48	1216404	Variable Drive Mount Weldment
49	1213370	Ratchet Wheel
50		Idler Shaft Mounting Bracket
51		Cotter Key
52	1218974	1-1/4" Lock Collar
53	1216401	Sheer Sprocket 1-1/4" Bore 48T
54	1218975	Sheer Flange
55	1218976	RC40 x 42" Roller Chain
56	1213443	Wire Guard Bracket – Front
57	1216228	12" O.D. x 1-1/4" Bore Pulley
58	1215041	Front Idler & Feed Roll Shaft
59		1/4" Sq. x 1-1/2" Key
60	1216115	B-51 V-Belt
61	1230016	Electric Motor Base Weldment
62	1214438	Feed Roll End Washer
63		1/4" x 1-1/4" Key
64	1211080	Front Feed Roll 600 - 800 & 900
	1211084	Feed Roll Front Section 400
	1211081	Feed Roll Front Section 300
	1211083	*These Parts Exclusive of 900 ONLY: Feed Roll Center Section 900 ONLY
	1210232	Side Auger Center Section 900 ONLY
	1215058	Universal Connecting Shaft 900
	1216403	Idler Chain Sprocket 3/4" Bore
	1210079	Chain Idler Weldment
	1213428	Idler Sprocket Holder
	1210271	Heat Fan Weldment 600E, 600B-10 - 800E - 800B-10
1	1216003	1-5/8" Pillow Block Bearing
2	1206217	4/3V5.0 V-Pulley 4-Groove
3	1206220	SDS Bushing 1-5/8"
4	0018898	Woodruff Key 3/8 x 1-1/4"
5	1215073	Heat Fan Shaft
6	1214864	Thin Bearing Shim
7	1253413	Thick Bearing Shim
8	1210256	Heat Fan Bearing Pedestal Weldment
9	1206218	Pulley 4.4 x 1-5/8" Bore
10	1206215	3V5.9 Pulley 8-Groove 300 - 400 - 600 - 800
	1216234	3V6.0 Pulley 8-Groove 900's
11	1206216	SK 1-5/8" Bushing
12	1210272	Cool Fan Weldment 300 - 400B-10 - 400E - 600B-10 - 600E
	1210271	Cool Fan Weldment 800E - 800B-10 900E - 900B-10
13	1210257	Cool Fan Bearing Pedestal Weldment
14	1216114	3V1120 Power Band Belt 4-Groove
15	1216113	3V1000 Power Band Belt 8-Groove
	1236104	BE-10 Models 3V-800 Power Band Belt 8-Groove
16	0018250	Snap Ring
17		1/2-13 Hex Nut
18	1208160	Jack Shaft Adjusting Screw
19	1215082	1-5/8" Jack Shaft
20	0017650	Shear Flange
21	1213550	Bearing Mount Adjusting Bar
22	1210261	P.T.O. Mounting Bracket
23	1216226	1-5/8" "E" Type Bushing
24	1216225	B-10 Models Jackshaft Base Pulley B-E Models See Pulley Chart
25	1210262	Jack Shaft Base
26	1216104	B-61 V-Belt

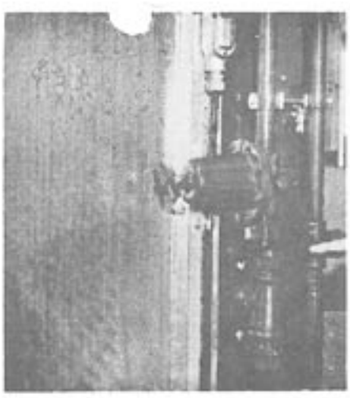
DUAL IDLER ASSEMBLY

REF.	PART NO.	DESCRIPTION
1	1210298	Dual Idler Weldment
2		5/8-11 Hex Nut
3	1213345	Idler Pulley Adjusting Bracket
4	1216231	Flat Back Idler with Bearing & Bushing
5		5/8-11 x 3-1/4" Hex Head Cap Screw
6		5/8-11 x 3-1/2" Hex Head Cap Screw
7		5/8 Lock Washer
8		1/2-13 Hex Nut
9		1/2-13 x 4-1/2" Hex Head Cap Screw – FT
10	1217600	Bushing – Idler Pulley
11		5/8 Flat Washer

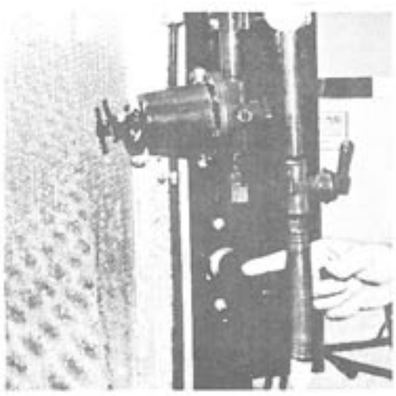
MAIN DRIVE ASSEMBLY "B-10" MODELS



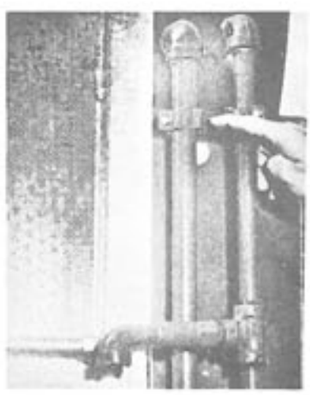
MAIN DRIVE ASSEMBLY-B10 MODELS



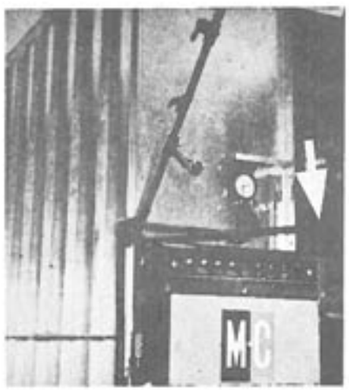
1 -- Begin at LP gas line on outside of control cabinet. Separate union below pressure regulator and remove "T" from vapor line.



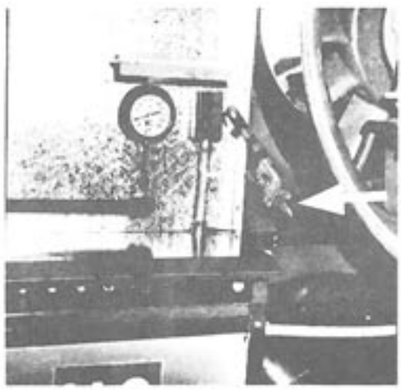
2 -- "T" is now removed from vapor line. At this location, the natural gas line is later connected.



3 -- Remove pipe clamps from vapor line.



4 -- Remove liquid line by twisting it forward and upward, making sure the line turns out of the elbow at the fan housing weldment (arrow).

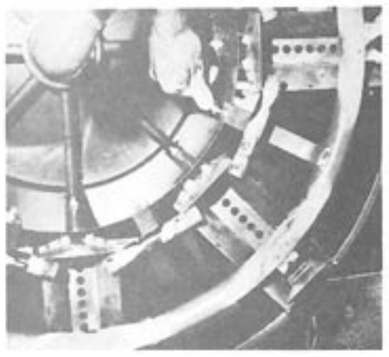


5 -- Remove elbow and liquid line pipe entering fan housing weldment (arrow) at the same time. Do not take elbow off pipe.

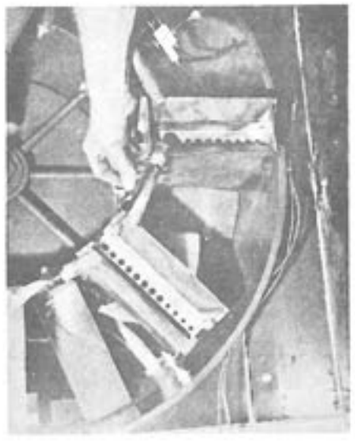
6 -- First step inside dryer is loosen and separate union on vapor line.

9 -- Remove vaporizer ring by passing it through disconnected union on main burner line.

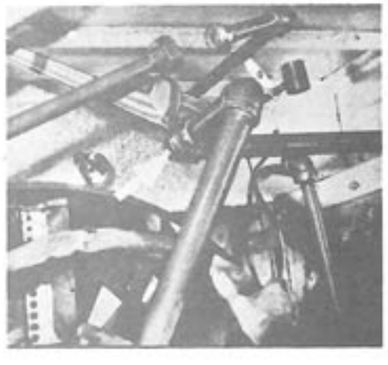
12 -- Reconnect union (arrow) on main burner line.



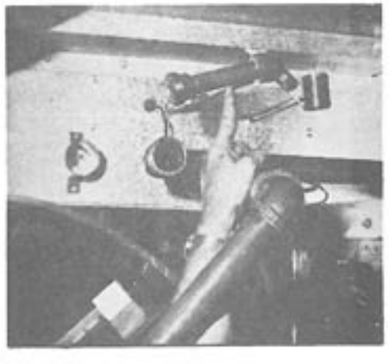
8 -- Remove bolts from mountings of vaporizer ring and set aside ignition tube weldments.



11 -- Reassemble ignition tube weldments. Be sure each end is inside lips on adjoining burner weldments.

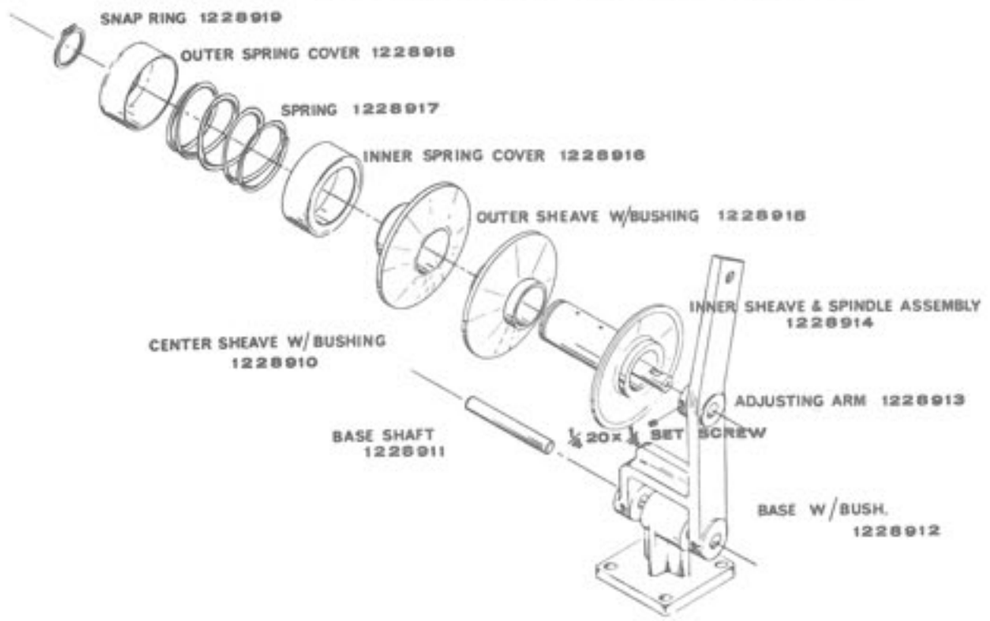


7 -- Loosen and separate union (arrow) on main burner line.



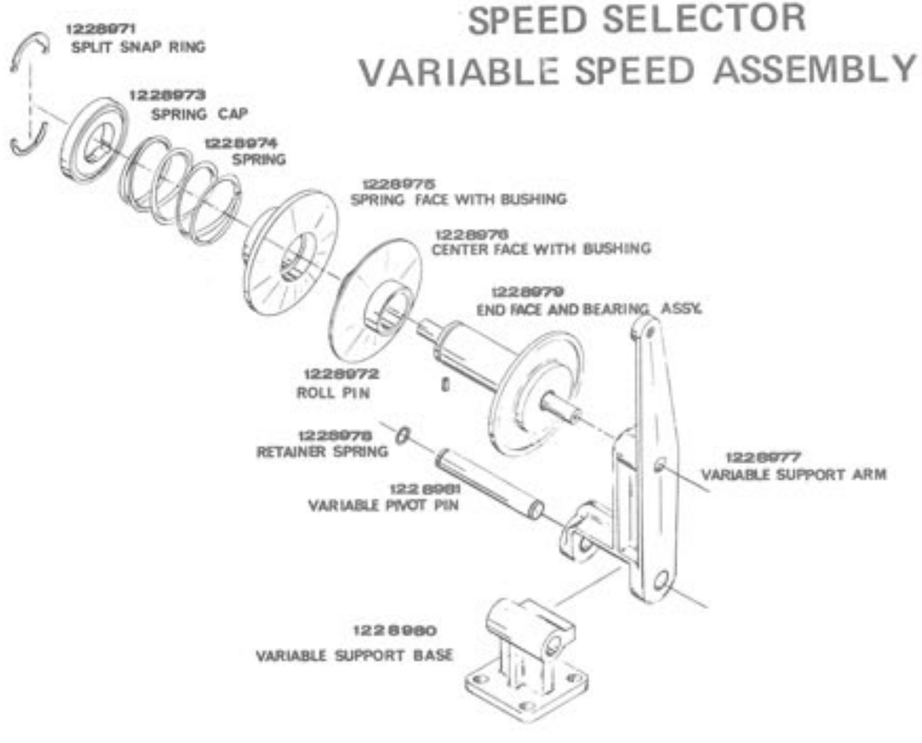
10 -- Remove nipple and elbow on vapor line and, outside, remove remainder of vapor line. Plug openings left by removal of two nes.

MAUREY VARIABLE SPEED ASSEMBLY

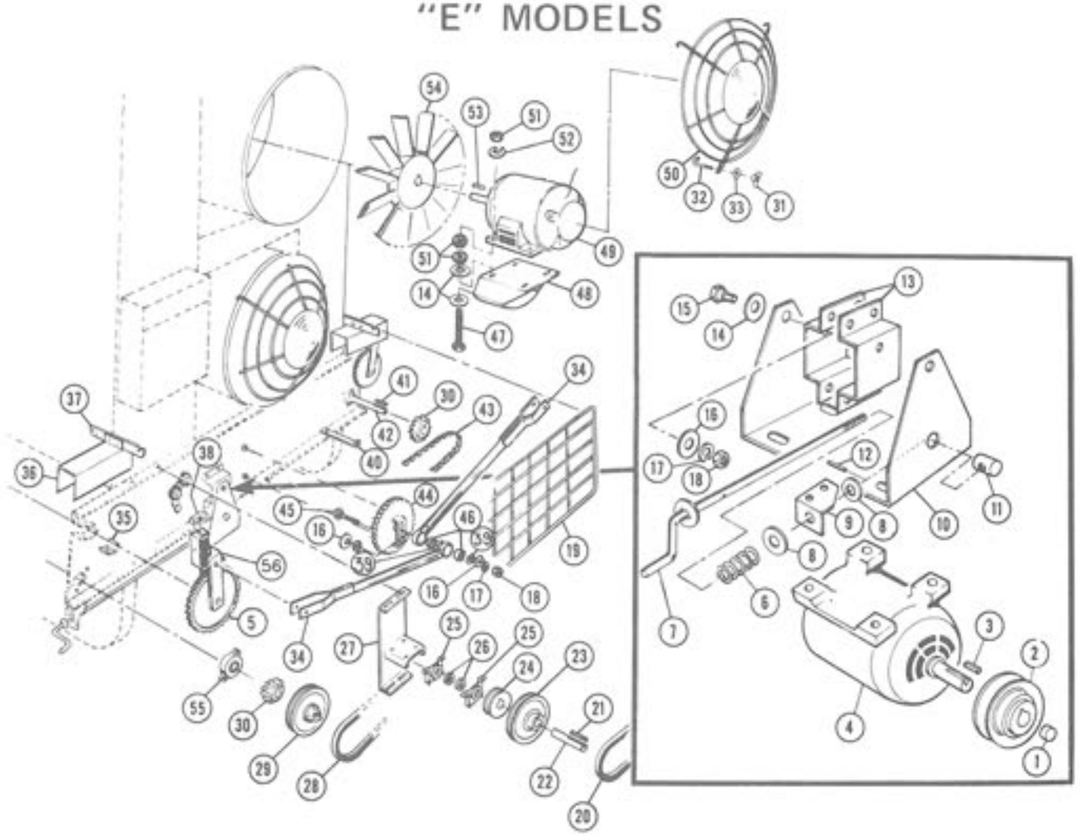


All B10 Models have been manufactured with either a Speed Selector or a Maurey Variable Speed Assembly.

SPEED SELECTOR VARIABLE SPEED ASSEMBLY



FAN & DRIVE ASSEMBLY "E" MODELS



REF.	PART NO.	DESCRIPTION
1	1215186	5/8" x 1-5/8" Variable Speed Pulley Plug
2	1216209	Springloaded Pulley x 5/8 Bore
3		3/16 x 1-3/8" Key
4	1216845	1-1/2 HP 3ϕ Electric Motor
5	1216404	Ratchet Wheel M-C 312
6	1218259	Compression Spring
7	1210011	Variable Crank Weld.
8		5/8" Flat Washer
9	1214432	Variable Drive Crank Bracket
10	1210002	Motor Hanger Weldment
11	1215000	Variable Drive Crank Pivot Nut
12	1218102	1/4" x 1-1/2" Roll Pin
13	1214431	Variable Drive Motor Mount
14		3/4" Flat Washer
15	0018163	Shoulder Bolt 1/2-13 x 1-1/4" Lg.
16		1/2" Flat Washer
17		1/2" Lock Washer
18		1/2-13 Hex Nut
19	1210106	Front End Guard
20	1216116	B 71 V-Belt Super Aggie
21		1/4 x 2-3/4" Key
22	1215020	Variable Jackshaft
23	1216230	16" O.D. Pulley x 1" Bore
24	0006201	4.4" O.D. x 1" Bore Pulley
25	0006003	Pillow Block Bearing 1" Bore
26	0006004	Eccentric Lock Collar for 1" Bearing
27	1210004	Variable Jackshaft Mount Weld.
28	1216107	V-Belt 5L470
29	1216212	10" O.D. Pulley x 1-1/4" Bore
30	1206400	Sprocket RC-40 x 16T x 1-1/4" Bore
31		5/16-18 Wing Nut
32	1218255	5/16-18 x 1-1/2 "J" Bolt
33		5/16 Flat Washer
34	1210009	Connecting Arm Weld.
35	1213321	Feed Roll Retainer
36	1210038	Solenoid Cover Weld.
37	1212057	Lower Front Guard Hanger
38	1215703	Chain Tightener
39	0018257	Special 1/2" Flat Washer
40	1213443	Wire Guard Bracket – Front
41	0015116	1/4" x 1" Key
42	1210053	Side Auger Front Section Weld.
43	1216300	Chain RC-40 x 189" Long Including Offset and Spring Clip Slip Fit Connecting Link 378 Pitch
44	1211079	Eccentric Sprocket & Mount Assembly
45		1/2-13 Carriage Bolt – Full Thread
46	1216001	Bearing 1-1/4" O.D. x 1/2" I.D.
47		3/4-10 x 4-1/2" HHCS Full Thread
48	1210258	Motor Mount Weld.
49	1216881	20 HP 3ϕ 256 "T" Frame Motor
	1216882	15 HP 3ϕ 254 "T" Frame Motor
50	1210109	Fan Guard Weldment
51		3/4-10 Hex Nut
52		3/4 Lock Washer
53		3/8" x 3-3/4" Key
54	1210271	Fan Weldment Heating Section: 600E, 800E, 1600, 900E
	1210272	Fan Weldment Heating Section: 400E
	1210271	Fan Weldment Cooling Section: 800E, 1600, 900E
	1210272	Fan Weldment Cooling Section: 600E, 400E
55	1206000	1-1/4" 2-Bolt Flange Bearing
56	1210036	Ratchet Guide Arm Weld.
	1210326	Double Ratchet Arm Weld.

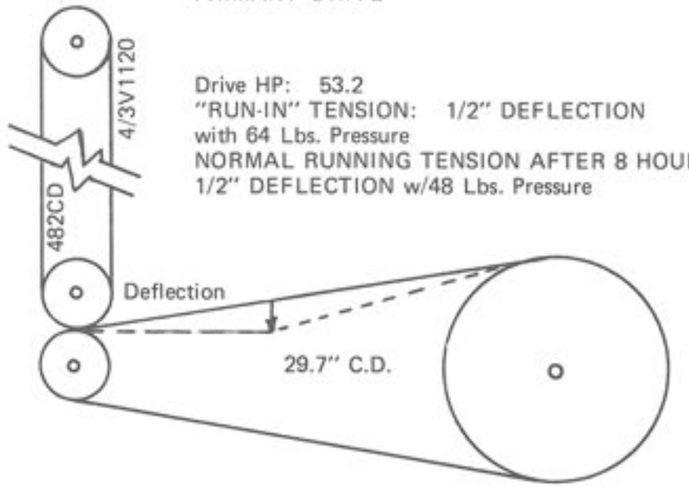
DIRECTIONS FOR TENSIONING BELT

SECONDARY DRIVE

Drive HP: 20.6
"RUN-IN" TENSION: 3/4" DEFLECTION with 32 Lbs. Pressure
NORMAL RUNNING TENSION AFTER 8 HOURS: 3/4" DEFLECTION with 24 Lbs. Pressure

PRIMARY DRIVE

Drive HP: 53.2
"RUN-IN" TENSION: 1/2" DEFLECTION with 64 Lbs. Pressure
NORMAL RUNNING TENSION AFTER 8 HOURS: 1/2" DEFLECTION w/48 Lbs. Pressure



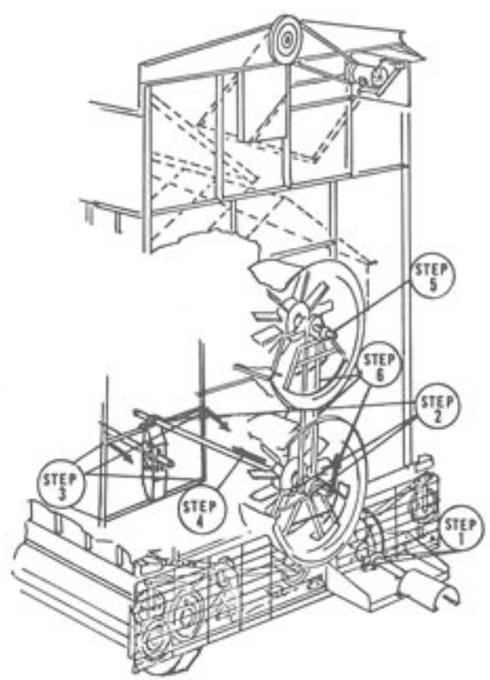
INSTRUCTIONS FOR REPLACING POWERBAND BELT

NOTE:

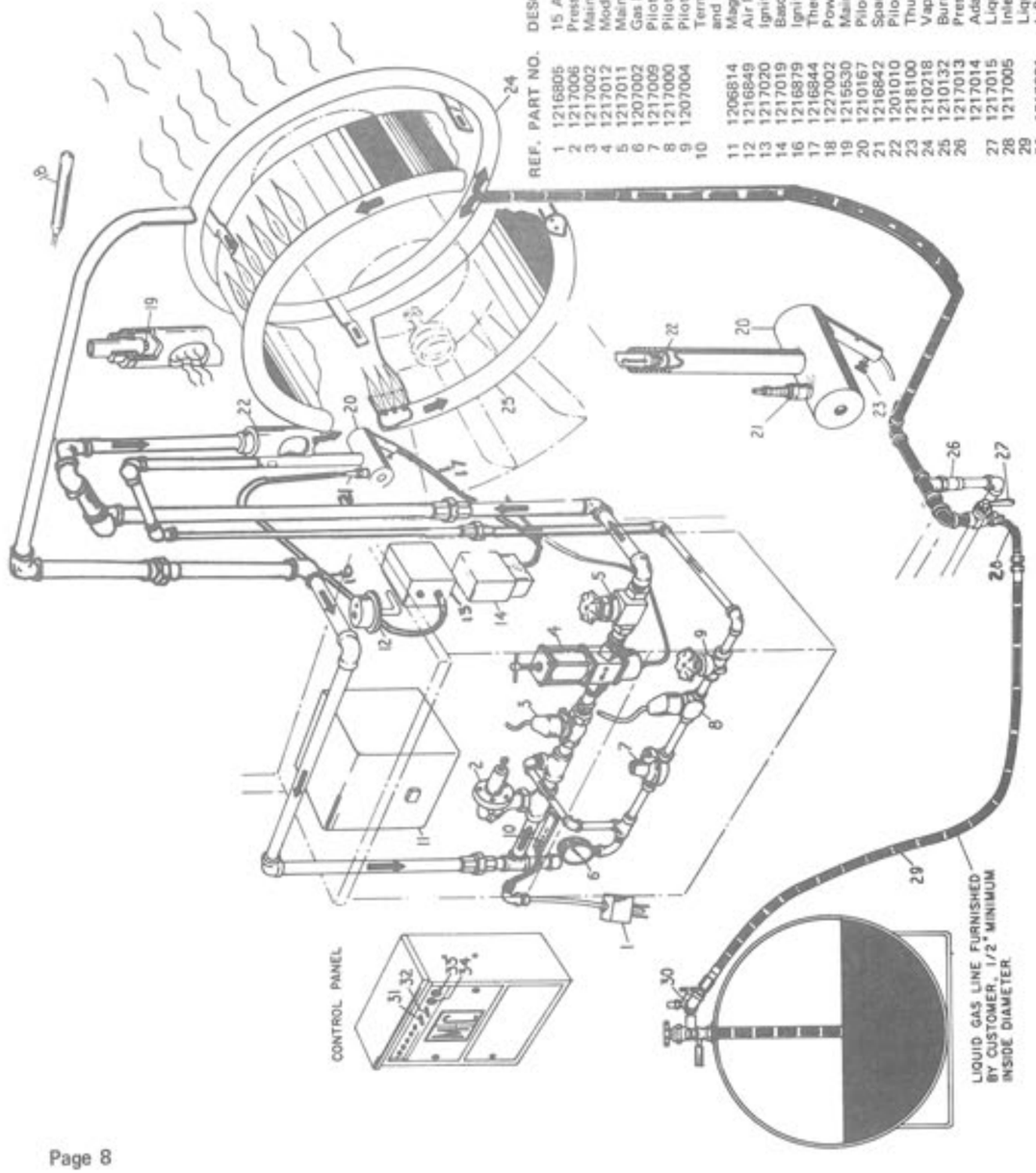
Under no circumstances should the Powerband belts be forced onto a pulley with a screwdriver or other prying device. Follow the instructions carefully.

INSTRUCTIONS

1. Loosen bolts on Jackshaft Bearings. Remove belt from Driven Pulley.
2. Remove 4 Bolts from Fan Shaft Bearings. Leave Bearings on Shaft.
3. Remove 4 Bolts holding Drive Shaft Bearing Bracket in place, and tip forward.
4. Slide the entire Assembly into Cooling Chamber while removing belt to upper fan.
5. Remove Bolts and Shims from Front Bearing on Heat Fan Shaft. Remove Bearing. Put new 3V1120 Belt in place. Replace Bearing and Wait until Step #7 to insert Shims and to Tighten Bolts.
6. Bring Belt down through Holes in Orifice Rings and place on Cool Fan Pulley by tilting Assembly upward. Replace Wide Belt from Jackshaft to Cool Fan.
7. Replace ALL Bolts and Shims; Align Drive and Tighten Bolts.

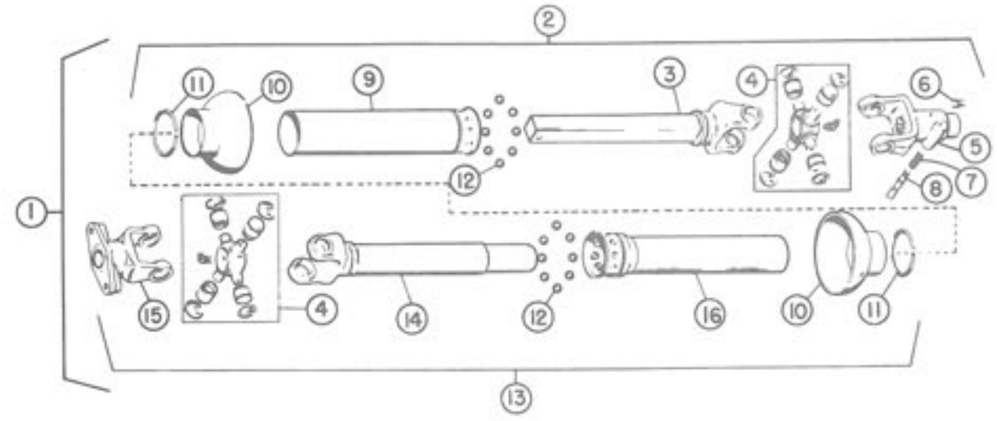


GAS FLOW & CONTROL
LP Gas System
3/4" Piping



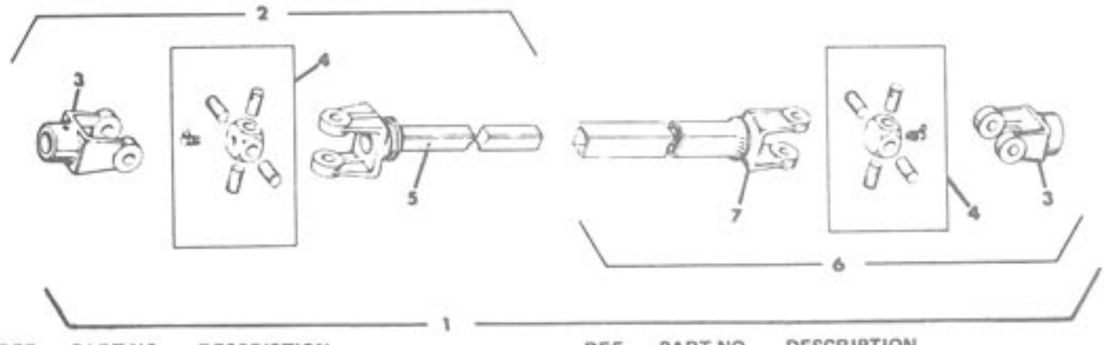
REF.	PART NO.	DESCRIPTION
1	1216805	15 Amp. Fuse Only
2	1217006	Pressure Regulator (L.P. Only)
3	1217002	Main Solenoid Valve L.P.
4	1217012	Modulating Valve L.P.
5	1217011	Main Gas Hand Valve
6	1207002	Gas Pressure Dial Gauge
7	1217009	Pilot Gas Pressure Regulator
8	1217000	Pilot Solenoid Valve
9	1207004	Pilot Hand Valve
10		Terminal Blocks (Order by Color and No. of Holes, 3 or 6)
11	1206814	Magnetic Starter for L.S. 1 or 3 Phase
12	1216849	Air Pressure Switch
13	1217020	Ignition Transformer
14	1217019	Baso Safety Pilot Control
16	1216879	Ignition Wire B-10 & "E" Models
17	1216844	Thermocouple Lead Wire 60"
18	1227002	Power Element R/P for 1217012
19	1215530	Main Burner Orifice L.P.
20	1210167	Pilot Burner Weld.
21	1216842	Spark Plug
22	1201010	Pilot Orifice Assembly
23	1218100	Thumb Screw for Holding Thermocouple Bulb
24	1210218	Vaporizer Ring Weld.
25	1210132	Burner Weld.
26	1217013	Pressure Relief Valve
	1217014	Adapter
27	1217015	Liquid Line Hand Shut-Off Valve
28	1217005	Inlet Hose
29		Liquid Gas Line (Furnished by Customer)
30	1217021	L.P. Gas Tank Valve (Excess Flow)
31	1216806	3-Way Toggle Switch (Level Auger)
32	1216807	Toggle Switch (A.M.C.)
33	1216806	Auxiliary Switch (Optional)
34	1216806	Unloading Auger Switch (Optional)

TRACTOR PTO ASSEMBLY
NUMBER 0016600



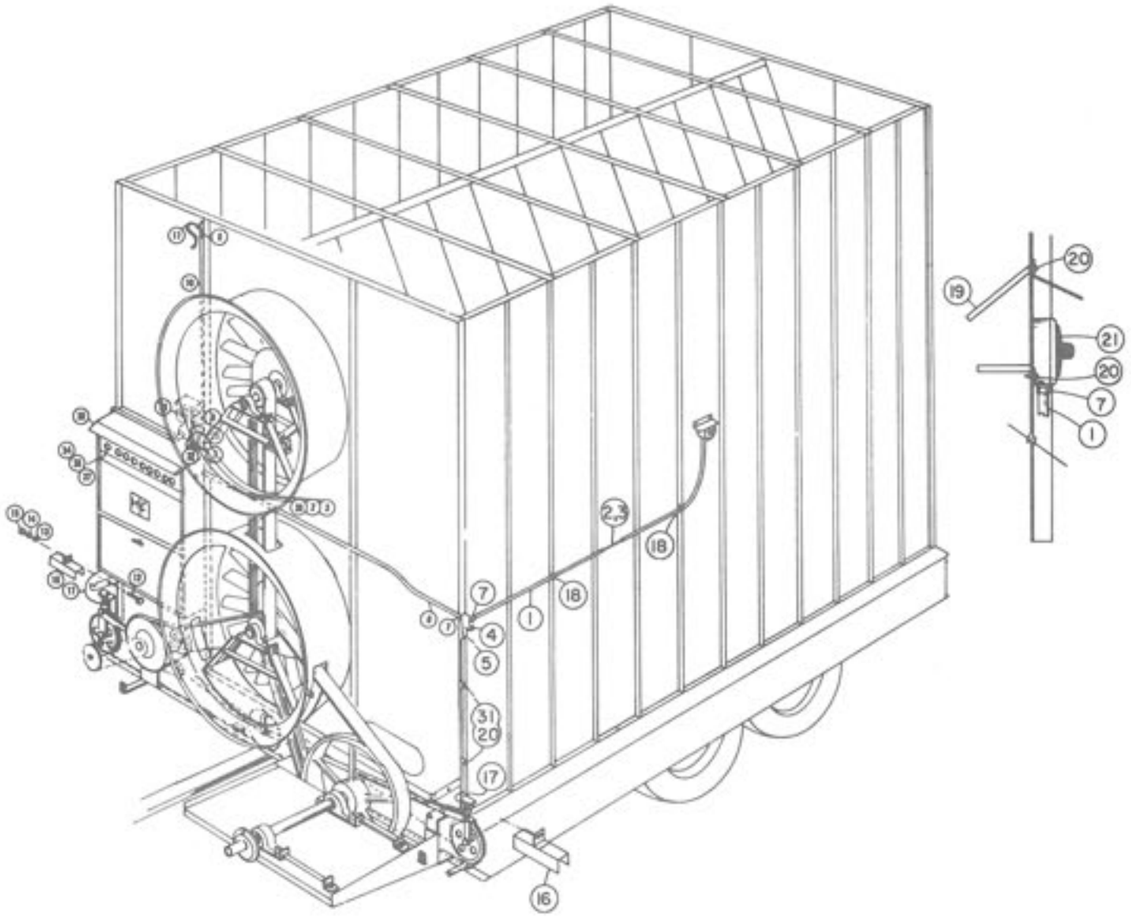
REF.	PART NO.	DESCRIPTION
1	0016600	PTO Drive Shaft
2	0026620	Tractor Half Assembly W/O.D. Yoke
3	0026627	Male Shaft & Yoke Weldment
4	0026628	Universal Joint Center
5	0027651	Quick Detachable Yoke, Only
6	0026603	"X" Washer, Locking Pin
7	0026602	Spring Locking Pin
8	0026601	Locking Pin, O.D. Yoke
9	0026624	Female Guard Tube
10	0026626	Bell Shield
11	0026625	External Snap Ring Retaining Ring 2-3/4 Shaft
12	0026606	3/8" Diameter Ball
13	0026621	Machine Half of PTO Complete W/Shear Flange
14	0026622	Female Shaft & Yoke Weld.
15	0027652	Flange Yoke 1-1/4" Bore
16	0026623	Male Guard Tube

UNIVERSAL JOINT AND
TELESCOPING SHAFT ASSEMBLY



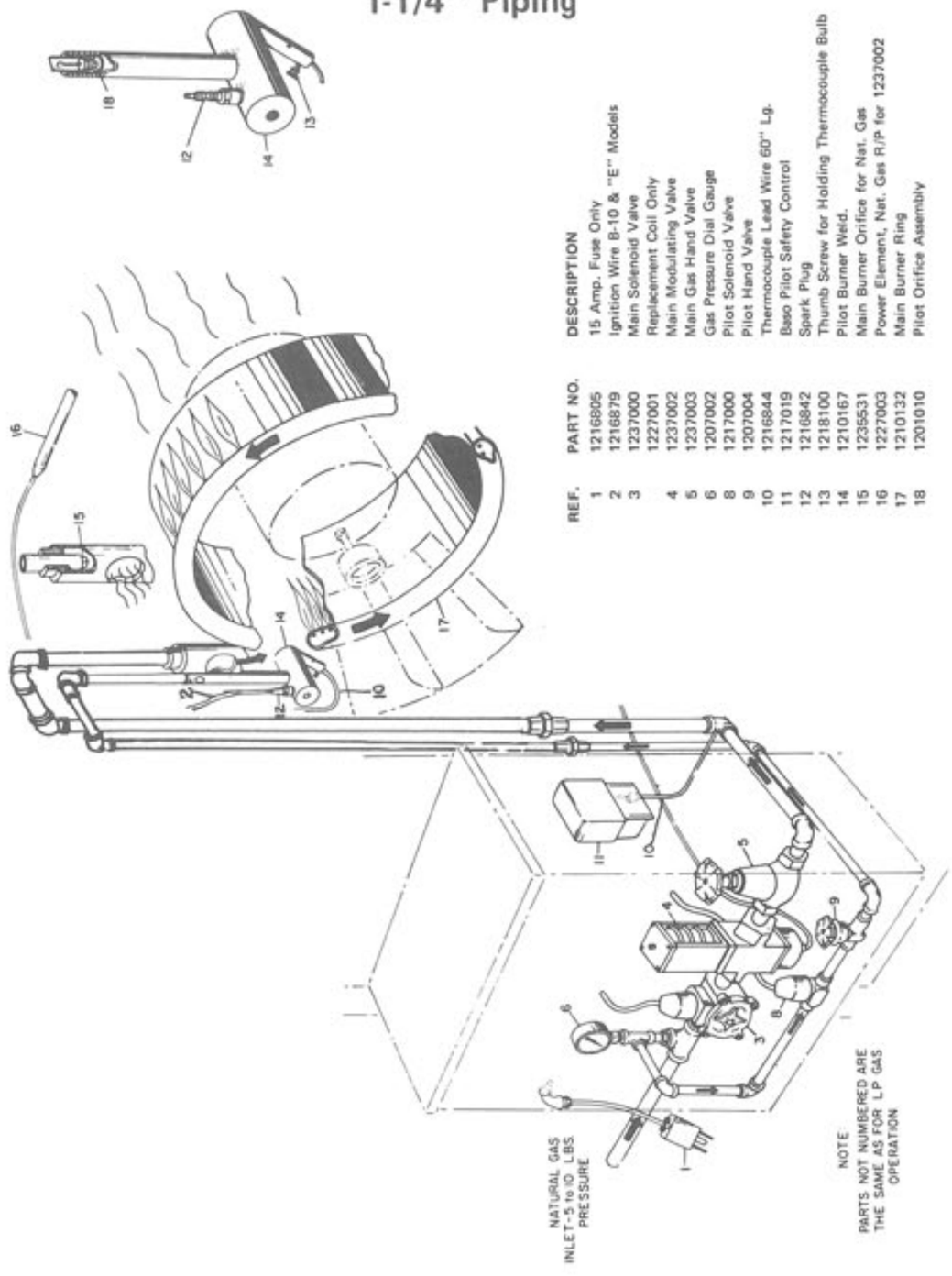
REF.	PART NO.	DESCRIPTION
1	1216603	300810; 400810 Universal Joint & Telescoping Assembly
	1216604	600810; 800810; 900810 Universal Joint & Telescoping Assembly
2	1226614	"W" Joint & Shaft Assembly
3	1226615	Yoke (Universal Joint)
4	1226603	"H" Repair Kit
5	1226617	"W" Yoke and Shaft
6	1226618	"W" Joint and Tube Assembly 300810; 400810; 900810
	1226616	"W" Joint and Tube Assembly 600810; 800810; 900810
7	1226619	300810; 400810; 900810 "W" Yoke and Tube (Repair parts for 1216603)
	1226620	600810; 800810; 900810 "W" Yoke and Tube (Repair parts for 1216604).

AUTOMATIC MOISTURE CONTROL ASSEMBLY



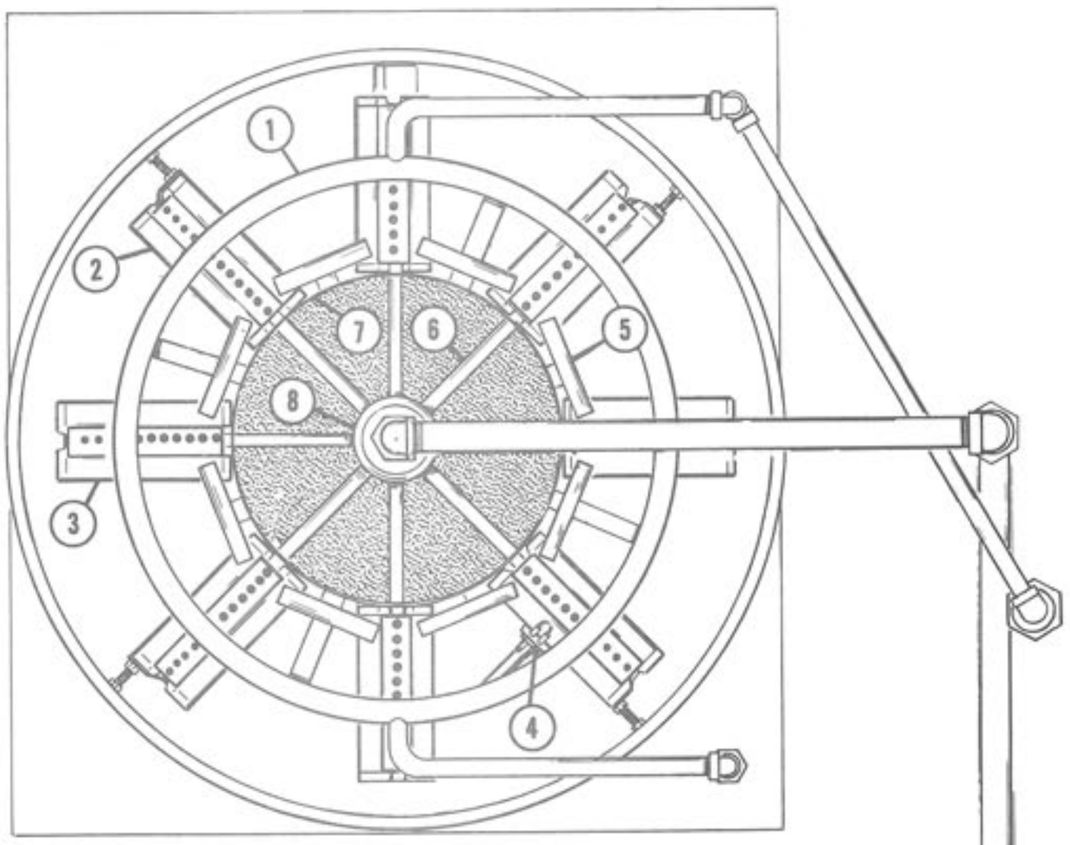
REF.	PART NO.	DESCRIPTION
1		1/2" Conduit 104" Lg.
2		#18 Elec. Wire - Pink 104" Lg. (Rt. Side)
2		#18 Elec. Wire - Brown 104" Lg. (Lt. Side)
3		#18 Elec. Wire - Yellow 104" Lg. (Rt. Side)
3		#18 Elec. Wire - Orange 104" Lg. (Lt. Side)
4	1216801	1/2" Condulet Fitting -Lt.
5	1216855	3/8" Flex. Conduit Conn.
6		1/2" Conduit 75" Lg.
7	1206808	1/2" Straight Conduit Conn.
8	1216883	1/2" Killarc Box "T"
9	1217018	High Limit Switch
10		1/2" Conduit 38" Lg.
11		1/2" Watertight Flex. Conduit 8½" Lg.
12		5/16-18 x 3/4" HHCS
13		5/16 Flat Washer
14		5/16 Lock Washer
15		5/16-18 Hex Nut
16	1210038	Solenoid Cover Weld.
17		2-Conduit Cable 48" Lg.
18	1212004	Conduit Brackets
19	1210031	Thermoswtich Shield Weld.
20		#8 x 1/2" Lg. Sheet Met. Screw
21	1216851	Thermoswitch
30		#14 Elec. Wire - White 12' Lg.
31	1216859	Jiffy Clip
32		1/2" Watertight Connector
33	1216800	1/2" Condulet Rt.
34	1216809	Lamp Base Socket Only) Lamp Comp.
35	1216810	NE 51 H Neon Lamp) 1216808
36	1218973	Thermometer
37	1226800	Plastic Lamp Cover for Neon Lamp (Control Cabinet)

GAS FLOW & CONTROL
Natural Gas System
1-1/4" Piping



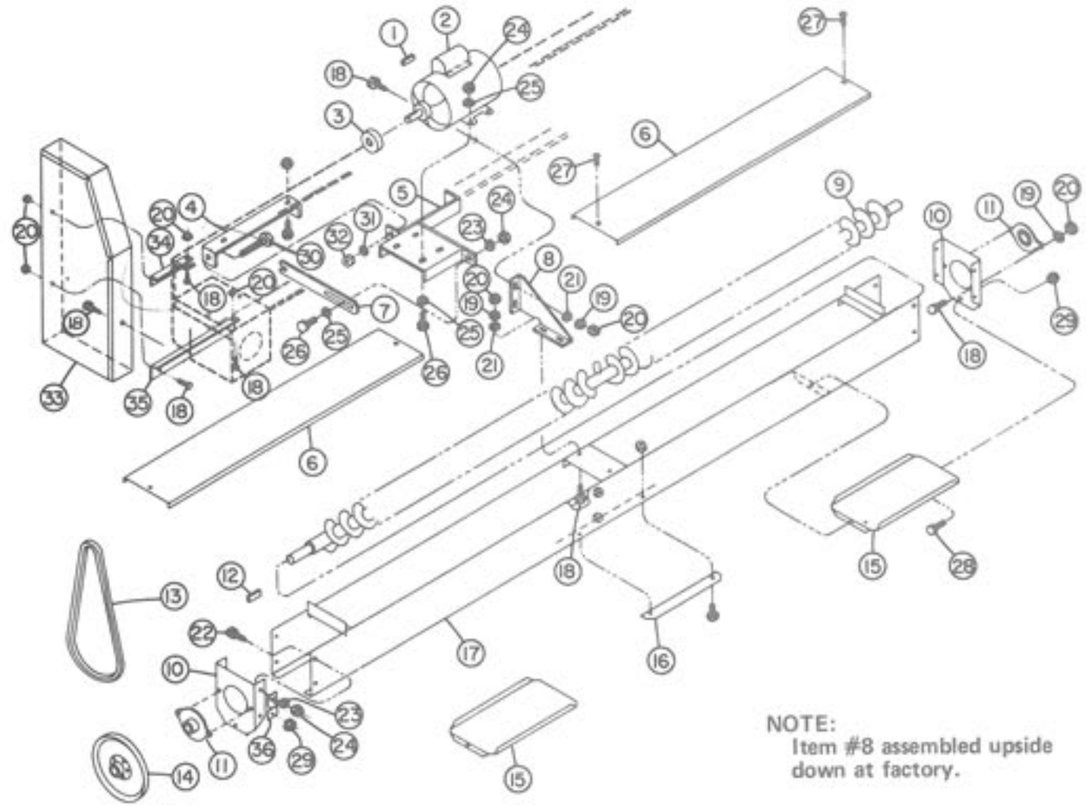
REF.	PART NO.	DESCRIPTION
1	1216805	15 Amp. Fuse Only
2	1216879	Ignition Wire B-10 & "E" Models
3	1237000	Main Solenoid Valve
	1227001	Replacement Coil Only
4	1237002	Main Modulating Valve
5	1237003	Main Gas Hand Valve
6	1207002	Gas Pressure Dial Gauge
8	1217000	Pilot Solenoid Valve
9	1207004	Pilot Hand Valve
10	1216844	Thermocouple Lead Wire 60" Lg.
11	1217019	Baso Pilot Safety Control
12	1216842	Spark Plug
13	1218100	Thumb Screw for Holding Thermocouple Bulb
14	1210167	Pilot Burner Weld.
15	1235531	Main Burner Orifice for Nat. Gas
16	1227003	Power Element, Nat. Gas R/P for 1237002
17	1210132	Main Burner Ring
18	12010l0	Pilot Orifice Assembly

900 BURNER ASSEMBLY



REF.	PART NO.	DESCRIPTION
1	1210336	Vaporizor Tank LP Only
2	1210328	Burner Unit Weldment with Mounting Bracket "900"
3	1210327	Burner Unit Weldment "900"
4	1216926	Electrodes
5	1210316	Ignition Tube Weldment
6	1210334	Burner Lead
7	1210322	Burner Tube Weldment
8	1215501	Burner Head 3" Std. Blk. Pipe Cap

CROSS AUGER ASSEMBLY "E" MODELS



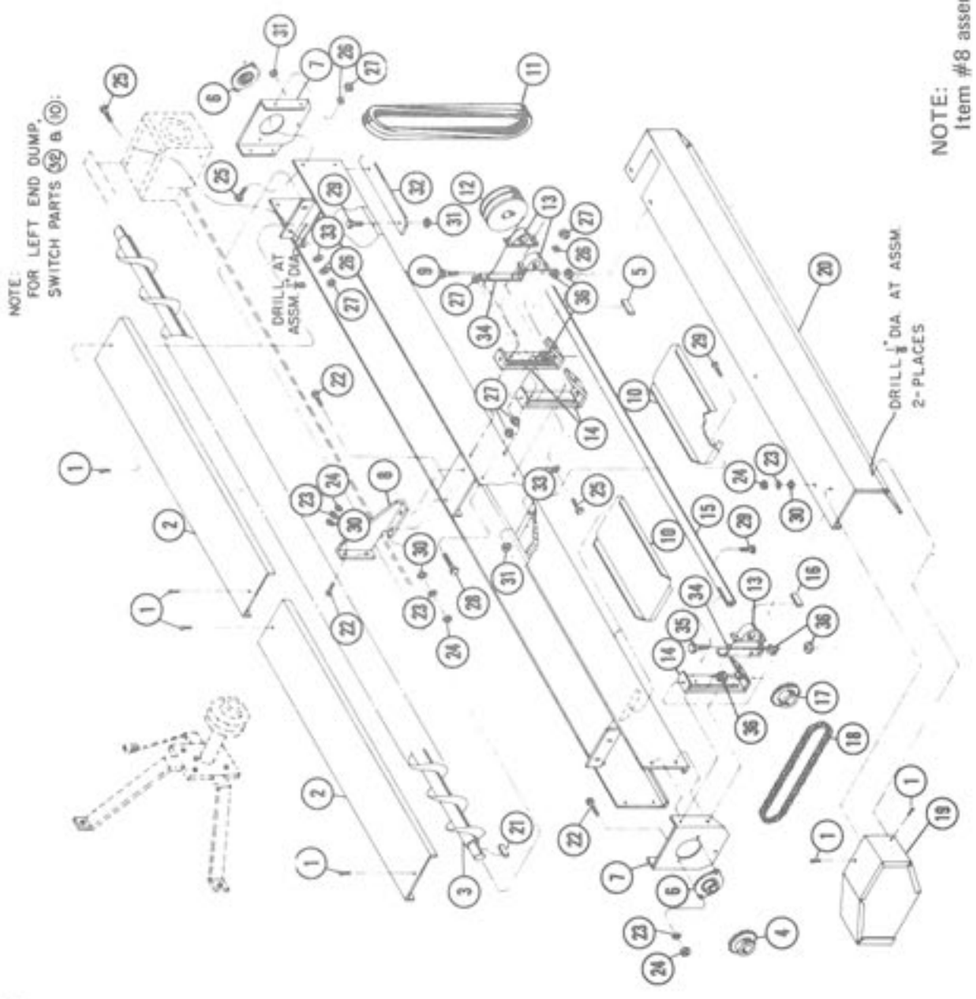
NOTE:
Item #8 assembled upside down at factory.

REF.	PART NO.	DESCRIPTION
1		3/16" Sq. x 1" Key
2	1216845	1-1/2 HP 3ø Motor
3	1216207	2.5" O.D. x 5/8" Bore Pulley
4	1212059	Motor Mount Bracket – C/A
5	1210170	Motor Mount Weldment – C/A
6	1204768	Cross Auger Top Cover
7	1213449	Belt Take-up Arm – C/A
8	1204436	Center Brace – C/A
9	1230005	End Dump Cross Auger Weldment
	1200009	Center Dump Cross Auger Weldment
10	1204434	Cross Auger End Plate
11	1206000	1-1/4" 2-Bolt Flange Bearing
12		1/4" Sq. x 1" Key
13	1216105	V-Belt B48 Super Aggie
14	1216208	8" O.D. x 1-1/4[" Bore Pulley
15	1204769	Discharge Closer – Cross Auger
16	1202001	Boot Flange
17	1200014	Cross Auger Housing Weldment
18		5/16"-18 x 3/4 HHCS

REF.	PART NO.	DESCRIPTION
19		5/16" Lock Washer
20		5/16" Hex Head Nut
21		5/16" Flat Washer
22		3/8"-16 x 3/4 HHCS
23		3/8" Lock Washer
24		3/8"-16 Hex Nut
25		3/8" Flat Washer
26		3/8"-16 x 1" HHCS
27		#8 Sheet Metal Screws
28		5/16-18 x 1/2 HHCS
29		5/16" Lock Nut
30	0018163	1/2-13 x 1-1/4" Shoulder Bolt
31		1/2" Lock Washer
32		1/2"-13 Hex Nut
33	1210174	Cross Auger Belt Guard Weld.
34	1213347	Belt Guard Top Mounting Bracket
35	1214473	Belt Guard Bottom Mounting Bracket –C/A
36	1213344	Belt Guard "Z" Bracket – C/A

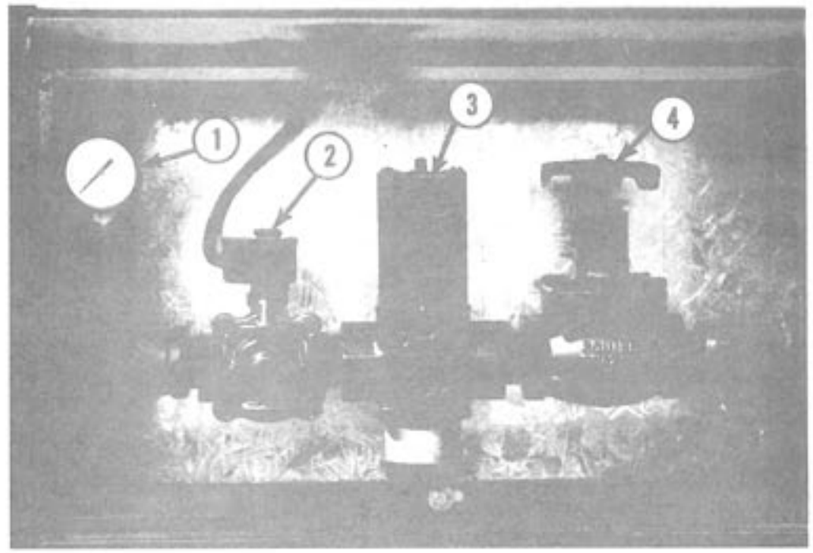
CROSS AUGER ASSEMBLY

REF.	PART NO.	DESCRIPTION
1	1204768	No. 8 Sheet Metal Screws
2	1200009	Cross Auger Top Cover
3	1200009	Center Dump Cross Auger
4	1206400	R.C. 40 x 161 x 1-1/4" Bore Sprocket
5		3/16" Sq. x 1-1/4" Key
6	1205000	1-1/4"-2 Bolt Flange Bearing
7	1204434	Cross Auger End Plate
8	1204436	Cross Auger Center Brace
9	1200014	Cross Auger Housing Weld.
10	1204769	Cross Auger Discharge Closure
11	1216102	5L590 V-Belt Cross Auger Drive (2)
12	1216206	Pulley 2B 4.0 x 3/4" Bore w/STD KW
13	1206002	Bearing P.B. 3/4"
14	1203313	Cross Auger Bearing Bracket
15	1215012	Cross Auger Jackshaft
16		3/16 x 1" Key
17	1216402	Cross Auger Jackshaft Sprocket
18	1216302	Cross Auger Chain – R.C. 40 x 21"
19	1200022	Jackshaft Belt Guard - C/A
20	1214881	Jackshaft Guard - Cross Auger
21		1/4" Sq. x 1" Key
22		5/16"-18 x 3/4" HHCS
23		5/16" Lock Washer
24		5/16"-18 Hex Nut
25		3/8"-16 x 3/4" HHCS
26		3/8" Lock Washer
27		3/8"-16 Hex Nut
28		3/8"-16 x 2-1/2" HHCS
29		5/16"-18 x 1/2" HHCS
30		5/16" Flat Washer
32	1202001	Boot Flange
33		3/8" Flat Washer
34	1203314	Cross Auger Bearing Adj. Bar
35		5/16-18 x 2 Full Thread HHCS
36		5/16 HH Whiz Nut



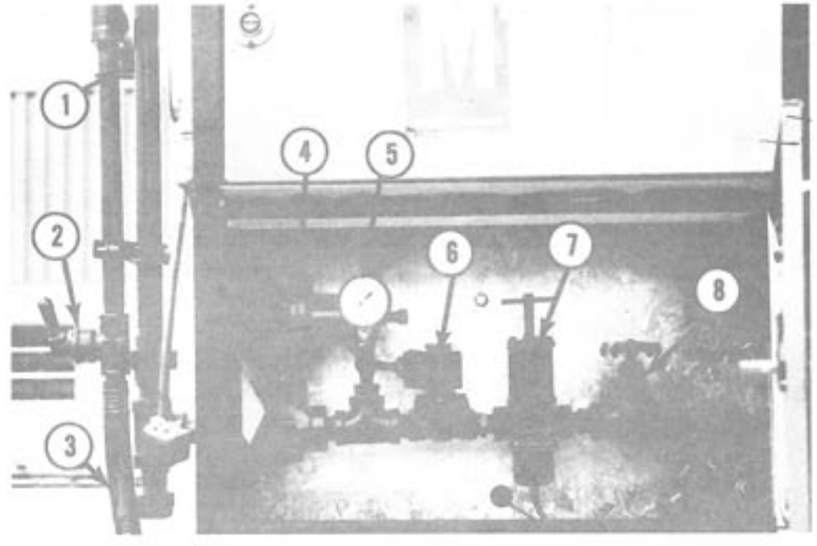
NOTE:
Item #8 assembled upside down at factory.

NATURAL GAS TRUMPET



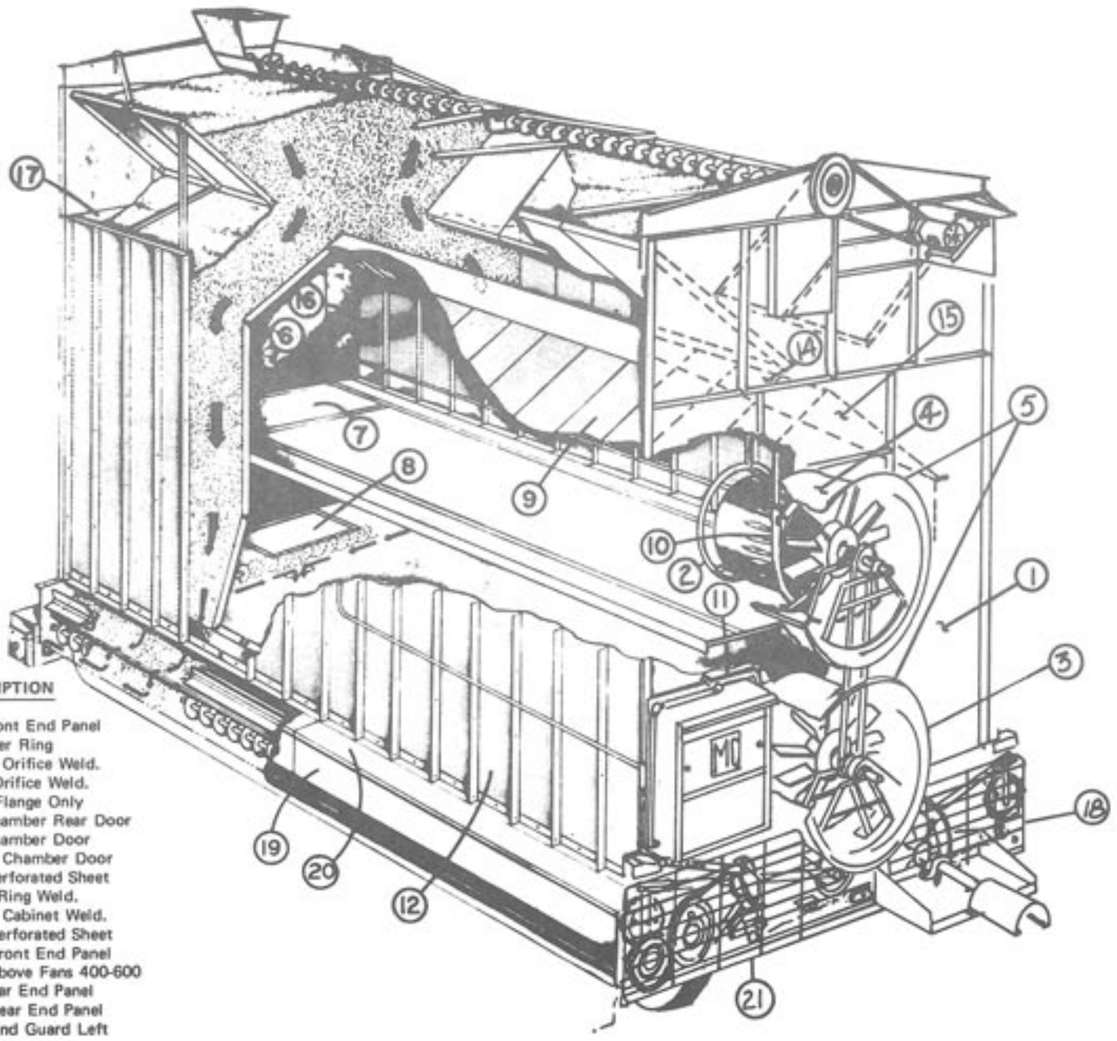
REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
1	1207002	Gas Pressure Dial Gauge	3	1237015	Main Modulating Valve (900)
2	1237000	Main Solenoid Valve	4	1237003	Main Gas Hand Valve
	1227001	Replacement Coil Only			

LP GAS TRUMPET



REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
1	1217013	Pressure Relief Valve	6	1217002	Main Solenoid Valve (LP)
2	1217015	Liquid Line Hand Shut Off Valve		1227001	Replacement Coil Only
3	1217005	Inlet Hose	7	1217012	Modulating Valve (LP)
4	1217006	Pressure Regulator (LP Only)	8	1217011	Main Gas Hand Valve
5	1207002	Gas Pressure Dial Gauge			

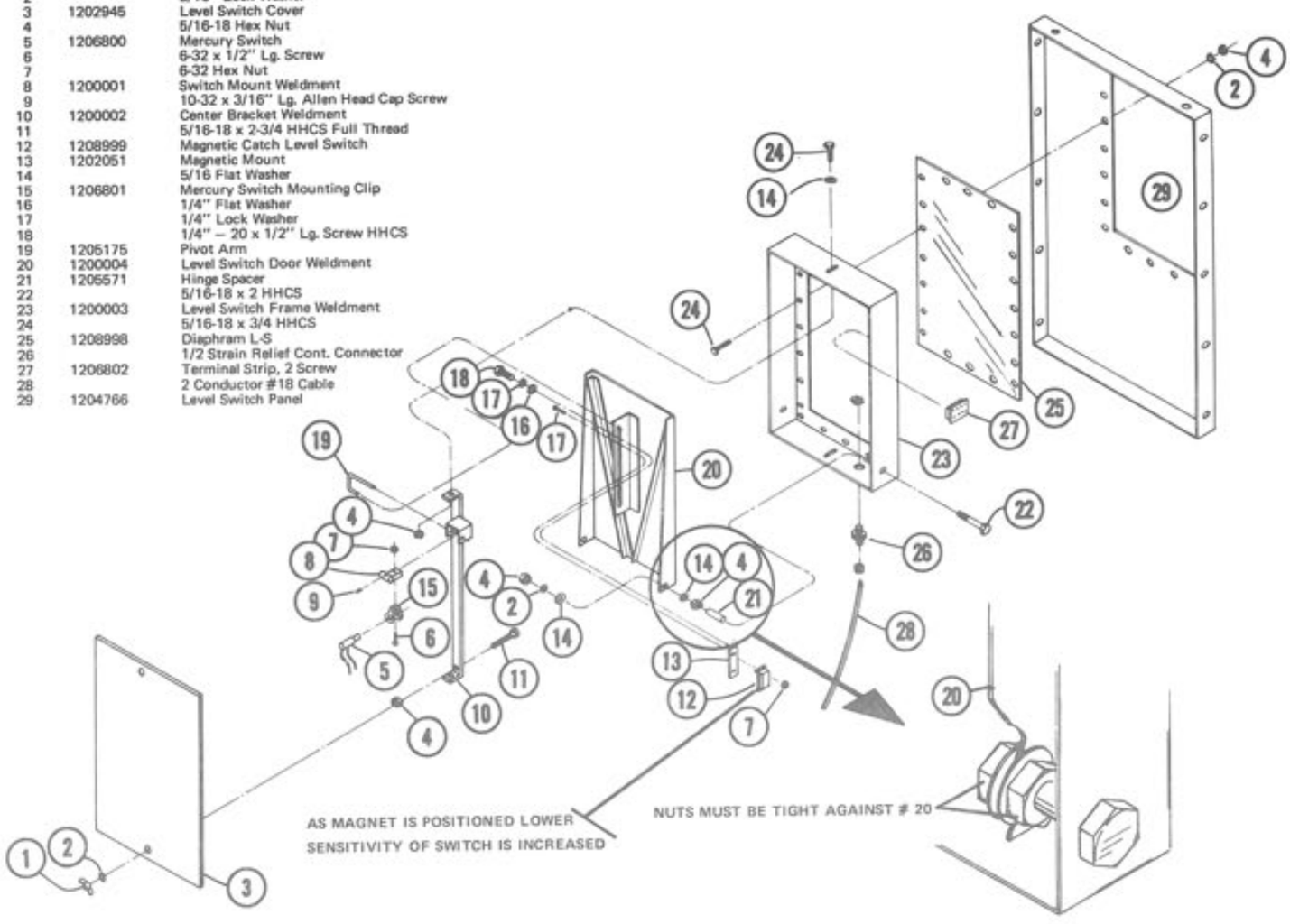
CUT AWAY ILLUSTRATION
MODEL "B-10"



REF.	PART NO.	DESCRIPTION
1	1212895	Left Front End Panel
2	1210218	Vaporizer Ring
3	1210255	Bottom Orifice Weld.
4	1210263	Upper Orifice Weld.
5	1218998	Intake Flange Only
6	1211111	Heat Chamber Rear Door
7	1211003	Heat Chamber Door
8	1211004	Cooling Chamber Door
9	1212956	Inner Perforated Sheet
10	1210132	Burner Ring Weld.
11	1210086	Control Cabinet Weld.
12	1212954	Outer Perforated Sheet
14	1212898	Right Front End Panel
15	1212889	Panel Above Fans 400-600
16	1212897	Left Rear End Panel
17	1212896	Right Rear End Panel
18	1210265	Front End Guard Left
19	1214835	Side Auger Cover
20	1210160	Feed Roll Cover
	1210161	Feed Roll Cover (400 Front)
21	1210266	Right Front Guard

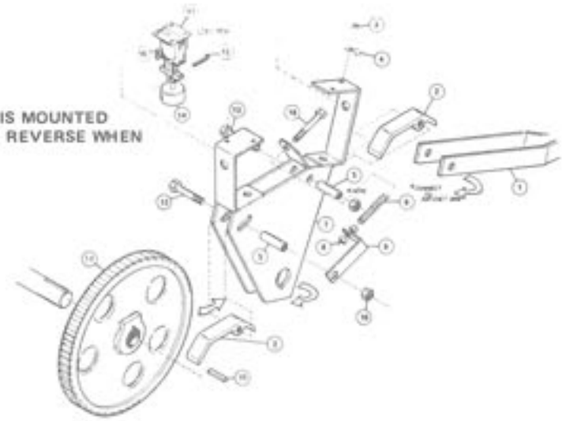
LEVEL SWITCH ASSEMBLY

REF.	PART NO.	DESCRIPTION
1		5/16-18 Wing Nut
2		5/16" Lock Washer
3	1202945	Level Switch Cover
4		5/16-18 Hex Nut
5	1206800	Mercury Switch
6		6-32 x 1/2" Lg. Screw
7		6-32 Hex Nut
8	1200001	Switch Mount Weldment
9		10-32 x 3/16" Lg. Allen Head Cap Screw
10	1200002	Center Bracket Weldment
11		5/16-18 x 2-3/4 HHCS Full Thread
12	1208999	Magnetic Catch Level Switch
13	1202051	Magnetic Mount
14		5/16 Flat Washer
15	1206801	Mercury Switch Mounting Clip
16		1/4" Flat Washer
17		1/4" Lock Washer
18		1/4" – 20 x 1/2" Lg. Screw HHCS
19	1205175	Pivot Arm
20	1200004	Level Switch Door Weldment
21	1205571	Hinge Spacer
22		5/16-18 x 2 HHCS
23	1200003	Level Switch Frame Weldment
24		5/16-18 x 3/4 HHCS
25	1208998	Diaphram L-S
26		1/2 Strain Relief Cont. Connector
27	1206802	Terminal Strip, 2 Screw
28		2 Conductor #18 Cable
29	1204766	Level Switch Panel



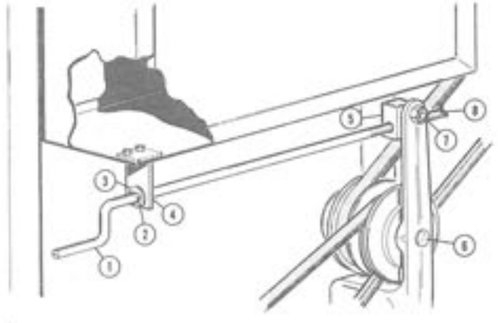
DOUBLE RATCHET ASSEMBLY

NOTE:
RATCHET SOLENOID COVER IS MOUNTED BACKWARDS FOR SHIPPING REVERSE WHEN INSTALLING DRYER



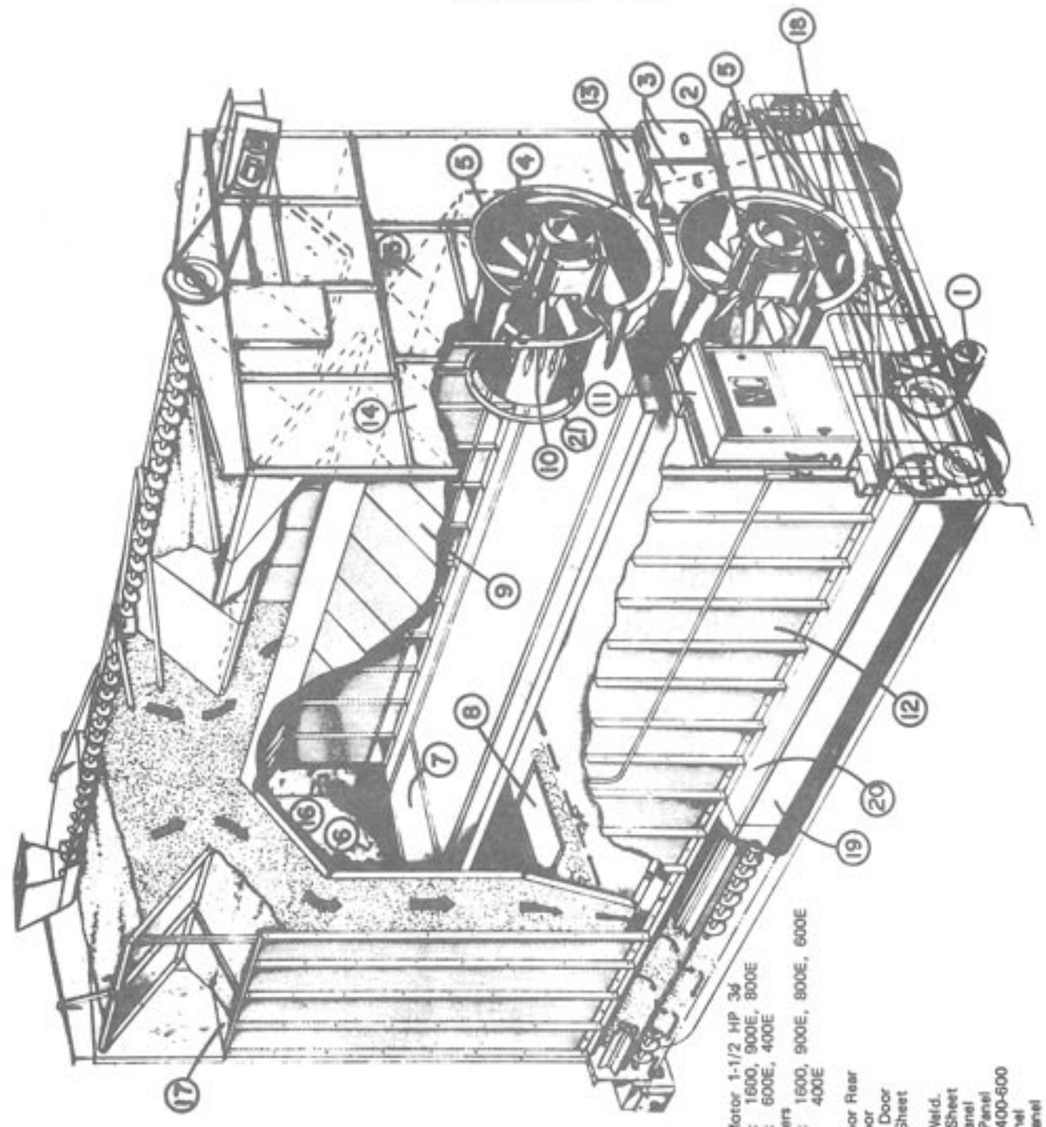
REF.	PART NO.	DESCRIPTION
1	1210009	Connecting Arm Weld.
2	1215724	Ratchet Dog
3		6/32 Hex Nut
4	1216859	1/4" Jiffy Clip
5	1215571	Ratchet Dog Bushing
6	1218261	Double Ratchet Spring
7	1210326	Double Ratchet Arm Weld.
8		1/4-20 Hex Nut
9	1213357	Pivot Arm Slide
10		5/16-18 Lock Nut
11		1/4 x 1/4 x 7/8" Key
12	1216404	Ratchet Wheel
13		5/16 x 1-1/2" Hex Head Cap Screw
14	1210029	Solenoid Weight Weld.
15		1/8 x 3/4" Cotter Key
16		6/32 x 1/2" Round Head Screw
17	1216856	Ratchet Solenoid
18		1/4-20 x 2-1/2" Hex Head Cap Screw

VARIABLE DRIVE ARM ASSEMBLY
1211129



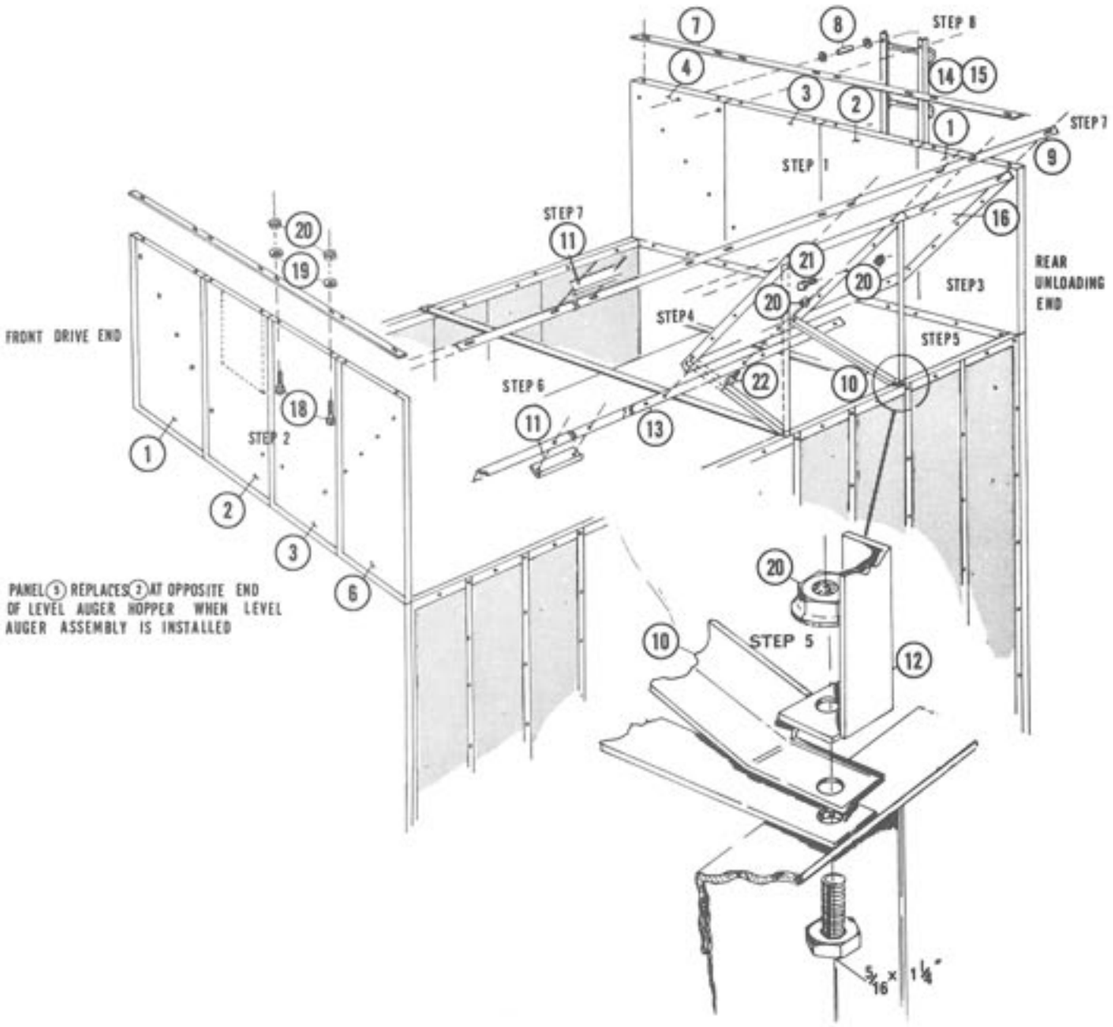
REF.	PART NO.	DESCRIPTION
1	1215193	Variable Drive Crank
2		Roll Pin 1/4 x 1-1/4"
3		5/8" Flat Washer
4	1210333	Variable Speed Mounting Bracket B-10's
5	1215190	Variable Crank Nut
6	1216600	Variable Speed Assembly
7		1/2-13 x 2" H.H.C.S. w/Nut
8		1/8 x 1" Cotter Pin

CUT AWAY ILLUSTRATION
MODEL "E"



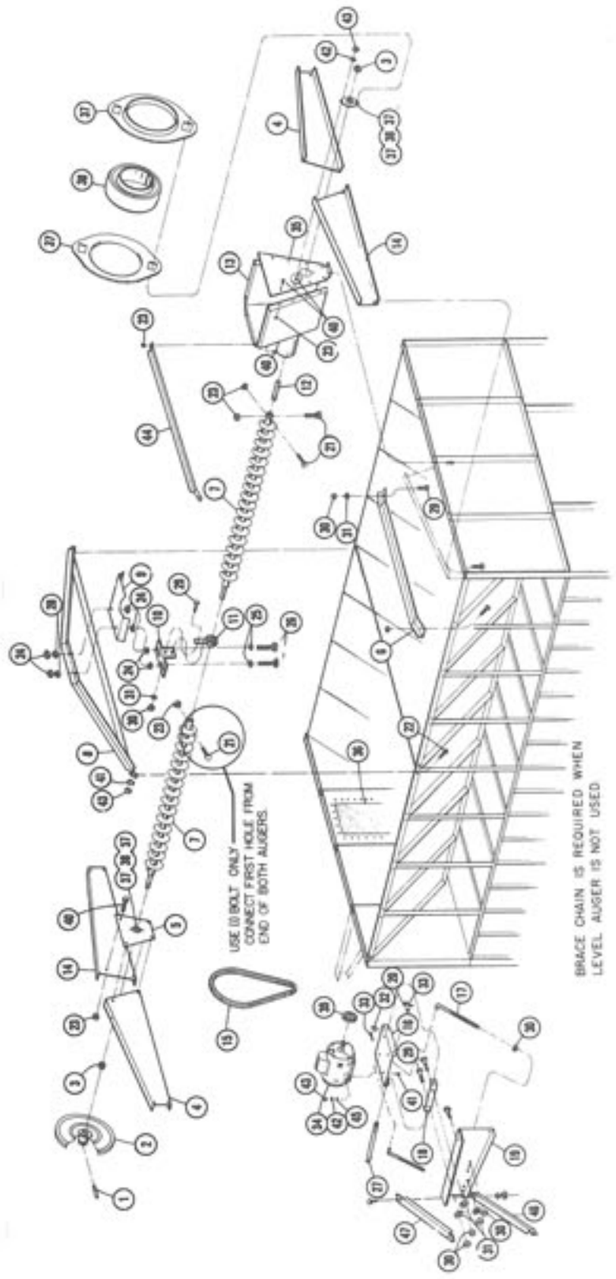
REF.	PART NO.	DESCRIPTION
1	1216845	Variable Drive Motor 1-1/2 HP 3ø
2	1216881	Cool Fan Motor: 1600, 900E, 800E
	1216882	Cool Fan Motor: 600E, 400E
3	1216876	Fan Motor Starters 1600, 900E, 800E, 600E
4	1216881	Heat Fan Motor: 1600, 900E, 800E, 600E
	1216882	Heat Fan Motor: 400E
5	1218998	Intake Flange
6	1211111	Heat Chamber Door Rear
7	1211003	Heat Chamber Door
8	1211004	Cooling Chamber Door
9	1212956	Inner Perforated Sheet
10	1210132	Burner Weld.
11	1210086	Control Cabinet Weld.
12	1212954	Outer Perforated Sheet
13	1212895	Left Front End Panel
14	1212898	Right Front End Panel
15	1212889	Panel Above Fan 400-600
16	1212897	Left Rear End Panel
17	1212896	Right Rear End Panel
18	1210106	Front End Guard
19	1214835	Side Auger Cover
20	1210160	Feed Roll Cover
	1210161	Feed Roll Cover (400 Front)
21	1210218	Vaporizer Ring

WET HOLDING HOPPER ASSEMBLY



REF.	PART NO.	DESCRIPTION
1	1214807	Outside Front Hopper End Panel (4-Hole Left)
2	1214810	Hopper End Panel (1-Hole Left & Right)
3	1214810	Inside Hopper End Panel (1-Hole Right)
4	1214809	Right Rear Hopper End Ladder Panel
5	1201007	Level Switch Panel Assy.
6	1214808	Outside Front Hopper End Panel (4-Hole Right)
7	1202053	Hopper Stiffener (End)
8	1205410	Ladder Spacer
9	1202054	Hopper Stiffener (Side)
10	1212009	Hopper Brace
11	1212604	Hopper Side Stiffener Splice
12	1212010	Side Panel Brace
13	1212603	Hopper Bottom Strip
14	1218979	7-1/2 Ft. Ladder
15	1208997	3 Ft. Ladder
16	1214843	Hopper Side Panel (Side Hopper Panel)
17		
18		5/16-18 x 1 HHCS
19		5/16 Flat Washer
20		5/16-18 Whiz Lock Nut
21		5/16-18 x 1/2 HHCS
22		5/16-18 x 3/4 HHCS

LEVEL AUGER ASSEMBLY



REF.	PART NO.	DESCRIPTION
25		1/2-13 Flat Washer
26		1/2-13 x 3-1/2" H.H.C.S.
27	1205002	Motor Mount Hinge Pin
28		1/2" Lock Washer
29		3/8-16 x 3/4" H.H.C.S.
30		3/8-16 Hex Nut
31		3/8 Lock Washer
32		3/8 Flat Washer
33		Cotter Pin
34	1216845	1-1/2 H.P. 3Ø Electric Motor
	1216846	1-1/2 H.P. 1Ø Electric Motor
	1216861	2 H.P. 3Ø Electric Motor 900 Only
	1216862	2 H.P. 1Ø Electric Motor 900 Only
35	1204447	Hopper End Panel
36	12001007	Level Switch Assembly
37	00160009	1" Bearing Stamping
38	00160008	1" Bearing
39	1206202	Pulley 3.25 OD x 5/8" Bore
	1216223	Pulley (For 3Ø Motor) 900 Only
	1216220	Pulley (For 1Ø Motor) 900 Only
40		5/16-18 x 3/4" H.H.C.S.
41		5/16-18 x 3/4" H.H.C.S.
42		5/16 Lock Washer
43		5/16-18 Hex Nut
44	1203310	Hopper Brace
45		5/16 Flat Washer
46	1203311	Level Auger Motor Bracket Lower Brace
47	1203312	Level Auger Bracket Upper Brace

REF.	PART NO.	DESCRIPTION
1	1218110	5/16 x 1-3/4" Roll Pin
2	1206203	V-Pulley 16.0 x 1" Bore
	1216221	V-Pulley 2B16.0 OD (900 Only)
	1216622	Bushing
3	0006004	1" Eccentric Lock Collar
4	1204875	Level Auger Left End Panel
5	1204440	Level Auger Bearing Bracket Plate
6	1203803	Level Auger Hopper Bearing Corner Brace
7	12000021	Level Auger Weldment 400
	12000010	Level Auger Weldment 600, 800, 900, 1600
	12102233	Level Auger Weldment 900 – Drive End
8	12000012	Level Auger Cross Bridge Weldment
9	1204876	Level Auger Center Bearing Shield
10	12000016	Level Auger Center Bearing Hanger Weldment
11	1206001	Hanger Bearing 1" Bore
12	12050039	Bolt In End Shaft
13	12000023	Level Auger Hopper Weldment
14	1204774	Level Auger Right End Panel
15	1216102	V-Belt 5L590
16	1214483	Level Auger Motor Mount
17	12050001	Level Auger Support Rod
18	1203404	Hinge Bracket
19	1204446	Motor Mount Bracket
20		1/2" Flat Washer
21		5/16-18 x 1-3/4" H.H.C.S.
22		5/16-18 x 1-1/2" H.H.C.S.
23		5/16-18 Lock Nut
24		1/2-13 Hex Nut