

MODELS GRAI MODEL 555 **OPERAT** & PARTS BOOK





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MANUFACTURERS OF FARM AND INDUSTRIAL EQUIPMENT

MODELS 545XL / 645XL

OPERATORS MANUAL & PARTS CATALOG

INTRODUCTION

Your GT Grain Dryer is one of the finest grain dryers ever built; designed to give you excellent service for many years. The information and suggestions found in this owners manual will help you achieve this.

Your GT Grain Dryer dealer is well trained and equipped to give you complete service when and if the need should arise.

We would also like to take this opportunity to thank you for choosing GT and to assure you of our continuing interest in your complete satisfaction.

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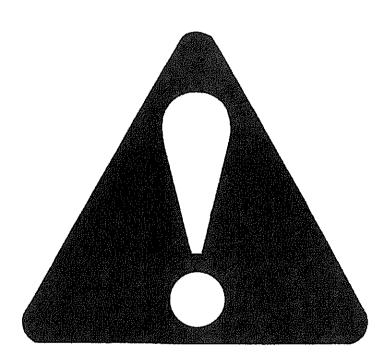
SAFETY



DO NOT OPERATE OR ALLOW ANYONE TO OPERATE THIS EQUIPMENT WHO HAS NOT BEEN PROPERLY TRAINED ON ITS SAFE OPERATION.

Throughout your operator's manual and at various locations on your machine you will see the Safety-Alert symbol shown below. This emblem has been adopted by the agricultural equipment industry to provide a universal symbol which means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

This symbol is our way of telling you to pay special attention to the instructions or warnings which follow because your safety is involved.



SAFETY-ALERT SYMBOL FOR AGRICULTURAL EQUIPMENT

The following labels found on your machine provide important safety messages and instruction for safe operation.



As these labels become worn, damaged, or illegible replace them immediately. These labels are available at your authorized dealer.

BE A SAFE OPERATOR

BY THINKING - BEFORE ACTING

AND

BY READING YOUR OPERATIONS MANUAL

AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home, or on the highway, are caused by the failure of some individual to follow to follow simple and fundamental safety rules or precautions. For this reason most accidents can be prevented by recognizing the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment, there are many conditions that can not be completely safeguarded against without interfering with reasonable 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:

STOP MACHINE TO ADJUST, LUBRICATE, SERVICE, CLEAN OR MOVE.

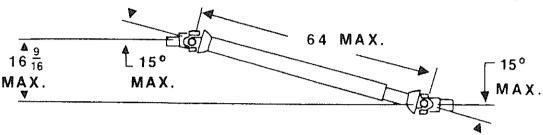


- 1. Read and understand the Operator's Manual before operating the unit.
- 2. Keep children, visitors and all untrained personnel away from machine while in operation.
- 3. Keep all shields and safety devices in place.
- 4. Stop machine to adjust, lubricate, service, clean or
- 5. Keep hands, feet and clothing away from moving parts.
- 6. Disconnect electrical power before servicing.
- 7. Keep unit level when operating.
- 8. Maintain proper tire pressure when transporting machine. (Refer to Manufacturers Recommendations.)



DANGER

For maximum safety and smoothest operation keep p.t.o. shaft in closed position while under load. Keep u-joint angles equal. Do not remove safety shields. Do not exceed 540 r.p.m.



FAILURE TO HEED WILL CAUSE PTO SHAFT FAILURE OR SEPARATION & RESULT IN SERIOUS INJURY OR DEATH.





ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY!

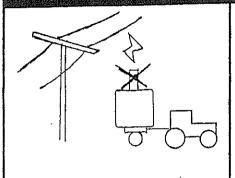
DO NOT OPERATE WITHOUT -

- ALL DRIVELINE, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE SHIELDS THAT TURN FREELY ON DRIVELINE

L1

279561

1 DANGER



ELECTROCUTION HAZARD

To prevent serious injury or death from

- electrocution:
 Remove unloading head when transporting.
 Stay away from overhead power lines when transporting.
- This machine is not grounded.
- Electrocution can occur without direct contact.





CONNECT TO LIQUID PROPANE ONLY. Wear Rubber Gloves and Eye Protection.

Avoid Contact with Propane.



Check for Leaks with Soap and FLAMMABLE NEVER USE FLAME. Water.



ENGAGE FAN CLUTCH VERY SLOWLY WHEN PTO IS OPERATING





MAX.PTO SPEED 540 R.P.M.

TORQUE WHEEL BOLTS TO 70 LB.—FT.

(94.85 N—M). CHECK TORQUE

BEFORE TOWING AND PERIODICALLY

UNTIL TORQUE IS HELD.

74535



A DANGER

FRAME PINCH POINT HAZARD
KEEP AWAY

TO PREVENT DEATH OR SERIOUS INJURY:

 DO NOT OPERATE MACHINE WITHOUT GUARD IN PLACE.



1. Keep all guards and shields in place.



2. Inspect your drive before adding power and know how to shut down in an emergency.



3. Stop all moving parts before allowing anyone to approach the equipment for cleaning, unplugging, adjusting, performing maintenance or any other duty.



4. Replace all safety shields/guards before restarting.



5. Replace all safety shields/guards as they become worn, damaged, unusable, missing or lost.

GENERAL INFORMATION

Mechanical drying of grain is a relatively new process; therefore, emphasis must be placed on proper operation of grain drying equipment. Your GT dryer was designed and engineered to retain grain quality, and to dry grain as rapidly as possible at the lowest cost consistent with retention of quality grain. Study and follow this manual so you to may enjoy the additional profits derived from drying.

THEORY OF DRYING

The theory of drying has two basic stages: (1) diffusing of internal moisture to the surface of the kernel, and (2) removal of external moisture by air flowing around the kernel. Vapor pressure is increased inside the kernel which causes moisture to diffuse through the micropores of the seed coat. The grain temperature largely stablishes this rate of diffusion and hence must be controlled to not exceed a maximum rate which would result in a ruptured kernel.

Removal of the exterior moisture for a given air flow is dependent upon the air temperature. These two stages must be balanced to produce quality dried grain.

This balance is accomplished quite simply in the GT Grain Dryer with its uniform circulation, regulated heat, and controlled air flow.

RATE OF DRYING

In addition to the kind and variety of grain, the drying rate is controlled by atmospheric conditions. Hard and fast rules cannot be set forth because of these variables. It will be necessary to dry several batches to determine the exact dryer settings in a specific area. A chart for recording necessary information for later use is included in the back of this manual.

WHEN GRAIN IS MATURE.

Grain is mature at 30% to 35% moisture. While some grain may be harvested easily at 30%, others do not harvest well above 20%. Therefore, grain should be harvested as soon as possible after maturity, as long as grain damage is at a minimum and gleaning is thorough.

STORAGE MOISTURE LEVELS

To properly store grain, the grain moisture content must be compatible with the length of time the grain will be in storage, and with the grain's intended use. This moisture content will vary due to locale.

GRAIN	1 YEAR STORAGE (% Moisture)
Corn	13%
Wheat	13-14%
Barley	13%
Rice	12%
Oats	13%
Rape Seed	10.5%
Grain Sorghum	12%
Flax	9%
Soybeans	11%
Edible Beans	14-16%
Sunflower Seed (Oil Type)	10%
Sunflower Seed (Bird Seed Type	12%

Corn may be stored at 15% moisture if moved before warm spring weather. For long term storage – up to 5 years, or for grain stored as seed stock, moisture level should be 2% lower than shown above.

MOISTURE TESTING

Since grain must go into storage at not more than specified moisture content, it is necessary to use a reliable tester to determine moisture content. When marketing grain from the dryer, it should be only dry enough to eliminate moisture discounts. The moisture tester may also be profitably used to determine when to harvest.

COOLING OF GRAIN

It is very important to cool grain. Grain being put in storage should be cooled after drying to within 20 degrees F of atmospheric temperature or, 10 degrees F of grain already in the storage bin. Moisture migration from the air to grain will occur if the grain is not cooled to these limits.

PREPARING DRYER FOR OPERATION

INSTALLATION OF EQUIPMENT

The equipment shall be installed in accordance with the installation code for gas burning appliances and equipment, Canadian Standard's Association B 149, or applicable state or Provincial Regulations for the class. Instructions should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.

PLACING MACHINE FOR OPERATION

Select a site as level as possible, 50 ft. (15 meters) from inflammable buildings. Set machine, if possible, with fan into prevailing winds. Lower the supporting legs (6 on Model 545) and insert pins. If machine is being set on a level concrete slab, no additional blocking will be necessary, However, if being set on dirt, at least 2" x 8" x 12" board or equivalent should be placed under each leg for additional flotation. Add any additional blocking material necessary to bring machine level. Use a level on main frame to determine this.

2. INSTALLING TOP SECTION OF AUGER AND ADJUST FOR UNLOADING

When installing the top section of auger, it may be necessary to jack the lower flight up to allow the bolt holes in the connecting shaft to align. The weight of the complete auger should be supported by the top auger bearing when in proper adjustment.

If the dryer is equipped with the standard swivel head, removing bolts through mounting flanges which hold the upper and lower auger tubes together will allow the upper tube to be rotated to provide unloading at several points. It should be also noted that on the standard swivel head when the unloading spout is set for unloading one direction, it will also unload in the opposite direction. One-fourth turn, of unloading spout, relocates the auger head to recirculating position. When unloading or recirculating, the unloading spout must rest

in holders provided at top of bin. These holders may be relocated by drilling bin wall and rebolting holders. Should use of both unloading positions be desired, an additional holder may be obtained through your dealers parts department. Be sure that the openings in the upper auger tube and the auger head are properly aligned to insure good circulation.

If the dryer is equipped with the hydraulic drive horizontal top unloading head, the discharge should be set directly off the right or left hand sides of the dryer. It is recommended that the hydraulic lines to the drive motor be connected to a source with a capacity of 7 gallons per minute at 1000 psi.

After connecting hydraulic source to lines at dryer, make certain that the unloading flight has the proper rotation to remove grain from the head. When looking into the discharge end of the auger it should be rotating counter clockwise.

When using the horizontal unloading head, it is not advisable to leave grain set in the dryer for any length of time (such as over night) without the vertical auger operating. If grain must be left in the dryer, it should be lowered to a level below the top of the unload auger head to prevent grain from running back down the vertical auger.

4. LOCATING PROPANE GAS SUPPLY TANK

Location of the Propane Gas Supply Tank must be in accordance with local, state or provincial regulation. It should also be approved by the insurance company. A minimum distance of twenty-five (25) ft. (7.5 meters) is recommended for safety and will allow room for maneuvering grain hauling equipment.

GT Propane Gas fired dryers are equipped with Vaporizers and must be connected to the supply tank for LIQUID withdrawal. It is recommended that rubber hose specifically made for Propane gas be used as a supply line connecting tank to dryer. Specifications for the line are: (1) minimum working pressure 350 psi, (2) minimum bursting strength 1,750 psi, and (3) ½" minimum inside diameter for Model 545. Tank pressure is used at the dryer; therefore, it is not necessary to install a pressure regulator at the tank.



DANGER

All lines and fittings should be checked periodically for leaks before and during operation. Check for leaks with liquid detergent suds or comparable substance, but NEVER with flame.



CAUTION

Do not use storage tanks that have been used to store Anhydrous Ammonia. This causes corrosion to the gas line controls.

Always protect gas supply line against vehicle or animal damage.

5. NATURAL GAS

Specifications for Natural Gas connections are available from the gas supplier and must be adhered to. The Model 545 dryer will require up to 20 psi, depending on locality. Pressure shown is at the dryer. Maximum Natural Gas volume required is up to 50 ft3 per minute on the Model 545.

ELECTRICAL CONNECTIONS

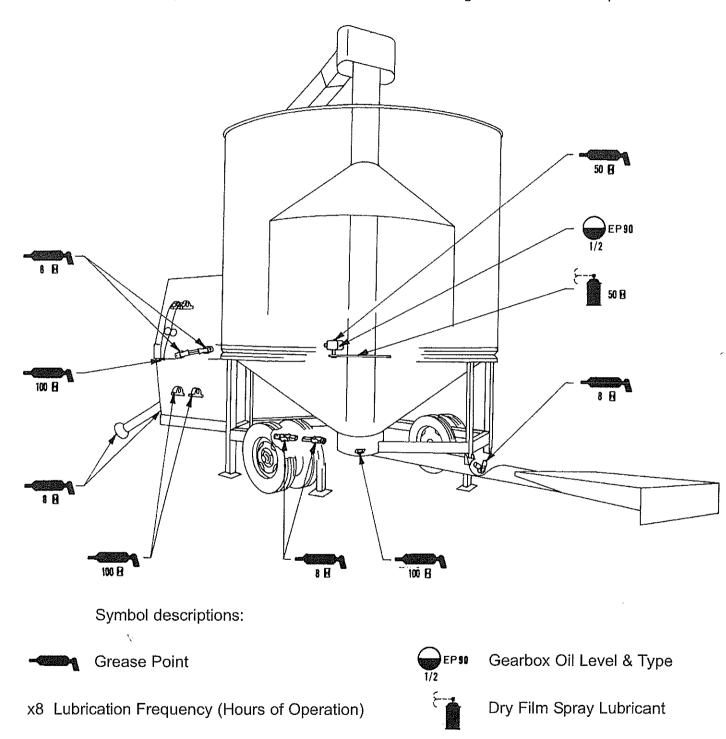
Power take off machines have as standard equipment a 12 VDC negative ground control circuit. The lead in wires must be properly connected to the tractor battery. Red clip to hot (+) side of battery and black 'ip to ground (-) side of battery. See proper battery connections on page 19.

IMPORTANT: Battery connections other than that described above will be harmful to the ignition system.

7. LUBRICATION

Use a high-low temperature grease or equivalent made especially for ball and roller bearings in extreme temperatures.

Refer to the following chart for location of lubrication points and frequency of lubrication. A small amount of grease at the specified intervals is recommended over a large amount at less frequent intervals.



When performing the 100 hour lubrication, check to see that set screw in bearing and tumblers are tight.

IMPORTANT: In extremely cold weather, it may be necessary to operate the dryer at a low RPM for a short period of time to allow the grease in the bearings to warm up.

8. SERVICING AND CARE OF AGITATOR

It is important that the agitator be inspected before and after the first load. Then after each 100 hours of operation.

A. The tapered agitator rollers must support the plate sprocket so there is no horizontal movement of sprocket.

The Model 580 has four rollers mounted on the agitator sprocket so each roller supports an equal load. These rollers are tapered so all horizontal and vertical slack may be taken up.

B. Adjusting Rollers

- 1. Secure the cam nut and loosen the bolt.
- 2. Rotate the cam nut counter-clockwise (when looking down into the cam nut) while holding the bolt stationary.
- 3. Secure the cam nut and tighten the bolt.
- 4. All cam nuts must be rotated an equal amount so the agitator sprocket remains true.
- Rotate agitator arms by hand and check clearance.

NOTE: Agitator drive chain is provided with a spring loaded idler, however, it is necessary to periodically check the chain slack.



CAUTION

Do not open inspection door or enter machine while in operation.

9. BELT TENSION

With machine running at normal speed, belts should be tight enough to keep out the slack. Keep belts tight to prolong life.

10. VAPORIZER (Propane Only)

The vaporizer is designed for year round operation. However, the temperature of the vapor controls (pressure regulator, solenoid valves, ball valve, etc.) can be adjusted by moving the vaporizer ring up or down relative to the burner ring. The controls will run warmest with the vaporizer ring directly in line with the burner controls. The temperature of the vapor controls can also be adjusted by moving the vaporizer ring closer or farther from the burner by changing the position of the vaporizer on the burner in the clamp. The vapor plumbing under normal conditions should be operating at a temperature of approximately 120F to 140F. The temperature may be checked by placing your bare hand on the plumbing and will range from warm to hot.

If the vaporizer has been overheated causing possible rupture you will be unable to control the plenum temperature. Check propane tank for liquid withdrawal. Vapor withdrawal will cause over-heating of the vaporizer and possible damage to the gas controls.

11. CHECK OUT - BEFORE LOADING

All piping and burners have been checked and test fired at the factory. It is possible, however, that me of the connections may have been loosened or damaged during shipment. After connecting supply tank dryer all connections should be tested under pressure with gas pressure on. DANGER: Check with liquid soap solution, never with flame. Tractor can be started and dryer test run before loading with grain.

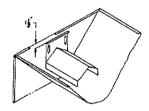
12. LOADING THE BIN

NOTE: The fan clutch can be disengaged during loading and unloading of dryer to lower the energy requirement. It also reduces the amount of dirt and dust which is blown out of the dryer during the load and unload cycle.

When the loading attachment is not used, overhead bins or a conventional farm type elevator or auger may be used. In using any method of filling from the top, make delivery of grain into dryer as near to center as possible. Start machine, without burner, at the same time loading begins. This helps keep bin loaded evenly. Bin will fill to rim and pyramid evenly to auger outlet.

When the loading hopper attachment is used for filling the dryer, follow these steps to prevent the grain from being fed into the dryer faster than the vertical auger can recirculate it. When this happens the grain can build up in the bottom of the dryer until it gets into the agitator assembly and causes damage to the agitator.

- A. Make sure that the vertical auger drive belt is kept tight and is not slipping.
- B. Make sure the discharge holes at the top of the vertical auger housing are completely open with the swivel head in the recirculating position.
- C. Make sure that the bottom auger well is kept clean of trash or fine material build up which restricts the flow of grain into the intake of the vertical auger.
- D. The vertical auger flighting cannot be worn down at the intake end.
- E. Slow down the PTO speed to approximately 450 RPM when filling the dryer with lightweight grains such as sunflower seeds, oats, etc.
- F. Set the grain flow regulator in the loading hopper down 1 1/2" as shown in the drawing.

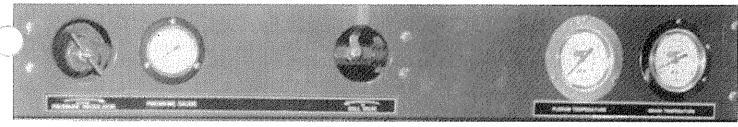


DO NOT LEAVE GRAIN IN DRYER OVERNIGHT

- 13. STARTING THE BURNER (PROPANE)
- A. Fan should be at operating speed, approximately 2200 RPM for Model 545. This speed can be obtained by approximately 525 RPM PTO speed, however, a lower fan and PTO speed is recommended in some conditions.
- B. Check the Plenum and grain temperature controls in the control box for proper setting. (Refer to instructions No. 16 and 17 in this manual.) Re-set the controls if necessary.
- C. NOTE: For other than initial starting, skip to step H and continue.

 For initial starting, the ball valve and quick acting valves should be open, and the high pressure regulator handle should be turned out (counter-clockwise) until the screw turns freely, then turn back in (clockwise) one full turn.
- D. Move power switch to the "on" position. Depress and hold burner start switch, and at the same time turn the regulator screw clockwise until burner lights. Hold start switch depressed until flame detector is activated, usually 20 to 30 seconds.

- E. If frost should appear on the gas lines wait 2 to 3 minutes to allow the vaporizer to heat before increasing the gas pressure.
- F. Gradually increase the plenum temperature by screwing the pressure regulator handle in (clockwise). If frost appears on the line at any time wait a few minutes before increasing pressure further. Continue to increase the gas pressure until the plenum temperature is at least 10° F above the desired operating plenum temperature. NOTE: In extreme temperature changes, it may be necessary to go more than 10°F above the desired plenum temperature.
- G. For restarting the burner it is not necessary to change the setting of the pressure regulator unless a different plenum operating temperature is desired. Simply turn the ball valve handle so that it is only partially (one quarter) open. Open the quick acting valve.
- H. Move power switch to the "on" position. Depress and hold burner switch, and at the same time turn the regulator screw clockwise until burn lights. Hold start switch depressed until flame detector is activated, usually 20 to 30 seconds.
- I. After flame is established gradually open the ball valve until completely open. NOTE: Opening the ball valve too rapidly may cause frost to form in the gas lines.
- 14. ADJUSTMENT OF FUEL AIR MIXTURE
 Your burner is factory set for correct air input for various pressures. Burner will not operate properly unless fan is at the approximate recommended operating speed.
- 15. ASSEMBLY OF CONTROLS



PRESSURE REGULATOR

PRESSURE GAUGE

BALL VALVE

PLENUM TEMPERATURE GRAIN TEMPERATURE

16. PLENUM TEMPERATURE RANGES FOR DRYING

GRAIN	PLENUM TEMP (°F) IF GRAIN TO BE USED FOR SEED	PLENUM TEMP (°F) IF GRAIN TO BE SOLD COMMERCIALLY OR USED FOR ANIMAL FEED
Shelled Corn Wheat Grain Sorghum Barley Oats Soybeans Rough Rice Flax Rape Seed Edible Beans Sunflower Seeds (Oil Type)	140° – 180° 100° – 150° 140° – 180° 120° – 170° 140° – 180° 120° – 170° 90° – 120° 90° – 120° 90° – 15° above outside air temp.	200° - 230° 150° - 180° 230° - 250° 180° - 200° 200° - 230° 180° - 200° 140° - 160° 140° - 160°
Sunflower Seeds (Oil Type) Sunflower Seeds (Bird Seed)		110° – 150° 110° – 150°

ADJUSTING PLENUM CONTROL

The plenum temperature control is located inside the control box and is used to set the desired drying temperature inside the plenum chamber. Use the above chart as a guide to set the control. The actual plenum temperature will go approximately 5°-10° above or below the specified setting on the control.

17. ADJUSTING GRAIN TEMPERATURE CONTROL (See No. 9, page 18)

The grain temperature control is located inside the control panel and serves to prevent over-heating of grain. When the grain temperature gets above the dial setting the control will shut the burner off and the red grain temperature light will come on. Check periodically. Refer to chart under maximum temperature of grain. (See Page 15.)

To initially set the grain temperature control turn the dial setting to about 10° or 20°F above the "commercial use" grain temperature in the following table. (NOTE: When drying grain for seed purposes refer to instructions in next paragraph.) Example: Shelled corn for commercial sale; set dial at 140° or 150°F. As the batch is drying, periodically take grain samples from the sampler tube and check the moisture content on an accurate moisture tester. When the moisture gets within 1 – 1½ percentage points of the desired final moisture content slowly turn the dial on the grain temperature control down until the gas is shut off this extinguishing the burner. Let the grain cool to the desired temperature. The grain will continue to dry during the cooling process so should be near the desired dryness after cooling. If the grain is still a little too wet raise the temperature control setting one or two degrees on the next batch. If the grain was a little too dry lower the temperature control setting one or two degrees on the next batch.

When drying grain for seed purposes set the grain temperature control at or slightly below the temperature specified in the malt or seed column of the grain temperature chart. The plenum temperature should be set according to the seed column of the plenum temperature chart. When the grain in the dryer reaches the control setting the burner will be extinguished. Check the moisture content of the grain in the dryer. If this batch of grain is to wet, <u>lower</u> the plenum temperature slightly for the next batch. Lowering the plenum temperature will increase the drying time and therefore decrease the grain moisture. Conversely, if the batch of grain is too dry, <u>raising</u> the plenum temperature slightly for the next batch will decrease the drying time and therefore increase the grain moisture. Do not exceed maximum plenum or grain temperature shown in charts.

The grain temperature control serves as an indicator to degree of dryness, but settings must be ascertained at user level. For recording temperatures used, a sheet is provided in back of this manual. Each batch should be tested to be sure the proper moisture level is reached. Different varieties of the same grain may require different grain temperature settings to achieve the same degree of dryness.

GRAIN DRYING INFORMATION

MAXIMUM TEMPERATURE FOR GRAIN WHEN CROP IS USED AS CHART INDICATES

GRAIN	MALT OR SEED	COMMERCIAL USE	ANIMAL FEED
Shelled Corn	110° F	130° F	140° F
Wheat	105° F	120° F	140° F
Grain Sorghum	110° F	140° F	140° F
Barley	105° F	120° F	140° F
Oats	105° F	140° F	140° F
Rye	105° F	140° F	140° F
Soybeans	105° F	120° F	140° F
Rough Rice	110° F	110° F	110° F
Flax	110° F	120° F	
Rape Seed	110° F	120° F	
Edible Beans		Does not apply	
Sunflower Seed (oil type)		100° F	1 mm
Sunflower Seed (bird seed)		90° F	

18. WHEN TO TURN OFF THE BURNER

The burner can be extinguished either manually by the Off–On switch or automatically by the grain temperature control when the grain reaches the desired dryness. This can be determined by use of a moisture tester. Allow the fan to run until the grain cools to about 20° above the outside temperature or 10° above grain in storage. Grain will dry as must as 1% during the cooling period, depending on the relative humidity.

19. UNLOADING

After grain has cooled, swing the unloading spout to the unloading position if dryer is equipped with the standard swivel head or engage hydraulics to motor if equipped with horizontal unloading head.

20. DRYER NOT IN USE

When dryer is not in use, the hand valve under the control panel and the circuit breaker switch in the control panel must be in "OFF" position. The supply line should be shut off at the tank also. If location is such as to permit traffic or livestock between dryer and supply tank, protection of supply line is a must.

NOTE: When shutting the burner off for an extended period of time (even overnight) it is a good safety practice to shut the gas off at the supply tank and let all of the gas in the lines burn out.

21. GENERAL OPERATING MAINTENANCE

- (1) Keep area clean of shucks, chaff and other combustible material.
- (2) Keep Fan Screen cleaned.
- (3) Drain propylene out of oil trap pipe in upper plumbing weekly.
- (4) All controls should be cycled and checked periodically.
- (5) Screen in supply line strainer checked and cleaned periodically.
- (6) Check all belts for tension
- (7) Lubricate bearings as outlined.
- (8) Depending on operating and fuel conditions the burner ports may need to be cleaned periodically. Working from inside the plenum chamber and using a 5/64" diameter drill bit or torch tip cleaner open up the burner ports.
- (9) Keep all safety decals and operating instructions clean and legible. If any decals become non-legible, they should be replaced.

REMEMBER!!! an ounce of prevention is worth a pound of cure.

PREPARING DRYER FOR STORAGE

1

- (a) Open clean out door on bottom well, clean out all grain.
- (b) With masking tape or equivalent, seal holes in air switch tube, and openings in fuel system.
- (c) Relax belts.
- (d) Brush protective coating of oil on agitator roller & chain.
- (e) Lubricate all bearings.
- (f) Inspect for worn or damaged parts which should be replaced before being used again.
- (g) Set jacks to support dryer weight.

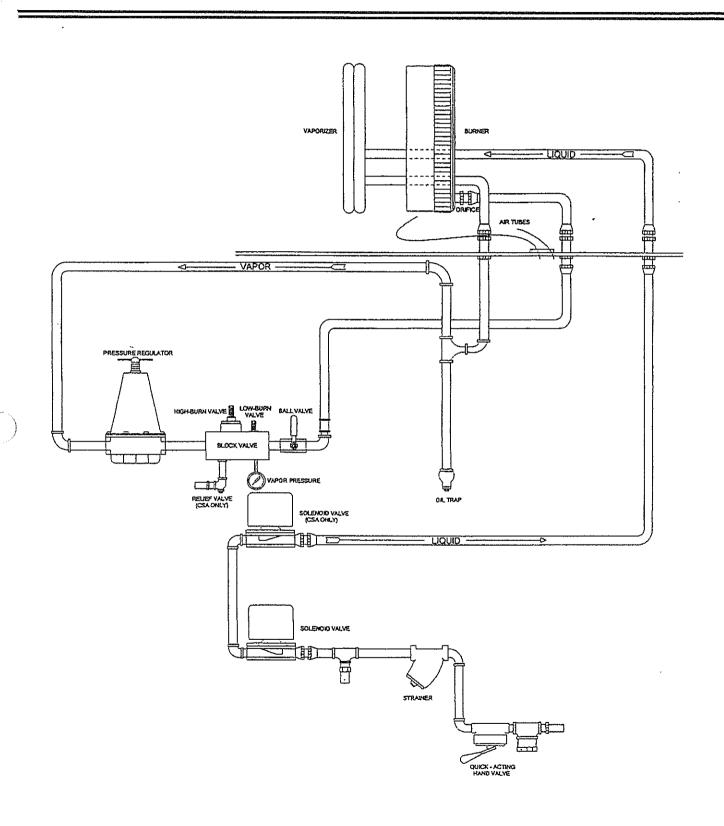
PREPARING DRYER FOR USE - OUT OF STORAGE

- (a) Remove masking tape covering openings.
- (b) Tighten Belts.
- (c) Lubricate all bearings.
- (d) Make certain bottom well is clean and close clean out door just prior to using.
- (e) Close plenum access door.
- (f) Check burner ports and clean if necessary. See item (8) of general operating maintenance.
- (g) Test fire the burner and check out all the controls to make sure they are working properly.
- (h) Level dryer and make certain the weight is equally distributed on the jacks.
- (i) Check safety and operating decals. If any are not legible they should be replaced.

22. TRANSPORTING THE DRYER

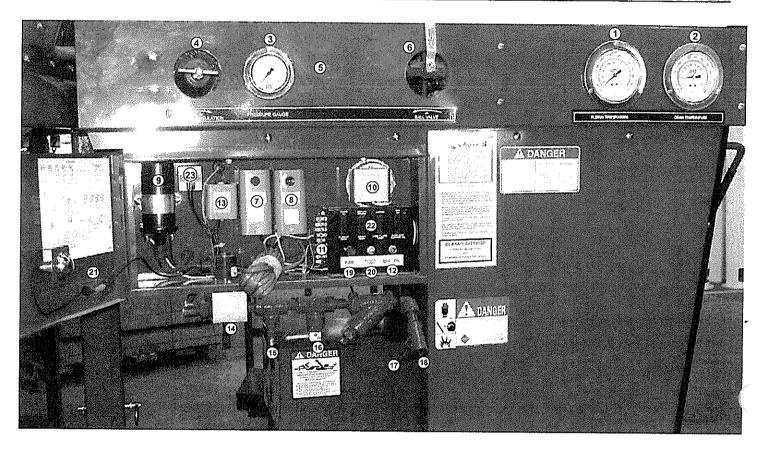
- a) Make certain the hitch pin is securely attached and an alternate hitch safety chain is secured to the dryer and towing vehicle.
- b) Do not transport the dryer at speeds in excess of 20 MPH (32 KPH) and comply with any local regulations governing marking, towing and maximum width.
- Do not transport the dryer after dark or during periods of poor visibility.
- d) Be alert to overhead obstructions and wires. Failure to do so will result in injury or electrocution. Removal of the top auger section is recommended before towing.
- e) Maintain proper tire pressure. (Refer to tire manufacturer's recommendations on the side wall.)

MAINTENANCE SERVICE AND TROUBLESHOOTING FOR GT GRAIN DRYERS PROPANE GAS FLOW CHART



THIS PICTURE SHOWS ALL COMPONENTS OF THE CONTROL SYSTEM OF THE GT DRYER. ALL PARTS ARE NUMBERED AND IDENTIFIED BY DESCRIPTION. THE FOLLOWING PAGES OF THIS MAINTENANCE AND SERVICE BULLETIN REFER TO THE INFORMATION CONTAINED HEREIN.

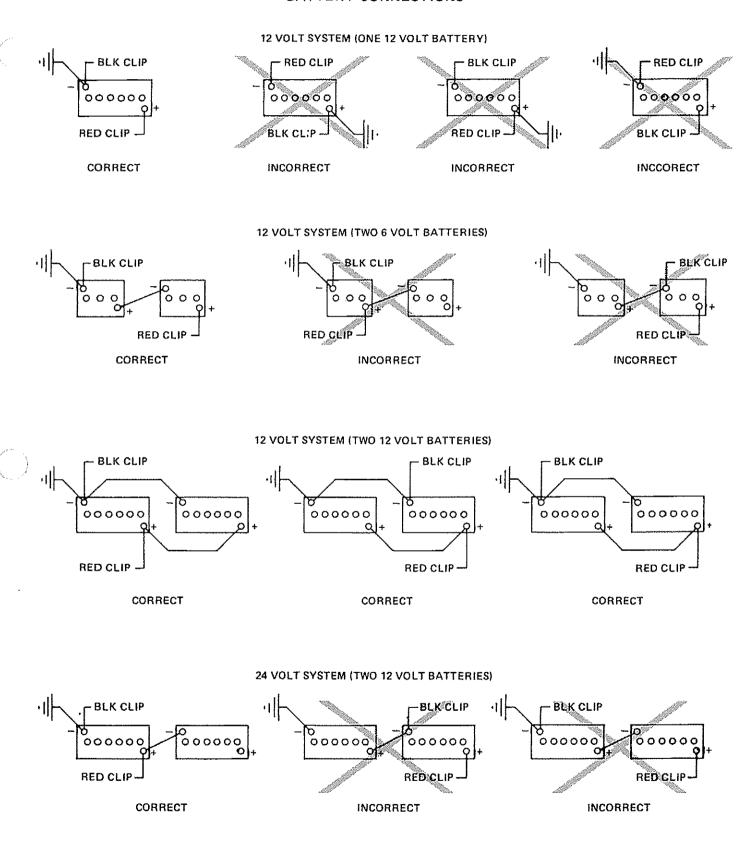
STUDY THIS INFORMATION. IT WILL GREATLY ASSIST YOU IN THE OPERATION OF YOUR DRYER.



- 1. Plenum Thermometer
- 2. Grain Thermometer
- 3. Pressure Gauge
- 4. Pressure Regulator
- Solenoid Block (located directly behind panel)
- 6. Ball Valve
- 7. Plenum Control
- 8. Grain Control, Temperature
- 9. Ignition Coil
- 10. Air Switch
- 11. Terminal Block

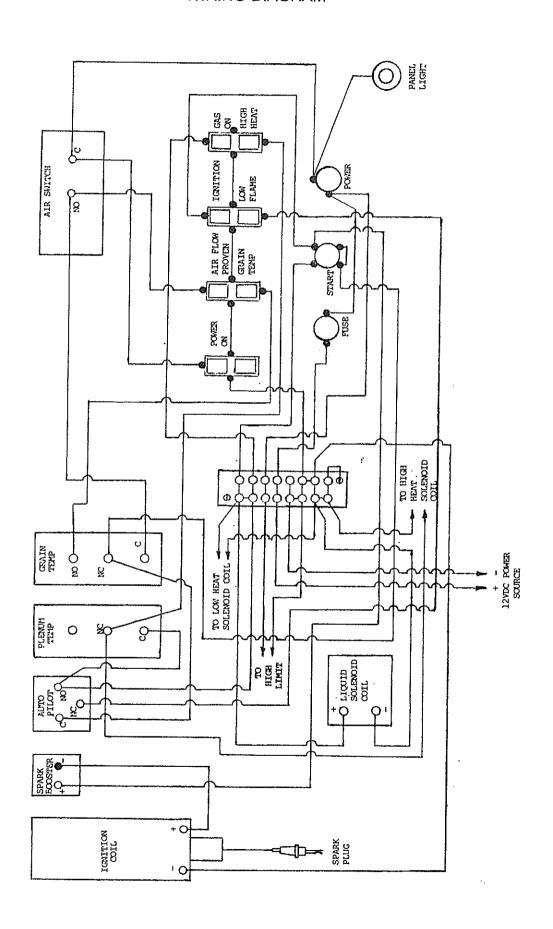
- 12. On-Off Switch (Power Switch)
- 13. Flame Detector
- 14. Solenoid Valve Liquid
- 15. Pressure Relief Valve
- 16. Manual Valve Propane
- 17. Strainer
- 18. Propane Inlet
- 19. Fuse
- 20. Start Switch
- 21. Panel Light
- 22. Indicator Lights
- 23. Spark Booster

BATTERY CONNECTIONS

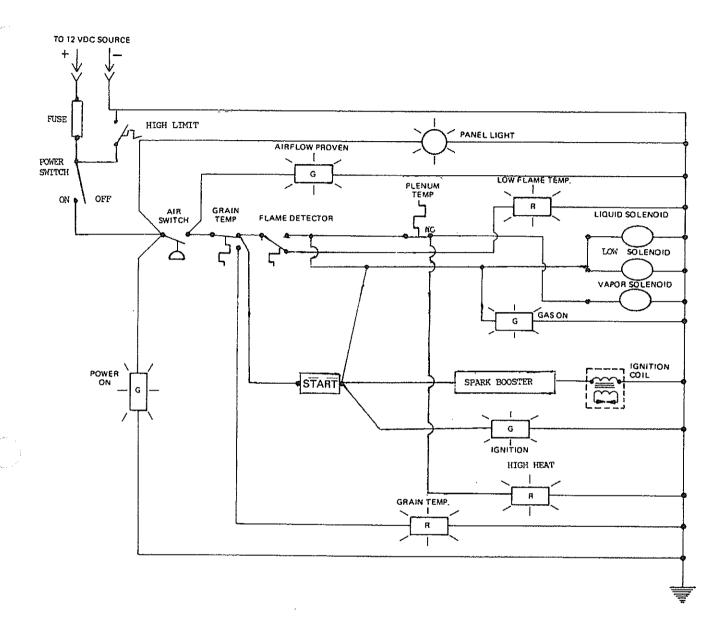


DENOTES TRACTOR GROUND

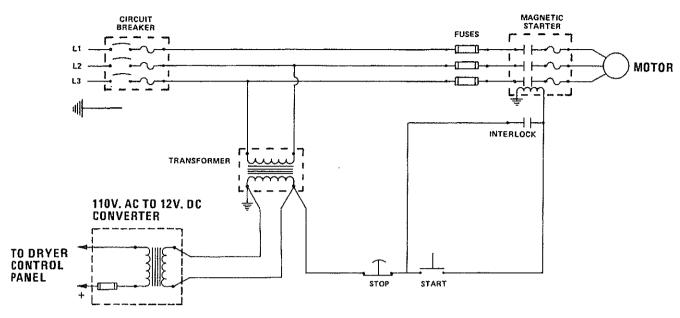
WIRING DIAGRAM



ELECTRIC SCHEMATIC - NON MICRO



SIDE MOUNT DRIVE SCHEMATIC



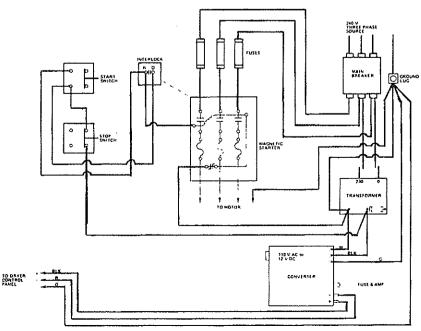
SIDE MOUNT DRIVE SEQUENCE OF OPERATION

With the circuit breaker connected to the proper source and in the "on" position the circuit is completed to the magnetic starter and to the stepdown voltage transformer. Voltage to the magnetic starter controls is now reduced to 110 VAC. Voltage to the burner control panel is fed through the 110 VAC to 12 VDC converter so that the burner controls operate on 12 volts.

Pushing the motor start button completes the circuit through the holding coil on the magnetic starter causing its contacts to close thus supplying power to start and run the motor.

When the starter contacts close, the contacts on the interlock also close which completes the circuit bypassing the start button. The start button may be released.

SIDE MOUNT WIRING DIAGRAM



TROUBLE SHOOTING



CAUTION: Caution should be exercised when checking control panel. Use volt meter or test light.

Problem A. BURNER WILL NOT LIGHT

Probable Cause

- 1. Are both tank and dryer fuel valves open?
- 2. Is power supply properly connected? (Green "power on" light should be on with the power switch in the on position.) Must have the red battery clip connected to the hot (+) side of the battery and the black clip connected to the ground (-) side of the battery. Refer to page 19 for proper battery connections.
- 3. Check that circuit breaker switch didn't trip.
- 4. Is grain temperature above control setting? (Red grain temperature light will be on if control setting is exceeded.)
- 5. Check to see that both solenoid gas valves are opening. With fan at operating speed, or with air switch jumpered, flip the "power" switch to "on" and watch pressure gauge. If valves open there should ne a pressure reading.
- 6. Air switch not closing (Airflow light not on). Remove and clean or replace air switch tube.
- 7. Check for plugged orifice.
- 8. Possible loose wire connection.
- 9. Gas pressure to low. May require up to 5 psi. for ignition with propane burner.
- 10. Gas pressure too high. 30 psi. is near maximum for ignition with the propane burner. If gas pressures above 30 psi. are encountered, check the 5/64" diameter burner parts for signs of plugging and clean them out if necessary.
- 11. System improperly grounded. Check lead wire connections at terminal block.
- 12. Check plug for spark. If no spark check the following after disconnecting power to the system.
 - a. Check spark gap. Gap should be 3/32" ± 1/32". If plug is carboned at the points, clean and replace after checking gap.
 - b. Check high voltage lead wire for cracks or breaks, and replace if necessary.
 - c. Check that the high voltage lead wire is not too close to a metal surface to insure that arcing will not occur at any point other than across the high voltage electrode at the ignitor.
- Check fuel strainer.
- 14. Check fuse.

Problem B. BURNER LIGHTS BUT PRESSURE WILL NOT EXCEED 5 TO 6 POUNDS AND/OR HAS EXCESSIVE FLUTTERING.

Probable Cause

1. Vapor solenoid valve malfunctioning.

Solution:

Disassemble solenoid valve body and remove diaphragm. If diaphragm is oily or dirty, wipe clean and replace. If diaphragm is ruptured replace with new diaphragm.

Pressure regulator malfunctioning.

Problem C. BURNER IGNITES BUT GOES OUT DURING OPERATION.

Probable Cause

- 1. Plenum control set below plenum temperature. (Red plenum temperature light will be on.)
- 2. Grain temperature exceeds control setting. (Red grain temperature light will be on.)
- 3. Electrical connections may be loose.
- 4. Worn insulation or wet wires may be grounding out.
- 5. Excess flow valve at fuel tank may be closing.
- 6. Check for stoppage in air switch tube. (Green airflow light not on.) (Remove tube from switch and blow out dirt.)
- 7. The flame detector bulb is not sensing flame at the burner. (Red low flame light on) The flame detector must sense enough heat from the flame to close its contacts before the delay timer times out or the gas valves will close. If the flame detector is not closing it will be necessary to adjust the sensor bulb mounted to the burner so that it picks up more heat from the flame. To do this adjust bulb so that it protrudes into the burner 3/8 to ½". Do not over-tighten the locking nut on the flame detector bulb.

Problem D. UNCONTROLLABLE HEAT.

Probable Cause

- 1. Cracked Vaporizer.
- 2. Ruptured gas line.

Problem E. TRASH OR GRAIN FIRE.

Probable Cause

- 1. Excessive plenum temperature.
- 2. Trash build-up in plenum.
- 3. Poor circulation due to agitator being out of operation or adjustment.
- 4. Ruptured gas line or vaporizer.
- 5. Improper burner and baffle adjustment.

Solution:

- Shut off gas supply.
- b. Disengage fan clutch and continue to circulate grain in machine or empty machine if necessary.

Problem F. GAS WILL NOT SHUT OFF IMMEDIATELY WHEN POWER IS SHUT OFF.

Probable Cause

- 1. Perforated diaphragm in vapor solenoid valve.
- 2. Plunger upside down in vapor solenoid valve.
- 3. Lack of diaphragm in vapor solenoid valve.

Problem G. AGITATOR DRIVE CHAIN OFF



DANGER Do not open inspection door or enter machine when in operation.

Probable Cause

- 1. Roller stuck seized bearing may be flat on one side.
- 2. Too much horizontal play between agitator race and rollers.
- 3. Agitator drive sprocket out of line.
- 4. Too slack a chain.
- 5. Excess feeding of loading auger causing grain level to rise above agitator. (Close grain flow regulator slightly to reduce feed rate.)

Problem H. AUGER STOPPAGE

Probable Cause

- 1. Slack belt.
- 2. Block of wood or rock lodged between auger flight and housing.
- 3. Extremely wet grain standing over night.
- 4. Bottom auger bearing frozen.

Problem I. EXCESSIVE DRYING TIME

Probable Cause

- 1. Too low plenum temperature for conditions.
- 2. Inaccurate plenum temperature gauge.
- 3. Poor circulation of grain.
- 4. Dirty or trashy grain.
- 5. Hard to dry grain variety (Thick seed coat)
- 6. Incorrect Fan Speed.
- 7. Adverse weather conditions.
- 8. Re-circulation of exhaust air from dryer back into plenum.

Problem J. POOR GRAIN CIRCULATION

Probable Cause

- 1. Fan speed above that recommended.
- 2. Build up of foreign material, especially in bottom section of dryer.
- 3. Agitator not operating.

INDICATOR LIGHT CHECK OUT PROCEDURE

The indicator lights on the dryer's switch panel have been put there to aid in the operation of the dryer. These lights should be checked periodically to assure that they are operating.

With the fan operating at the recommended RPM, the electrical power source properly connected, the gas supply turned on, and all the gas valves open complete the following test.

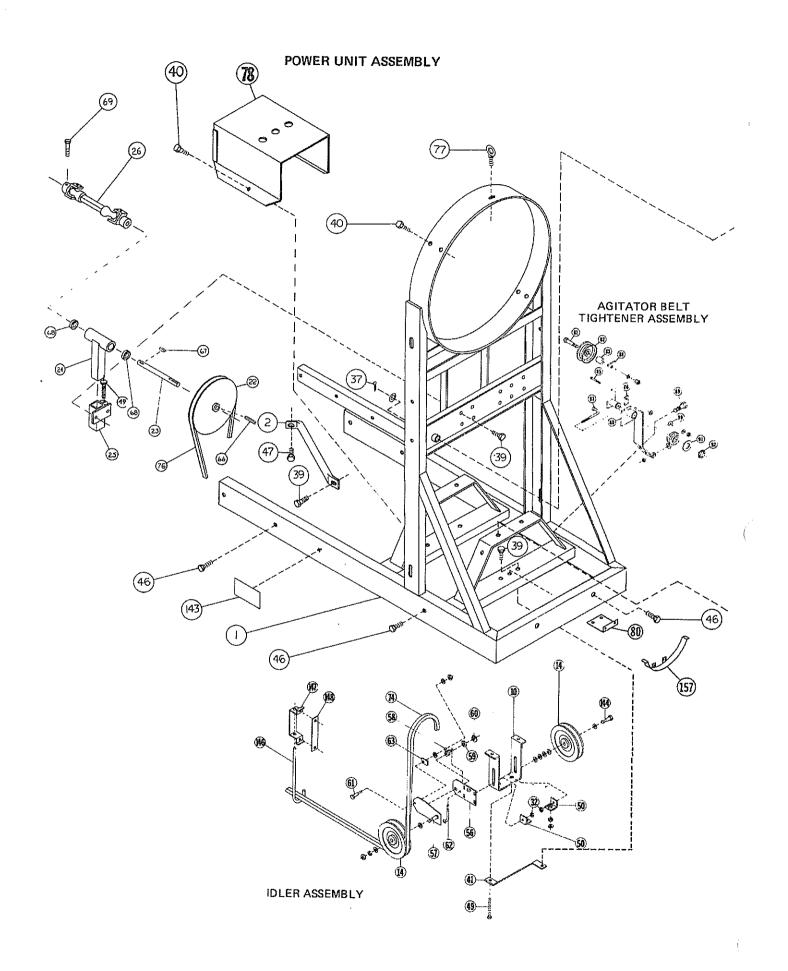
Turn the power switch on and see that the green "power on" and "air flow proven" lights come on. Also see that the red "low flame temperature" light comes on.

Push the start button, the ignition light and the gas on light will come on. Hold start button until the red low flame light goes off and then release.

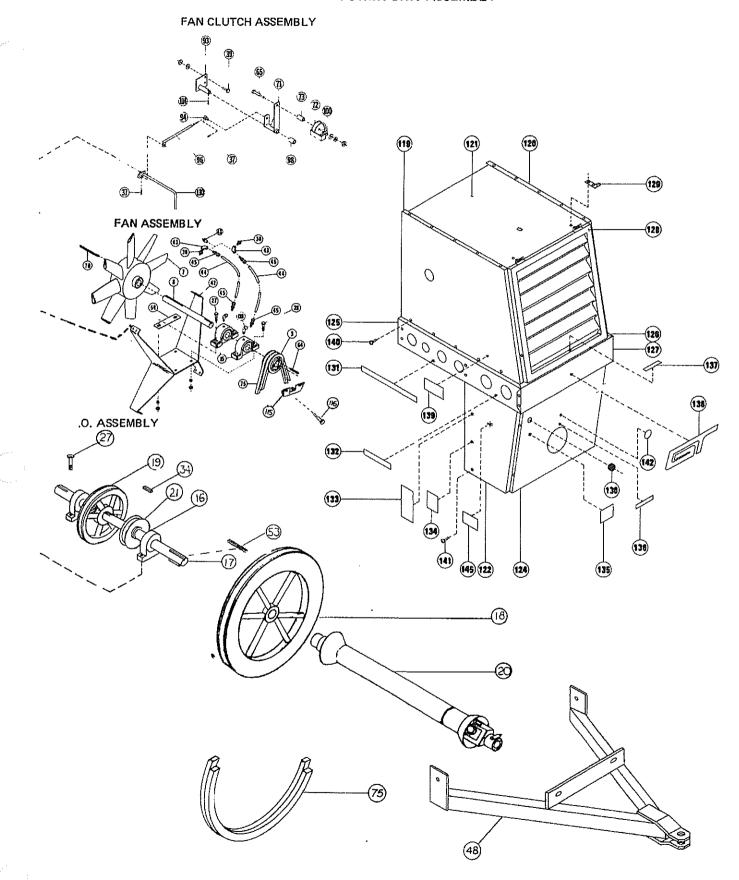
Panel should now register the normal operating condition, i.e. green "power, airflow and gas on" lights on. There will be no red lights on unless the High Heat thermostat is above the plenum temperature, the the High Heat Red light will be on.

Turn grain temperature thermostat below indicated grain temperature. The red grain temperature light will come on and the gas on light should go off. After approximately 20 sec. the low flame light will come on.

ASSEMBLY DRAWINGS AND PARTS LISTS



POWER UNIT ASSEMBLY



POWER UNIT ASSEMBLY

POWER UNIT ASSEMBLY				
REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION	
1 2	D52016 D52021	1 2	Frame Power Brace	
3	76006	1	Sheave, Fan Driven (2B 5.6) 545XL	
3	76047	1	Sheave, Fan Driven (2B 6.0) 645XL	
7	76007 D52075A	1	Hub, Fan Driven Sheave	
7	D52076A	1	Fan, 545XL Fan, 645XL	
	76067	1	Hub, 1½"	
8 10	D52081	1	Shaft, Fan	
14	D32010 D22142	1	Support, Idler Sheave, Idler	
14	D22145	2 2 2 2	Sheave, Idler Sheave, Cast (UK)	
15	D22090	2	Bearing, 1½" Pillow Block w/Shim & Adapter	
16 17	D22097	2	Bearing, 1½" Pillow Block	
18	D22161S D22170	1	Shaft, Power Sheave, Fan Drive (2B 24)	
19	D22180	i	Sheave, Auger Drive (2B 24)	
20	D52194	1	Tumbler, PTO Drive (See page 33 for parts)	
21 22	D22780 D22790	1	Sheave, Agitator Drive (1B4)	
23	D22790 D22850	1	Sheave, Agitator Driven (1B16) Jackshaft, Agitator	
24	D22861	1	Housing, Agitator Bearing w/o Bearings	
24	D22866	1	Agitator Bearing Housing w/Bearings	
25 26	D22871 D58250	1	Mount, Agitator Bearing Housing	
27	71106	6	Tumbler, Agitator Drive (See page 32 for parts) Capscrew, ½" x 2"	
28	71107	2	Capscrew, ½" x 2½"	
29	71823	28	Machine Screw - 1/4" — 20 x 1/2" Slotted Head	
31 32	72591 72255	4	Machine Bushing, 7/8"	
34	73411	4 2 2 2 3	Nut, 5/8" Jam Key, 3/8" sq. x 1½" lg.	
37	73534	2	Pin, Cotter 1/8" x 11/4"	
38 39	71129 71102		Capscrew, 5/8" x 1½"	{
40	7102	11 12	Capscrew, ½" x 1" Capscrew, 3/8" x 1½"	
41	D52632	1	Brace, Idler Support	
42	D52691	1	Brace, Fan Shaft Support	
43 44	73332 D52930	2	Zerk, 1/8" NPT Female Grease	
45	73109	2 2 4	Grease Line, Fan Bearing Compression Fitting, 3/16" Tube to 1/8 N.P.T.	
46	71111	8	Capscrew, 1/2" x 31/2"	
47 48	71113 DE2464	1	Capscrew, ½" x 4½"	
46 49	D52461 71957	1 3	Hitch Capscrew, ½" x 5" Full Thread	
50	D22260	2	Tightener	
53	73415	1	Key 3/8" sq. x 41/4"	
54 56	D22099 D22801	As Req'd.	Spacer Fixed Member Springs Landard Liller	
57	D22812	1	Fixed Member, Spring Loaded Idler Pivot Member, Spring Loaded Idler	
58	73308	1	Spring	
59 60	D22820	1	Washer	
61	73231 71028	1	Ring, Retaining Capscrew, 5/16" x 1¼"	
62	D22840	1	L-Bolt	
63	D22830	1	Stop, Pivot	
64 65	73411 71110	1	Key, 3/8" x 3/8" x 1½"	
6 6	73400	3 1	Capscrew, ½" x 3" Key, ¼" sq. x 1¼"	
67	42-18282	1	Key, 808 Woodruff	
68	42-16334	2	Bearing, Agitator Jackshaft	
69 70	73508 73420	1	Capscrew, 3/8" x 21/2" H.T.	
70 71	75420 D52161	1	Key, 3/8" sq. x 6-3/8" Arm, Fan Clutch Idler	
72	42-16336	1	Pulley, Idler	1
73	D32220	1	Spacer	
74 75	D52620 D52271	1 2	Belt, Auger Drive (C255)	
70	DUZZII	۷	Belt, Fan Drive (B148)	

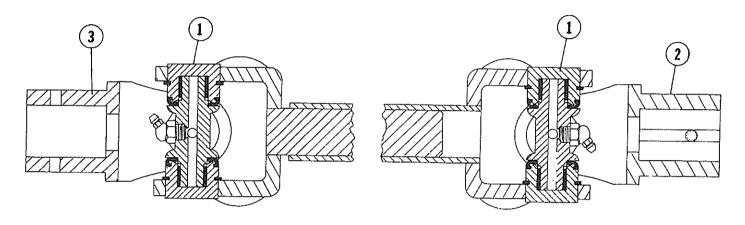
POWER UNIT ASSEMBLY

	POWER UNIT ASSEMBLY				
F	REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION	
	76	42-16125	1	Belt, Agitator Drive (B85)	
	77	71941	1	Eyebolt, 1/2" x 11/2"	
	78	D22652	1	Guard, Power Shaft	
		D5291		Agitator Idler Assembly	
	79	71051	1	(includes items 81-92 inclusive) Capscrew, 3/8" x ¾"	
	80	D57135	1	Belt Retainer, Lower Fan	
	81	71109	1	Capscrew, ½" x 2¾"	
	82	42-16335	1	Pulley, Idler	
	83	D22927	1	Spacer, Idler	
	84 85	D22926 71029	1	Arm, Idler	
	86	D22830	1	Capscrew, 5/16" x 1½" Stop, Pivot	
	87	D22840	i	L-Bolt	
	88	D52926	1	Mount, Idler	
	89	71053	2	Capscrew, 3/8" 11/4"	
	90 91	73308	1	Spring	
	92	D22820 73231	1	Washer Ring, Retainer	
	93	D52171	i .	Pivot Clutch Idler	
	94	D32270	1	Pin, Fan Clutch Swivel	
	96	D52235	1	Arm, Link	
	98	D32040	1	Tube, Belt Retaining	
	100 110	D32260 D52152] 1	Guide, Fan Clutch Belt Handle, Fan Clutch	
	114	73536	1	Pin, Cotter 1/8" x 1¾"	
	115	D32250	1	Brake, Fan Sheave	
	116	71061	2 1	Capscrew, 3/8" x 31/2"	
	117	72364	1	Nut, 3/8" Spot Weld	
	118	73048		Adapter, Grease Line, ¼" x 28 Male to 1/8" N.P.T. Female x 90°	
	119	D52663	1	Panel, Right Fan Guard	
	120	D52671	1	Panel, Left Fan Guard	
	121 122	D52042 D52885	1	Panel, Top Fan Guard Panel, Right Belt Guard	
	123	D52880	1	Panel, Left Belt Guard	
	124	D52062	1	Guard, Front Belt	
	125	D52893	1	Wrapper, Right Power Frame - (LP Gas)	
	125	D52898	1	Wrapper, Right Power Frame - (NP)	
	126 127	D52130 D52900	1 1	Wrapper, Left Power Frame Wrapper, Front Power Frame	
	128	D52052	1	Grill	
	129	D32120	2	Grill Hinge Strap	
	130	73278	1	Grommet	
	131	73957	1	Decal, Valve	
	132 133	73958 73682	1	Decal, Plenum & Grain Temperature Decal, Caution Be a Safe Operator	
	134	73661	1	Decal, Danger LP Gas Supply	
	135	73668	1	Decal, Caution Fan Clutch	
	136	73607	1	Decal, Max. PTO Speed 540 RPM	
	137	73619	1	Decal, Max. Fan Speed 2250 RPM	
	138 139	73949 74712	1 1	Decal, GT Logo Decal, 545XL	
	140 ·	71823	42	1/4" x 20 x 1/2" Slotted HD Machine Screw	
	141	71825	6	1/4" x 20 x 3/4" Slotted HD Machine Screw	
	143	73833	1	Decal, Danger: Keep Hands & Feet Away	
	144	71135	1	Capscrew, 5/8" x 3"	
	145 146	73981 D21420	1 1	Decal, DANGER - Electrocution	
	140	D21420 D21430	1	Rod, Auger Belt Guild Bracket, Auger Belt Guide Rod	
:	148	D21440	1	Clamp, Auger Guide Bracket	
	157	D57325	1	Guide, Fan Belt	

Note: For nuts, washers and lockwashers, see page 63

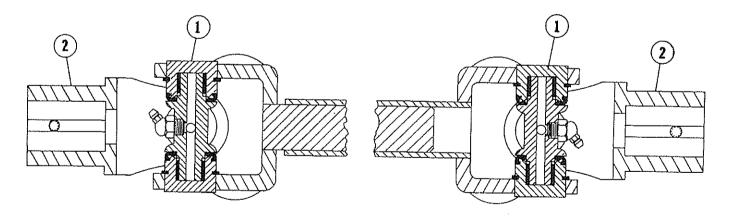
AGITATOR DRIVE TUMBLER D58250

REF. NO.	PART NO.	NO.REQ'D	DESCRIPTION	
1 2	75519 42-16182	2 1	U-Joint Kit Yoke w/Keyway	
3	73596	1	Yoke w/Pin Hole	



LOADING AUGER TUMBLER D59343

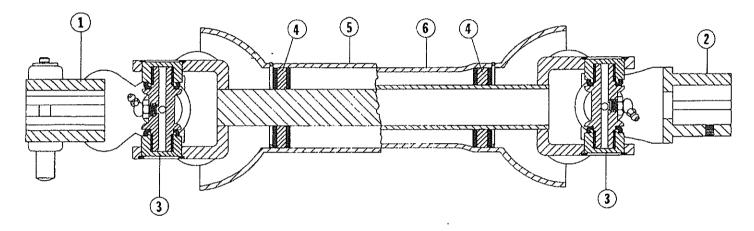
REF. NO.	PART NO.	NO.REQ'D	DESCRIPTION	
1 2	75519 42-16182	2	U-Joint Kit Yoke w/Keyway	



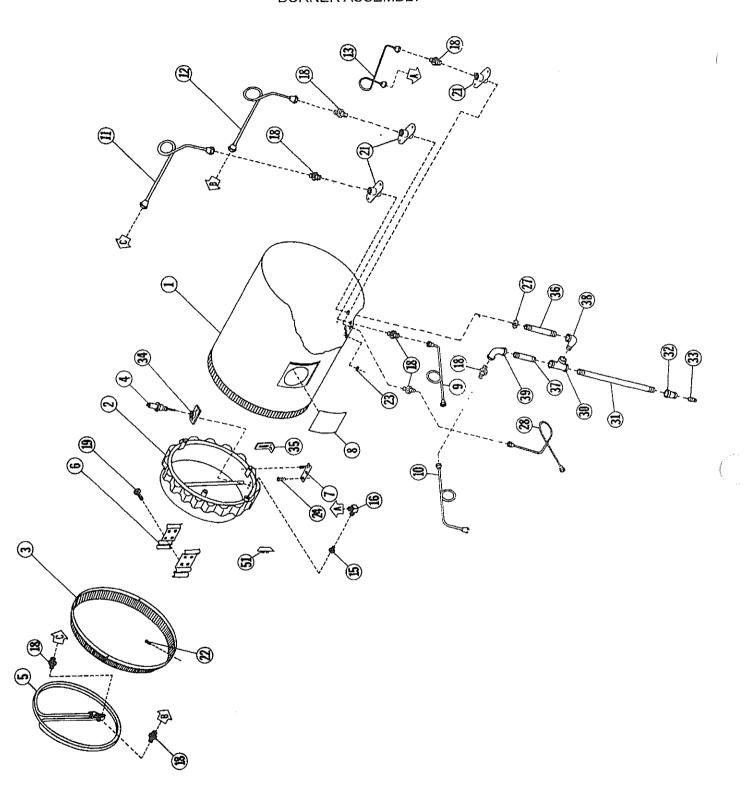
Note: For nuts, washers and lockwashers, see page 63.

PTO TUMBLER SHAFT D52194 TUMBLER

	REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
_	1	73299	2	Yoke w/Spline
	2	73299		1-3/8 Sp Yoke wohd
	3	73298	2	U-Joint Kit
	4	75514	2	Nylon Bearing Kit
	5	75516	1	Safety Shield, Outer
	6	75515	1	Safety Shield, Inner



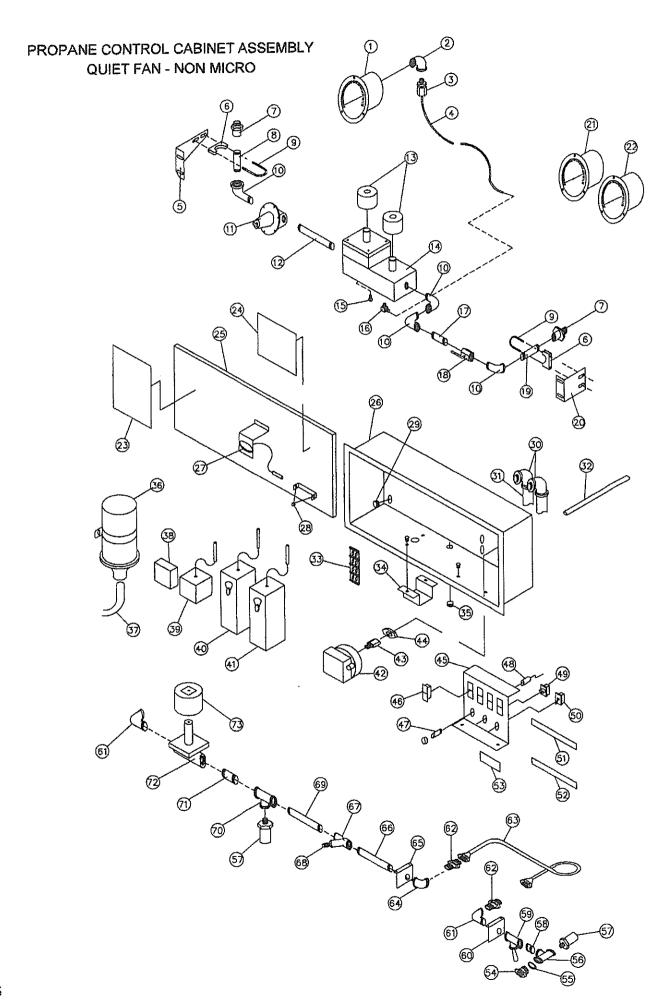
BURNER ASSEMBLY



BURNER ASSEMBLY

	DONNEN AOSEMBLI				
	REF. NO.	PART NO.	NO.REQ'D.	DESCRIPTION	
	1	D52295	1	Tube, Burner (Propane)	
	1	D52960	1	Tube, Burner (Natural Gas)	
	2	D52303	1	Burner, Ring (Propane)	
	2	D52305	1	Burner, Ring (Natural Gas)	
	3	D52520*	1	Ring, Flame Deflector	
	4	D22320	1	Spark Plug	
	5	57001279*	1	Vaporizer, Ring	
	6	57001242*	2	Bracket, Vaporizer	
	7	57001240	3	Mount, Burner	
	8	D22462	1	Window, Plexiglass	
	9	D52110	1	Tube, Outside Liquid to Vapor	
	9	D32331*	1	Tube, Outside Liquid to Vapor (CSA)	
	10	D32312*	1	Tube, Outside Vapor to Plumb.	
	11	57001268*	1	Tube, Inside Vapor	
	12	57001267*	1	Tube, Inside Liquid	
	13	D52374*	1	Tube, Inside Vapor to Burner	
	15	D52404	1	Orifice - LP	
	16	D32301	1	Holder, Orifice	
	18	73086*	8	Adapter, ½" P. to ½" T. Union	
	19	71028*	4	Capscrew, 5/16" x 11/4" Hex	
	21	D37330	3	Coupler, Union Brkt.	
	22	71942*	4	Screw, No. 14 x 3/4" Metal	
	23	73270	2	Grommet, 3/8" I.D. Rubber	
	24	71825	8	Machine Screw, ¼" - 20 x ¾" SL HD	
	25	72035	2	Screw, No. 8 x 1/4" Metal	
	27	77100*	1	Nut, Conduit	
	28	D52121*	1	Tube, Outside, Vapor to Burner	
. 1	29	72790*	1	Nipple, ½" Close	
	30	72947*	1	Tee, ½" x ½" x ½" N.P.T.	
	31	72928*	1	Nipple, ½" x 13"	
	32	72910*	1	Reducer, ½" x ¼"	
	33	72633*	1	Plug, ¼" N.P.T. Pipe	
	34	57001241	1	Mount, Spark Plug	
	34	D55520	1	Mount, Spark Plug (NG)	
	35	D32130	1	Bracket, Flame Detector Bulb Mount	
	36	72797*	1	Nipple, ½" x 4½" XH	
	37	72793*	1	Nipple, ½" x 2½" XH	
	38	72946*	1	Elbow, ½" x 900 St.	
	39	72945*	1	Elbow, ½" x 900	
	51	D32370	1	Shield, Burner (Propane)	
	51	D55510	1	Shield, Burner (NG)	

NOTE: *Propane Burners Only

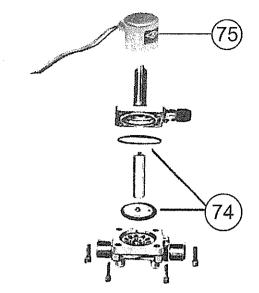


	REF. NO.	PART NO.	NO.REQ'D.	DESCRIPTION
	1	D25102	1	Gauge, Pressure
1	2 3	72841 .	1	Elbow, 1/4" x 90°
	3	73110	1	Connector, 1/4" Tee to 1/4" Pipe
	4	D55310	1	Line, Pressure Gauge
	5	D25632	1	Bracket, Rear Plumbing
	6	D25610	2	Clamp, ½" Saddle
	7	73071	2	Connector, 1/2" Tee to 1/2" Pipe
	8	72792	1	Nipple, ½" x 2"
	9	71987	2	U-Bolt
	10	72858	4	Elbow, 1/2" Street
	11	D25191	1	Regulator, ½" Pressure
	12	72799	1	Nipple, ½" x 6" SCD80
	13	77575	2	Coil, Solenoid Block
	14	77587	1	Valve, ½" Solenoid Block
	15	73146	1	Plug, 1/4" NPP Brass
	16	73047	1	Elbow, 90° Brass, ¼" Tee
	,			to ¼" M.N.P.T.
	17	72791	1	Nipple, ½" x 1½"
	18	74123	1	Valve, Ball
	19	72793	1	Nipple, ½" x 2½"
	20	D25620	1	Bracket, Front Plumbing
	21	D24033	1	Thermometer, Plenum
	22	D24123	1	Thermometer, Grain
)	23	74714	1	Decal, Operating Instructions
1	24	74715	1	Decal, Wiring Diagram
	25 26	D25511	1	Door, Cabinet
	26 27	D25863	1	Cabinet
	21 28	73223 73270	1	Light, Utility 12 volt only Grommet, 3/8" I.D. Rubber
	20 29	73270 73271	2 2	Grommet, 1/2" I.D. Rubber
	30	73159	4	Connector, 3/8" x 90 Degree
	31	D55260	2	Conduit, 25" Long
	32	D52321	1	Tube, Air Switch
	33	77230	1	Block, Terminal
	34	D25252	1	Bracket, Solenoid
	35	73278	1	Grommet, 5/8" I.D. Rubber
	36	77228	1	Coil
	00	77229	1	Bracket, Coil
	37	77540	1	Wire, Spark Plug
	38	77384	1	Booster, Spark
	39	D25161	1	Flame Detector
	40	D25770	1	Switch, Plenum
		77393	1	Knob, Switch
	41	K25231	1	Thermostat, Grain Temperature
	42	K25030	1	Air Switch
	43	73110	1	Connector, 1/4" Tee to 1/4" Pipe
	44	72279	1	Nut, 1" N.F. Hex Ham
)	45	D25212	1	Bracket, Switch
1	46	77162	4	Light, Indicator
	47	77143	1	Fuse, 10 Amp

PROPANE CONTROL CABINET ASSEMBLY - QUIET FAN - NON MICRO

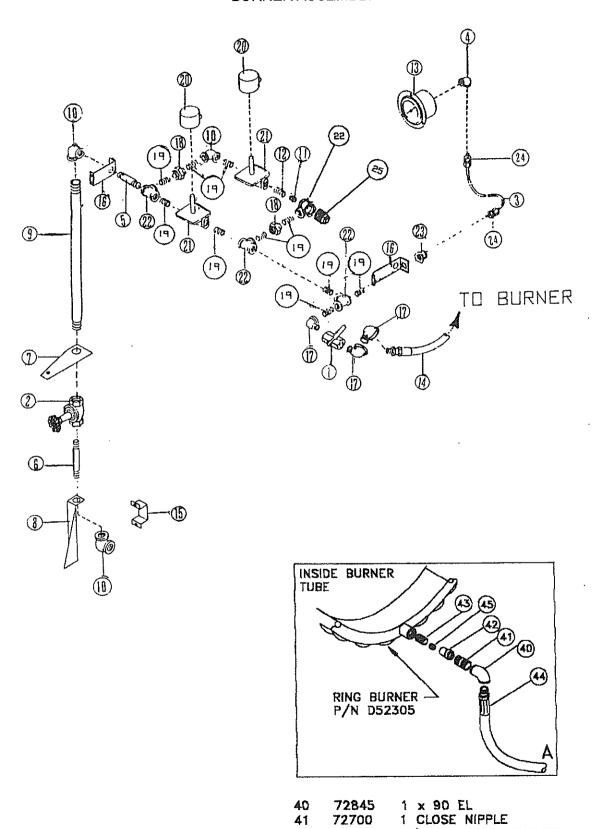
REF. NO.	PART NO.	NO.REQ'D.	DESCRIPTION	
48	D25170	1	Holder, In-Line Fuse	, or many
49	D25140	1	Switch, Push to start	
50	D25130	1	Switch, On - Off	
51	74530	1	Decal, Green Indicator	
52	74615	1	Decal, Red Indicator	
53	74725	1	Decal, Push to Start	
54	90037	1	Connector, 1/2" Hose to 3/8" N.P.T.	
55	72595	1	Washer	
56	72956	1	Tee, 3/8"	
57	D25240	2	Valve, 1/4" N.P.T. Relief	
58	72780	1	Nipple, 3/8" Close	
	72890	2	Bushing, 3/8" x 1/4" Reducer	
59	D25120	1	Valve, 3/8" N.P.T. Quick Acting	
60	D25275	1	Bracket	
61	72944	2	Elbow, 3/8" N.P.T. Street	
62	73085	2	Connector, ½" tube to 3/8"	
63	D57242	1	Tube, Liquid Inlet	
64	72948	1	Elbow, 3/8" N.P.T.	
65	D25272	1	Bracket, Plumbing	
66	72784	2	Nipple, 3/8" N.P.T. x 3" X.H.	
67	D25280	1	Strainer, 3/8" N.P.T.	
68	72653	1	Plug, 3/8" N.P.T. Pipe	
69	72787	1	Nipple, 3/8" x 41/2"	
70	72956	1	Tee, 3/8" N.P.T.	
	72980	1	Bushing, 3/8" x 1/4" Red	
71	72781	1	Nipple, 3/8" N.P.T. x 11/2" X.H.	
72	77640	1	Body, 3/8" N.P.T. Solenoid Valve	
73	77641	1	Coil, Solenoid Valve 12 volt	

SOLENOID VALVE ASSEMBLY



	~~	
REF. NO.	PART NO.	DESCRIPTION
74	77643	Kit, 3/8" Solenoid Valve Diaphram Repair
74	77643	Kit, 1/2" Solenoid Valve Diaphram Repair
75	77641	Coil, 12 Volt Solenoid Valve, 27" Leads w/Forks

BURNER ASSEMBLY



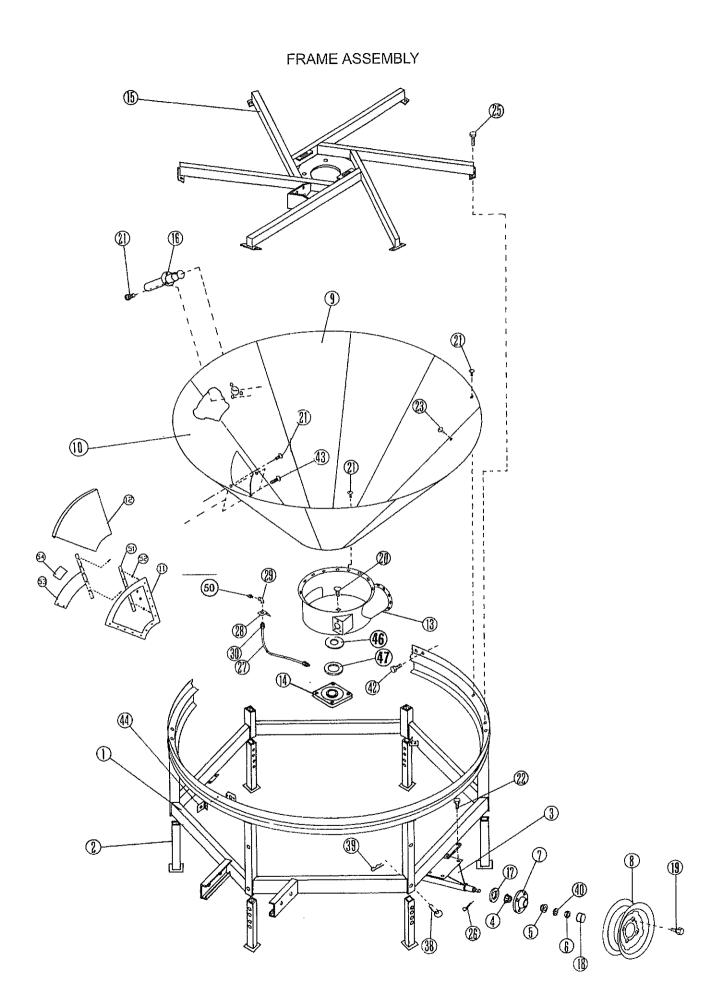
42

43 44 45 72904

D25895 D52441 D52413 3/4 X 1 BELL REDUCER NIPP[E, ORIFICE 1 X 32 HOSE ORIFICE 3/8 NG .5 NPT

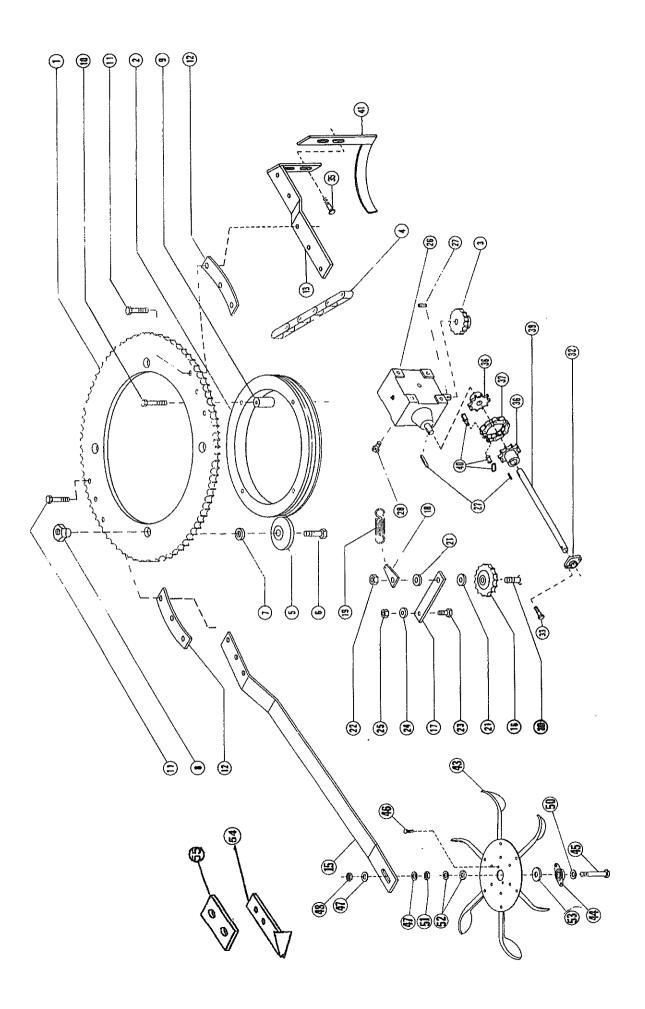
545 NATURAL GAS PLUMBING

	REF. NO.	PART NO.	NO. REQ'D	DESCRIPTION
	1	D55650	1	Valve, 1" Ball
	2	73185	1	Valve, 1" Gate
	3	D25305	1	Line, Pressure Gauge
	4	72841	1	Elbow, 1/4" NPT x 900
	5	72705	1	Nipple, 1" x 31/2"
	6	72712	1	Nipple, 1" x 7"
	7	D52950	1	Bracket, Lwr Plumbing
	8	D32940	1	Bracket, Long Lwr Plumbing
	9	72932	1	Nipple, 1" x 15"
	10	72845	3	Elbow, 1" x 900
	11	D52412	1	Orifice, NG Low Burn
	12	D55895	1	Holder, Orifice
	13	D25102	1	Gauge, Pressure
	14	D52441	1	Hose, 1" x 32" NG
	15	D52955	1	Clamp, Lwr NG Plumbing Brkt.
	16	D52941	2	Bracket, NG Plumbing
	17	72860	3	Elbow, 1" x 900 Street
	18	72716	2	Union, 1" Pipe
	19	72700	10	Nipple, 1" Close
	20	77646	2	Coil, Solenoid Valve 12 VDC (27")
	21	77645	2	Valve, 1" Solenoid
	22	72916	4	Tee, 1" x 1" x 1"
	23	72911	1	Reducer, 1" to 1/4" Bell
	24	73110	2	Fitting, 1/4" NPT to 1/4 comp.
•	25	72713	1	1" Pipe Plug



FRAME ASSEMBLY

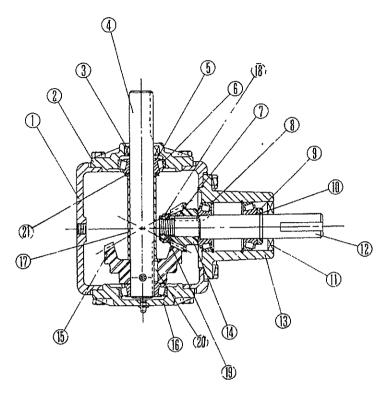
REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
1	D51015	1	Main Welded Frame Less Hitch
2	D21021	6	Jack
4	D21021	6	Adjustable Jack (Optional)
3	D51032	2	Axle Assembly
4	42-110149	4	·
5	D21050	4	Inner Bearing
6	D21060	4	Outer Bearing
7			Nut
8	D21075	4	Hub with Bearing Cups
O	D21080	4	Wheel Rim 15"
0	D21085	4	Tire, Tube & Rim (Mounted)
9	D51450	8	Bin Bottom Sheet (Perf. Coated)
9	D53311	8	Bin Bottom Sheet (Perf.)
10	D51460	1	Bin Bottom Sheet w/Access Hole (Perf. Coated)
10	D53322	1	Bin Bottom Sheet w/Access Hole (Perf.)
11	D21124	1	Access Door Frame
12	D21133	1	Access Door
13	D51144	1	Bin Bottom Well w/Boot
14	D21161H	1	Bottom Auger Bearing
15	D51173	1	Spider - 545XL
15	D71170	1	Spider - 645XL
16	D21182	1	Grain Sampler
17	D21190	4	Seal
18	D21200	4	Cap
19	42-16053	16	Lug Bolt
20	71329	4	Carriage Bolt 1/2" x 11/2"
21	71823	129	1/4" - 20 x 1/2" Slotted HD Machine Screw
22	71103	8	½" x 1¼" Capscrew
23	71822	150	1/4" - 20 x 3/8" Slotted HD Machine Screw
25	71053	20	3/8" x 11/4" Capscrew
26	73527	4	5/32" x 11/4" Cotter Pin
27	D51190	1	Line, Grease
28	D21220	1	Bracket, Line
29	72840	1	Elbow, 1/8"
30	73109	2	1/8" Compression Fittings
38	73586	6	Pin
39	73587	6	Clip
40	72474	4	³ / ₄ " Washer
42	71054	2	3/8" x 11/2" Capscrew
43	71825	2	1/4" - 20 x 3/4" Slotted Head Machine Screw
44	D22491	1	Bracket, Conduit
46	73289	1	Seal, 2" I.D. Neoprene Shaft
47	73290	1	Seal, 2.72" I.D. Neoprene Bearing
48	D51400	1	Bin Bottom Sheet (Solid)
50	42-16127	1	Zerk, 1/8" Grease
50 51	D21500	1	·
51 52		6	Track
	72488 D21136	6	Washer, Hi-Lock
53 54	D21136	1	Bar, Safety
54	74716	1	Decal Modeling 20 Car Bulb as
	73287	1 ft.	Moulding, 20 Ga. Rubber



AGITATOR ASSEMBLY

 		AGHA	TON ASSEMBLE
 REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
1	D28033	1	Sprocket, No. 60, 112 Teeth
2	D28260	1	Race, Agitator
3	D28090	1	Sprocket, No. 60, 13 Teeth
4	D28141	1	Chain, No. 60 Roller 128 Pitches
5	D28161	4	Roller, Agitator w/Bearings
_	A28000	4	Roller Brg. Kit
6	73521	4	Capscrew, 3/4" x 2 3/4" HT
7	72522	4	Washer
8	D28204	4	Nut, Cam
9	D28270	4	Spacer
10	73519	4	Capscrew, 7/16" x 5" HT
11	73504	6	Capscrew, 7/16" x 21/2" HT
12	D28082	4	Spacer, Agitator Arm
13	D58212	1	Arm, Horiz. Sect. Vertical Agitator (Standard)
15	D58064	1	Arm, Horizontal Agitator
16	D28172	1	Sprocket, No. 60 Idler 15 Teeth
17	D28181	1	Arm, Idler
18	D28280	1	Tab, Spring
19	D28190	1	Spring
20	71132	1	Capscrew, 5/8" x 21/4"
21	72413	2	Washer, 5/8"
22	72376	_ 1	Nut, 5/8" Lock
23	71103	1	Capscrew, ½" x 1¼"
24	72412	1	Washer, ½"
25	72379	1	Nut, ½" Lock
26	D28241	1	Gearbox
27	73400	3	Key, ¼" Square x 1¼" Lg.
28	71052	4	Capscrew, 3/8" x 11/2"
32	D28290	1	Bearing w/Collar
33	71029	2	Capscrew, 5/16" x 11/2"
35	71331	2	Bolt, ½" x 2" Carriage
36	D28330	2	Coupler Half, 60B 10 x 1"
37	D28331	1	Chain, Np. 60 Roller 9 Pitch
39	D58126	1	Shaft, Agitator
40	73368	1	Link, No. 60 Roller Chain Connecting
41	D58230	1	Paddle, STD Vertical Agitator Arm (Inner)
43	D58080	1	Wheel, Rotary Agitator (Ass'y)(Optional)
	D58160	1	Disc (For above)
	D58170	6	Paddle (For Above)
44	D58293	1	Bearing, Paddle Wheel
45	75339	1	Capscrew, 3/4" x 31/2"
46	71277	2	Bolt, 3/8" x 1"
47	72591	2	Washer, 3/4" Wide Rim
48	72375	1	Nut, 3/4" Hex Lock
50	72595	1	Bushing, 3/4" NR Machine
51	72256	1	Nut, Jam
52	D28370	1	Bushing, 3/4" Machine (Thick)
54	D58091	1	Shovel, Horiz Agit (Std.)
55	D58095	1	Plate, Mounting

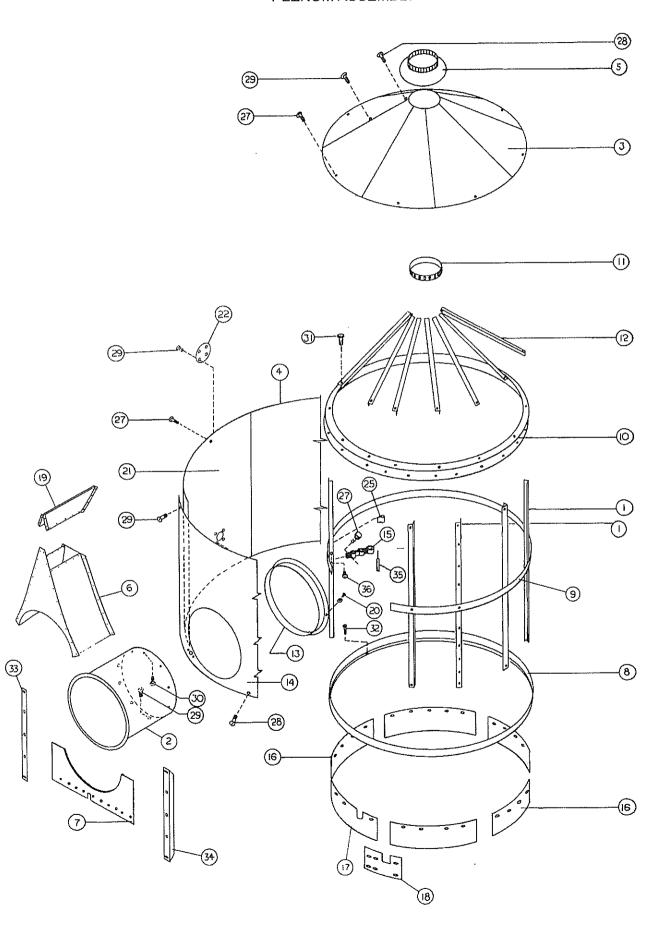
GEARBOX ASSEMBLY GT D28241



Identification No. D28241 is located on a metal tag under cap bolt.

-	REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION	
	1,2,.,,0,.			And the second s	(
	1	77400		Housing	
	2	42-16144		Cap	
		42-16152		Sems Cap Screws	
	3	42-16146		Seal	
	4	77401		Shaft	
	5 6	42-16147		Bearing Cone	
	6	42-16148		Bearing Cup	
		42-16155		Gasket (.015)	
		42-16156		Gasket (.005)	
	7	77402		Key	
	8	77403		Retaining Ring	
	9	77404		Collar	
	10	77405		Retaining Ring	
	11	77406		Seal	
	12	77414		Shaft	
	13	77408		Cap	
	14	77079		Gear	
	15	77080		Gear	
	16	77412		Cap	
	17	42-90058		Spacer	
	18	77410		Locknut	
	19	77409		Washer	
	20	77411		Key	
	21	42-90057		Washer	
		42-16151		Roll Pin	i
		77413		Pipe Plug (Solid)	ŧ.
		72924		Relief Valve	
		72921		Reducer	

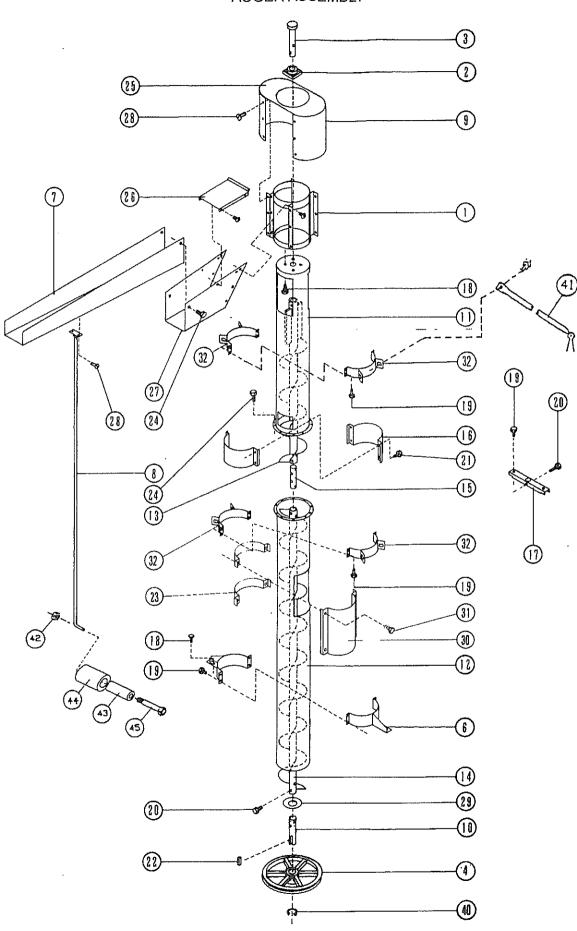
PLENUM ASSEMBLY



PLENUM ASSEMBLY

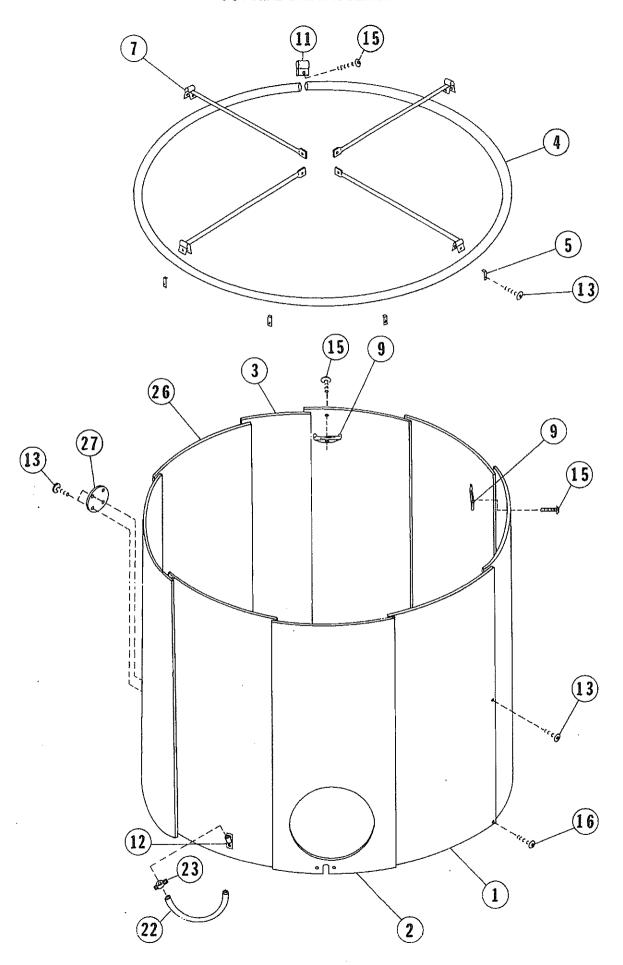
	PLENUM ASSEMBLY					
_	REF. NO.	PART NO.	NO.REQ'D.	DESCRIPTION		
	1	D33010	31	Plenum Frame Angle, Straight		
	1	D33011	31	Plenum Frame Angle, 645XL		
	2	D53020	1	Connecting Tube		
	3	D53342	7	Lid Sheet		
	4	D53040	4	Side Sheet without Connecting Tube Hole		
	4	D53041	4	Side Sheet Plenum, 645XL		
	5	D23051	1	Cone Cap (545XL)		
	J	D63050	1	Cone Cap (343XL) Cone Cap (645XL)		
	6	D53061	1	Saddle		
	7	D53070	1	Front Enclosure		
	8	D53080	1	Lower Frame Band		
	9	D53091	1			
	10	D53100	1	Center Band, 1/8" Thick - (2) for 645XL Transition Band		
	11	D53110	1	Top Ring		
	12	D53110	35			
	12.	D63120	35	Lid Frame Angles BR600		
	13	D53130	1	Lid Frame Angles, RB600		
	14	D53140	1	Connecting Tube Trim Ring		
	14	D53141	1	Sheet with Connecting Tube Hole		
	1-4	D53141		Plenum Sheet with Connecting Tube Hole 645XL		
		D53150 D53151	1	Side Sheet (Narrow Strip)		
	15	D23161)	Plenum Side Sheet-Narrow, 645XL		
	16	D53172	2 5	Thermometer Support Bracket		
	17	D53172	1	Skirt		
	18	D53162 D53192	6	Skirt with Slot		
	19	D53162	6	Splices, Plenum Skirt		
	19	D53160 D53161	1	Extension, Saddle		
	20	71942	11	Extension Saddle 645XL		
	21	D53210	1	No. 14 x 3/4" Self Tapping Screw		
	21	D53210 D53211	1	Side Sheet with Cleaner Hole		
	22	D24210	1	Side Sheet with Cleaner Hole 645XL		
	25	D23210	2	Plate, Cover		
	27 27	71823	2 85	Push on Clip		
	28	71825 71825		1/4" - 20 x 1/2" Slotted Hd Machine Screw		
	28 29	71822	108	1/4" - 20 x 3/4" Slotted Hd Machine Screw		
	30	71942	104	1/4" - 20 x 3/8" Slotted Hd Machine Screw		
	31	71001	14 35	#14 x 1/2 Self Tapping Screw		
	32	72155	_	1/4" x 3/4" Capscrew		
	33	D54320	6	5/16" x 3/4" Self Tapping Hex Hd Screw		
	34	D54330	1	Stiffener, Front Sheet, Right		
	35	77271	1	Stiffener, Front Sheet, Left		
	36	77567	1	Sensor, Temperature Plenum, Micro		
	50	D23230	1	Hi Limit, Sensor		
		72958	1	Bracket, Sensor		
			। त	Nut, Brass Sensor		
		72522))_	Spacer, Sensor Washer		
		72490	35	Spacer, Lid Angle RB600		
		Ţ				
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			:/ @ _			
		1				
		7	(a.)			
	21	D04060	1	Dina Anti I O O I III II		
	22	D24260	30	Pipe, Agitator Sensor Grain Wall		
		D22130	ן [Collar Set		
	23 24	72836	1	Coupler, 1/2"		
_	24	73159	1	Elbow, 3/8" Conduit		
AL.	star Famourt 1					

AUGER ASSEMBLY



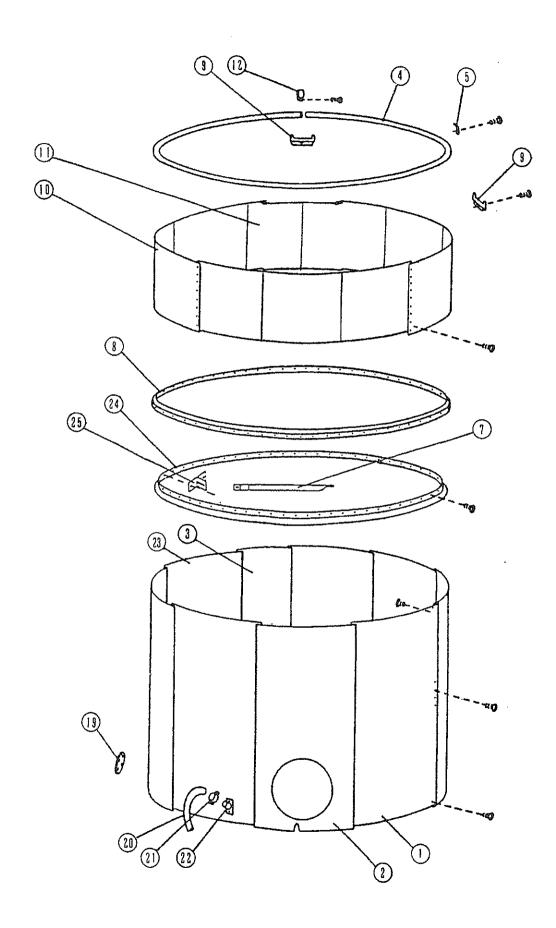
AUGER ASSEMBLY

			AUG	GER ASSEMBLY
	REF. NO.	PART NO.	NO.REQ'D.	DESCRIPTION
4	1	D26013	1	Swivel Head
1	2	D21161H	1	2" Flange Bearing
	3	D26020	1	Upper Stub Shaft
	4	76090	1	Sheave 1C 18.0 L/SF Hub
		76045	1	Hub, 2" SF QD
	6	D26065	2	Clamp, Support (at Spider)
	7	D36071	1	Spout
	7	D76070	1	Spout 645XL
	8	D36081	1	Spout Control Handle
	8	D76081	1	Spout Control Handle 645XL
	9	D26091	1	Head Baffle, Side
	10	D26101	1	Lower Stub Shaft
	11	D36111	1	Auger Tube (Top Section)
	11	D76112	1	Auger Tube (Top Section) 645XL
	12	D56120	1	Auger Tube (Bottom Section)
	12	D56121	1	Auger Tube (Bottom Section) 645XL
	13	D36131	1	Flighting (Top Section)
	13	D76132	1	Flighting (Top Section) 645XL
	14	D36141	1	Flighting (Bottom Section)
	14	D36142	1	Flighting (Bottom Section) 645XL
	15	D26150	1	Stub Connecting Shaft
	16	D26162	2	Inspection Hole Cover
	17	D26170	1	Split Auger Support
	17	D66170	1	Split Auger Support 645XL
1	18	71329	6	½" x 1½" Carriage Bolt
	19	71056	8	3/8" x 2" Capscrew
	20	73520	8	5/8" x 3½" Capscrew
	21	71001	4	1/4" x 3/4" Capscrew
	22	73417	1	½" x ½" x 1½" Key
	23 24	D41030 71052	2	Cleaning Attachment Band
	25 25	D26180	12 1	3/8" x 1" Capscrew
	26	D26190	1	Head Baffle, Top
	20 27	D26190 D26200	1	Head Baffle, Spout Cover
	28	71825	26	Head Baffle, Spout
	29	72424	1	¼" - 20 x ¾" Slotted HD Machine Screw 2" Washer
	30	D26220	1	Grain Cleaner Hole Cover
	31	71054	4	3/8" x 1½" Capscrew
	32	D26057	2	Clamp, Brace (4 on 645XL)
	40	69503	1	Snap Ring
	41	D74076	4	Brace, Upper Auger 645XL
	42	72379	1	Nut, ½" Lock
	43	D57155	1	Tube, 1 x .5 x 3.75
	44	03518	1	Grip, 1" I.D. Rubber
	45	71113	1	Capscrew, ½" x 4½"
	. •	DA26000	1	Includes Item Number 1, 9, 25, 26, 27 Assembled
		73180	1	Flighting Repair Section
			•	gg . topan occion



545XL OUTSIDE SKIN ASSEMBLY

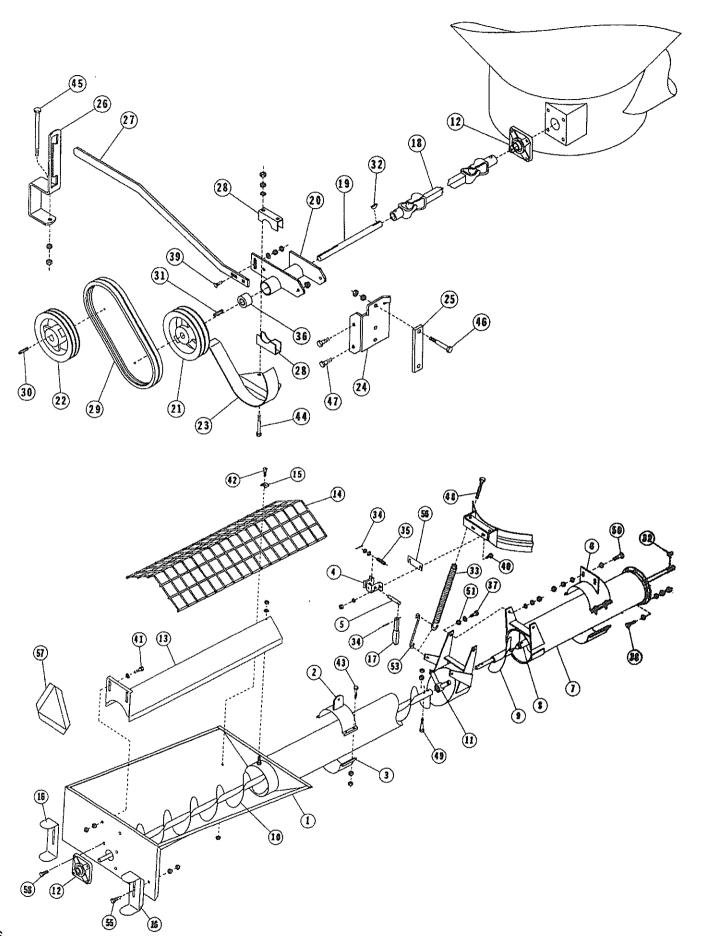
DEE NO	DA DT NO	NO DEOID	DESCRIPTION
REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
、 1	D54260	6	Outside Sheet Fine Perforated (Coated)
1	D53380	6	Outside Sheet Fine Perforated
1	D54300	6	Outside Sheet Std. Perforated (Coated)
1	D54010	6	Outside Sheet Std. Perforated
2	D54240	1	Outside Sheet with Hole Fine Perforated (Coated)
2	D53391	1	Outside Sheet with Hole Fine Perforated
2	D54280	1	Outside Sheet with Hole Std. Perforated (Coated)
2	D54021	1	Outside Sheet with Hole Std. Perforated
3	D54270	1	Outside Sheet 34" Wide Fine Perforated (Coated)
3	D53400	1	Outside Sheet 34" Wide Fine Perforated
3	D54310	1	Outside Sheet 34" Wide Std. Perforated (Coated)
3	D54090	1	Outside Sheet 34" Wide Std. Perforated
4	D54040	1	Cap Ring
5	D24050	8	Ring Holder
7	D54072	4	Auger Brace
8	D24080	1	Spout Control Catch
9	D24091	2	Spout Support
11	D24110	1	Rim Connector
12	D24131	1	Grain Temperature Capillary Support Bracket
13	71822	220	1/4" - 20 x 3/8" Slotted Hd. Machine Screw
15	71825	12	¼" - 20 x ¾" Slotted Hd. Machine Screw
16	71823	105	1/4" - 20 x 1/2" Slotted Hd. Machine Screw
22	D54191	1	Liquitite Conduite
23	73263	1	3/4" Two Screw Connector
26	D54250	1	Outside Sheet with Hole for Grain Cleaner-Fine Perf. (Coated)
26	D54221	1	Outside Sheet with Hole for Grain Cleaner-Fine Perf.
26	D54290	1	Outside Sheet with Hole for Grain Cleaner-Std. Perf. (Coated)
26	D54201	1	Outside Sheet with Hole for Grain Cleaner-Std. Perf.
27	D24210	1	Cover Plate
	73966 1		(GT Logo)
	A54000	1	Ladder Kit



645XL OUTSIDE SKIN AND EXTENSION ASSEMBLY

	REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
	1	D74260	6	Outside Sheet Fine Perf. Coated
`: :	1	D74500	6	Outside Sheet Std. Perf. Coated
	1	57001339	6	Outside Sheet Fine Perf.
	1	57001305	6	Outside Sheet Std. Perf.
	2	D74240	1	Outside Sheet w/hole, Fine Perf. Coated
	2	D74480	1	Outside Sheet w/hole, Std. Perf. Coated
	2	D73390	1	Outside Sheet w/Burner H. Fine Perf.
	2	D74020	1	Outside Sheet w/Burner H. Std. Perf.
	3	D74270	1	Outside Sheet 34" Wide, Fine Perf. Coated
	3	D74510	1	Outside Sheet 34" Wide, Std. Perf. Coated
	3	57001340	1	Outside Sheet 34" Wide, Fine Perf.
	3	57001320	1	Outside Sheet, 34" Wide Std. Perf.
	4	D54040	1	Cap Ring
	5	D24050	8	Ring Holder
	7	D54076	4	Brace, Middle Auger
	8	57001328	1	Band, Dryer Top
	9	D24091	2	Spout Support, Extended
	10	D74522	8	Sheet, Extension Std. Coated
	10	D74232	8	Sheet, Extension Fine Perf. Coated
	10	D74462	8	Sheet, Extension Std. Perf.
	10	D74132	8	Sheet, Extension Fine Perf.
	11	D74560	1	Sheet, Extension Std. Perf. Coated
	11	D74570	1	Sheet, 34" Extension Fine Perf. Coated
	11	D74540	1	Sheet, 34" Wide Extension Std. Perf.
`.	11	D74550	1	Sheet, 34" Wide Extension Fine Perf.
	12	D24110	1	Rim Connector
	19	D24210	1	Cover Plate
	20	D25262	1	Liquid Tight Conduit
	21	73263	1	3/4" Two Screw Connector
	22	D24131	1	Grain Temp. Cap. Support Bracket
	23	D74250	1	Outside Sheet w/Grain Cleaner Hole Fine Perf. Coated
	23	D74490	1	Outside Sheet w/Grain Cleaner Hole, Std. Perf. Coated
	23	D74220	1	Outside Sheet w/Grain Cleaner Hole Fine Perf.
	23	D74200	1	Outside Sheet w/Grain Cleaner Hole Std. Perf.
	24	57001328	1	Band, Top Angle
	25	D54065	4	Base, Brace, Large Plenum
		A74000		Ladder Kit

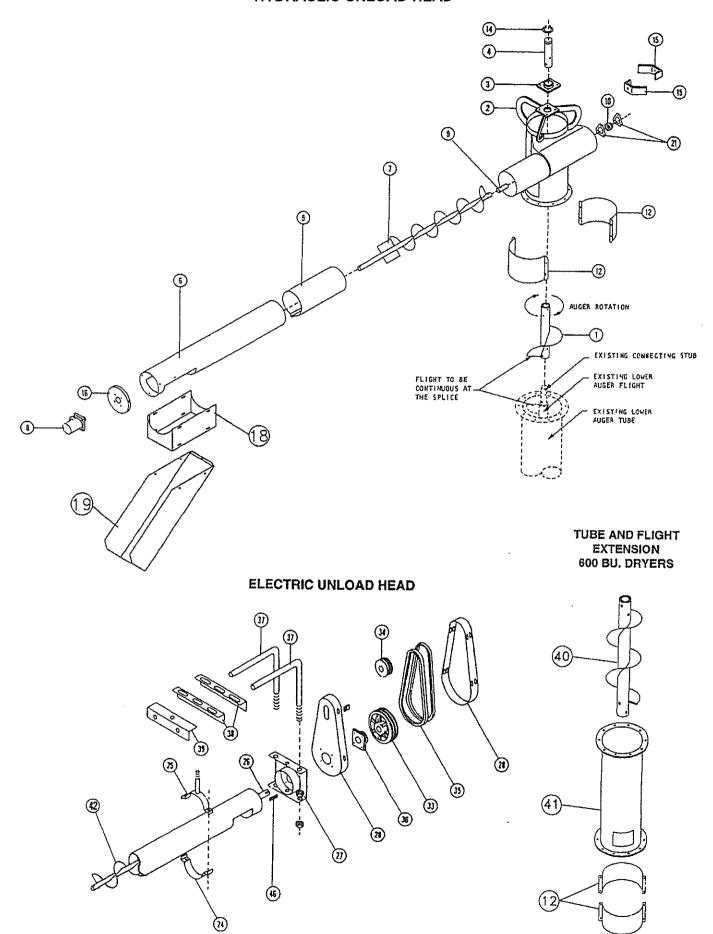
LOADING HOPPER & DRIVE ASSEMBLY



LOADING HOPPER & DRIVE ASSEMBLY

	···········	1	<u>-OADING HOP</u>	PER & DRIVE ASSEMBLY
	REF. NO.	PART NO.	NO.REQ'D.	DESCRIPTION
	1	D29013	1	Hopper, Extended
1	2 3 4 5 6 7	D59540	1	Catch, Hopper
	3	41-10143	1	Band, Half
	4	D29521	1	Latch, Hopper
	ე 6	D29540 D59141	1	Pin, Latch
	7	D59031	1	Mount, Tube Tube, Front Auger
	8	D59053	1	Flight, Front Auger
	9	D59391	1	Flight, Short Sec. Rear Auger
	10	D29042	1	Flight, Long Sec. Rear Auger
	11	42-98080	1	Bearing & Casting
		71127 D29510	1	Capscrew, 5/8" x 1"
		42-18183	! 1	Bolt w/Zerk Bronze Bearing
	12	42-66022	2	Bearing Bearing
	1 3	D59150	1	Regulator, Grain Flow
	14	D29470	1	Grill, Hopper
	15	D29560	4	Clip, Grill
	16	D29161	2	Stand, Hopper
	17 18	D29531 D59343	1 1	Latch Handle Tumbler (See page 32 for parts)
	19	D22850	1	Tumbler (See page 32 for parts) Jackshaft
	20	D29490	1	Housing, L.H. Jackshaft
	21	76089	1	Sheave, 2B6.6 L/SDS Hub
		76084	1	Sheave, 2B6.6 L/SDS Hub Hub, 1" SDS
	22	76089	1	Sheave, 2B6.6 L/SDS Hub
	23	76007 D29372	1	Hub, 1.5" SDS
	23 24	D29372 D29352	1	Guard, Belt Bracket, Jackshaft
	25	D52720	1	Strap
	26	D59382	1	Lock, Clutch
1	27	D59362	1	Handle, Clutch
	20	03519	0	Grip, Bar
	28 29	42-16453 D59322	2 1	Clamp, Mount
	30	73411	1	Belt, B58 (Set of 2) Key, 3/8" x 3/8" x 1½"
	31	42-66057	1	Key, 1/4" x 1/4" x 11/2"
	32	42-18282		Key, No. 808 Woodruff
	33	73317	2 2 2	Spring, Lift
	0.4	D29480		Spring, Lift w/plug nut
	34 35	73534	2	Pin, Cotter, 1/8" x 11/4"
	36	73316 42-16334	1	Spring, Pin Bearing, 1"
	37	71079	2 2 8	Capscrew, 7/16" x 1½"
•	38	71027	8	Capscrew, 5/16" x 1"
	39	71277	1	Bolt, Carriage 3/8" x 1"
	40	71251	8	Bolt, Carriage 5/16" x ¾"
	41 42	71026 71825	2 4	Capscrew, 5/16" x 3/"
	43	71054	8	Screw, 5/16" x ¾" SL HD Machine Capscrew, 3/8" x 1½"
	44	71038	8 2	Capscrew, 5/16" x 4½"
	45	71066	1	Capscrew, 3/8" x 6"
	46	71112	2	Capscrew, ½" x 4"
	47	71103	2	Capscrew, ½" x 1¼"
	48 49	71988 71083	2	Capscrew, ½" x 6" Full Thd
	50	71083 71329	2	Capscrew, 7/16" x 2½" Rolt Carriage ½" x 11/"
	51	D29020	2 2 2 2 2 2 1	Bolt, Carriage ½" x 1½" Spacer, ½" ID x 1" OD x 5/16"
	52	71303		Bolt, Carriage, 7/16" x 11/4"
	53	D59172	2	Rod, Spring Connecting
7.	55 56	71051	2	Capscrew, 3/8" x 3/4"
	56 57	D29550 73899	As Req'd.	Spacer, Hopper Latch
	58	71053	1 8	Decal, Slow Moving Vehicle Capscrew, 3/8" x 11/4"
	J	. 1000	•	- σαρού ον, στο π 1/4

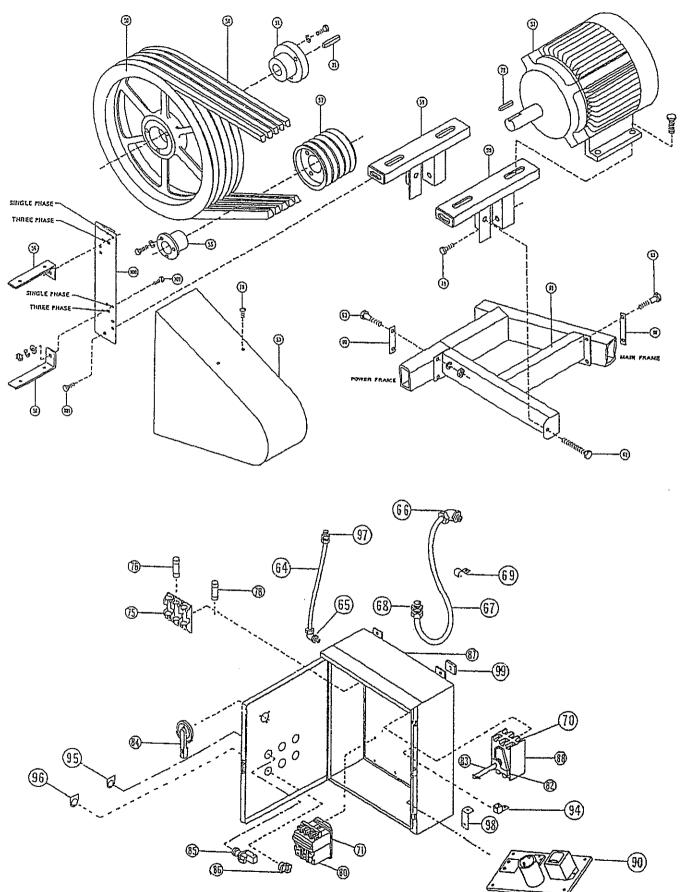
HYDRAULIC UNLOAD HEAD



HYDRAULIC & ELECTRIC UNLOAD HEAD PARTS LIST

1 D26311 1 Auger, Horiz. Unload, Vertical 2 D26282 1 Head, Top Auger 3 D21161 1 Bearing, 2" Flanged 4 D26021 1 Stub, Top Auger 5 42-58080 1 Band, 8" x 14½" Connecting 6 D26305 1 Housing, Horiz. Unload Auger 7 D26295 1 Flight, Horiz. Unload Auger 8 D26270 1 Motor, M202 Hydraulic 9 42-56211 1 Stub, Flight Shaft 10 85000 1 Bearing, 1" 12 D26182 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 11 42-54054 1 Pair Retainer, Bearing 12 T1 42-54054 1 Pair Retainer, Bearing 13 71051 7 Capscrew, 3/8" x ¾" 14 41-10042 3 Haif Band 8" 15 42-58082 1 Band, Rear Motor Support 16 26291 1 Flight, Horz Elect. Unl. 17 42-58049 1 Plate, Head 18 42-58069 1 Hub, 1½" SK 19 D26321 2 Beit, B40 33 76069 1 Hub, 1½" SK 34 75044 1 Pulley, 2B 9.4 L/Hub 35 D29321 2 Beit, B40 36 42-58048 1 Strap, Motor Mounting 37 42-58048 1 Strap, Motor Mounting 38 42-58048 1 Strap, Motor Mount 39 42-58049 1 Strap, Motor Mount 39 42-58040 1 Strap, Motor Mount 39 42-58048 1 Strap, Motor Mount 39 42-58050 1 Key 20595 1 Plate, Elec.	REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
D21161	1	D26311	1	Auger, Horiz. Unload, Vertical
4 D26021 1 Stub, Top Auger 5 42-58080 1 Band, 8" x 14½" Connecting 6 D26305 1 Housing, Horiz. Unload Auger 7 D26295 1 Flight, Horiz. Unload Auger 8 D26270 1 Motor, M202 Hydraulic 9 42-56211 1 Stub, Flight Shaft 10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26	2	D26282	1	Head, Top Auger
5 42-58080 1 Band, 8" x 14½" Connecting 6 D26305 1 Housing, Horiz. Unload Auger 7 D26295 1 Flight, Horiz. Unload Auger 8 D26270 1 Motor, M202 Hydraulic 9 42-56211 1 Stub, Flight Shaft 10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head 27	3	D21161	1	Bearing, 2" Flanged
6 D26305	4	D26021	1	Stub, Top Auger
7 D26295 1 Flight, Horiz. Unload Auger 8 D26270 1 Motor, M202 Hydraulic 9 42-56211 1 Stub, Flight Shaft 10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 33 76052 1	5	42-58080	1	Band, 8" x 14½" Connecting
8 D26270 1 Motor, M202 Hydraulic 9 42-56211 1 Stub, Flight Shaft 10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pul	6	D26305	1	Housing, Horiz. Unload Auger
9 42-56211 1 Stub, Flight Shaft 10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Uni. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head 27 42-58049 1 Flight, Horz Elect. Uni. 27 42-58049 1 Paite, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58048 1 Strap, Motor Mounting 37 42-58048 1 Strap, Motor Mounting 38 42-58081 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support	7	D26295	1	Flight, Horiz. Unload Auger
10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58086 1 Bearing 37 42-58048 1 Strap, Motor Mounting 38 42-58081 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58083 1 Angle, Rear Motor Support	8	D26270	1	Motor, M202 Hydraulic
10 85000 1 Bearing, 1" 12 D26162 2 Band, Inspection Hole 14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58081 1 Strap, Motor Mount w/Nuts 38 42-58081 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support	9	42-56211	1	Stub, Flight Shaft
14 69503 1 Snap Ring 15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58082 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing	10	85000	1	
15 D26441 2 Spreader, Grain 16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58048 1 Strap, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	12	D26162	2	Band, Inspection Hole
16 D26255 1 End Cap 18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58048 1	14	69503	1	Snap Ring
18 D26265 1 Adapter, Spout 19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key <td>15</td> <td>D26441</td> <td>2</td> <td>Spreader, Grain</td>	15	D26441	2	Spreader, Grain
19 D26326 1 Spout, Top Unl. Head 21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58083 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	16	D26255	1	End Cap
21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	18	D26265	1	Adapter, Spout
21 42-54054 1 Pair Retainer, Bearing 23 71051 7 Capscrew, 3/8" x ¾" 24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	19	D26326	1	Spout, Top Unl. Head
24 41-10042 3 Half Band 8" 25 42-58082 1 Band, Rear Motor Support 26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	21	42-54054	1 Pair	
25	23	71051	7	Capscrew, 3/8" x 3/4"
26 42-58037 1 Stub, Head D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1½" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	24	41-10042	3	Half Band 8"
D26291 1 Flight, Horz Elect. Unl. 27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	25	42-58082	1	Band, Rear Motor Support
27 42-58049 1 Plate, Head 28 42-58081 1 Guard, Belt 33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	26	42-58037	1	Stub, Head
28		D26291	1	Flight, Horz Elect. Unl.
33 76052 1 Pulley, 2B 9.4 L/Hub 33 76069 1 Hub, 11/4" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	27	42-58049	1	Plate, Head
33 76069 1 Hub, 1¼" SK 34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	28	42-58081	1	Guard, Belt
34 75044 1 Pulley, 2B 3" x 24mm 35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	33	76052	1	Pulley, 2B 9.4 L/Hub
35 D29321 2 Belt, B40 36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key		76069	1	Hub, 11/4" SK
36 42-58052 1 Bearing 37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key		75044	1	Pulley, 2B 3" x 24mm
37 42-58046 2 Rod, Motor Mounting 38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key	35	D29321	2	Belt, B40
38 42-58048 1 Strap, Motor Mount w/Nuts 38 42-58091 1 Strap, Motor Mount 39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key		42-58052	1	Bearing
38			2	Rod, Motor Mounting
39 42-58083 1 Angle, Rear Motor Support 46 42-58050 1 Key			1	Strap, Motor Mount w/Nuts
46 42-58050 1 Key			1	Strap, Motor Mount
· · · · · · · · · · · · · · · · · · ·			1	Angle, Rear Motor Support
D25995 1 Plate, Elec.	46			Key
		D25995	1	Plate, Elec.

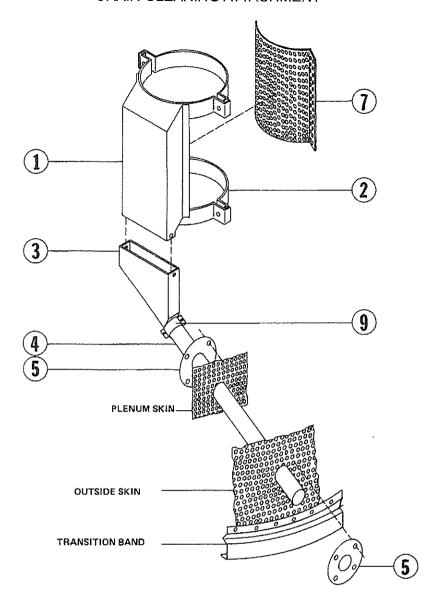
SIDE MOUNT ELECTRIC POWER UNIT ASSEMBLY



SIDE MOUNT ELECTRIC POWER UNIT ASSEMBLY

	REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
-				
1	50	76013	1	Sheave, 5B x 18.4
i	51	76015	1	Hub, 1½" SF
	52	D52391	1	Motor, Electric 25 HP - 500 Bu.
		52-10074	1	Motor, Electric 30 HP - 600 Bu.
	53	D59430	1	Guard, Belt
	55	76009	1	Hub, 1-7/8" SD
		76066	1	Hub, 48mm SK 50 Hz
	56	D32670	2	Bracket, Belt Guard
	57	76010	1	Sheave, 5.2 PD 5B
		76033	1	Sheave, 6.2 PD 5B 50 Hz
	58	D52990	1	Belt, B88 (Set of 5)
	59	D52916	2	Channel, Motor Mount
	60	D52720	2	Strap, Mount
	61	57001272	1	Frame, Motor Mount
	62	71988	1	Capscrew, ½" x 6" Full Thread
	63	71112	4	Capscrew, ½" x 4"
	64	D54191	1	Conduit, 3/8" Liquatite x 34"
	65	73159	2	Elbow, 3/8" Liquatite x 90°
	66	73737	1	Elbow, 1" Liquatite x 90°
	67	73734	41/2'	Conduit, 1" Liquatite
	68	73738	1	Connector, 1" Liquatite Straight
	69	73742	6	Strap, Conduit
	70	73703	3	Terminal, Line
`	71	77556	1	Starter, Magnetic LCID5011M7 - 500 Bu.
				Starter, Magnetic LCID80M7
	75 70	77558	1	Fuse Block
	76 70	73732	2	Fuse, FRN6
	79	73418	1	Key, 5/16" x ½" x 1¾"
	80	77553	1	Overload Relay, LR203557 - 500 Bu.
	0.4	77624	1	Overload Relay, LR203563 - 600 Bu.
	81	73411	1	Key 3/8" Sq. 1½"
	84	77327	1	Operating Mechanism
	85	77052	1	Button, Push Green Start
	86	77051	1	Button, Push Red Stop
	87	77027	1	Cabinet
	88	77326	1	Breaker, Circuit 100 Amp - 240 Volt
	90	DA25010	1	Converter, 110 VAC to 12 VDC
	94	77109	1	Lug, Ground
	95	73725	1	Plate, Start
	96 07	73726	1	Plate, Stop
	97	73157	1	Connector, 3/8" Liquatite Conduit
	98	D32050	2	Bracket, Angle Mounting
	99	500671	2	Spacer, Neoprene
	100	D32660	1	Mount, Belt Guard
	101	71052	4	Capscrew, 3/8" x 1"
		D22097	1	Bearing - Optional (Not Shown)
••.		D52032	1	Mount, Power Shaft - Optional (Not Shown)
*		D57116S	1	Extended Power Shaft - Optional (Not Shown)

GRAIN CLEANING ATTACHMENT



SIDE MOUNT ELECTRIC POWER UNIT ASSEMBLY

 REF. NO.	PART NO.	NO. REQ'D.	DESCRIPTION
	A41011	1	Grain Cleaning Attachment
1	D41020	1	Cleaning Attachment Body
2	D41030	2	Cleaning Attachment Bands
3	D41082	1	Cleaning Attachment Transition
4	D41090	1	Cleaning Attachment Top Tube
5	D41100	1	Flange, Cleaning Attachment Tube
7	A41100	1	Cleaning Attachment Screen
			(Corn, Sunflower) 7/32" Holes
7	A41110	1	Cleaning Attachment Screen
			(Wheat, Oats, Barley, Milo)
7	A41120	1	Cleaning Attachment Screen (Soybeans) 5/32" Holes
7	A41130	1	Cover Plate (To replace screen)
7	A41105	1	Cleaning Attachment Screen (Flax) 5/64" Holes
7	A41115	1	Cleaning Attachment Screen (Rape Seed) 1/16" Holes
9	D41081	1	Band, Transition ½

NUTS, WASHERS AND LOCKWASHERS

	REF. NO.	DESCRIPTION	PART NO.	DESCRIPTION
_	72208	1⁄4" Nut	72438	1/4" L-Washer
}	72209	5/16" Nut	72439	5/16" L-Washer
	72210	3/8" Nut	72440	3/8" L-Washer
	72211	7/16" Nut	72441	7/16" L-Washer
	72212	1∕₂" Nut	72442	½" L-Washer
	72213	5/8" Nut	72443	5/8" L-Washer
	72380	1⁄4" L-Nut	72408	½" Washer
	72379	½" L-Nut	72409	5/16" Washer
	72375	¾" L-Nut	72410	3/8" Washer
	72382	1/4" Whiz Lock-Nut	72411	7/16" Washer
	72334	1/4" Tinnerman Nut	72412	½" Washer
	72376	5/8" Lock Nut	72413	5/8" Washer

TORQUE ALL BOLTS PER TORQUE SPECIFICATION CHART

	COARSE THREAD FASTENER	GRADE DESIGNATION	SCREW, STUD, OR BOLT SHANK SIZE OR DIAMETER								
			1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	
	CAP SCREW	S.A.E. 2 STEEL	5	11	20	30	50	70	100	170	
	CAP SCREW	S.A.E. 2 STEEL	8	17	30	50	75	110	150	270	
	CAP SCREW	S.A.E. 2 STEEL	12	24	45	70	105	155	210	375	

Torques are in ft - lbs.

Torques shown are for National Coarse Thread Plain or Zinc plated fasteners carrying residual oil of Manufacture.

GRAIN	USED FOR	PLENUM TEMP.	GRAIN TEMP.	DRYING TIME	COOLING TIME	
						- Arthurstein
The state of the s						