Low Profile
Orchard & Grove
Pull Type Spreader
S/N:

Chandler Equipment Company Personnel

Bill Chandler	**Chief Executive Officer** **Advertising & Marketing** **Dealer / Distributor Arrangements**
Brannon Chandler	**General Manager** **Production & Scheduling** **Warranty, Sales and Service**
Linda Chandler	**Office Manager** **Accounts Payable**
Andrea Thompson	**Administrative Assistant** **Inside Sales**
Lisa Johnson	**Accounts Receivable** **Collections**
Michael Sosebee	**Sales Manager**
Gene Dye	**Outside Sales** **Mid-South Regional Sales Manager**
Dan McCorvey	**Outside Sales** **Southeast Regional Sales Manager**
Richard Wray	**Outside Sales** **Western Regional Sales Manager**
Matt Farmer	**Inside Sales**
Michael Anderson	**Precision Ag Products**
Wes Hobgood	**Parts & Service**
Kimbro Grizzle	**Parts & Service**
Mark Edwards	**Service**

Warranty Policy

A) Standard Warranty:

Chandler Equipment Company warrants that equipment manufactured by Chandler Equipment Company, under normal conditions of use and service, shall be free from material defects due to faulty manufacturing for the period listed below.

a. Poultry Litter Spreaders and Conveyors – Six (6) Months
b. Fertilizer and Lime Pull Type Spreader – Six (6) Months
c. Fertilizer Tenders (Trailer or Truck Mounted) – Six (6) Months
d. Fertilizer and Lime Chassis Mounted Spreaders – One (1) Year

This warranty period is from the date of delivery to the original owner.
(Warranty period is on equipment built after July 1, 2012)

B) Warranty Approval:

a. Any and All warranty claims must be approved in writing by Chandler Equipment Company prior to any work being done.
b. **ANY WORK DONE WITHOUT PRIOR WRITTEN APPROVAL WILL NOT BE COVERED UNDER WARRANTY AND THE CUSTOMER / DEALER WILL BE RESPONSIBLE FOR ALL COST.**

C) Warranty Claim Forms: (Dealer Only)

a. Warranty claim form / forms will be supplied to Dealer upon request.
b. Warranty claim forms are available in 2 part paper form or in an electronic format.
c. All warranty claims must include serial number, date of purchase, customer name and date of sale to original owner. (See attached warranty claim instructions for guidelines on filling out warranty claim form)
d. Improperly filed or misleading information on warranty claims shall result in warranty claim being denied.
e. **ALL WARRANTY CALIMS MUST BE FAXED TO (770) 535-1265.**

D) Labor and Repair Cost: (Dealers Only)

a. Labor for any repairs must be approved prior to any work being done.
b. Labor rate (per hour) will be determined by Chandler Equipment Company, See Chandler Labor Rate List.
c. Also Chandler Equipment Company retains the right to adjust any and all warranty claims.

E) Dealer Responsibility:

a. Dealer shall be first line in all communications with the customer.
b. Dealer shall also maintain good and open communications between the customer and Chandler Equipment in order to resolve warranty issues.

c. Dealer shall be responsible for informing the customer of operating procedures, safety precautions and normal maintenance to help avoid any warranty issues.
d. Promptly inform Chandler Equipment of any possible warranty issues.
e. Dealer is responsible for making every effort to resolve warranty issues in a timely manner.

f. Notify Chandler Equipment on any possible non-warranty issues, such as any modification made to equipment.

F) Original Chandler Genuine Parts:

a. Chandler Equipment Company will only warranty equipment that uses Chandler Genuine Parts. Any equipment that is sold by a dealer with parts other than Original Chandler Genuine parts shall Void Any and All warranties

G) Replacement Parts Shipping:

a. Chandler Equipment Company shall send Chandler Genuine Parts for warranty replacement. Chandler Equipment shall NOT warranty any part or parts replaced by the Customer/Dealer that are not Chandler Genuine Parts.
b. Cost of any part or parts that are replaced by the Customer / Dealer that are not Chandler Genuine Parts shall be the sole responsibility of the Customer / Dealer.
All replacement parts covered under warranty will be shipped via regular UPS. The cost of any parts shipped **UPS-Next Day Air** will be the sole responsibility of the Customer/Dealer.

H) Parts Returns:

a. All parts replaced under warranty will be returned to Chandler Equipment Company within 20 days of replacement for warranty evaluation. All parts returned for warranty evaluation must be in its original state free of modifications. Any modifications will result in the warranty claim being denied and the part or parts returned back to the customer/dealer.
b. Any hydraulic components returned must be assembled (in original state) and with the ports plugged to prevent any contamination. Any hydraulic component that has been disassembled will VOID the warranty claim and the part or parts returned back to the customer/dealer.
c. All Returned Parts for warranty evaluation must be clearly tagged with the following information.
   I. RMA number
   II. Customer or Dealer Name, address, phone number and contact person
   III. Equipment serial number
   IV. Complete description of problem

I) Misuse or Improper Installation:

a. Any equipment, parts, or components that have been damaged by improper installation or misuse will NOT be covered under this warranty.
b. Chandler Equipment accepts no responsibility or liability of any kind due to improper installation of equipment or parts on any product manufactured by Chandler Equipment Company. This includes, but is not limited to, any damages to personal property, crops, or any other equipment.

J) Incomplete Equipment and Dealer Add-Ons:

a. Chandler Equipment does not warrant any equipment sold **INCOMPLETE**. This includes (but is not limited to) axles, tires, any hydraulic components or paint.

b. Any Non Genuine Chandler Parts that are installed as aftermarket add-ons by anyone not approved in writing by Chandler Equipment Company shall **VOID ALL WARRANTIES.**

c. Chandler Equipment Company accepts no responsibility, nor shall warrant any equipment or any component that is damaged due to any type Control System not sold and installed by Chandler Equipment Company.

K) Items Not Covered Under this Warranty:

a. Any equipment that has been modified from its original state.

b. Any equipment used for any other purpose that what it was originally designed for.

c. Any travel time, cleaning of equipment, unloading of material, or towing.

d. Any cost of materials that have been applied improperly due to the lack of customer / dealer not following proper operating instructions.

Raven Industries

1 year standard warranty covers all defects in workmanship or materials on your Raven applied products under normal use.

All Raven Industries parts must be returned clean and free of any fluids.

It is recommended that the defective parts be returned to Chandler Spreaders, Inc. in the packaging that the replacements parts came in.

Warranty claims must be submitted to Chandler Equipment Company no later than 10-days after the repair date. The dealer must add the following information when filing a warranty claim on a Raven component.

- Spreader serial number.
- Part number and serial number of the defective part.
- Description of failure.
- Procedure to diagnose failure.

All Raven Industries parts returned to Chandler Spreaders, Inc. for warranty reimbursement will be submitted to Raven Industries for diagnostic testing. If the defective part is deemed a "No Failure" by Raven Industries the part will be returned to the customer, and the customer will be charged a $108.00 diagnostic fee and any freight charges associated with the defective part.

All defective parts must be returned to Chandler Spreaders, Inc. within 15 days of failure. Customer will be invoiced for replacement parts until warranty credit is issued by Raven Industries to Chandler Spreaders, Inc. Customer will then be credited for the replacement parts at that time. If any part/parts are found to be defective by misuse or improper installation, customer will be responsible for all charges for replacement parts and any corresponding freight charges.

Fertilizer and Lime Spreader Safety

SAFETY LABELS

Your safety and the safety of those around you are very important to us here at Chandler Equipment Co. Therefore we have provided important safety labels throughout this manual.

A safety label alerts you of potential hazards that can injure you or others. Each safety label is preceded by a safety alert symbol ⚠ and either the words DANGER, WARNING, or CAUTION.

⚠ DANGER — **Failure to follow instructions WILL Result in DEATH or SERIOUS INJURY**

⚠ WARNING — **Failure to follow instructions CAN result In DEATH or SERIOUS INJURY**

⚠ CAUTION — **Failure to follow instructions CAN result In INJURY**

Safety Precautions

1) Be sure all guards or other safety devices, and decals are in place and functioning properly.

2) Stay away from moving parts when spreader is in operation.

3) Check lug nuts daily.

4) Maintain proper tire pressure, according tire manufacturers specifications.

5) If spreader becomes clogged, turn off PTO/Hydraulics before entering hopper or cleaning the spreader.

6) Be sure to fully empty hopper before transporting.

7) Never exceed 25 mph (LOADED) on the highway.

Safety Decals

WARNING!

- **DO NOT ADJUST UNTIL SPINNERS STOP MOVING**
- **STAY OUT OF BOX WHILE CONVEYOR IS IN MOTION**
- **DO NOT RIDE ON SPREADER WHILE VEHICLE IS IN MOTION**
- **STAY CLEAR OF SPINNERS WHILE SPINNERS ARE IN MOTION**

THINK SAFETY!

04/10 50.000

PTO SAFETY DECAL

LUG NUT DECAL

MAXIMUM LOADED SPEED

HYDRAULIC SYSTEM DECAL

WARNING

Failure to hookup Hydraulic Spinner Option properly may cause serious damage toTractor or Spreader

Before hooking to tractor carefully read the operations and parts manual. If you are not certain of which system you have contact Chandler Equipment or your local dealer

STOP

WARNING!

Failure to hook up Hydraulic Spinner Option properly may Cause serious damage to Tractor Hydraulic System or Spreader

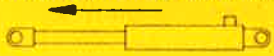
When hooking up Hydraulic Spinner Option use the following procedure.

Connect Pressure Hose to tractor remote using coupler marked for the Lower Position.

(Symbol indicates Lower Position)

This will turn the spinners in proper direction when lever is in the Lower position. (PUSHED FORWARD)

If tractor is equipped with hydraulic motor return option (low pressure return circuit) Connect Return Line here
Or
Connect Return Hose to tractor remote using coupler marked for the Raise Position.



When Disengaging Spinners push lever forward into FLOAT Position. NEVER GO TO NEUTRAL TO TURN SPINNERS OFF.

Before hooking to tractor, carefully read operation and parts manual. If you are not certain whether your Hydraulic System is the Open Type or Close Type, Contact your local Dealer or Chandler Equipment

ROTATING CHAIN WARNING

ROTATING SPINNERS WARNING

HYDRAULIC SYSTEM DECAL

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ROTATING CHAIN WARNING

ROTATING SPINNERS WARNING

WARNING!!!

To avoid damage to Tractor or Chandler Spreader use following procedure when hooking up the hydraulic spinner option to the tractors hydraulic system.

Hydraulic System Pumps:

Today's tractors are equipped with either Constant Displacement or Variable Displacement Hydraulic Pumps. Constant Displacement Pumps put out a constant flow regardless of pressure (until the relief valve bypasses the flow). The only way to vary the flow on this type of pump is to change the engine speed. Variable Displacement Pumps will produce only the flow required by the implement until total pump output is reached. If less than total pump output is required, an automatic stroke control mechanism decreases the pump output to maintain a constant pressure and flow. The output varies according to demand.

Hydraulic Controls:

There are two types of hydraulic control or spool valve used on tractors today. They are named after the design of the spool valves themselves. One is called "Open Center" because in the neutral (or center) position it is open to allow flow back to the hydraulic reservoir. Open Center Valves are used exclusively on Constant Displacement Pumps. The other valve type is called a "Closed Center" because in the neutral (or center) position all hydraulic flow is stopped on the circuit. Closed Center Valves are used exclusively on Variable Displacement Pumps.

There are four basic positions for each type of spool vale. They are Raise, Neutral, Lower, and Float (in order, from back to front). The names used for these positions vary somewhat between manufactures, but the order of the positions does not.

To properly operate a hydraulic motor on a tractor hydraulic circuit, only the **Lower** and **Float** positions should be used. **Use Lower for "On" and Float for "Off".** The Float position is recommend for turning the motor off because it allows the remote circuit to flow in a continuous loop allowing the motor to free wheel to a stop and also does not trap pressure in the circuit.

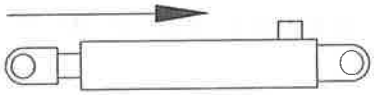
Both Open and Closed Center Valves can trap oil on both sides of the circuit in the Neutral position. Use of this position for "off" will cause premature failure or the hydraulic motor.
The Raise position is not recommend for "On" because the valve must travel through the Neutral position to get to Float.

Many tractor hydraulic systems route return lines through filters or other restrictive elements, which can cause an increase in the return circuit pressure. It is recommend to utilize either a standard (or purchase an optional) **low-pressure return circuit.** This will allow for less oil heat generation, lower horsepower consumption, and longer oil seal life.
Consult with your tractor manufacturer to see if your tractor is or can be equipped in this way.

Hooking up Hydraulic Spinner Option to Tractor Remotes

1) When hooking up Hydraulic Spinner Option use the following procedure.

A) Connect Pressure Hose to tractor remote using coupler marked for the Lower Position.



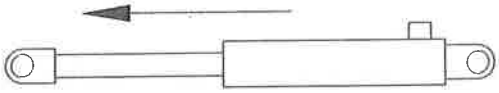
(Symbol indicates Lower Position)

This will turn the spinners in proper direction when lever is in the Lower position.

B) If tractor is equipped with hydraulic motor return option (low pressure return circuit) Connect Return Line here

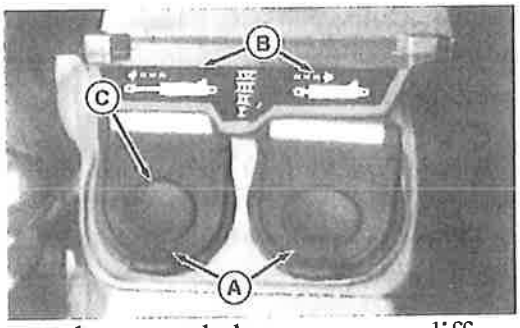
Or

C) Connect Return Hose to tractor remote using coupler marked for the Raise Position.



(Symbol indicates Raise Position)

Many of today's tractors you can select for a motor or cylinder. Be sure that you have selected Motor not Cylinder. (This will also allow oil to flow similar to a low-pressure circuit)



(John Deere Tractor shown symbols may very on different manufactures)

Caution: When hooking up any hydraulic lines to tractor turn engine "OFF" and make sure all Remote Levers are in the neutral position.

Important: Hydraulic hoses can fail due to physical damage, kinks, age and exposure.
Check hoses daily and replace faulty hoses immediately to avoid possible personal injury or damage to equipment.

2) **To check spinners for proper rotation use the following procedure.**

   A) Start engine on tractor.

   B) Start spinners by pushing remote lever forward into the "Lower" position. Check to be sure spinners are turning the proper direction (see drawing page 5)

   C) If spinners are not turning proper direction switch hoses in remotes.

   D) When turning spinners "OFF" push Lever forward into the Float Position.

   E) **Never** turn spinners **"OFF"** by pushing Lever into **"Neutral"** this will stop spinners suddenly, not let them free spin to a stop and will damage spinner motors or tractor hydraulic system.

3) If you are not certain how to hookup the pressure and return line contact Chandler Equipment Co. or your local dealer.

NOTE: All Chandler Spreaders with the hydraulic spinner option will run with an Open or Closed System. If running with an Open System the ball valve underneath the flow control valve must be "ON". If running with a "CLOSED" System the ball valve should be "OFF". (See drawing page 5)

Setting Spinner Speed using Hydraulic Spinner Option

Proper spinner speed for most common applications of Fertilizer and Lime is 650 RPM. The Flow Control Valve located on the side of the spreader controls this speed.

Use the following procedure to set spinner speed:

(After reading pervious pages and determining which hydraulic system you are using)

1) After hooking up Pressure / Return lines and making sure they are turning in the proper direction.

   A) Set Flow Control Valve on "6"

   B) Start Tractor engine

   C) Engage spinners by pushing remote lever forward into the lower position.

   D) This should start turning the spinners.

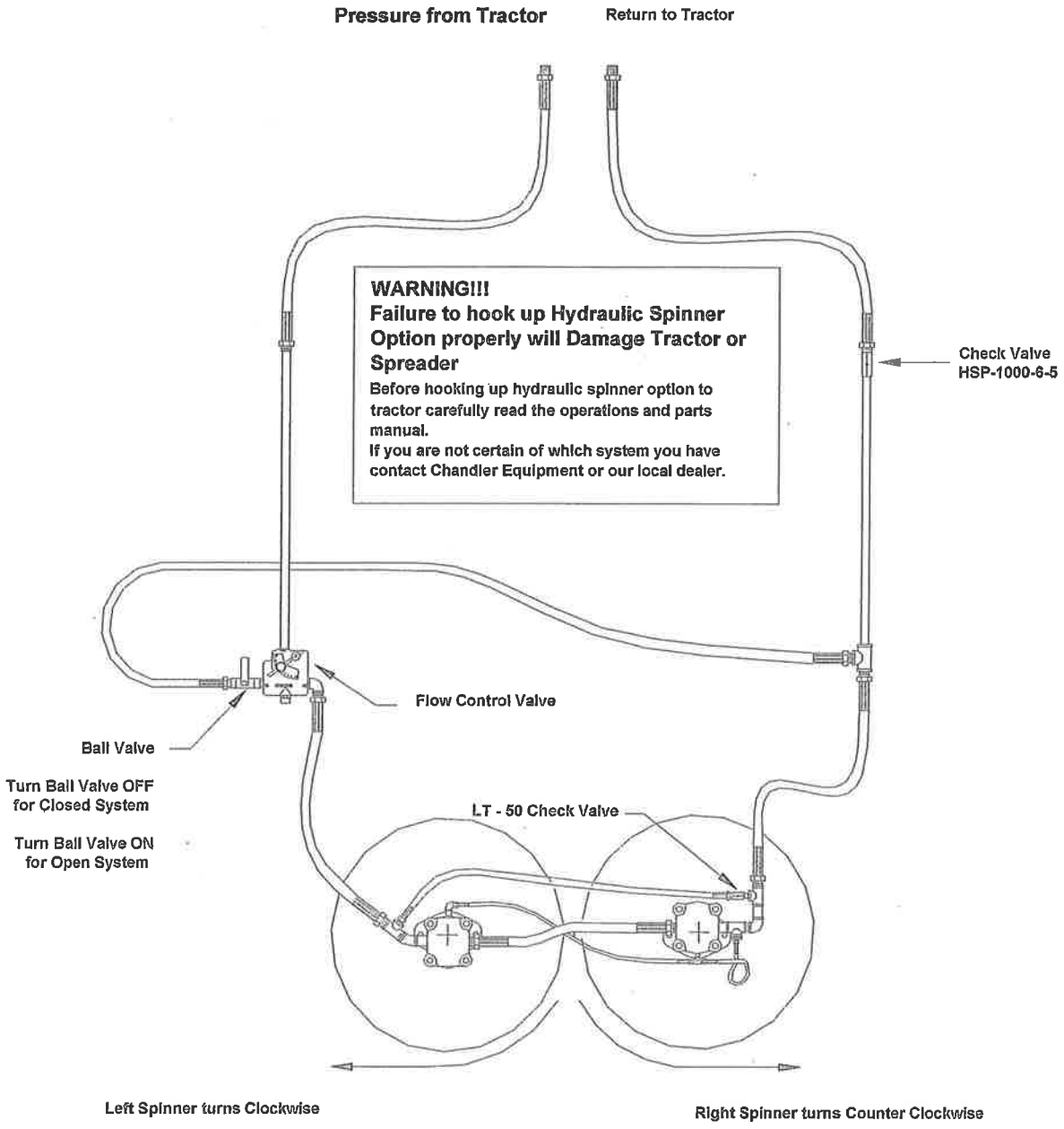
   E) Using a hand tact check spinner speed.

   F) If spinner speed is not 650 RPM use flow control valve to adjust spinners to proper speed.

   G) Repeat this process if needed.

H) Some material may take a different spinner speed.
(Such as with lime spinner speed may need to be turned up to 700 – 750 RPM, lighter materials may need slower spinner speed)

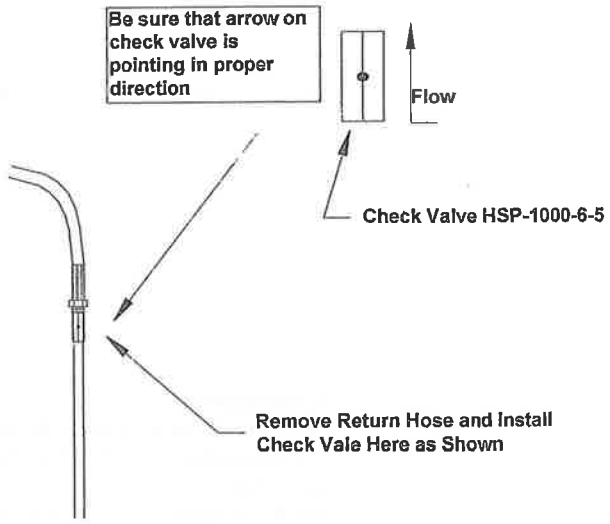
I) If have any questions on spinner speed contact Chandler Equipment Co. or you local dealer.

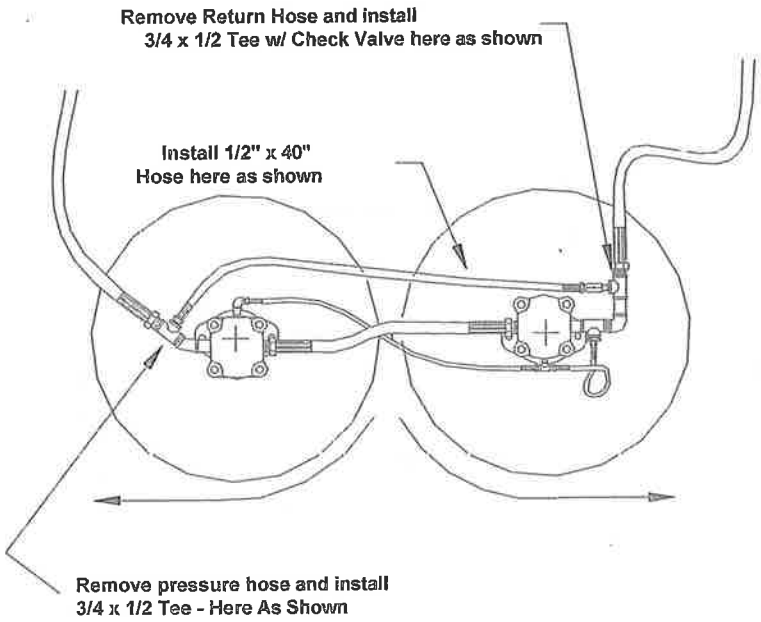


Hydraulic Spinner Option
Pull Type Fertilizer and Lime Spreader

(units built after 05/01/2005)

Michael Sosebee, Chandler Equipment 5/10/2005 2:47 PM FT Pull Type Hydraulic Spinners.dwg

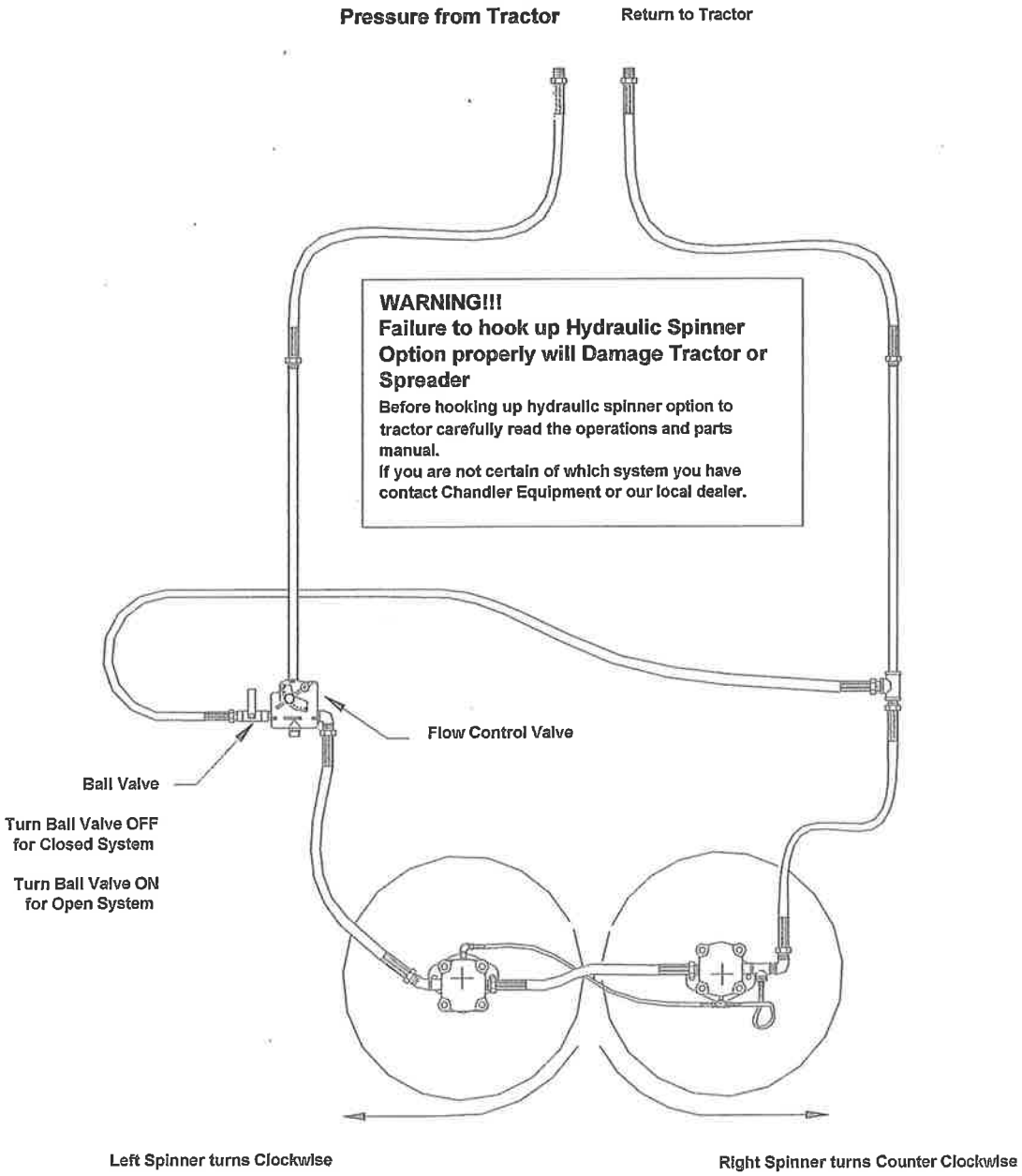




Kit Includes
1 - 1/2" x 40" Hose
2 - 3/4" x 1/2" Tee
1 - LT-50 Check Valve
1 - 3/4" Check Valve HSp-1000-6-5

Check Valves to protect Spinner Motors

Michael Sosebee, Chandler Equipment 5/10/2006 2:47 PM FT Pull Type Hydraulic Spinners.dwg



Hydraulic Spinner Option
Pull Type Fertilizer and Lime Spreader

(units built before 05/01/2005)

BASIC OPERATION OF 5 TON (MODEL 9-PT-FT)
PULL-TYPE SPREADER

1. Raise gate and set for desired rate of application. (See chart on back of unit).
2. Press tractor remote to engage ground wheel. (Be sure roller chain is on proper sprocket setting).
3. Engage P.T.O. control on spinners.
4. Release clutch slowly.
   CAUTION: Never "pop" clutch – always release slowly.
5. When stopping tractor abruptly – always disengage clutch first.

CAUTION: Never let unit roll backward with ground wheel engaged –

This can cause damage to the machine.

EXTENDED LIFE OF YOUR SPREADER THROUGH PROPER MAINTENANCE

We are pleased that you have selected our equipment. We feel, as we are sure you do, with the high cost of repairs and parts, that proper maintenance of equipment should be a high priority.

This unit is a major investment and must be maintained properly for years of excellent service. Listed below are some areas that require constant attention:

- Your spreader unit has a conveyor chain manufactured from 304 stainless steel. The conveyor chain should be kept tight enough so the chain, at its lowest point, just clears frame angles. Adjustment is made at the front roller assembly.
- Grease bearings and u-joints daily when unit is in use.
- Maintain proper lubricant levels in gear case. At the first sign of an oil seal leak, replace immediately.

Basic Maintenance

1) Conveyor Chain

A Chandler Equipment fertilizer and lime spreader comes standard with a 16" - 1" x 1" 304 stainless steel mesh chain. The conveyor chain must be adjusted properly to insure long life and proper spread of material.
Use the following procedures to adjust the conveyor chain.

A) To adjust conveyor chain tighten the adjustment screw rods located behind the front roller bearing.

B) Adjust chain tension so that chain clears the cross members of the spreader frame by 1/2".

C) Adjust each side only one half inch at a time.

D) When adjusting chain measure each side to insure that the front roller stays square with the frame of the spreader.

E) When the chain stretches beyond the adjustment on the front roller it may be necessary to remove a few links of the chain.

F) Locate the splice pin in the chain. Remove splice pin, using bolt cutters,cut the pin on the link you want to remove. (be sure the pin you cut is not spot welded, in a Chandler spreader every other link is spot welded on the chain)

G) Replace the splice pin and adjust chain.

2) Setting Material Divider:

Material Divider settings are very important to the spread pattern. Improper divider settings will cause light or heavy streaks in the field.
Use the following steps to set material divider.

A) Material Divider has an adjustment rod at the rear of the divider. Moving the divider "IN" or "OUT" will change the spread pattern.

B) Moving the Material Divider "OUT" will cause the spread pattern to be heavy on the outside of spread swath.

C) Moving the Material Divider "IN" will cause spread pattern to be heavy in the middle of spread swath.

D) Material Divider Settings:

Material	Setting	Pattern
Lime	1-1/2"	30'
Blended Fertilizer	2-1/2"	50'
Amonia Nitrate	2-3/4"	50'
Urea	3-1/4"	50'

* These are recommended settings and will vary according to material weight.

** Chandler Equipment recommends each spreader to be tested, using a test pan kit, every season to insure proper spread pattern.

Notes _____

_____

2) Bearings

Although Chandler spreaders come with factory pre-greased bearings, we recommend that you grease all bearings before using your spreader.
Do Not over grease bearings
only one shot of grease per day.
Over greasing bearings will shorten the life of the bearings.

3) Conveyor Gear Case

The conveyor gear case comes with kendall SHP Synthetic 75W - 90 gear oil and should be checked regularly.
Chandler Equipment recommends to change gear case oil every 90 days.
This will help to eliminate problem with rate sensor.

4) Hydraulic System

A) Hydraulic filters should be changes every 120-200 hours or every four months.
Chandler spreaders come with a 10 micron filters.
Use of filters not meeting this specifications could damage hydraulic components.

B) Hydraulic Oil:

Kendall Four Seasons	
ISO VG	46
SAE	15W

PTO DRIVEN SPINNERS BASIC PARTS LIST

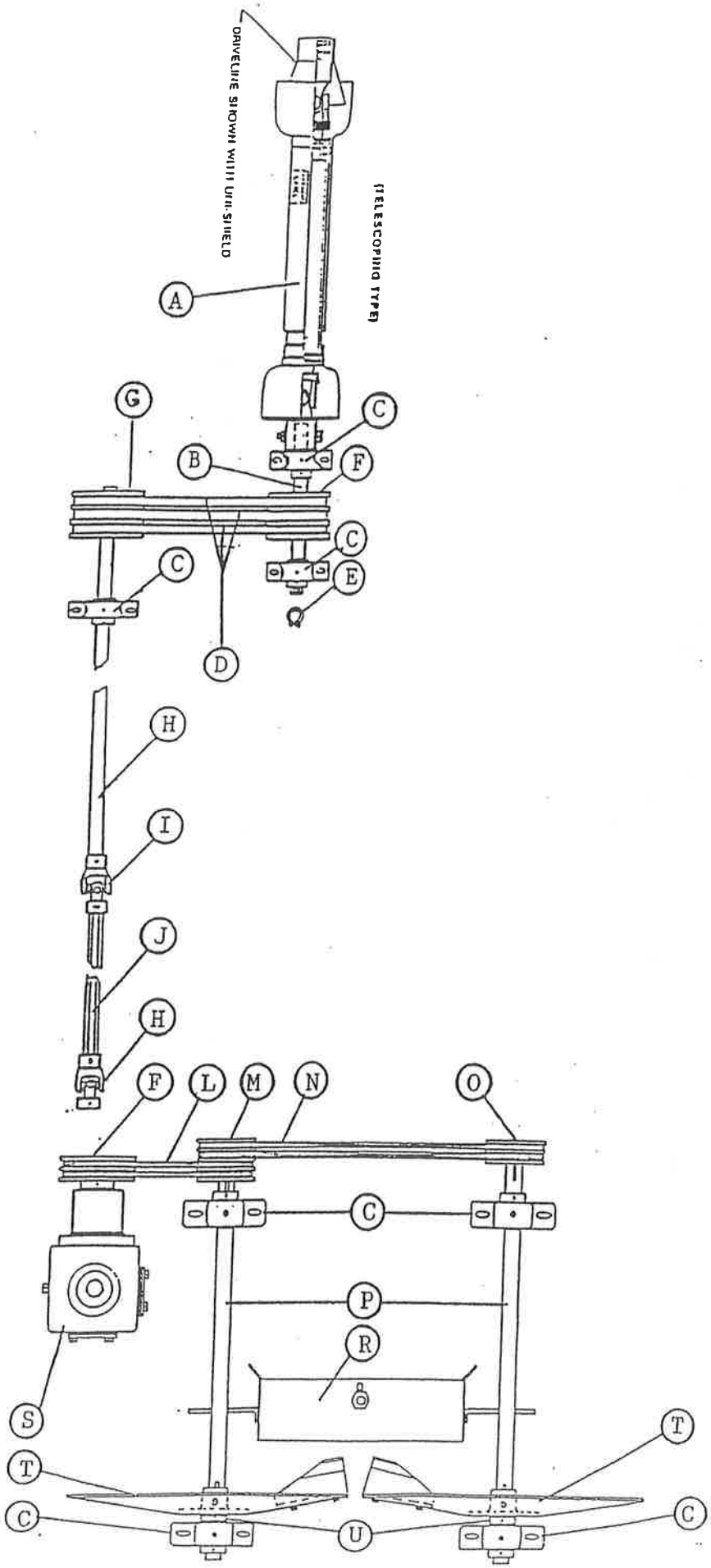
Ref.	Part Description	Part #
A	36" PTO Telescoping Shaft (Please specify length)	200-2-017
B	11" Shaft for Pulley	Manufactured
**	20 1/2 PTO Connection Shaft	Manufactured
C	1 1/4" Pillow Block Bearing	UCP-207-20
D	B-67 V - Belts	1100-1-107
**	B-69 V - Belts for 1000 RPM Set-Up	1100-1-111
E	Retaining Ring	PTF-13
F	2 B - 5.6 SDS Pulley (540 RPM Set-up)	1100-2-202
**	2 B - 4.8 Pulley (1000 RPM Set-up - Top of Gear Box)	1100-2-197
**	2 B - 4.4 SH Pulley (1000 RPM Set-up)	1100-2-201
G	2 B - 8.6 Pulley (540 RPM Set-up)	1100-2-204
**	2 B - 11.0 Pulley (1000 RPM Set-up)	1100-2-199
H	PTO Drive Line (1 1/4" Shaft - Standard) **Please measure for accuracy**	Manufactured
I	Universal Joint (7/8 Hex x 1 1/4"R)	200-2-002
J	7/8" Hex Shaft **(Please specify length)**	200-2-015
*	Front Belt Guard	300-1-126
*	Rear Belt Guard	300-1-127
L	B-39 V - Belts (Standard 540 RPM Set-up)	1100-1-102
M	4 B - 4.4 Pulley (Standard for PTO Set-up)	1100-2-203
N	B-62 V - Belts (Standard for PTO Set-up)	1100-1-105
O	2 B - 4.4 SH Pulley (Standard for PTO Set-up)	1100-2-201
P	PTO Drive Fan Shaft	300-1-207
*	Flow Divider Adj. Rod S.S. (Crank Handle)	300-FT-012
R	Flow Divider S.S. (Specify floor width)	300-FT-010
S	PTF Spinner Gearcase	PTF-71-2RZ
T	Spinner Disc Assembly (Complete with Hub & Blades) (Specify RH or LH)	300-FL-105
U	Spacer - Lock Collar for 1 1/4" Shaft	300-1-208
*	5/8" - 2 Bolt Flange Bearing (Adj. S.S. Rod Bearing)	UCFL-202-10
*	Flow Divider Bar S.S.	300-FT-011

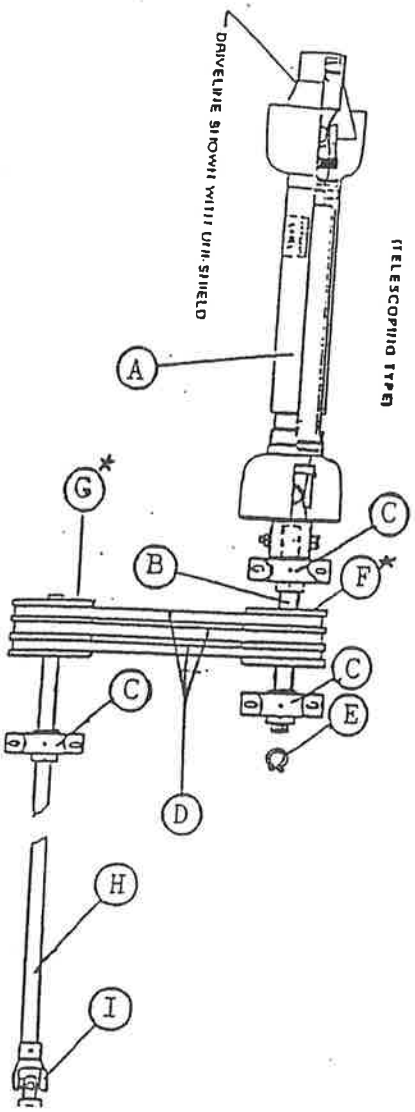
* Not Shown on diagram

** Optional

Note: All part numbers and descriptions apply to standard units unless noted as optional. (**)

PTO DRIVEN SPINNERS BASIC PARTS ILLUSTRATION



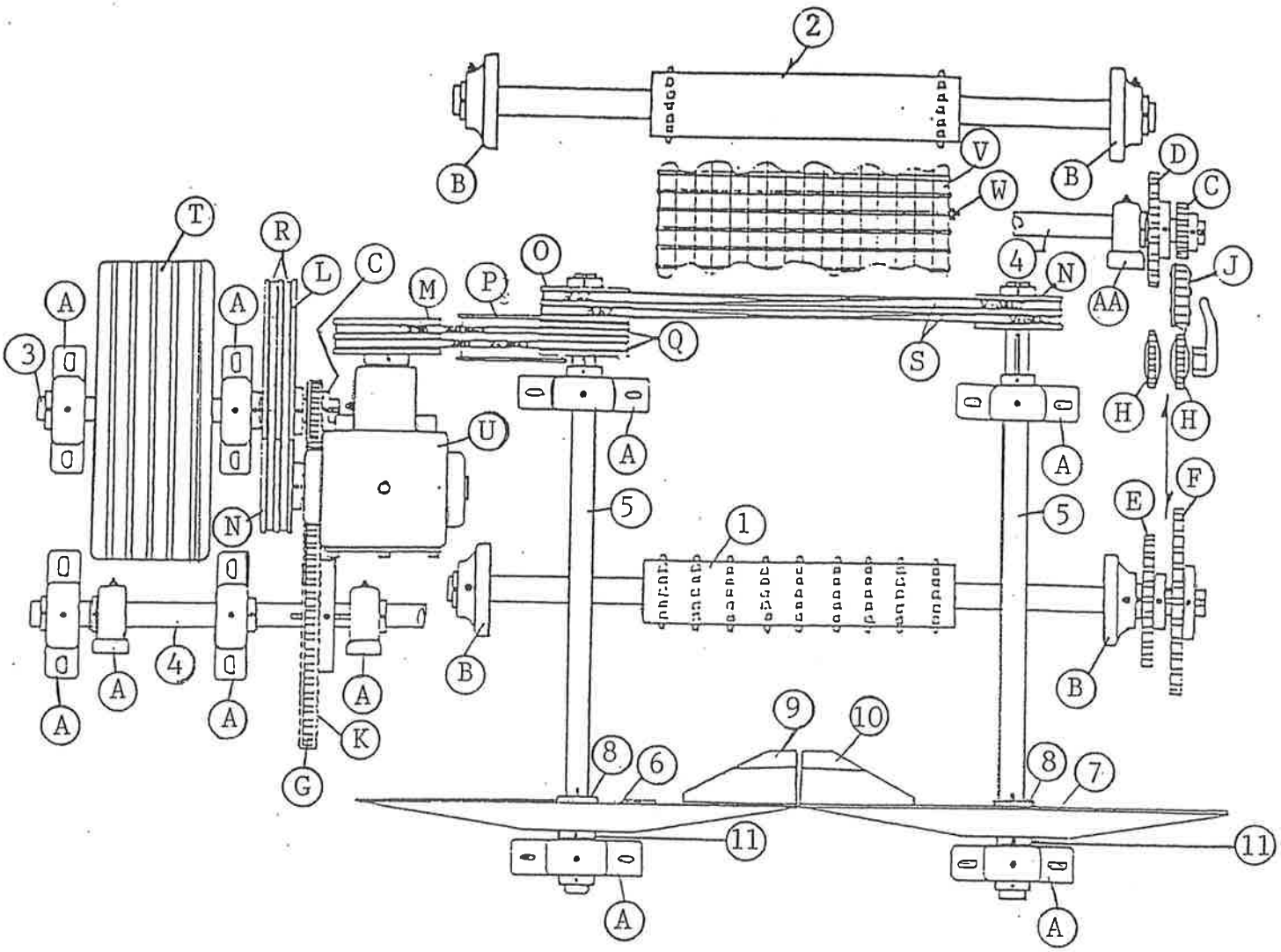


FULL PRESS WHEEL BASIC PARTS LIST

Ref.	Part Description	Part #
A	Bearing, 1 1/4" Pillow Block	UCP-207-20
AA	Bearing, 1 1/4" 4 Bolt Flange	UCF-207-20
B	Bearing, 1 1/2" 4 Bolt Flange	UCF-208-24
C	Sprocket, 60 BS 11 - 1 1/4"	700-1-103
D	Sprocket, 60 BS 20 - 1 1/4"	700-1-106
E	Sprocket, 60 BS 30 - 1 1/2"	700-1-109
F	Sprocket, 60 BS 40 - 1 1/2"	700-1-111
G	Sprocket, 60 BS 60 - 1 1/2"	700-1-115
H	Idler, 6015E	700-1-121
J-K	Chain, #60 Black	500-1-101
**	Chain, #60 S.S.	500-1-102
L	Pulley, 2 B - 13.6 - SK	1100-2-205
*	Bushing, SK 1 1/4"	1100-2-216
M	Pulley, 2 B - 5.6 - SDS	1100-2-202
*	Bushing, SDS 1 1/4"	1100-2-215
N	Pulley, 2 B - 4.4 - SH	1100-2-201
*	Bushing, SH 1 1/4"	1100-2-214
O	Pulley, 4 B - 4.4 - SD	1100-2-203
*	Bushing, SD 1 1/4"	1100-2-213
P	Idler, V-Belt	1100-2-212
Q	B-40 V-Belt	1100-1-103
R	B-80 V-Belt	1100-1-109
*	B-72 V-Belt (11.25 x 28 Tires)	1100-1-108
S	B-62 V-Belt	1100-1-105
T	Ground Wheel Tire, 16x6.5-8	800-1-108
U	Gear Case	PTF-71-2RZFP
V	16" S.S. Mesh Chain	500-3-301
W	16" S.S. Connecting Pins	500-3-306
**	18" S.S. Mesh Chain	300-3-302
**	18" S.S. Connecting Pins	300-3-307
**	20" S.S. Mesh Chain	300-3-303
**	20" S.S. Connecting Pins	300-3-308
**	24" S.S. Mesh Chain	300-3-304
**	24" S.S. Connecting Pins	300-3-309
1	Rear Roller Assembly, 41 1/2"	PTWC-16-415
2	Front Roller Assembly	GWC-F-1634
3	Press Wheel Shaft	Manufactured
4	Press Wheel Crossover Shaft, 56"	Manufactured
5	Fan Drive Shaft	300-1-207
6-7	24" Dished Disc Only, 7 Ga., (#6-LH / #7-RH)	300-FL-101
**	24" Dished Disc Only, Stainless Steel Specify RH or RH	300-FL-102
8	4 Bolt Fan Hub	300-FL-112
9-10	F/L Fin, Mild Steel (#9-LH / #10 - RH)	300-FL-107
**	F/L Fin, Heat Treated	300-FL-108
**	F/L Fin, Stainless Steel	300-FL-109
11	1 1/4" Lock Collar	300-1-208

*Not shown on diagram.
**Optional
NOTE: All part numbers and descriptions apply to standard units unless marked as optional. (**)

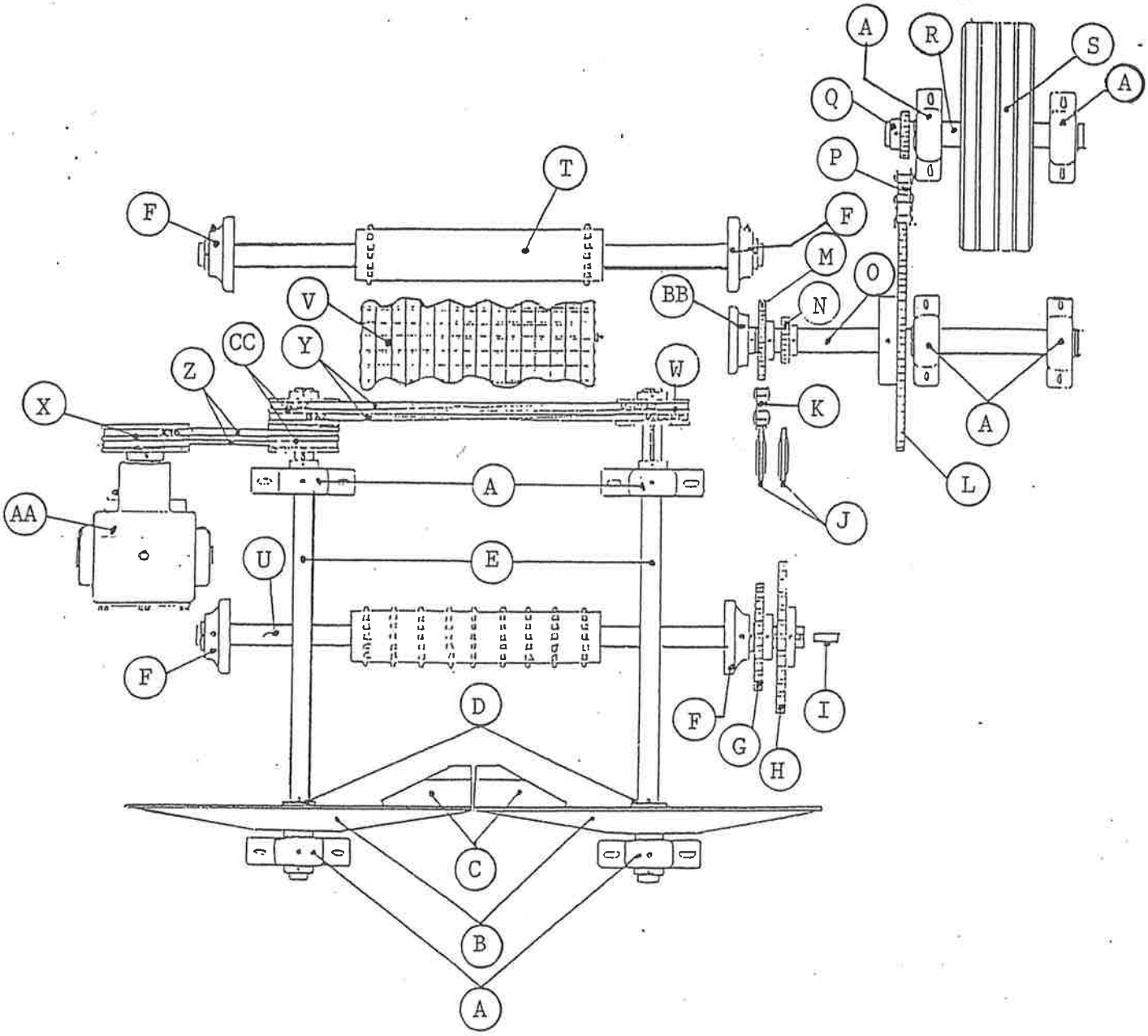
FULL PRESS WHEEL BASIC PARTS ILLUSTRATION



P.T.O. DRIVE BASIC PARTS LIST

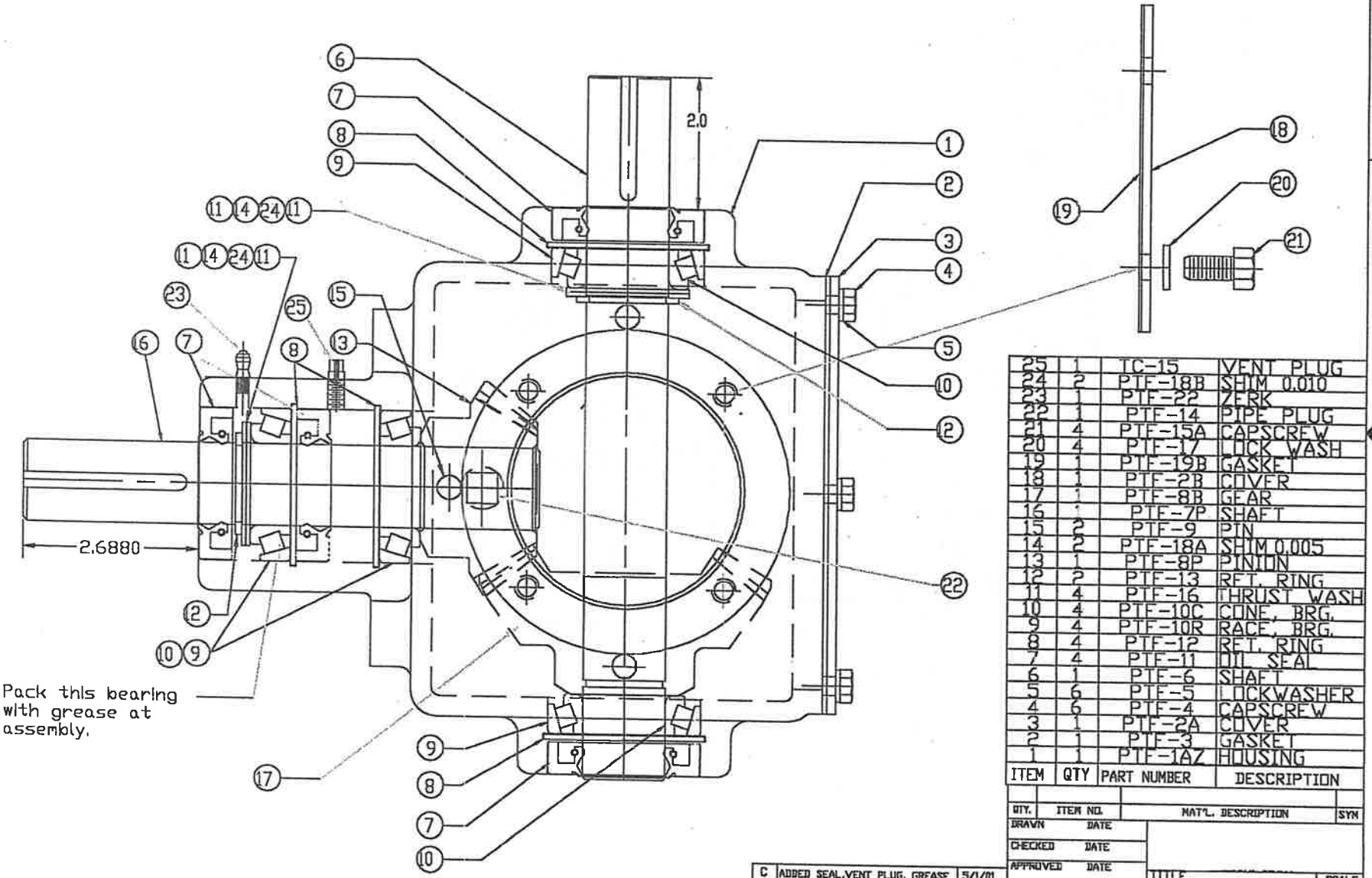
Reference	Description	Quantity	Part Number
A	1 1/4" Pillow Block Bearing	8	UCP-207-20
B	Spinner Disc	2	RH or LH (Please Spe
C	F/L Fins	12	RH or LH (Please Spec
D	4 Bolt Fan Hub	2	
E	Fan Shaft	2	
F	1 1/2" 4 Bolt Flange Bearing	5	UCF-208-24
G	Sprocket	1	60 BS 30 x 1 1/2"
H	Sprocket	1	60 BS 40 x 1 1/2"
I	Key	12	
J	#60 Idler Sprockets	2	6015-E
K	#60 Chain	1	
L	Sprocket	1	60 BS 60 x 1 1/4"
M	Sprocket	1	60 BS 20 x 1 1/4"
N	Sprocket	1	60 BS 11 x 1 1/4"
O	L-1 1/4" GW Shaft	1	
P	#60 Chain	1	34 Links - 1 Offset L
Q	Sprocket	1	60 BS 11 x 1 1/4"
R	S-1 1/4" GW Shaft	1	
S	16 x 6.5 x 8 Tire	1	
T	GWC-F-1634	1	
U	9' PT Gr. Wh. Belt Drive	1	
V	16" S.S. Mesh Chain	1	
W	Pulley	1	2B4.4-SH
X	Pulley	1	2B5.6-SDS
Y	V-Belt	2	B-62
Z	V-Belt	2	B-39
AA	Gear Case	1	PTF-71-2-R-Z
BB	1 1/4" 4 Bolt Flange Bearing	1	UCF-207-20
CC	Pulley	1	4B4.4-SD

P.T.O. DRIVE BASIC PARTS ILLUSTRATION



NOTE: ASSEMBLY DRAWING FOR FULL PRESS WHEEL DRIVE ONLY

DWG NO. PTF-71-2RZ-FP REV C



ITEM	QTY	PART NUMBER	DESCRIPTION
25	1	TC-15	VENT PLUG
24	2	PTF-18B	SHIM 0.010
23	1	PTF-22	ZERK
22	1	PTF-14	PIPE PLUG
21	4	PTF-15A	CAPSCREW
20	4	PTF-17	LOCK WASH
19	1	PTF-19B	GASKET
18	1	PTF-2B	COVER
17	1	PTF-8B	GEAR
16	1	PTF-7P	SHAFT
15	2	PTF-9	PIN
14	2	PTF-18A	SHIM 0.005
13	1	PTF-8P	PINION
12	2	PTF-13	RET. RING
11	4	PTF-16	THRUST WASH
10	4	PTF-10C	CONE, BRG.
9	4	PTF-10R	RACE, BRG.
8	4	PTF-12	RET. RING
7	4	PTF-11	OIL SEAL
6	1	PTF-6	SHAFT
5	6	PTF-5	LOCKWASHER
4	6	PTF-4	CAPSCREW
3	1	PTF-2A	COVER
2	1	PTF-3	GASKET
1	1	PTF-1AZ	HOUSING

QTY.	ITEM NO.	MAT'L. DESCRIPTION	SYM

DRAWN	DATE	
CHECKED	DATE	
APPROVED	DATE	

TOLERANCE UNLESS OTHERWISE SPECIFIED

SYM	CHANGE DESCRIPTION	DATE
C	ADDED SEAL,VENT PLUG, GREASE	5/1/01
B	CORRECTED DRAWING	6/27/97
A	REL. FOR PRODUCTION	2/94

TITLE: DRIVE ASSEMBLY

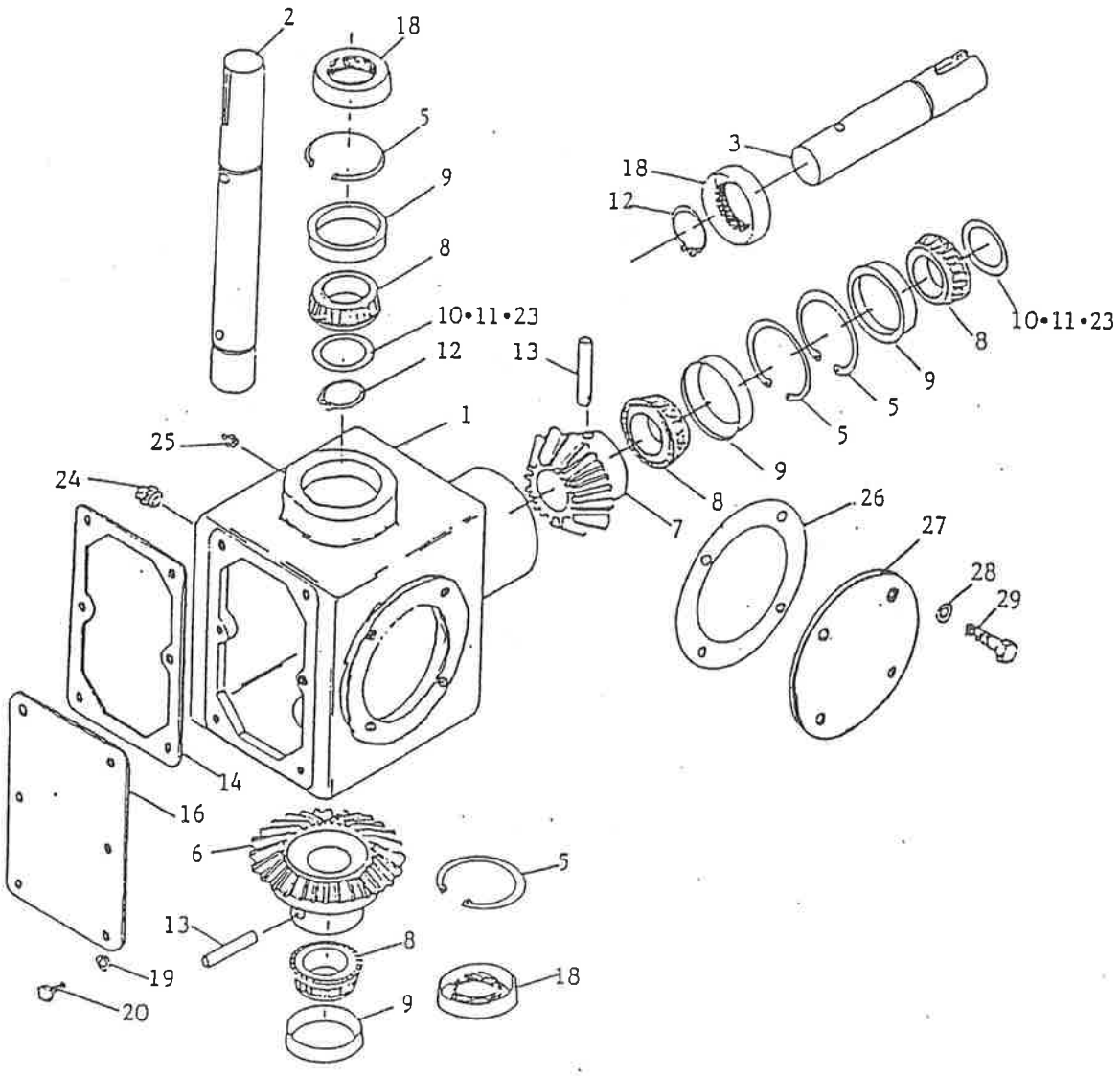
SCALE:

DRAWING NO. PTF-71-2RZ-FP

GEAR CASE - EXPLODED VIEW

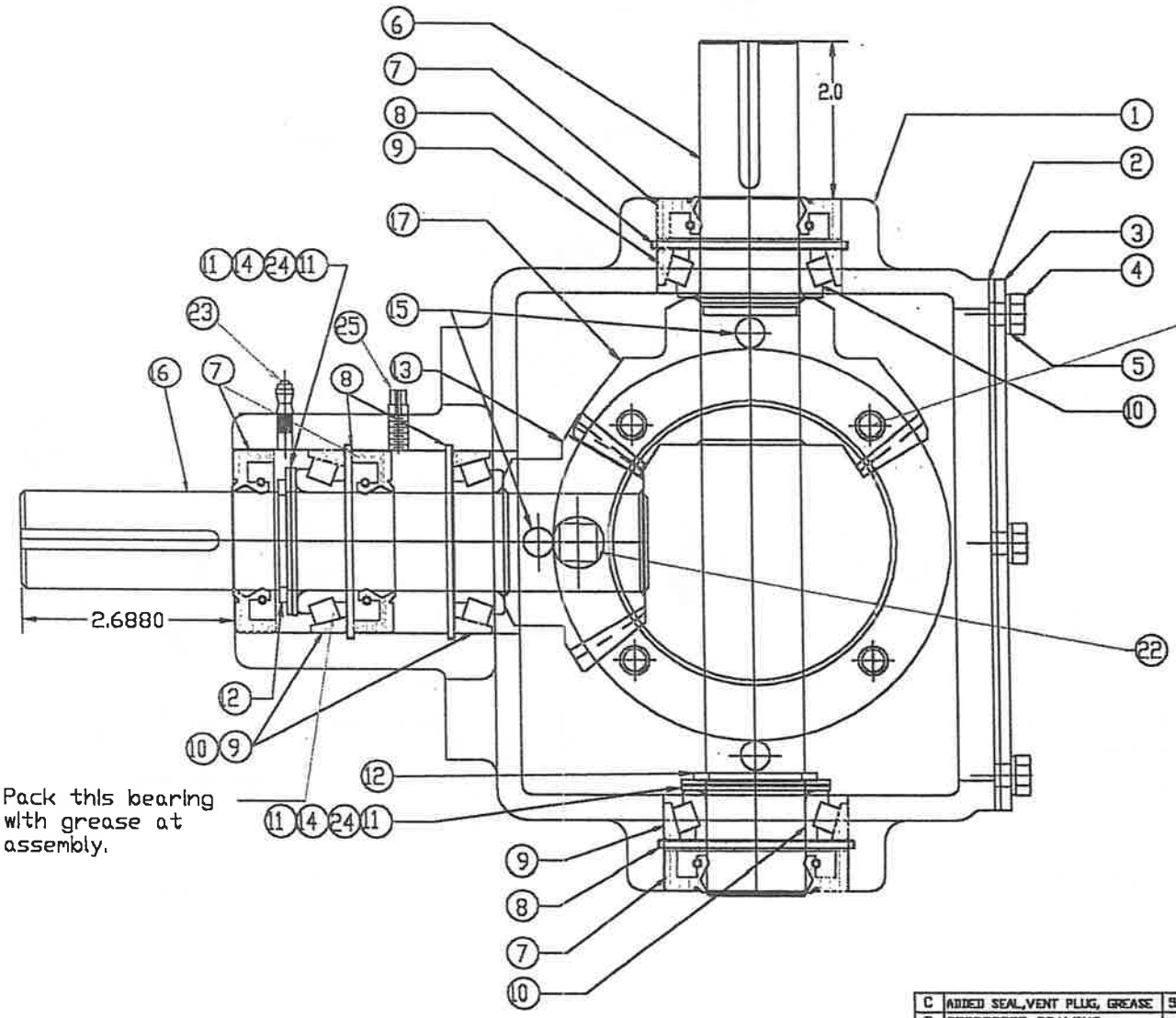
Ref.	Part Description	Part Number
	Complete Gear Case	PTF-71-2RZ
1	Housing	PTF-1A
2	Shaft, Output	PTF-6
3	Shaft, Input	PTF-7P
5	Retaining Ring	PTF-12
6	Bevel Gear	PTF-8B
7	Pinion Gear	PTF-8P
8	Bearing (Cone)	PTF-10
9	Bearing (Race)	PTF-10
10	Shim, (.005")	PTF-18A
11	Shim, (.010")	PTF-18B
12	Retaining Ring, Small	PTF-13
13	Shear Pin	PTF-9
14	Gasket	PTF-3
16	Cover Plate - Square	PTF-2A
18	Oil Seal	PTF-11
19	Lockwasher - 1/4"	PTF-5
20	Capscrew-1/4"-20x1/2"	PTF-4
23	Washer, Shim	PTF-16
24	Pipe Plug	PTF-14
25	Grease Zerk	PTF-22
26	Gasket	PTF-19
27	Cover Plate - Round	PTF-2B
28	Lockwasher	PTF-17
29	Capscrew	PTF-15

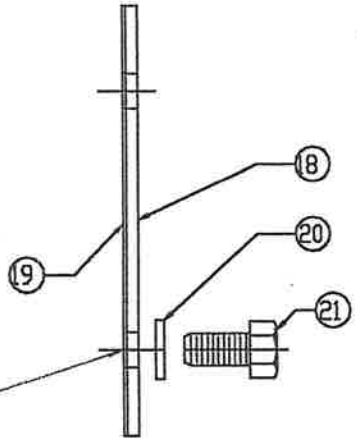
Note: Important Assembly Information
Exploded View for ordering parts ONLY
For Assembly see drawing #
PTF-71-2RZ (PTO drive spinners)
PTF-71-2RZFP (Full Press Wheel)



DWG. NO. PTF-71-2RZ REV. C

NOTE: ASSEMBLY DRAWING FOR PTO SPINNERS ONLY





ITEM	QTY	PART NUMBER	DESCRIPTION
25	1	TC-15	VENT PLUG
24	2	PTF-18B	SHIM 0.010
23	1	PTF-22	ZERK
22	1	PTF-14	PIPE PLUG
21	4	PTF-15A	CAPSCREW
20	4	PTF-17	LOCK WASH
19	1	PTF-19B	GASKET
18	1	PTF-2B	COVER
17	1	PTF-8B	GEAR
16	1	PTF-7P	SHAFT
15	2	PTF-9	PIN
14	2	PTF-18A	SHIM 0.005
13	1	PTF-8P	PINION
12	2	PTF-13	RET. RING
11	4	PTF-16	THRUST WASH
10	4	PTF-10C	CONE, BRG.
9	4	PTF-10R	RACE, BRG.
8	4	PTF-12	RET. RING
7	4	PTF-11	OIL SEAL
6	1	PTF-6	SHAFT
5	6	PTF-5	LOCKWASHER
4	6	PTF-4	CAPSCREW
3	1	PTF-2A	COVER
2	1	PTF-3	GASKET
1	1	PTF-1AZ	HOUSING

QTY.	ITEM NO.	MAT'L. DESCRIPTION	SYM

DRAWN DATE

CHECKED DATE

APPROVED DATE

TOLERANCE UNLESS OTHERWISE SPECIFIED .XX +/- .03 .XXX +/- .005 .XXXX +/- .0005 ANGLES +/- 1 DEG FRACTIONS +/- 1/64

TITLE DRIVE ASSEMBLY

SCALE

DRAWING NO. PTF-71-2RZ

SYM	CHANGE DESCRIPTION	DATE
C	ADDED SEAL, VENT PLUG, GREASE	5/1/01
B	CORRECTED DRAWING	10/27/97
A	REL. FOR PRODUCTION	2/94

SETTING FAN SPEED ON HYDRAULIC UNITS
POWERED BY TRACTOR HYDRAULICS

Proper fan speed for most common applications of fertilizer and lime is 650 RPM. This speed is controlled by the priority valve located on the side of spreader unit. Adjust as follows:

1. Set priority valve control on "0".
2. Engage valve handle on tractor controlling spinner operation.
3. Set tractor engine speed at approximate field speed.
4. Set priority valve control on "6".
5. Check spinner speed with hand tach.
6. Increase fan speed to desired RPM by moving handle on priority valve control clockwise approximately ¼". Check spinner speed – Continue to move slightly until desired spinner speed is reached – then lock handle on priority control valve with knurled thumb knob.

NOTE: If above procedure is carried out using tractor with "open-center" hydraulic system, priority valve setting will be the same when hooked to any tractor with "open-center" hydraulic system provided tractor supplies minimum of 10.5 and maximum of 21 gallons per minute flow at remote valve outlet.

NOTE: If spinner speed is set using tractor with "closed-center" hydraulic system, priority valve setting may vary when hooked to another tractor with "closed-center" hydraulic system. This above procedure for setting spinner speed should be carried out when unit is to be used with other tractors having "closed-center" hydraulic system. When using "closed" hydraulic system, be sure excess flow hose is cut-off using the lever cut-off valve.

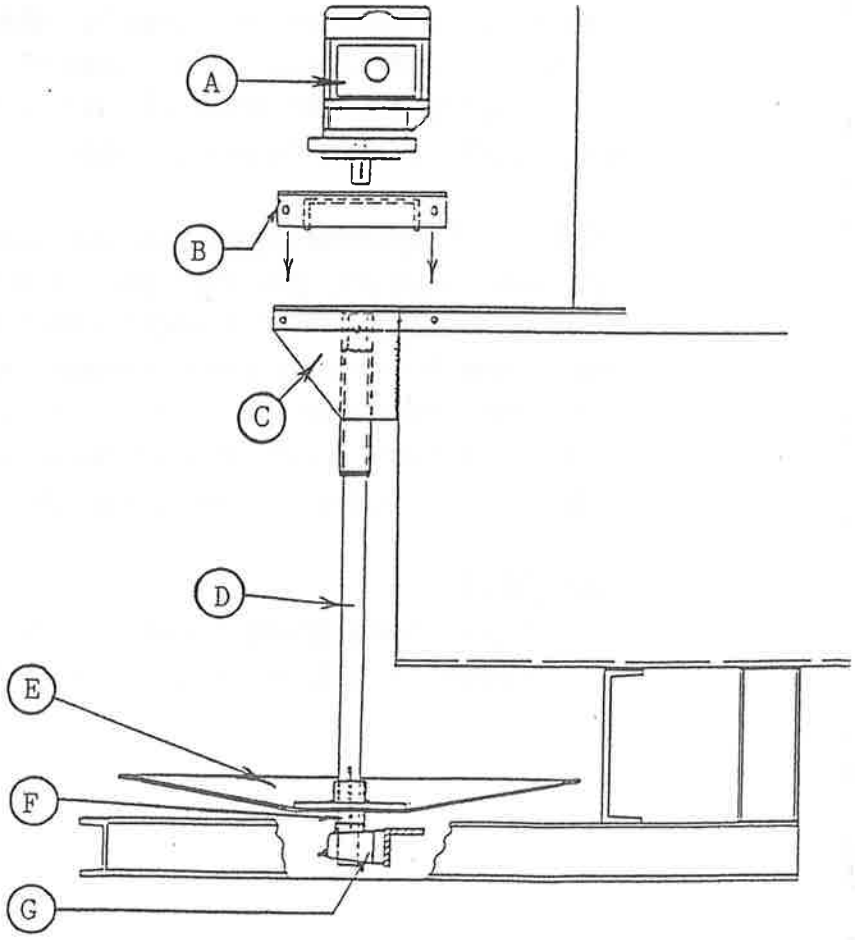
CAUTION:

Never hook spreader unit to tractor with "open-center" hydraulic system with priority valve return line removed from unit.

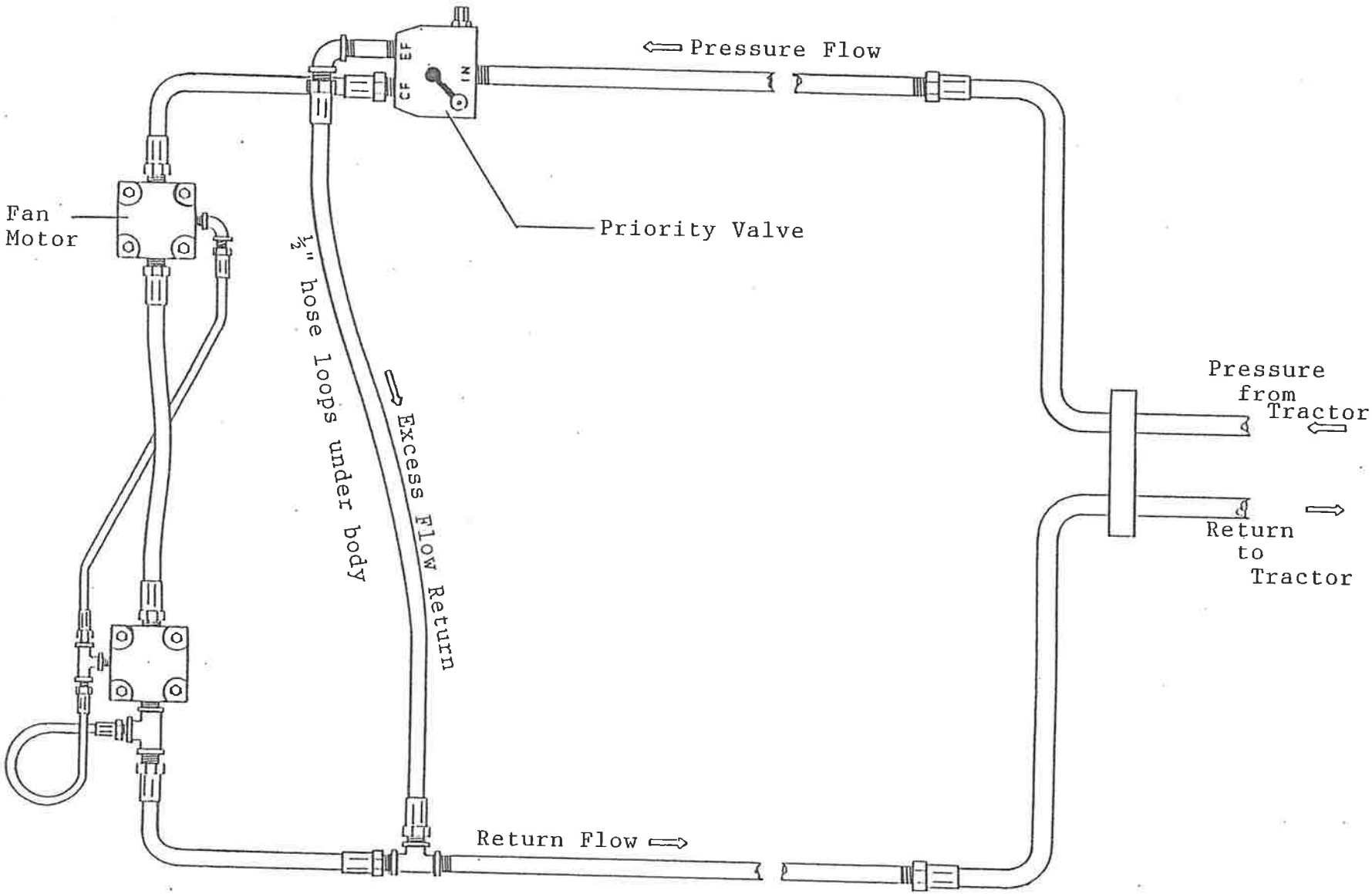
HYDRAULIC F/L SPINNER ASSEMBLY

Ref.	Part Description	Part Number
A	M-3000 x 1 1/2" Fan Motor	400-C-202
B	Motor Mount	300-1-214
C	Motor Mount Bracket	Non-Stock
	Specify RH or LH when ordering	
D	Fan Shaft	300-1-210
E	24" Dished Disc (Only) 7 Ga.	300-FL-101
*	24" Dished Disc, S.S.	300-FL-102
	Specify RH or LH when ordering	
F	1 1/4" x 3/4" Spacer	300-1-208
G	Bearing, 1 1/4" Pillow Block	UCP-207-20

* Optional



HYDRAULIC DIAGRAM



*Note: Remove and plug off excess flow return line for a "close-center" hydraulic system.

CHANDLER EQUIPMENT COMPANY GAINESVILLE, GA.

PHONE: (404) 536-8891
TOLL FREE: 1-800-243-331

SPROCKET RATIO: 11/40-50' SPREAD

GATE SETTING ↓	"POUNDS PER ACRE" ↓					
1 ➤	65	70	75	80	88	95
1 1/2 ➤	90	100	110	120	130	140
2 ➤	120	134	147	160	174	187
2 1/2 ➤	150	167	184	201	217	234
3 ➤	180	201	221	241	261	281
3 1/2 ➤	210	234	258	281	305	328
4 ➤	242	268	295	321	348	375
4 1/2 ➤	270	301	331	362	392	422
5 ➤	300	335	368	402	435	469
5 1/2 ➤	330	368	405	442	479	516
6 ➤	360	402	442	482	523	563
MAT.'L WGT. PER CU. FT.	↑ 45#	↑ 50#	↑ 55#	↑ 60#	↑ 65#	↑ 70#

CHART "A"-USED PRIMARILY FOR FERTILIZER APPLICATION RATES RANGING FROM 100# TO 500# PER ACRE @ 50' SPREAD

SPROCKET RATIO: 20/30-50' SPREAD

GATE SETTING ↓	"POUNDS PER ACRE" ↓					
2 ➤	293	325	357	390	422	455
2 1/2 ➤	366	406	447	487	528	568
3 ➤	438	487	536	585	633	682
3 1/2 ➤	511	568	625	682	739	796
4 ➤	585	650	715	780	845	910
4 1/2 ➤	658	731	804	877	950	1024
5 ➤	731	812	894	975	1056	1137
5 1/2 ➤	805	894	983	1072	1162	1251
6 ➤	878	975	1072	1170	1267	1365
6 1/2 ➤	950	1056	1162	1267	1373	1479
7 ➤	1023	1137	1251	1365	1479	1592
MAT.'L WGT. PER CU. FT.	↑ 45#	↑ 50#	↑ 55#	↑ 60#	↑ 65#	↑ 70#

CHART "B"-USED PRIMARILY FOR FERTILIZER APPLICATION RATES RANGING FROM 500# TO 1000# PER ACRE @ 50' SPREAD

RATIO: 20/30-30' SPREAD

GATE SETTING ↓	"POUNDS PER ACRE" ↓		
3 ➤	1300	1463	1627
3 1/2 ➤	1515	1706	1897
4 ➤	1740	1954	2171
4 1/2 ➤	1960	2200	2440
5 ➤	2170	2440	2710
5 1/2 ➤	2380	2690	3000
6 ➤	2604	2930	3256
6 1/2 ➤	2820	3170	3520
7 ➤	3034	3417	3800
7 1/2 ➤	3254	3662	4070
8 ➤	3474	3907	4340
MAT.'L WGT. PER CU. FT.	↑ 80#	↑ 90#	↑ 100#

CHART "C"-LIMESTONE APPLICATION @ 30' SPREAD

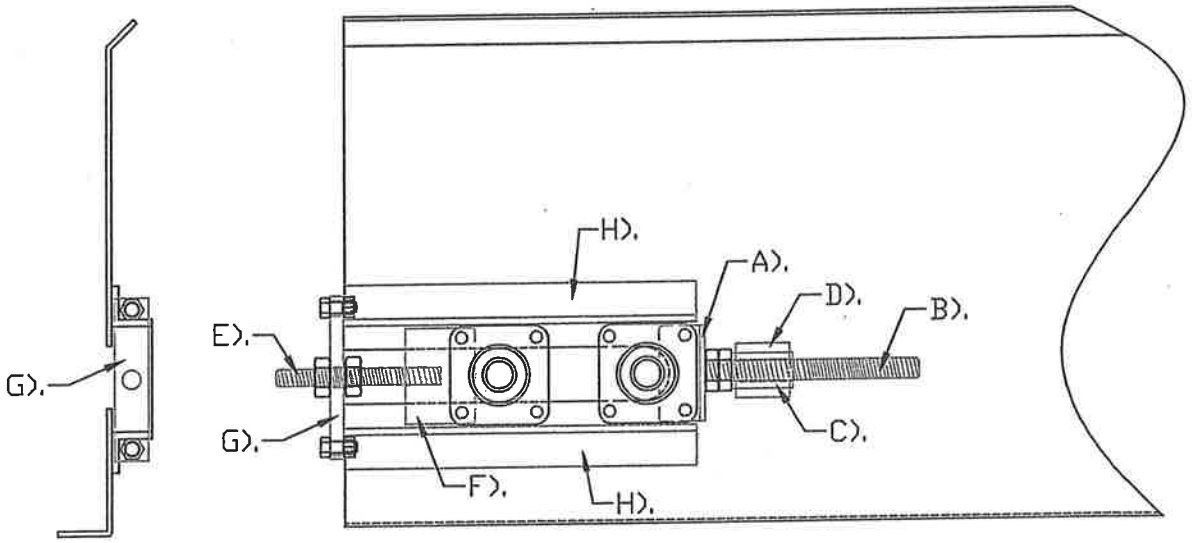
"DIRECTIONS": A.) GO HORIZONTALLY ACROSS, AT BOTTOM OF CHART, AND LOCATE WEIGHT PER CUBIC FOOT OF MATERIAL YOU WISH TO SPREAD. (NOTE: IF MATERIAL WEIGHT PER CU. FT. IS UNKNOWN, WEIGH 1 GALLON OF MATERIAL AND MULTIPLY BY 7.5. THIS WILL GIVE YOU MATERIAL WEIGHT PER CUBIC FOOT.)

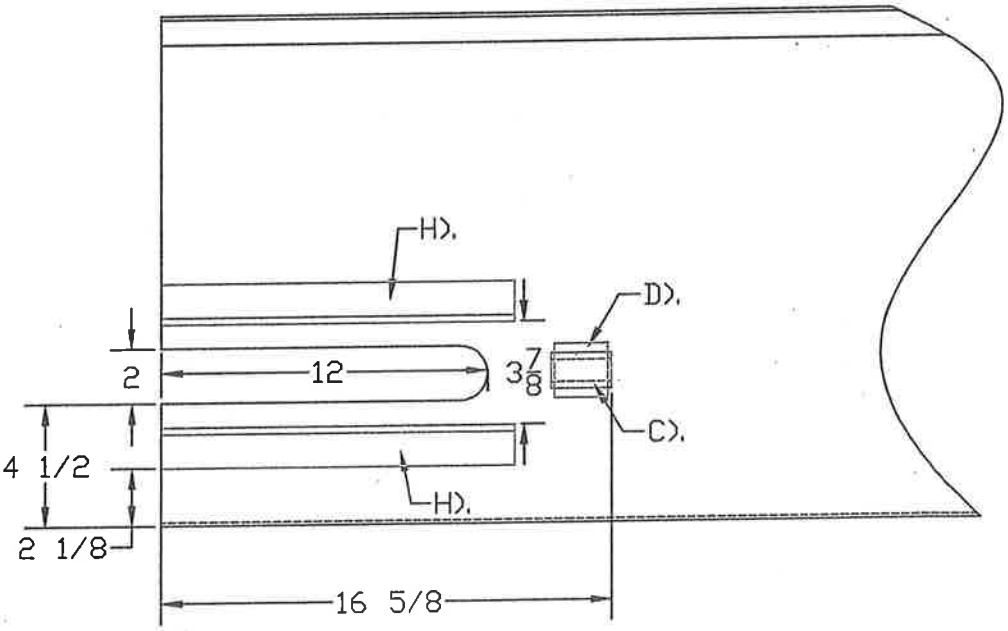
B.) GO VERTICALLY UP THE CHART IN CORRECT MATERIAL WEIGHT COLUMN UNTIL APPLICATION RATE YOU DESIRE IS FOUND. COME HORIZONTALLY ACROSS TO FIND CORRECT METERING GATE SETTING.

"CAUTION": BE SURE SPROCKET RATIOS AND SPREAD SWATHS CORRESPOND WITH CHART YOU ARE USING.

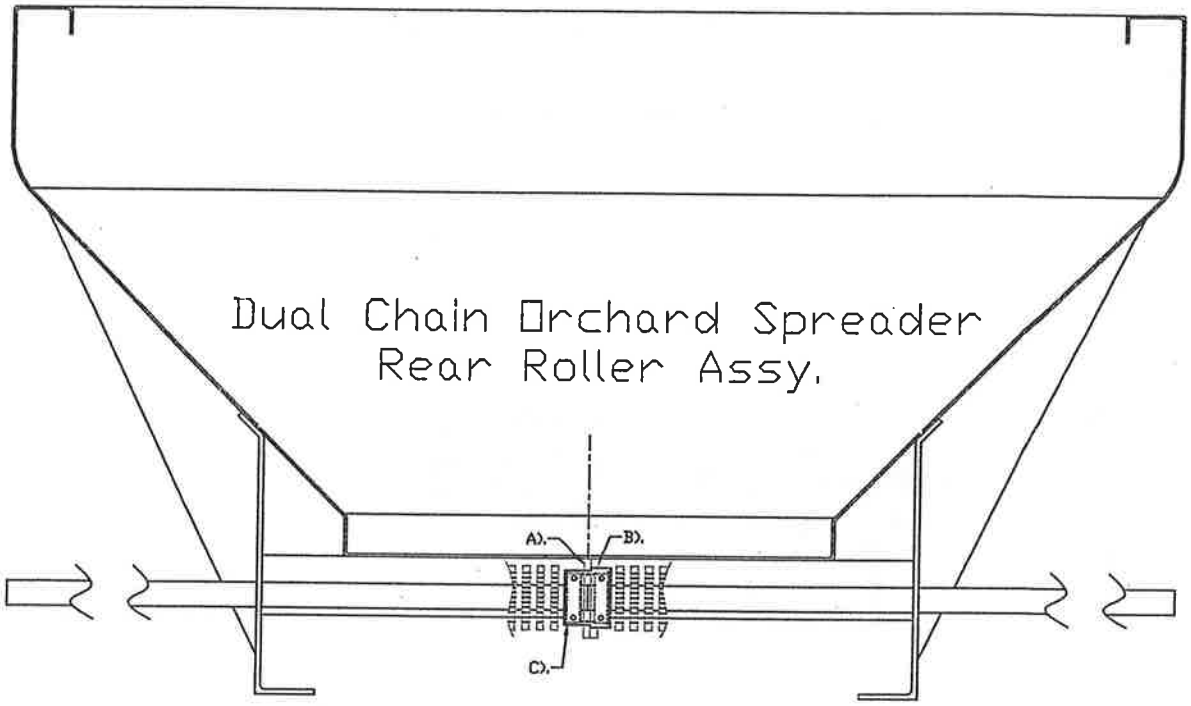
Split Chain Option
(dual 8" Chain)

Duel Chain Orchard Spreader
Front Roller Assy.



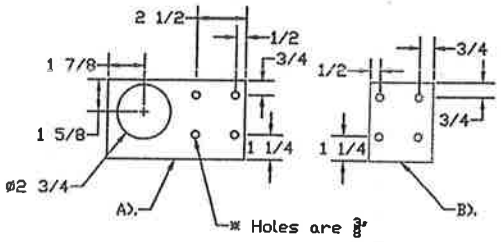


Dual Chain Orchard Spreader
Rear Roller Assy.

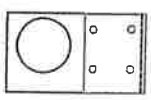


*Note:
With Parts A&B Bolted Together,
Weld Part-A to Part-C.
Then Weld Part-A Under Floor
on the Center of Floor Channel.

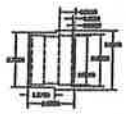
Dual Chain Orchard Spreader
Bearing Sleeve Mount



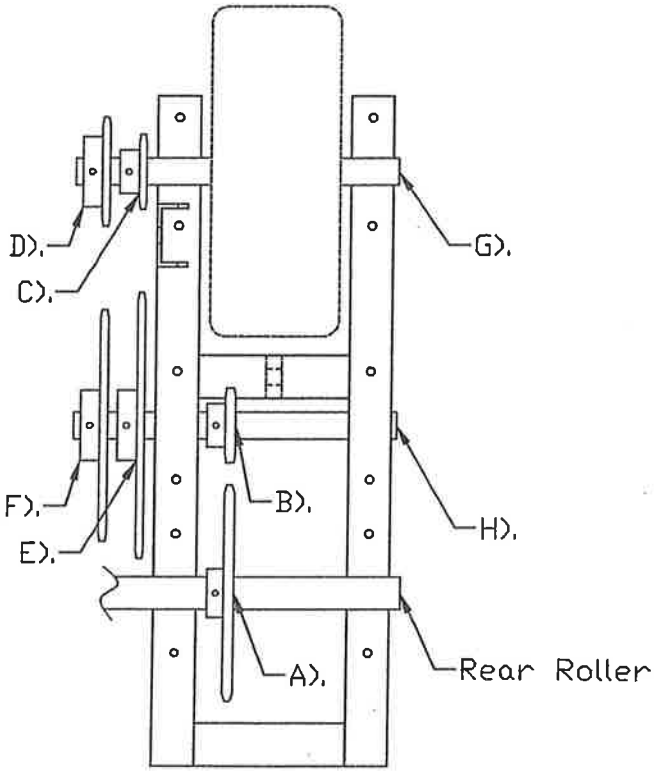
Matl: A). 3/8"x4" Flat 7"Lg.-1pc
B). 3/8"x4 Flat 3 1/4"Lg.-1pc



Dual Chain Orchard Spreader
Rear Bearing Sleeve
Ck Matl 2"ID x .375 ID Tubing
2.375 After Ends are Faced
1pc



Std. Orchard Spreader
G.W. Frame Assy.
Use Std. 4" Hyd. Cyl.



A). 60BS40 x 1 1/2"
700-1-111

B). 60BS11 x 1 1/4"
700-1-103

C). 50BS12 x 1 1/4"
700-1-124

D). 50BS20 x 1 1/4"
700-1-126

E). 50BS60 x 1 1/4"
700-1-129

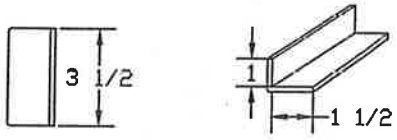
F). 50BS52 x 1 1/4"
700-1-128

G). G.W. Shaft - 11/4" C.R. 15"Lg.
1/4" Key - 0" to 4"

H). G.W. Jack Shaft - 11/4" C.R. 15"Lg.
1/4" Key - 0" to 8"

Duel Chain Orchard Spreader
Front Roller Sub-Assy.

A). $\frac{3}{16}$"S.S.-$2\frac{1}{2}$"X$3\frac{3}{4}$" Formed Angle
2 pcs



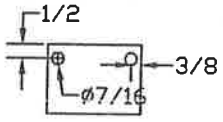
B). $\frac{3}{4}$"S.S. Thrd. Rod - 8"Lg.
2-pcs

C). $\frac{3}{4}$"S.S. Pipe - 2"Lg.(Faced)
2-pcs

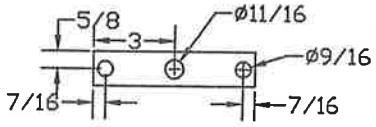
D). $\frac{1}{4}$"X2 S.S. Flat - 2"Lg
2-pcs

E). $\frac{5}{8}$" S.S. Thrd. Rod - 6"Lg
2-pcs

F). $\frac{3}{16}$" S.S. $2\frac{1}{2}$"X$3\frac{1}{2}$"
2-pcs

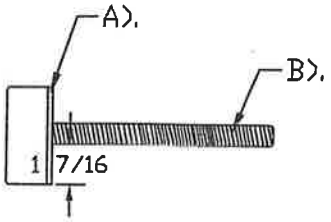


G). $\frac{1}{2}$"X$1\frac{1}{4}$" S.S. Flat - 6"Lg.
2-pcs

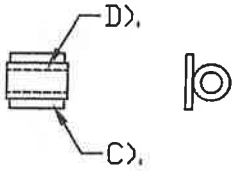


H). $\frac{3}{16}$"X$1\frac{1}{2}$" Angle - 13"Lg.
4-pcs

1).



2).



3).