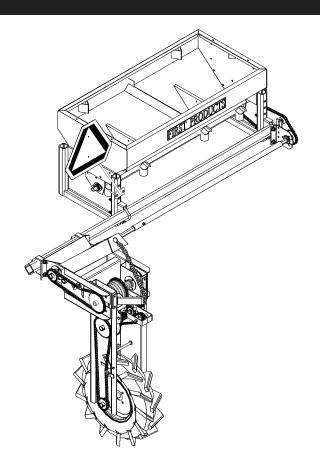


FERTILIZER EQUIPMENT PRODUCT CATALOG

2 ROW GROUND DRIVE





PRODUCT DESCRIPTION: The 2-Row Ground Drive consists of (1) 500 lb. hopper and (1) ground drive and hoses. Hose holders not included.

WHEN ORDERING, CUSTOMER MUST SELECT

Number of Outlets:

- 2 Outlet or
- 4 Outlet

Type of Mounts:

- Flat- (4x4 up to 7x7)
- Diamond- (3 1/2 or 4 inch)
- Pittsburgh

Type of Reach:

- Short Reach (12")
- Long Reach (48")

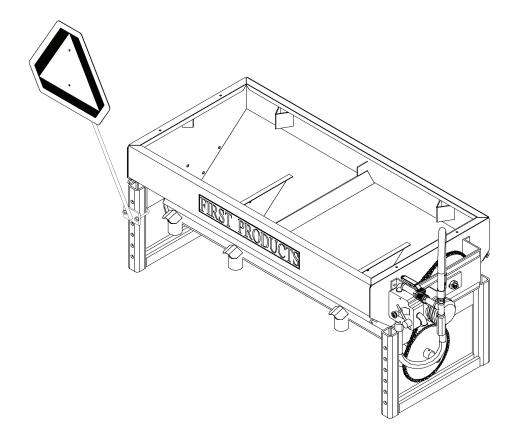
ADDITIONAL PRODUCT INFORMATION

- 750 lb. hopper extensions available to increase hopper capacity to 1250 lbs. (For 1250 lb. capacity, add FA82-023 or FA82-024 from page 9.)
- If customer requires hose holders, order from Individual Bundles on page 9.

Note: 2 and 4 outlet auger configurations are different.

2 ROW HYD DRIVE





PRODUCT DESCRIPTION: The 2-Row Hydraulic Drive consists of (1) 500 lb. hopper and (1) hydraulic drive and hoses. Hose holders not included.

WHEN ORDERING, CUSTOMER MUST SELECT

Number of Outlets:

- 2 Outlet or
- 4 Outlet

Type of Mounts:

- Flat- (4x4 up to 7x7)
- Diamond- (3 1/2 or 4 inch)
- Pittsburgh

Type of Reach:

- Short Reach (12")
- Long Reach (48")

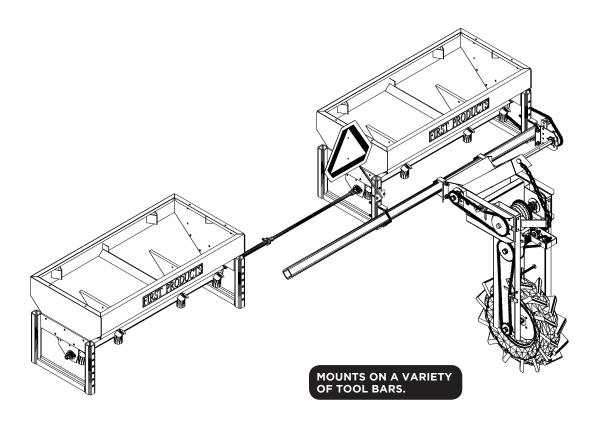
ADDITIONAL PRODUCT INFORMATION

- 750 lb. hopper extensions available to increase hopper capacity to 1250 lbs. (For 1250 lb. capacity, add FA82-023 or FA82-024 from page 9.)
- If customer requires hose holders, order from Individual Bundles on page 9.
- Hydraulic Drive hoses from tractor to box are not included.

Note: 2 and 4 outlet auger configurations are different.

4 ROW GROUND DRIVE





PRODUCT DESCRIPTION: The 4-Row Ground Drive consists of (2) 500 lb. hoppers, (1) ground drive and hoses and box connector. Hose holders not included.

WHEN ORDERING, CUSTOMER MUST SELECT

Number of Outlets:

- 2 Outlet or
- 4 Outlet

Type of Mounts:

- Flat- (4x4 up to 7x7)
- Diamond- (3 1/2 or 4 inch)
- Pittsburgh

Type of Reach:

- Short Reach (12")
- Long Reach (48")

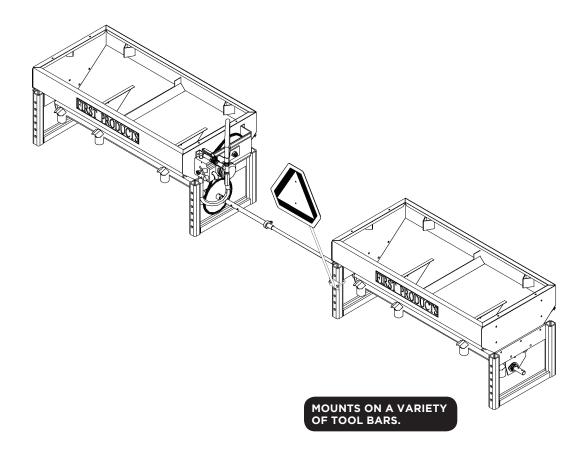
ADDITIONAL PRODUCT INFORMATION

- 750 lb. hopper extensions available to increase hopper capacity to 1250 lbs. (For 1250 lb. capacity, add FA82-023 or FA82-024 from page 9.)
- If customer requires hose holders, order from Individual Bundles on page 9.

Note: 2 and 4 outlet auger configurations are different.

4 ROW HYD DRIVE





PRODUCT DESCRIPTION: The 4-Row Hydraulic Drive consists of (2) 500 lb. hoppers and (1) hydraulic drive, hoses and box connector. Hose holders not included.

WHEN ORDERING, CUSTOMER MUST SELECT

Number of Outlets:

- 2 Outlet or
- 4 Outlet

Type of Mounts:

- Flat- (4x4 up to 7x7)
- Diamond- (3 1/2 or 4 inch)
- Pittsburgh

Type of Reach:

- Short Reach (12")
- Long Reach (48")

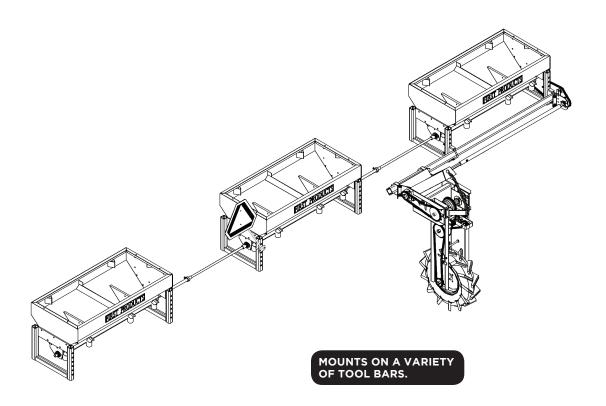
ADDITIONAL PRODUCT INFORMATION

- 750 lb. hopper extensions available to increase hopper capacity to 1250 lbs. (For 1250 lb. capacity, add FA82-023 or FA82-024 from page 9.)
- If customer requires hose holders, order from Individual Bundles on page 9.
- Hydraulic Drive hoses from tractor to box are not included.

Note: 2 and 4 outlet auger configurations are different.

6 ROW GROUND DRIVE





PRODUCT DESCRIPTION: The 4-Row Ground Drive consists of (3) 500 lb. hoppers, (1) ground drive, hoses and box connector. Hose holders not included.

WHEN ORDERING, CUSTOMER MUST SELECT

Number of Outlets:

- 2 Outlet or
- 4 Outlet

Type of Mounts:

- Flat- (4x4 up to 7x7)
- Diamond- (3 1/2 or 4 inch)
- Pittsburgh

Type of Reach:

- Short Reach (12")
- Long Reach (48")

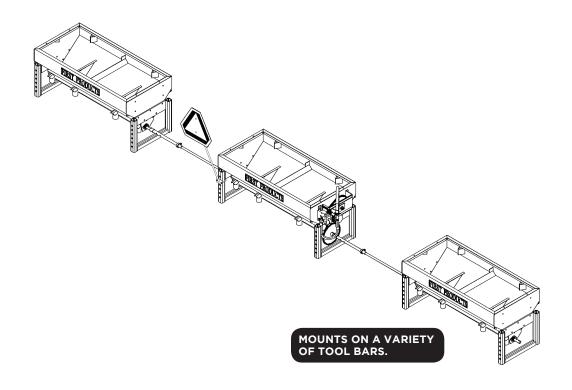
ADDITIONAL PRODUCT INFORMATION

- 750 lb. hopper extensions available to increase hopper capacity to 1250 lbs. (For 1250 lb. capacity, add FA82-023 or FA82-024 from page 9.)
- If customer requires hose holders, order from Individual Bundles on page 9.

Note: 2 and 4 outlet auger configurations are different.

6 ROW HYD DRIVE





PRODUCT DESCRIPTION: The 4-Row Hydraulic Drive consists of (2) 500 lb. hoppers and (1) hydraulic drive, hoses and box connector. Hose holders not included.

WHEN ORDERING, CUSTOMER MUST SELECT

Number of Outlets:

- 2 Outlet or
- 4 Outlet

Type of Mounts:

- Flat- (4x4 up to 7x7)
- Diamond- (3 1/2 or 4 inch)
- Pittsburgh

Type of Reach:

- Short Reach (12")
- Long Reach (48")

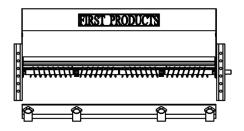
ADDITIONAL PRODUCT INFORMATION

- 750 lb. hopper extensions available to increase hopper capacity to 1250 lbs. (For 1250 lb. capacity, add FA82-023 or FA82-024 from page 9.)
- If customer requires hose holders, order from Individual Bundles on page 9.
- Hydraulic Drive hoses from tractor to box are not included.

Note: 2 and 4 outlet auger configurations are different.

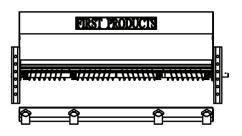
INDIVIDUAL COMPONENTS FOR FERTILIZER BOXES





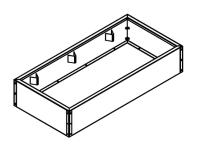
FA82-001

500 lb. 2-outlet fertilizer hopper.



FA82-002

500 lb. 4-outlet fertilizer hopper.



FA82-003

500 lb. plus extension



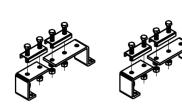
FA82-004

Flat Tool Bar Mounts



FA82-005

Diamond Tool Bar Mounts



FA82-006

Angle Frame Mounts



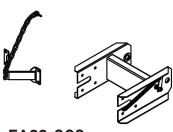
FA82-007

Hydraulic Drive



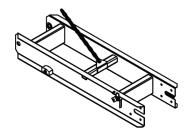
FA82-008

Ground Drive Transmission



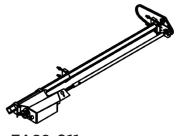
FA82-009

Ground Drive Short Reach 12"



FA82-010

Ground Drive Long Reach 48"



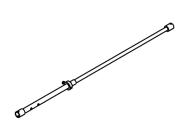
FA82-011

Ground Drive Box Mount

Products can be purchased separately.

INDIVIDUAL COMPONENTS FOR FERTILIZER BOXES

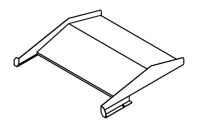




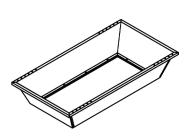
FA82-012 Box Connector



FA82-013
Fertilizer Hose Pair



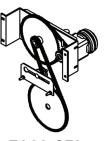
FA82-022 750 lb. Bridge



FA82-023750 lb. extension 36"-38"



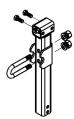
FA82-024750 lb. extension 44"-48"



FA82-031 GPS Hydraulic Kit



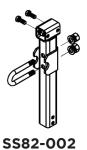
13/8 Double Disc Opener (Dry)



SS82-001



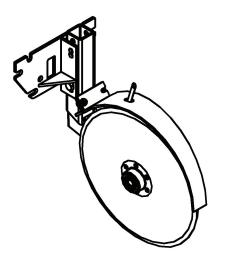
13/8 Round Shank mount for Rolling Cultivator



13/8 Round Shank mount for Pittsburgh Cultivator

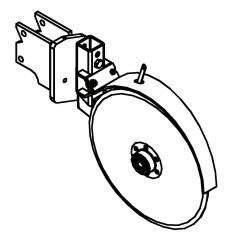
FIRST PRODUCTS LIQUID DOUBLE DISC OPENERS





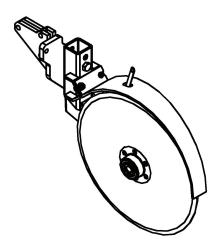
John Deere ME15 (ME82-011)

Ships in pairs (1 left and 1 right)



Case IH DA15 (DA82-003)

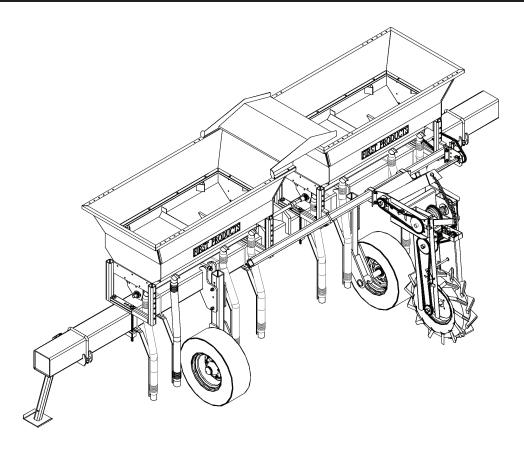
Ships in pairs (1 left and 1 right)



Monosem MS15 (MS82-008)

Ships in pairs (1 left and 1 right)





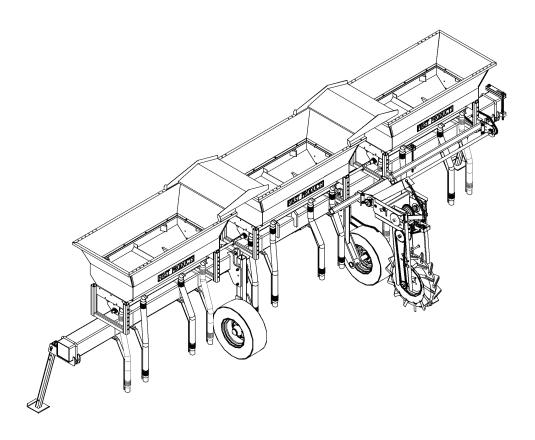
4-Row Custom Bar

- Custom Tool Bars are available on 36-38 or 44-48 inch row spacing.
- Includes parking stands and gauge wheels.
- Optional drives- ground or hydraulic

WHEN ORDERING, CUSTOMER MUST SELECT

- Row Spacing
- Type of Drive System
- Ground Wheel Location
- Number of Outlets
- Addition of 750 lb. Extensions
- Addition of Double Disc Openers or Hose Holders





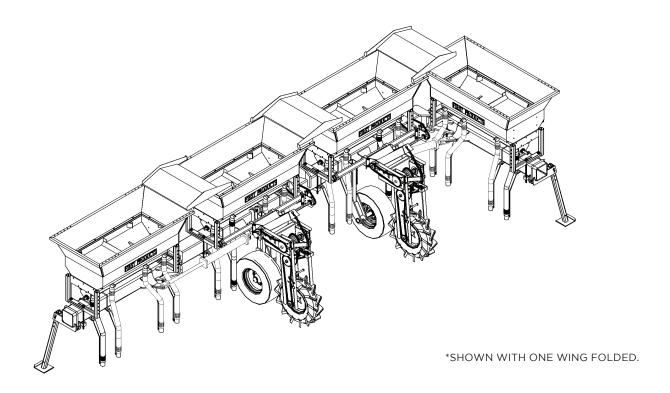
6-Row Custom Bar

- Custom Tool Bars are available on 36-38 or 44-48 inch row spacing.
- Includes parking stands and gauge wheels.
- Optional drives- ground, hydraulic or GPS hydraulic

WHEN ORDERING, CUSTOMER MUST SELECT

- Row Spacing
- Type of Drive System
- Ground Wheel Location
- Number of Outlets
- Addition of 750 lb. Extensions
- Addition of Double Disc Openers or Hose Holders





8-Row Custom Bar

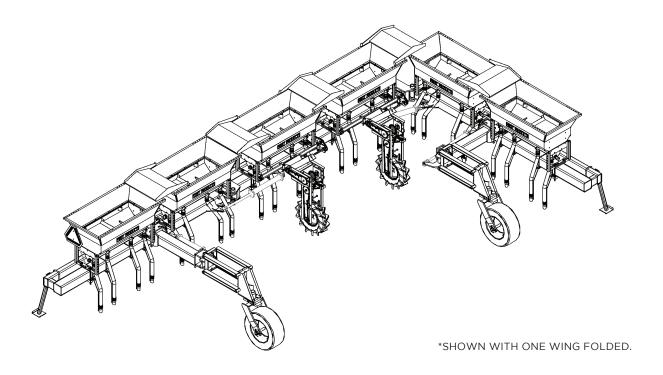
- Custom Tool Bars are available on 36-38 or 44-48 inch row spacing.
- Includes parking stands and gauge wheels.
- Optional drives ground, hydraulic or GPS hydraulic

WHEN ORDERING, CUSTOMER MUST SELECT

- Row Spacing
- Type of Drive System
- Number of Outlets
- Addition of 750 lb. Extensions
- Addition of Double Disc Openers or Hose Holders

^{*}Right and left wings fold for transport.





12-Row Custom Bar

- Rear fold Custom Tool Bars are available on 36-38 inch row spacing.
- Includes parking stands and gauge wheels.
- Optional drives ground, hydraulic or GPS hydraulic

*Right and left wings fold for transport.

WHEN ORDERING, CUSTOMER MUST SELECT

- Row Spacing
- Type of Drive System
- Number of Outlets

ONLINE ORDERING INSTRUCTIONS



As a convenience to our customers, we now have fast and easy online ordering. Simply go to **1stproducts.com**, click the red "Order Online" button and follow the instructions below. Should you have any questions, please contact us at **sales@1stproducts.com** or **(800) 363-8780**.

1. Create an Account

• Select Create Account from either the green bar at the top of the page or on the left hand side of the screen under "My Profile." We require all customers to have an account to order online.

2. Fill out your billing/shipping information

- Due to each shipment being a different size, and along with different shipping methods needed, all shipping is charged separately based on your order.
- For retailers, shipping is charged to the credit card we have on file. Wholesale shipping is charged to the PO number associated with the order.
- If your shipping address is different from your billing address, you may add it after the account set up is complete by editing the address book under My Profile, or you can add it during the checkout process.
- After creating your account, you can set up/save multiple shipping addresses if necessary. Go to My Account, then to

- Address Book. Fill out the fields under "Enter new shipping address" and click "add address."
- At checkout, you can choose a shipping address by clicking "edit address" under the Shipping Address/Method section.

3. Fill out the account information section.

- Are you requesting wholesale access?
 Select "no" if you are a retail customer and "yes" if you are a wholesale customer.
- 4. Agree with the Terms and Conditions and click the Register button.
- 5. After you create an account, you will receive an email with all of your registration details. Then, once your account is approved, you will receive a confirmation email.

MANUALS

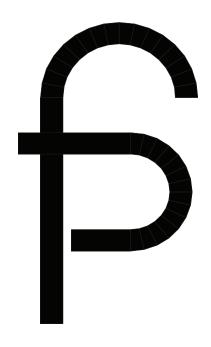
P 16: Parts List for Fertilizer Box Model FE

P 23: Mounting Instructions for Fertilizer Box Model FE

P 30: Parts List for Fertilizer Box Model FA

P 45: Parts List for Fertilizer Openers

PARTS LIST



FERTILIZER BOX MODEL FE

Serial Number 100 - ____

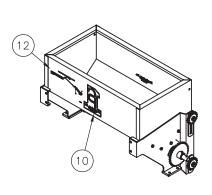
FIRST PRODUCTS INC.

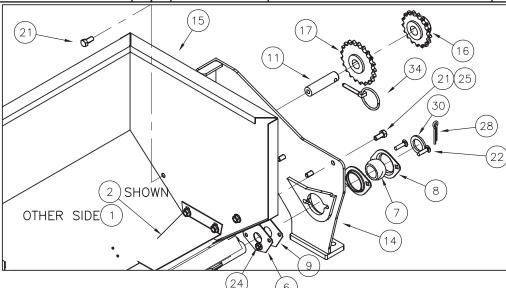
164 Oakridge Church Road Tifton, Georgia 31794 U.S.A. Phone 800-363-8780 Georgia (229) 382-4768 Fax (229) 382-0506

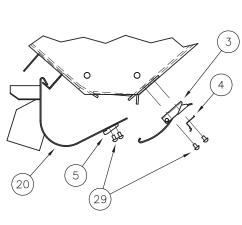
Printed in U.S.A. PB 082010

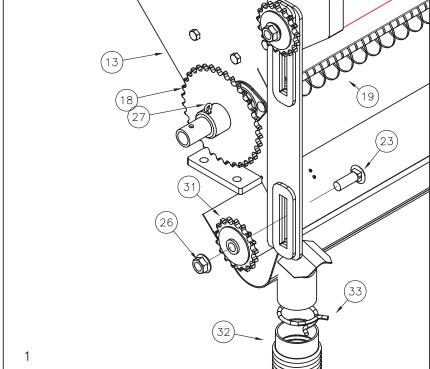
250# FE PARTS LIST BOX ASSEMBLY

| ITEM | PART NO | DESCRIPTION | QTY | ITEM | PART NO | DESCRIPTION | QTY |
|------|----------|-----------------------|-----|------|-----------------|--------------------------------|-----|
| 1 | FA27-033 | FUNNEL, LEFT | 1 | 18 | FE80-011 | 34 TOOTH SPROCKE/HUB | 1 |
| 2 | FA27-034 | FUNNEL, RIGHT | 1 | 19 | FE80-014 | 250# AUGER SHAFT | 1 |
| 3 | FA50-018 | DRAW LATCH | 2 | 20 | FE80.013 | 250# AUGER TROUGH | 1 |
| 4 | FA50-019 | LATCH LOCK | 2 | 21 | HW01010024SSPLC | 5/16 x 3/4 HEX CAPSCREW SS | 8 |
| 5 | FA50-020 | KEEPER | 2 | 22 | HW03008032SSPLC | 1/4 X 1 SS CARRIAGE BOLT | 4 |
| 6 | FB27-009 | SEAL PLATE | 2 | 23 | HW03016048G5ZPC | 1/2 X 1 1/2 CARRIAGE BOLT GD 5 | 2 |
| 7 | FB50-014 | AUGER SHAFT BRG. | 2 | 24 | HW22008SSPLC | 1/4 FLANGE LOCK NUT SS | 4 |
| 8 | FB50-034 | 40 MST STAMPING | 4 | 25 | HW22010G5ZPC | 5/16 FLANGE LOCK NUT | 7 |
| 9 | FB50-035 | AUGER BRG. SEAL | 2 | 26 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 2 |
| 10 | FB50-068 | FP LOGO DECAL | 2 | 27 | HW40008048BR | 1/4 x 1 1/2 BR COTTER PIN | 1 |
| 11 | FE26-005 | STORAGE SHAFT | 1 | 28 | HW40008048SS | 1/4 x 1 1/2 SS COTTER PIN | 2 |
| 12 | FE50-009 | FE GROUND DRIVE CHART | 1 | 29 | HW41005008SS | 5/32 SS RIVET (1/8-1/4 GRIP) | 8 |
| 13 | FE80-004 | RIGHT BOX MOUNT | 1 | 30 | HW6003204810GZP | 1"ID X 1 1/2 OD 10GA BUSHING | 2 |
| 14 | FE80-005 | LEFT BOX MOUNT | 1 | 31 | SB50-023 | #40 CHAIN IDLER | 2 |
| 15 | FE80-006 | 250# FE BOX | 1 | 32 | FB50-019 | FERTILIZER HOSE | 2 |
| 16 | FE80-008 | 17 TOOTH SPROCKET/HUB | 1 | 33 | FB50-028 | 2-1/4" HOSE CLAMP | 4 |
| 17 | FE80-009 | 24 TOOTH SPROCKET/HUB | 1 | 34 | AE50-149 | 1/4 LYNCH PIN | 1 |



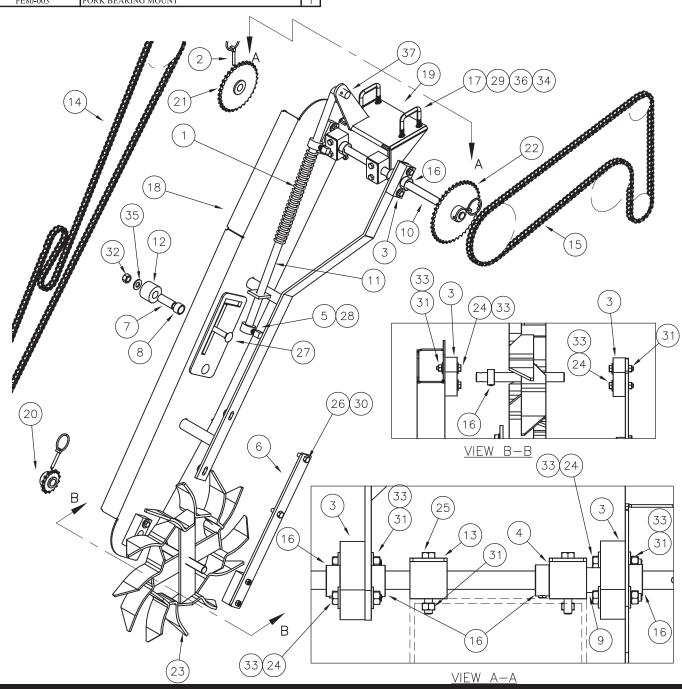






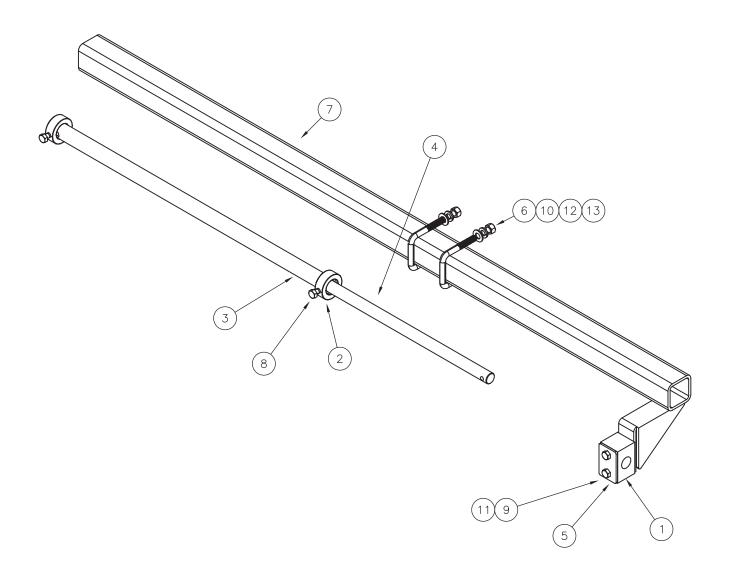
250# FE PARTS LIST GROUND DRIVE ASSEMBLY

| ITEM | PART NO | DESCRIPTION | QTY | ITEM | PART NO | DESCRIPTION | QTY |
|------|----------|-------------------------|-----|--------|-----------------|----------------------------|-----|
| 1 | AE50-071 | ROLLER SPRING | 1 | 20 | FE80-007 | 14 TOOTH SPROCKET/HUB | 1 |
| 2 | AE50-149 | 1/4 LYNCH PIN | 3 | 21 | FE80-010 | 32 TOOTH SPROCKET/HUB | 1 |
| 3 | FB26-005 | BRG. BLOCK, LONG | 4 | 22 | FE80-012 | 40 TOOTH SPROCKET/HUB | 1 |
| 4 | FB26-006 | BEARING BLOCK, SHORT | 2 | 23 | FE80-016 | 250# BOX GD WHEEL | 1 |
| 5 | FB50-022 | 11/16 ADJ COLLAR | 2 | 24 | HW01010056G5ZPC | 5/16 X 1 3/4 HHCS GD 5 | 8 |
| 6 | FE23-005 | LOWER RIGHT FORK | 1 | 25 | HW01010072G5ZPC | 5/16 X 2 1/4 HHCS GD 5 | 4 |
| 7 | FE24-008 | IDLER TUBE | 2 | 26 | HW01012032G5ZPC | 3/8 X 1 HHCS GD 5 | 2 |
| 8 | FE24-009 | IDLER SPACER | 2 | 27 | HW03016096G5ZPC | 1/2 X 3 CARRIAGE BOLT GD.5 | 2 |
| 9 | FE24-012 | SPACER | 1 | 28 | HW07016020PLC | 1/2 X 5/8 SQ HEAD | 2 |
| 10 | FE26-003 | 250 # BOX JACK SHAFT | 1 | 29 | HW20012G5ZPC | 3/8 HEX NUT | 4 |
| 11 | FE26-004 | SPRING PUSH ROD, 250# | 1 | 30 | HW22012G5ZPC | 3/8 FLANGE LOCK NUT | 2 |
| 12 | FE26-006 | CHAIN IDLER | 2 | 31 | HW24010GBZPC | 5/16 STOVER LOCK NUT | 12 |
| 13 | FE27-030 | BEARING BOLT PLATE | 2 | 32 | HW24016GBZPC | 1/2 STOVER LOCK NUT | 2 |
| 14 | FE50-001 | GROUND DRIVE CHAIN | 1 | 33 | HW30010TAZP | 5/16 FLATWASHER | 14 |
| 15 | FE50-005 | AUGER DRIVE CHAIN | 1 | 34 | HW30012TAZP | 3/8 FLATWASHER | 4 |
| 16 | FE50-006 | SHAFT COLLAR, 3/4" | 5 | 35 | HW30016TAZP | 1/2 FLATWASHER | 2 |
| 17 | FE50-007 | U-BOLT, 3/8 x 2W x 3 LG | 2 | 36 | HW32012G5ZP | 3/8 LOCK WASHER, G5 | 4 |
| 18 | FE80-002 | GROUND DRIVE FORK | 1 | 37 | HW40006040ZP | 3/16 X 1 1/4 COTTER PIN | 1 |
| 19 | FE80-003 | FORK BEARING MOUNT | 1 | \Box | - | • | |



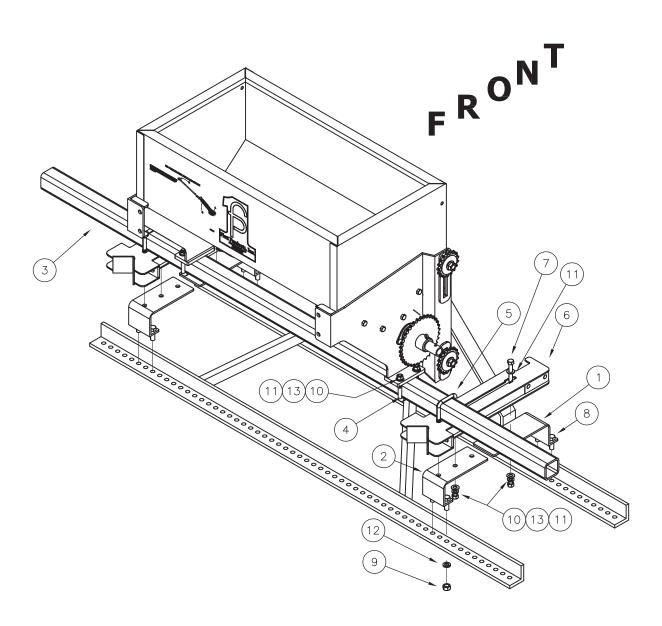
250# FE PARTS LIST GROUND DRIVE BAR ASSEMBLY

| ITEM | PART NO | DESCRIPTION | QT |
|------|-----------------|--------------------------------|----|
| 1 | FB26-006 | BEARING BLOCK, SHORT | 1 |
| 2 | FB50-054 | 1 1/16" SET COLLAR | 2 |
| 3 | FE24-011 | JACK SHAFT EXSTENION CONNECTOR | 1 |
| 4 | FE26-002 | JACK SHAFT EXTENSION | 1 |
| 5 | FE27-030 | BEARING BOLT PLATE | 1 |
| 6 | FE50-007 | U-BOLT, 3/8 x 2W x 3 LG | 2 |
| 7 | FE80-001 | GROUND DRIVE TOOLBAR | 1 |
| 8 | HW01010024G5ZPC | 5/16 x 3/4 HEX CAPSCREW | 2 |
| 9 | HW01010080G5ZPC | 5/16 X 2 1/2 HHCS GD 5 | 2 |
| 10 | HW20012G5ZPC | 3/8 HEX NUT | 4 |
| 11 | HW24010GBZPC | 5/16 STOVER LOCK NUT | 2 |
| 12 | HW30012TAZP | 3/8 FLATWASHER | 4 |
| 13 | HW32012G5ZP | 3/8 LOCK WASHER | 4 |



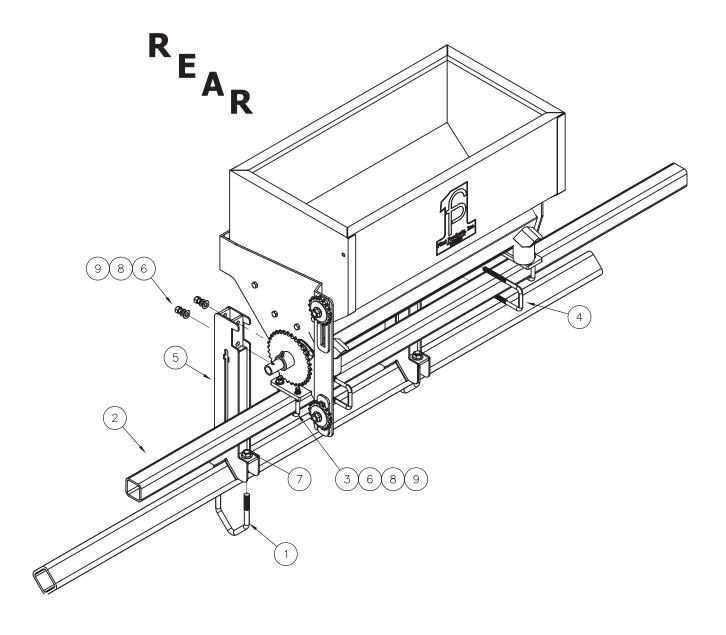
250# FE PARTS LIST PITTSBURGH FRAME

| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|-------------------------------|-----|
| 1 | FE23-001 | PITTSBURG MOUNT, ECON, FRONT | 2 |
| 2 | FE23-002 | PTTSBURGH MOUNT, ECON, REAR | 2 |
| 3 | FE24-010 | 250# BOX MOUNT TOOLBAR | 1 |
| 4 | FE50-007 | U-BOLT 3/8 X 2W x 3 LG | 2 |
| 5 | FE50-008 | U-BOLT 3/8 x 2W x 4-5/8 LG | 2 |
| 6 | FE80-015 | 2-1/2 DIAMOND RISER | 2 |
| 7 | HW01012080G5ZPC | 3/8 X 2 1/2 HEX CAPSCREW GD 5 | 2 |
| 8 | HW01014040G2ZPC | 7/16 X 1 1/4 HEX CAPSCREW | 8 |
| 9 | HW20014G5ZPC | 7/16 HEX NUT | 8 |
| 10 | HW20012G5ZPC | 3/8 HEX NUT | 10 |
| 11 | HW31012TAZP | 3/8 FLATWASHER SAE | 10 |
| 12 | HW32014G5ZP | 7/16 LOCKWASHER | 8 |
| 13 | HW32014G5ZP | 3/8 LOCKWASHER | 10 |

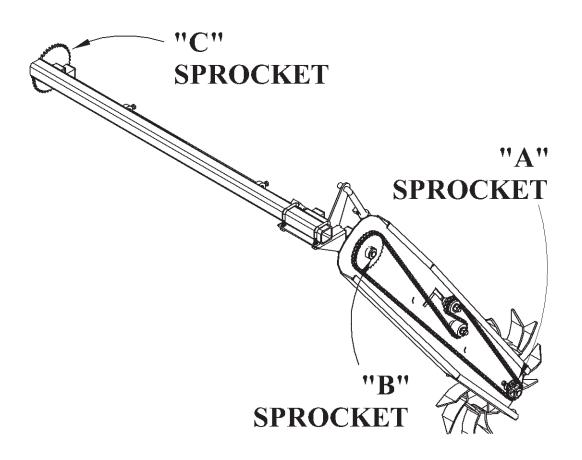


250# FE PARTS LIST $2\,\frac{1}{2}\,DIAMOND\,TOOLBAR$

| ITEM | PART NO | DESCRIPTION | QTY |
|------|--------------|----------------------------|-----|
| 1 | FA50-038 | 1/2 X 3 3/4 X 5 1/8 V BOLT | 2 |
| 2 | FE24-010 | 250# BOX MOUNT TOOLBAR | 1 |
| 3 | FE50-007 | U-BOLT 3/8 X 2W x 3 LG | 2 |
| 4 | FE50-008 | U-BOLT 3/8 x 2W x 4-5/8 LG | 2 |
| 5 | FE80-015 | 2-1/2 DIAMOND RISER | 2 |
| 6 | HW20012G5ZPC | 3/8 HEX NUT | 8 |
| 7 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 4 |
| 8 | HW31012TAZP | 3/8 FLATWASHER SAE | 8 |
| 9 | HW32012G5ZP | 3/8 LOCKWASHER | 8 |



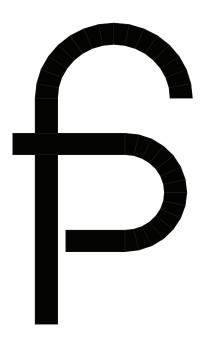
250 # FERTILIZER BOX RATE CHART



| | Row Spacing | | | | | | | | SPR | COCK | ETS |
|----------------|-------------|-----|-----|-----|-----|-------|-----|-----|-----|------|-----|
| | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | A | В | С |
| | 67 | 63 | 60 | 5 | 53 | 51 | 46 | 42 | 14 | 40 | 17 |
| | 95 | 89 | 83 | 80 | 75 | (tri) | 65 | 60 | 14 | 40 | 24 |
| \mathbf{P}_0 | 125 | 118 | 112 | 105 | 100 | 95 | 86 | 79 | 14 | 40 | 32 |
| Pounds | 150 | 144 | 135 | 130 | 121 | 115 | 104 | 96 | 17 | 40 | 32 |
| ls per | 200 | 186 | 175 | 170 | 157 | 149 | 135 | 124 | 14 | 32 | 40 |
| | 260 | 243 | 229 | 220 | 205 | 195 | 177 | 162 | 14 | 24 | 40 |
| Acre | 370 | 345 | 324 | 305 | 290 | 275 | 250 | 229 | 14 | 17 | 40 |
| | 500 | 465 | 437 | 405 | 391 | 371 | 338 | 309 | 24 | 17 | 32 |
| | 600 | 562 | 529 | 505 | 473 | 450 | 409 | 375 | 24 | 14 | 32 |

CHART IS BASED ON GRANULAR MATERIAL WEIGHING 70 POUNDS PER CUBIC FOOT. RATES MAY VARY BASED ON ACTUAL FERTILIZER WEIGHTS AND DENSITIES

MOUNTING INSTRUCTIONS



FERTILIZER BOX MODEL FE

Serial Number 1001 - ____

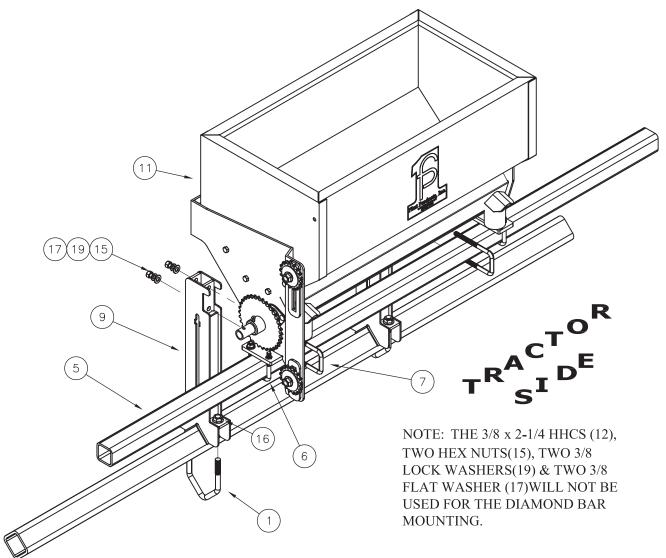
FIRST PRODUCTS INC.

164 Oakridge Church Road Tifton, Georgia 31794 U.S.A. Phone 800-363-8780 Georgia (229) 382-4768 Fax (229) 382-0506

250# FE MOUNTING INSTRUCTIONS INVENTORY CHECK LIST

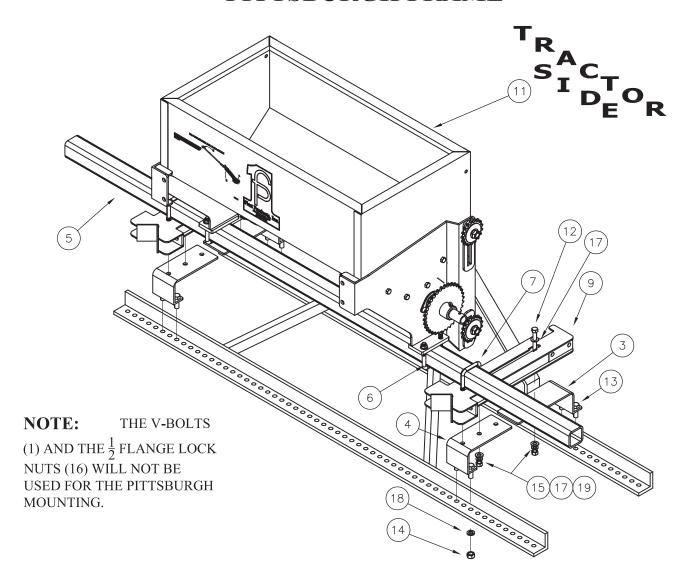
| ITEM | PART NO | DESCRIPTION | QTY |
|------------|-----------------|-------------------------------|-----|
| 1 | FA50-038 | 1/2 X 3 3/4 X 5 1/8 V BOLT | 2 |
| 2 | FA82-013 | HOSE BUNDLE (PAIR) | 1 |
| 3 FE23-001 | | PITTSBURG MOUNT, ECON, FRONT | 2 |
| 4 | FE23-002 | PTTSBURGH MOUNT, ECON, REAR | 2 |
| 5 | FE24-010 | 250# BOX MOUNT TOOLBAR | 1 |
| 6 | FE50-007 | U-BOLT 3/8 X 2W x 3 L | 2 |
| 7 | FE50-008 | U-BOLT 3/8 x 2W x 4-5/8 L | 2 |
| 8 | FE80-001 | GROUND DRIVE TOOLBAR | 1 |
| 9 | FE80-015 | 2-1/2 DIAMOND RISER | 2 |
| 10 | FE81-001 | GROUND DRIVE ASSM. | 1 |
| 11 | FE81-002 | 250# BOX ASSEMBLY | 1 |
| 12 | HW01012080G5ZPC | 3/8 X 2 1/2 HEX CAPSCREW GD 5 | 2 |
| 13 | HW01014040G2ZPC | 7/16 X 1 1/4 HEX CAPSCREW | 8 |
| 14 | HW20014G5ZPC | 7/16 HEX NUT | 8 |
| 15 | HW20012G5ZPC | 3/8 HEX NUT | 10 |
| 16 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 4 |
| 17 | HW31012TAZP | 3/8 FLATWASHER SAE | 6 |
| 18 | HW32014G5ZP | 7/16 LOCKWASHER | 8 |
| 19 | HW32012G5ZP | 3/8 LOCKWASHER | 10 |
| 20 | | JACK SHAFT EXTENSION ASSEMBLY | 1 |

250# FE MOUNTING INSTRUCTIONS $2\frac{1}{2}$ DIAMOND TOOLBAR



- 1) LOCATE & FASTEN THE TWO $2\frac{1}{2}$ DIAMOND RISER (9) TO TOOLBAR WITH THE V-BOLTS (1) AND $\frac{1}{2}$ FLANGE LOCK NUTS (16). THE RISERS CAN BE LOCATED IN VARIOUS LOCATIONS TO CLEAR EXISTING PIECES ON THE TOOLBAR. THEY ARE SHOWN BEING MOUNTED UNDERNEATH BOX.
- 2) POSTION AND CENTER THE 250# BOX MOUNT TOOLBAR (5) INTO 2 $\frac{1}{2}$ DIAMOND RISERS USING THE 4 $\frac{5}{8}$ LONG U BOLTS (7) AND $\frac{3}{8}$ HEX NUTS (15), $\frac{3}{8}$ FLAT WASHERS (17) AND $\frac{3}{8}$ LOCK WASHERS (19).
- 3) MOUNT AND CENTER THE 250# BOX ASSEMBLY(11) ONTO THE 250# BOX MOUNT TOOLBAR (5). SECURE WITH $\frac{3}{8}$ x 2 W x 3 L U-BOLTS (6) AND $\frac{3}{8}$ HEX NUTS (15), $\frac{3}{8}$ FLAT WASHERS (17) AND $\frac{3}{8}$ LOCK WASHERS (19).

250# FE MOUNTING INSTRUCTIONS PITTSBURGH FRAME



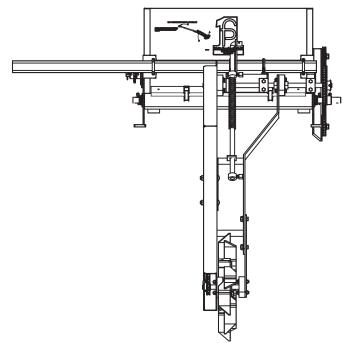
- 1) LOCATE & FASTEN THE FRONT (3) & REAR (4) PITTSBURGH MOUNTS TO FRAME WITH $\frac{7}{16}$ x 1 $\frac{1}{4}$ HEX CAPSCREW(13), $\frac{7}{16}$ LOCK WASHER (18), AND $\frac{7}{16}$ HEX NUT (14). THE MOUNTS CAN BE LOCATED IN VARIOUS LOCATIONS TO CLEAR EXISTING PIECES ON FRAME.
- POSITION 2-1/2 DIAMOND RISER (9) ON PITTSBURGH MOUNTS AS SHOWN. INSERT THE $\frac{3}{8}$ x 2 $\frac{1}{4}$ HEX CAPSCREW (12) AND $\frac{3}{8}$ FLAT WASHER (17) THRU THE 2-1/2 DIAMOND RISER AND FRONT PITTSBURGH MOUNT AND SECURE WITH $\frac{3}{8}$ HEX NUT (15), $\frac{3}{8}$ FLAT WASHER (17), & $\frac{3}{8}$ LOCK WASHER (19). (DO NOT TIGHTEN). PLACE AND CENTER THE 250# BOX MOUNT TOOLBAR (5) ONTO RISER SECURING WITH THE $\frac{3}{8}$ x 2 W x 4 $\frac{5}{8}$ L U-BOLTS (7) AND $\frac{3}{8}$ HEX NUT (15), $\frac{3}{8}$ FLAT WASHER (17), & $\frac{3}{8}$ LOCK WASHER (19). TIGTHEN HARDWARE.
- 3) MOUNT AND CENTER THE 250# BOX ASSEMBLY(11) ONTO THE 250# BOX MOUNT TOOLBAR (5). SECURE WITH $\frac{3}{8}$ x 2 W x 3 L U-BOLTS (6) AND $\frac{3}{8}$ HEX NUT (15), $\frac{3}{8}$ FLAT WASHER (17), & $\frac{3}{8}$ LOCK WASHER (19).

250# FE MOUNTING INSTRUCTIONS GROUND DRIVE

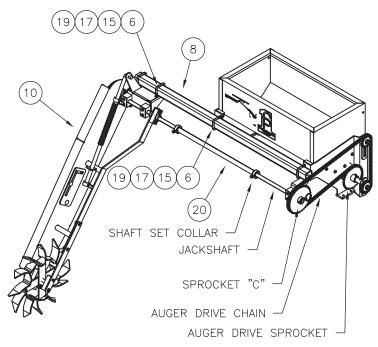
OFFSET DRIVE MOUNT

THE GROUND DRIVE TOOLBAR IS MADE TO ENABLE THE DRIVE TO BE MOUNTED IN THE CENTER OF BOX OR 24" TO 36" FROM THE CENTER OF BOX.



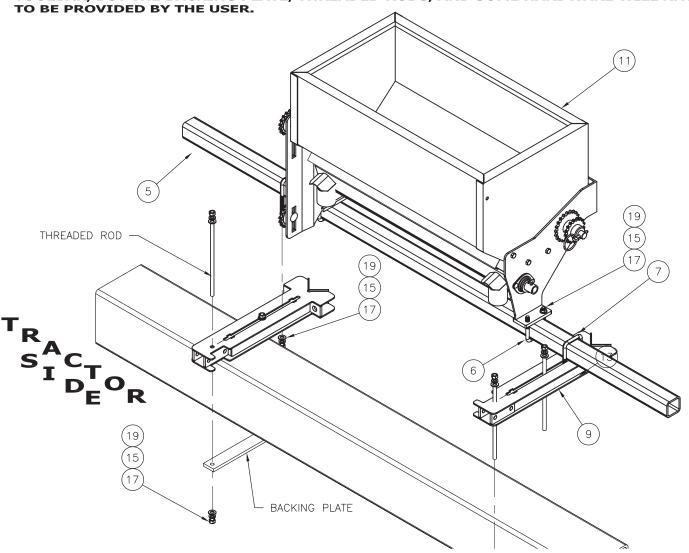


- 1) SELECT LOCATION OF WHEEL. IF DRIVE WHEEL IS MOUNTED IN THE CENTER, THE JACK SHAFT EXTENSION ASSEMBLY (20) WILL NOT BE REQUIRED.
- 2) MOUNT GROUND DRIVE TOOLBAR (8) TO BACK OF BOX WITH U-BOLTS (6) AND $\frac{3}{8}$ HEX NUTS (15), $\frac{3}{8}$ FLAT WASHERS (17), AND $\frac{3}{8}$ LOCKWASHER (19).
- 3) MOUNT GROUND DRIVE ASSEMBLY IN DESIRED LOCATION USING U-BOLTS (6) AND $\frac{3}{8}$ HEX NUTS (15), $\frac{3}{8}$ FLAT WASHERS (17), AND $\frac{3}{8}$ LOCKWASHER (19). LEAVE U-BOLTS LOOSE IF MOUNTING DRIVE WHEEL IN THE CENTER. THIS ALLOWS SPROCKET "C" TO BE ALIGNED WITH AUGER DRIVE SPROCKET. THERE ARE SLOTS IN THE GROUND DRIVE MOUNT ASSEMBLY TO ALIGN SHAFT IN BEARING ON THE GROUND DRIVE TOOLBAR.
- 4) INSTALL DESIRED SPROCKET ON JACKSHAFT, ALIGN SPROCKET "C" WITH AUGER DRIVE SPROCKET. THIGHTEN U-BOLTS LEFT LOOSE IN PREVIOUS STEP IF MOUNTING DRIVE IN CENTER. IF MOUNTING OFFSET, THE SPROCKETS CAN BE ALIGNED WITH THE JACK SHAFT EXTENSION ASSEMBLY (20) BY LOOSENING THE SHAFT SET COLLAR. INSTALL AUGER DRIVE CHAIN AS SHOWN.



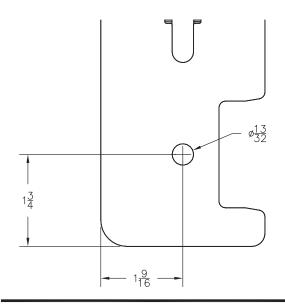
250# FE MOUNTING INSTRUCTIONS FLAT TOOLBAR, 4x4, 5x5, AND 7x7

NOTE: KIT NOT DESIGNED FOR FLAT TOOLBAR MOUNTING. IT CAN BE MOUNTED ON A TOOLBAR, BUT THE BACKING PLATE, THREADED RODS, AND SOME HARDWARE WILL HAVE TO BE DROVIDED BY THE USER.



- 1) THE ILLUSTRATION SHOWN IS FOR MOUNTING THE 250# BOX ON A 7 x 7 TOOLBAR. A HOLE MAY HAVE TO BE PLACED IN DIAMOND RISER (9) FOR MOUNTING; SEE NEXT PAGE FOR DRILLING INSTRUCTIONS. IF MOUNTING ON A 4 x4 OR 5x5 TOOLBAR, EXISTING SLOTTED PORTION OF DIAMOND RISER CAN BE USED. REFER TO THE NEXT PAGE FOR ALL NECESSARY INFORMATION.
- 2) POSITION 2-1/2 DIAMOND RISER (9) ON TOOLBAR AS SHOWN. INSERT THE THREADED ROD, 3/8 HEX NUT (15), 3/8 LOCK WASHER (19), AND 3/8 FLAT WASHER (17) THRU THE 2-1/2 DIAMOND RISER AND BACKING PLATE AND SECURE WITH 3/8 HEX NUT (15), 3/8 FLAT WASHER (17), & 3/8 LOCK WASHER (19). PLACE AND CENTER THE 250# BOX MOUNT TOOLBAR (5) ONTO RISER SECURING WITH THE 3/8 x 2 W x 4 5/8 L U-BOLTS (7) AND 3/8 HEX NUT (15), 3/8 FLAT WASHER (17), & 3/8 LOCK WASHER (19). TIGHTEN HARDWARE.
- 3) MOUNT AND CENTER THE 250# BOX ASSEMBLY (11) ONTO THE 250# BOX MOUNT TOOLBAR (5). SECURE WITH 3/8 x 2 W x 3 L U-BOLTS (6) AND 3/8 HEX NUT (15), 3/8 FLAT WASHER (17), & 3/8 LOCK WASHER (19).

250# FE MOUNTING INSTRUCTIONS FLAT TOOLBAR, 4x4, 5x5, AND 7x7



IF MOUNTING ON 7x7 BAR, DIAMOND RISER MAY REQUIRE THE EXTRA HOLE, PLACE HOLE AS SHOWN

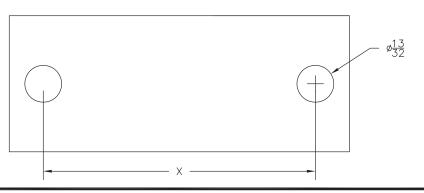
ADDITIONAL HARDWARE REQUIRED:

- (4) $\frac{3}{8}$ HEX NUTS
- (4) $\frac{3}{8}$ LOCK WASHERS
- (4) $\frac{3}{8}$ FLAT WASHERS

BACKING PLATE HOLE SPACING

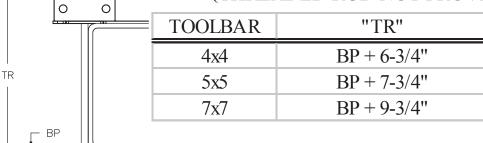
(BACKING PLATE NOT PROVIDED)

| TOOLBAR | "X" |
|---------|--------|
| 4x4 | 4-7/16 |
| 5x5 | 5-7/16 |
| 7x7 | 7-7/16 |



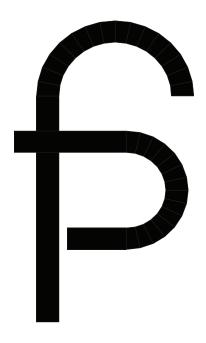
THREADED ROD LENGTHS

(THREADED ROD NOT PROVIDED)



"BP" IS BACKING PLATE THICKNESS

PARTS LIST



FERTILIZER BOX MODEL FA

Serial Number 2395 - ____

FIRST PRODUCTS INC.

164 Oakridge Church Road Tifton, Georgia 31794 U.S.A. Phone 800-363-8780 Georgia (229) 382-4768 Fax (229) 382-0506

Printed in U.S.A. PBREV0912

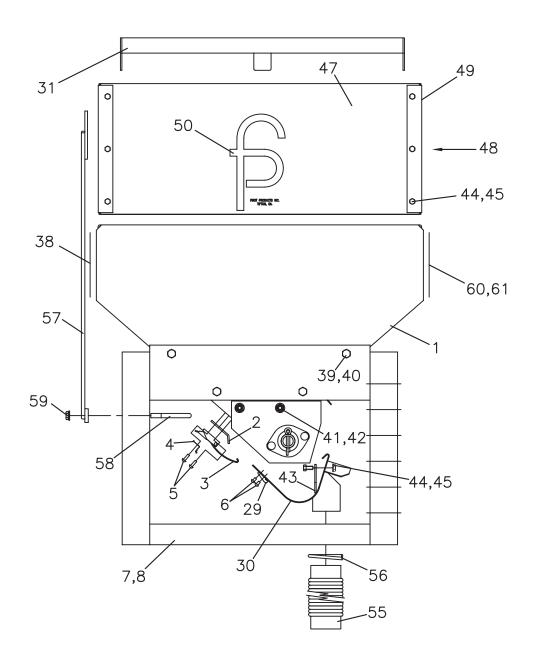
Fertilizer Box

(Legend For Pages 1-4)

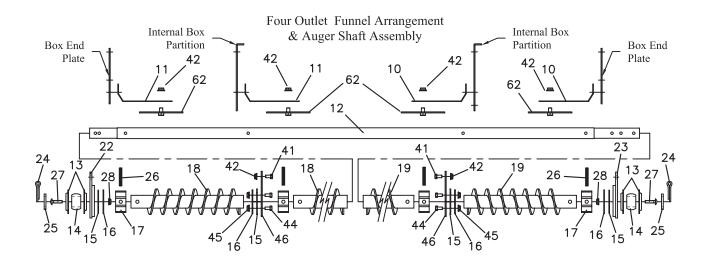
| No. | Order | Description | No. | Order | Description |
|-----|-----------------|--|-----|-----------------|---------------------------------------|
| | No. | • | | No. | • |
| 1 | FA80-015 | 500 lbs. Box | 34 | FA27-032 | Tube Stabilizer |
| 2 | FA27-015 | Trough Lock Lip | 35 | | |
| 3 | FA50-018 | Draw Latch | 36 | | |
| 4 | FA50-019 | Latch Lock | 37 | | |
| 5 | HW41005012SS | 5/32" Stainless Rivet (1/4"-3/8" Grip) | 38 | FA50-049 | First Products Decal |
| 6 | HW41005008SS | 5/32" Stainless Rivet (1/8"-1/4" Grip) | 39 | HW01012032SSPLC | 3/8" x 1" Hex Capscrew Stainless |
| 7 | FA80-017 | Left Box End Frame | 40 | HW22012SSPLC | 3/8" Flange Lock Nut Stainless |
| 8 | FA80-016 | Right Box End Frame | 41 | HW01010024SSPLC | 5/16" x 3/4" Hex Capscrew Stainless |
| 9 | FB50-077 | 11/32" Hole Plug | 42 | HW22010SSPLC | 5/16" Flange Lock Nut Stainless |
| 10 | FA27-046 | Funnel Top, Right | 43 | FA27-016 | Outlet Plug |
| 11 | FA27-047 | Funnel Top, Left | 44 | HW01008016SSPLC | 1/4" x 1/2" Hex Capscrew Stainless |
| 12 | FA24-006 | Auger Shaft | 45 | HW22008SSPLC | 1/4" Flange Lock Nut Stainless |
| 13 | FB50-034 | 40 MST Stamping | 46 | FA27-003 | Bulk Head |
| 14 | FB50-014 | Auger Shaft Bearing | 47 | FA27-023 | Extension End Panel |
| 15 | FB50-035 | Auger Bearing Seal | 48 | FA80-021 | Extension Front and Rear Panel |
| 16 | FB27-009 | Seal Plate | 49 | FA80-020 | Extension Corner |
| 17 | FA50-017 | Feed Wheel | 50 | FB50-068 | First Products Logo Decal |
| 18 | FA80-013 | 11" Left Hand Auger | 51 | FA80-026 | Female Box Connector |
| 19 | FA80-014 | 11" Right Hand Auger | 52 | FA80-027 | Male Box Connector |
| 20 | FA80-011 | 11 3/4" Left Hand Auger | 53 | FB50-054 | 1 1/16" Set Collar |
| 21 | FA80-012 | 11 3/4" Right Hand Auger | 54 | HW40008064SS | 1/4" x 2" Cotter Pin |
| 22 | FA80-009 | Left Hand Auger End Cap | 55 | FB50-019 | Fertilizer Hose (2" Outlet Both Ends) |
| 23 | FA80-010 | Right Hand Auger End Cap | 56 | FB50-028 | 2 1/4" Hose Clamp |
| 24 | HW40008048ZP | 1/4" x 1 1/2" Cotter Pin | 57 | FA80-044 | S.M.V. Replacement Bracket |
| 25 | HW6003204810GPL | 1" x 1 1/2" x 10 GA Bushing | 58 | FA50-051 | S.M.V. "U" Bolt |
| 26 | HW42008056SS | 1/4" x 1 3/4" Roll Pin Stainless | 59 | HW22010G5ZPC | 5/16" Flange Lock Nut |
| 27 | HW03008032SSPLC | 1/4" x 1" Carriage Bolt Stainless | 60 | FA50-046 | Ground Drive Rate Chart |
| 28 | HW22008SSPLC | 1/4" Flange Lock Nut Stainless | 61 | FA50-039 | Hydraulic Drive Calibration Instr. |
| 29 | FA50-020 | Keeper | 62 | FA80-058 | Funnel Adjustment Plate |
| 30 | FA80-018 | Auger Trough | 63 | HW01010016SSPLC | 5/16" x 1/2" Hex Cap Screw, Stainless |
| 31 | FA81-014 | Filter Screen | 64 | FA80-077 | 750# Extension Bridge |
| 32 | | | 65 | FA80-065 | 750# Box Extensions, 36-38" Rows |
| 33 | FB50-092 | Serial Number Tag | 66 | FA80-062 | 750# Box Extensions, 44-48" Rows |

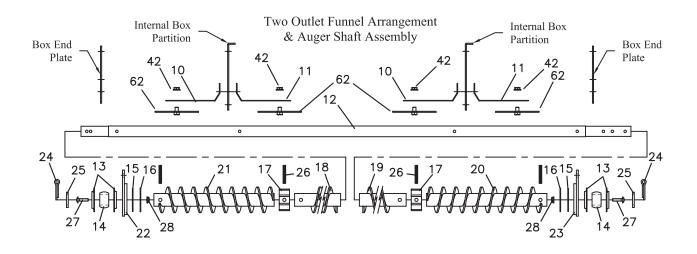
*NOTE: ITEMS 20 IS FOR

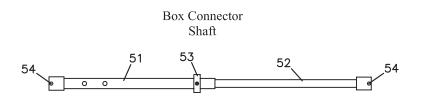
Fertilizer
Box
(Left End View)



Fertilizer Box

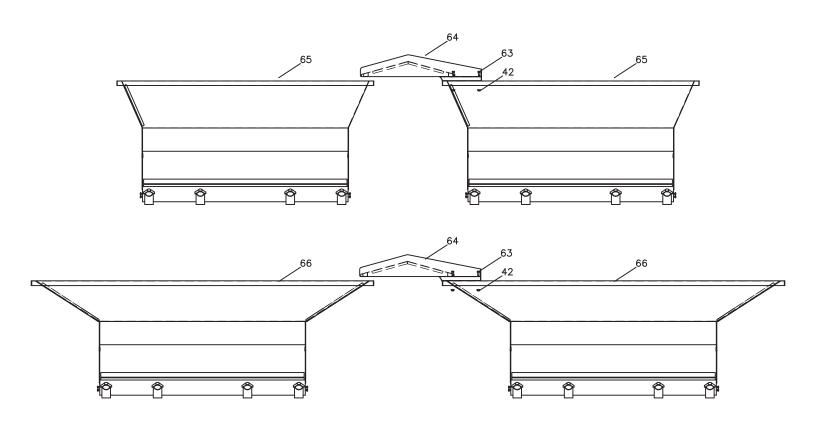






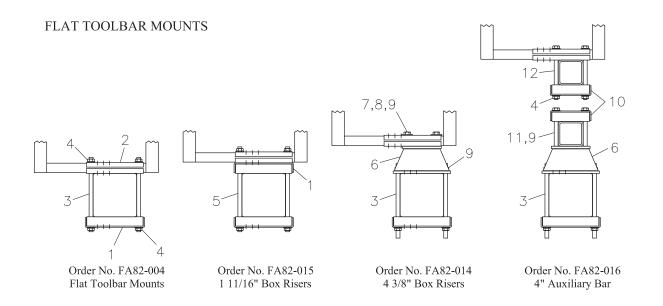
Fertilizer Box

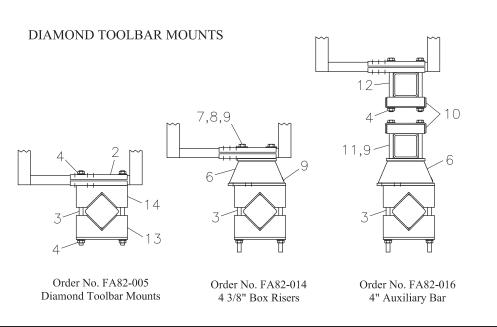
750# Extensions With Bridge



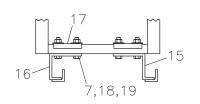
Box Mounts

| em | Order | Description | Item | Order | Description |
|-----|-----------------|--------------------------------|------|-----------------|--------------------------|
| √o. | No. | | No. | No. | |
| 1 | FA80-006 | 5/8" Flat Toolbar Clamp | 11 | HW01020224G5ZPC | 5/8" x 7" Hex Capscrew |
| 2 | FA27-001 | Toolbar To Box Keeper | 12 | HW01020256G5ZPC | 5/8" x 8" Hex Capscrew |
| 3 | FA50-011 | Toolbar To Box Threaded Rod-12 | 13 | FA80-007 | Diamond Clamp |
| 4 | HW22020G5ZPC | 5/8" Flange Lock Nut | 14 | FA80-008 | Diamond Bracket |
| 5 | FA50-050 | Toolbar To Box Threaded Rod-14 | 15 | FA23-007 | Front Pittsburgh Mount |
| 6 | FA80-042 | 4 3/8" Box Riser | 16 | FA23-008 | Rear Pittsburgh Mount |
| 7 | HW01020096G5ZPC | 5/8" x 3" Hex Capscrew | 17 | FA27-002 | Pittsburgh To Box Keeper |
| 8 | HW30020TAZPC | 5/8" Flat Washer | 18 | HW32020G5ZPC | 5/8" Lock Washer |
| 9 | HW21020G5ZPC | 5/8" Square Nut | 19 | HW20020G5ZPC | 5/8" Hex Nut |
| 10 | FA80-043 | 4" Flat Toolbar Clamp-5/8 | | | |





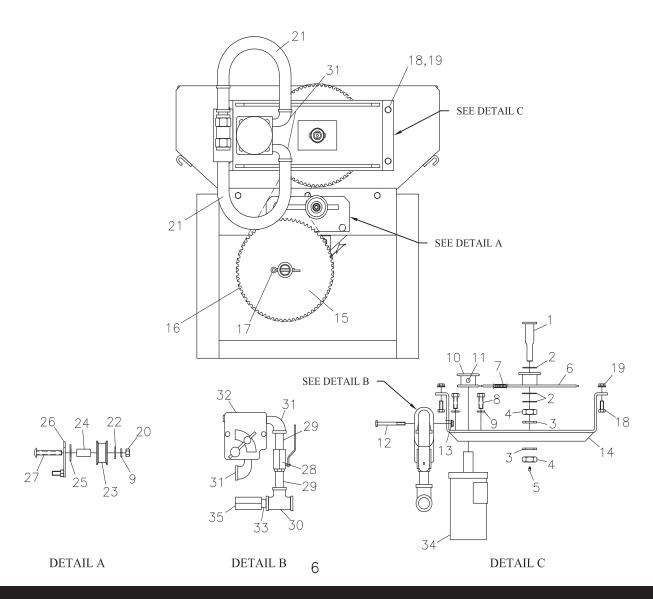
PITTSBURGH FRAME MOUNTS



Order No. FA82-006 Pittsburgh Frame Mounts

Hydraulic Drive

| Item | Order | Description | Item | Order | Description |
|------|-----------------|---|------|------------------|----------------------------------|
| No. | No. | | No. | No. | |
| 1 | FB80-048 | Hydraulic Drive Jackshaft | 19 | HW22010SSPLC | 5/16" Stainless Flange Lock Nut |
| 2 | FB50-015 | 3/4" Acetal Washer | 20 | HW20012G5ZPC | 3/8" Hex Nut |
| 3 | HW 6002404010GP | 3/4" x 1 1/4" x 10 GA. Machinery Bushing | 21 | FB50-071 | 18" Hydraulic Drive Hose |
| 4 | HW25024G5ZPC | 3/4" Jam Nut | 22 | HW30012TAZP | 3/8" Flat Washer |
| 5 | HW 50008THD.F | 1/4"-28 Grease Fitting | 23 | FB50-020 | Chain Idler |
| 6 | FB81-031 | 72T-15T #35 Sprocket With Bushing | 24 | FB24-012 | Idler Bushing |
| 7 | FB50-066 | #35 x 80 Pitch Chain | 25 | HW31016TAZP | 1/2" S.A.E. Flat Washer |
| 8 | HW01012032G5ZP | 3/8" x 1" Hex Capscrew | 26 | FA80-025 | 98 Hydraulic Drive Idler Bracket |
| 9 | HW3.0012G5ZP | 3/8" Lock Washer | 27 | HW 03012072SSPLC | 3/8" x 2 1/4" Carriage Bolt |
| 10 | FB80-047 | 15T-15T Sprocket | 28 | FB50-072 | 1/2" Ball Valve |
| 11 | HW42010040ZP | 5/16" x 1 1/4" Roll Pin | 29 | FB50-073 | 1/2" x 2 1/2" Nipple |
| 12 | HW01008080G5ZP | 1/4" x 2 1/2" Hex Capscrew G5 | 30 | FB50-074 | 1/2" Tee |
| 13 | HW 22008ZPC | 1/4" Flange Lock Nut | 31 | FB50-075 | 1/2" Street Elbow |
| 14 | FB80-065 | Hydraulic Drive Motor Support | 32 | FB50-062 | Flow Control Valve |
| 15 | FB80-055 | Auger Sprocket 35B72 | 33 | FB50-076 | 1/2" x 1 1/2" Nipple |
| 16 | FB50-082 | #35 x 112 Pitch Chain | 34 | FB50-061 | Hydraulic Motor |
| 17 | HW40008048BR | 1/4" x 1 1/2" Brass Cotter Pin | 35 | FB50-094 | Check Valve |
| 18 | HW01010024SSPL | 5/16" x 3/4" Stainless Steel Hex Capscrew | | | |



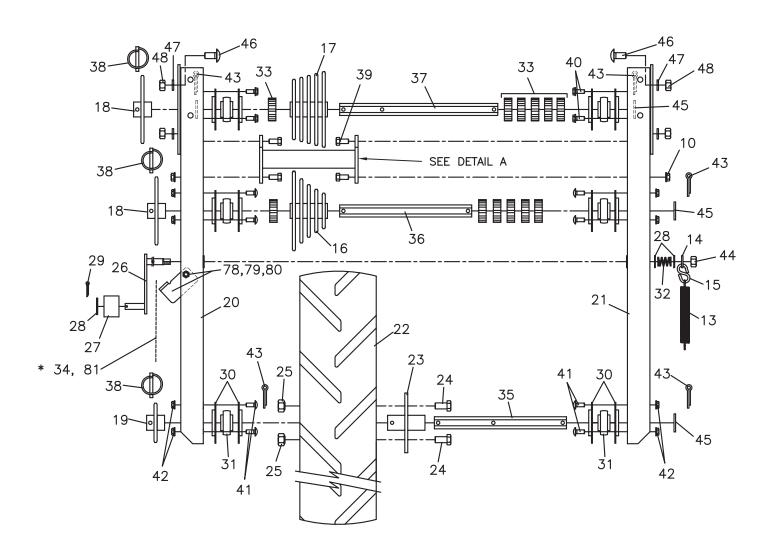
Ground Drive

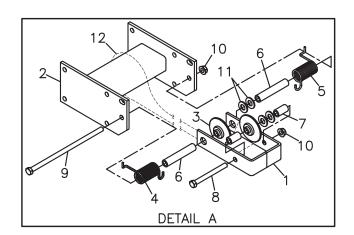
(Legend For Pages 7-9)

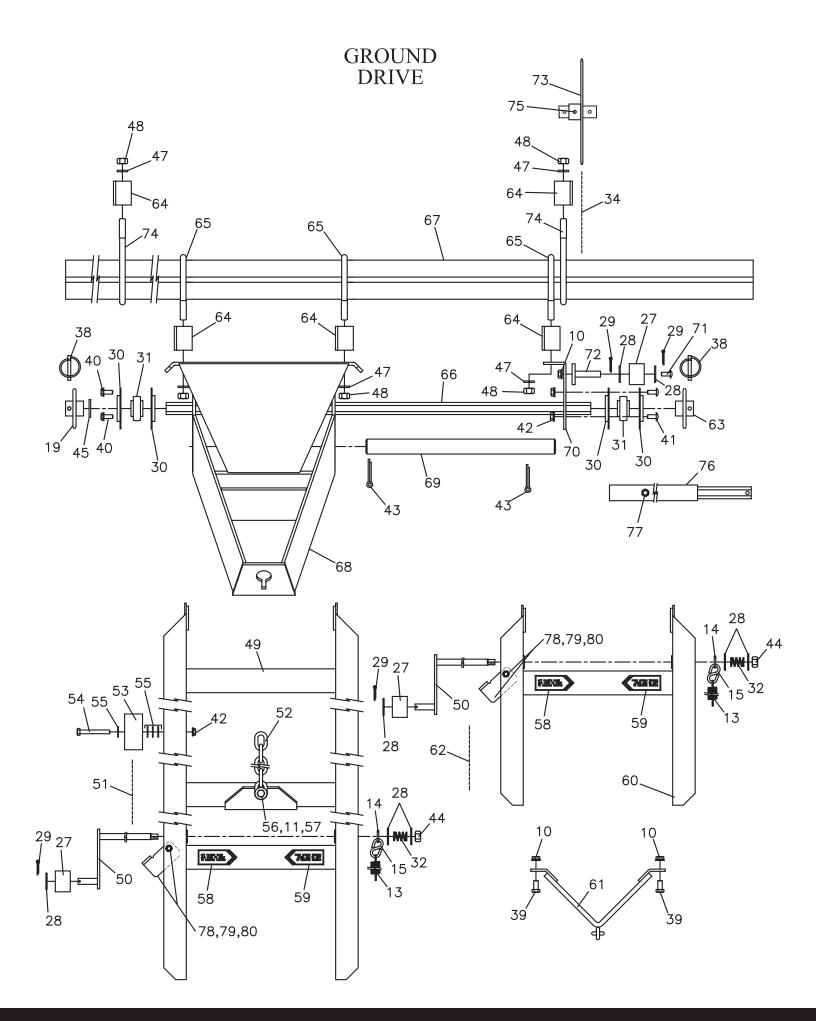
| No. | Order | Description | No. | Order | Description |
|------|-----------------|--------------------------------------|------|-----------------|--------------------------------------|
| 110. | No. | Description | 110. | No. | Description |
| 1 | FA80-028 | Idler Bracket | 41 | HW03010024G5ZPC | 5/16" x 3/4" Carriage Bolt |
| 2 | FA80-029 | Vertical Frame Brace | 42 | HW22010G5ZPC | 5/16" Flange Lock Nut |
| 3 | FA50-026 | #40-14T Idler | 43 | HW40008048ZP | 1/4" x 1 1/2 Cotter Pin |
| 4 | FA50-027 | Left Torsion Spring | 44 | HW24016GBZPC | 1/2" Stover Lock Nut |
| 5 | FA50-028 | Right Torsion Spring | 45 | HW6003204810GPL | 1" ID x 1 1/2" OD x 10GA Mach. Bush. |
| 6 | FA24-013 | Idler Spacer Long | 46 | HW03016032G5ZPC | 1/2" x 1" Carriage Bolt |
| 7 | FA24-014 | Idler Spacer Short | 47 | HW32016G5ZPC | 1/2" Lock Washer |
| 8 | HW01012128G5ZPC | 3/8" x 4" Hex Bolt | 48 | HW20016G5ZPC | 1/2" Hex Nut |
| 9 | HW01012288G5ZPC | 3/8" x 9" Hex Bolt | 49 | FA80-041 | Horizontal Frame |
| 10 | HW22012G5ZPC | 3/8" Flange Lock Nut | 50 | FA80-033 | Reach Idler Support |
| 11 | HW30012TAZP | 3/8" Flat Washer | 51 | FA50-043 | 48/ #40 x 232 Pitch Chain |
| 12 | FA50-034 | #40 x 84 Pitch Chain | 52 | FA50-044 | 48/ Hanger Chain |
| 13 | FA50-029 | Idler Tension Spring | 53 | FA26-013 | Chain Glide |
| 14 | FA23-016 | Spring Arm | 54 | HW01010080G5ZPC | 5/16" x 2 1/2" Hex Capscrew |
| 15 | AE50-105 | Hanger "S" Hook | 55 | HW30010TAZP | 5/16" Flat Washer |
| 16 | FA80-002 | #40 Driver Cluster | 56 | HW01012032G5ZPC | 3/8" x 1" Hex Capscrew |
| 17 | FA80-003 | #40 Driven Cluster | 57 | HW24012GBZPC | 3/8" Stover Lock Nut |
| 18 | FA80-004 | #40 34T Sprocket | 58 | FA50-047 | Left Idler Control Decal |
| 19 | FA80-005 | #40 19T Sprocket | 59 | FA50-048 | Right Idler Control Decal |
| 20 | FA80-030 | Left Vertical Frame, OAL: 31-1/2" | 60 | FA80-039 | Short Horizontal Frame |
| | FA80-082 | Vertical Frame-2010-LT, OAL: 36-1/2" | 61 | FA80-040 | Chain Bracket |
| 21 | FA80-031 | Right Vertical Frame, , OAL: 31-1/2" | 62 | FA50-042 | 12/ #40 x 90 Pitch Chain |
| | FA80-083 | Vertical Frame-2010-RT, OAL: 36-1/2" | 63 | FA80-022 | #40 x 22T Sprocket |
| 22 | FB50-086 | Rubber Ground Drive Tire | 64 | FA80-038 | 2 1/2" Diamond Bracket |
| 23 | FA80-024 | Wheel Hub | 65 | FA50-038 | 1/2" x 3 3/4" x 5 1/8" "V" Bolt |
| 24 | HW01016032G5ZPF | 1/2" x 1" NF Hex Capscrew | 66 | FA26-011 | Jack Shaft |
| 25 | HW26016G5ZPF | 1/2" NF Lug Nut | 67 | FA24-016 | Ground Drive Bar |
| 26 | FA80-032 | Wheel Transmission Idler Support | 68 | FA80-034 | Ground Drive Mounting Bracket |
| 27 | FA50-030 | Chain Idler | 69 | FA24-015 | Swivel Pin |
| 28 | HW31016TAZPC | 1/2" SAE Flat Washer | 70 | FA23-027 | Bearing Support |
| 29 | HW40004032ZP | 1/8" x 1" Cotter Pin | 71 | HW03012024G5ZPC | 3/8" x 3/4" Carriage Bolt |
| 30 | AE50-013 | 52MM x 3 Hole Flange | 72 | FA80-037 | Idler Slide Arm |
| 31 | FA50-031 | 7/8" Hex Bearing | 73 | FA80-023 | #40 x 37T Auger Sprocket |
| 32 | FA50-032 | Idler Lock Spring | 74 | FA50-040 | 1/2" x 3 3/4" x 6 7/8" "V" Bolt |
| 33 | FA50-033 | Sprocket Spacer | 75 | HW40008048BR | 1/4" x 1 1/2" Brass Cotter Pin |
| 34 | FA50-035 | #40 x 98 Pitch Chain | 76 | FA80-001 | Jack Shaft Extension |
| 35 | FA26-007 | Wheel Shaft | 77 | HW07012024PLC | 3/8" x 3/4" Square Head Setscrew |
| 36 | FA26-008 | Transmission Input Shaft | 78 | HW24010GBZPC | 5/16 Stover Lock Nut |
| 37 | FA26-009 | Transmission Output Shaft | 79 | HW01010024G5ZPC | 5/16 x 3/4 Hex Head Cap Screw |
| 38 | AE50-149 | 1/4" Lynch Pin | 80 | FA27-109 | Idler Stop |
| 39 | HW01012024G5ZPC | 3/8" x 3/4" Hex Capscrew | 81 | FA50-089 | #40 X 118P CHAIN |
| 40 | HW06010024G5ZPC | 5/16" x 3/4" Flange Locking Screw | | | |

NOTE: ITEM "34" IS USED WITH VERTICAL FRAME OF 31-1/2 OAL, & ITEM "81" IS USED WITH VERTICAL FRAME OF 36-1/2 OAL.

GROUND DRIVE

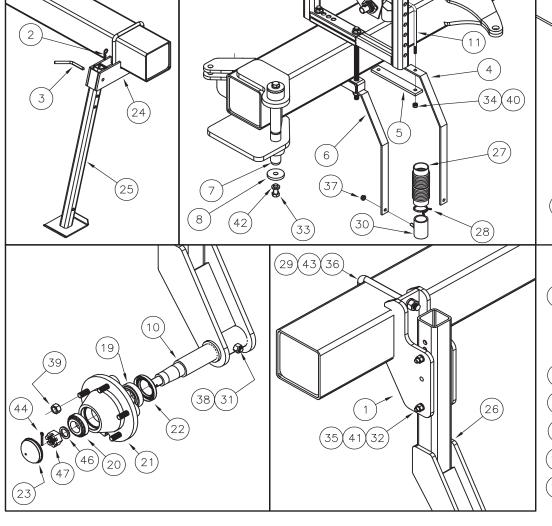






TOOLBAR COMPONENTS

| ITEM | PART NO | DESCRIPTION | ITEM | PART NO | DESCRIPTION |
|------|-----------|----------------------------|------|-----------------|--------------------------------|
| 1 | 85-054-27 | GAUGE WHEEL MOUNT | 25 | FA80-054 | JACK STAND |
| 2 | AE50-156 | BRIDGE PIN | 26 | FA80-055 | GAUGE WHEEEL POST |
| 3 | AG26-003 | STAND PIN | 27 | FB50-019 | FERT. HOSE 2" OUTLET BOTH ENDS |
| 4 | FA23-052 | HOSE BRACKET | 28 | FB50-028 | 2 1/4" HOSE CLAMP |
| 5 | FA23-058 | BRACKET PLATE | 29 | FB50-091 | 3/4 X 7 13/16 X 8 3/4 U BOLT |
| 6 | FA23-060 | HOSE BRACKET, BOX MOUNT | 30 | FB80-025 | GANG HOSE PIPE |
| 7 | FA26-016 | PIVOT PIN | 31 | HW01016096G5ZPC | 1/2 x 3 HHCS |
| 8 | FA27-128 | PIN CAP, 1-1/2 | 32 | HW01016160G5ZPC | 1/2 X 5 HEX CAPSCREW GD 5 |
| 9 | FA50-056 | DRIVELINE W/1" YOKE | 33 | HW01020040G2ZPC | 5/8 X 1 1/4 HEX CAPSCREW |
| 10 | FA50-057 | SPINDEL, 2500 LB | 34 | HW20012G5ZPC | 3/8 HEX NUT |
| 11 | FA50-058 | 3/8" U-BOLT, 7 x 7 TOOLBAR | 35 | HW20016G5ZPC | 1/2 HEX NUT |
| 12 | FA50-060 | STEP LIFT PIN | 36 | HW20024G5ZPC | 3/4 HEX NUT |
| 13 | FA50-061 | SPACER, CAT. III | 37 | HW22012G5ZPC | 3/8 FLANGE LOCK NUT |
| 14 | FA50-065 | CYLINDER, 3"x24" | 38 | HW24016GBZPC | 1/2 STOVER LOCK NUT |
| 15 | FA50-073 | HYD HOSE, 3/8 MP x 48 | 39 | HW26016G5ZPF | 1/2 LUG NUT |
| 16 | FA50-074 | HYD HOSE, 3/8 MP x 72 | 40 | HW32012G5ZP | 3/8 LOCKWASHER |
| 17 | FA50-086 | HYD HOSE, 3/8 MP x 96 | 41 | HW32016G5ZP | 1/2 LOCKWASHER |
| 18 | FA50-088 | WHEEL ASSM. | 42 | HW32020G8ZP | 5/8 LOCKWASHER GD 8 |
| 19 | FA50-098 | 1 3/8 TAPER ROLLER BEARING | 43 | HW32024G5ZP | 3/4 LOCKWASHER |
| 20 | FA50-099 | 1 1/4 TAPER ROLLER BEARING | 44 | HW40005048ZP | 5/32 X 1 1/2 COTTER PIN |
| 21 | FA50-100 | 5 X 5 1/2 HUB | 45 | HW40008080ZP | 1/4 x 2 1/2 COTTER PIN |
| 22 | FA50-101 | 1 3/4 X 69mm SEAL | 46 | HW6002405607GPL | 3/4 X 1 3/4 X 7 GA M.B. |
| 23 | FA50-102 | 2 7/16 DUST CAP | 47 | HW70024G5PLF | 3/4 CASTLE NUT |
| 24 | FA80-053 | 7" STAND BRACKET | 48 | SE50-035 | HITCH PIN |

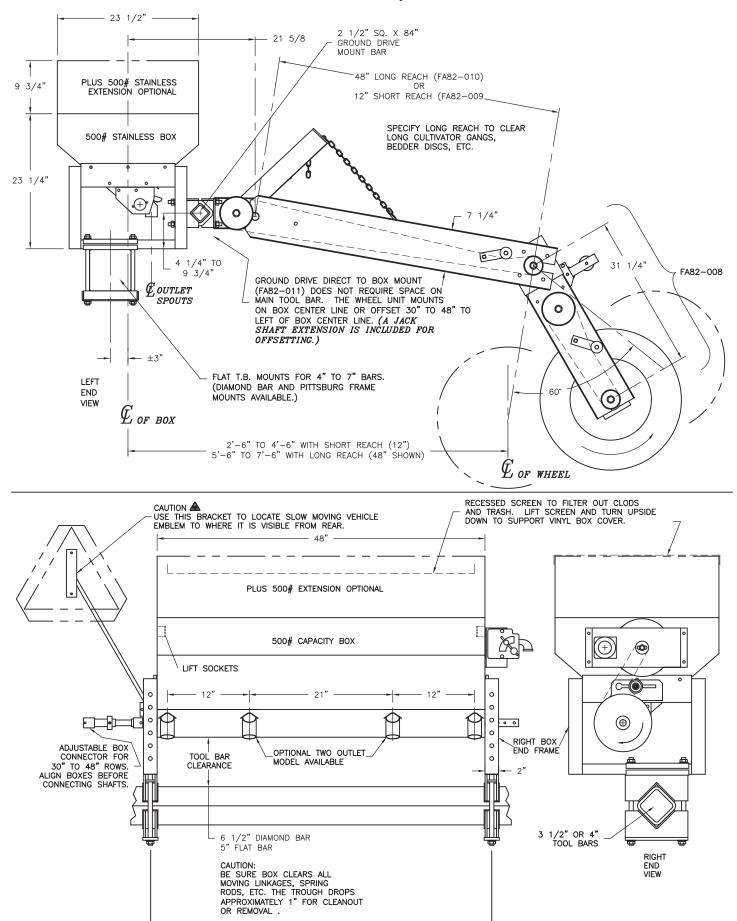


48 13

ITEMS NOT SHOWN

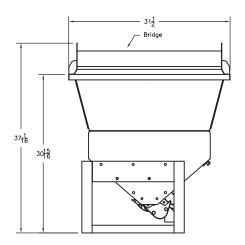
- 9 DRIVELINE W/1" YOKE (SPECIFY ROW WIDTH WHEN ORDERING DRIVELINE)
- (14) CYLINDER, 3"x24"
- (15) HYD HOSE, 3/8 MP x 48
- (16) HYD HOSE, 3/8 MP x 72
- (17) HYD HOSE, 3/8 MP x 96
- 18) WHEEL ASSM.

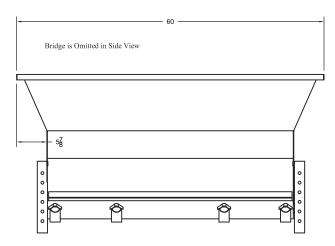
Installation Dimensions Ground Drive Model/Hyd. Drive Model



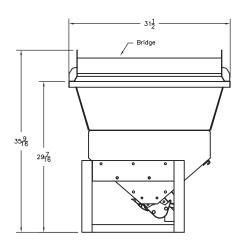
Installation Dimensions

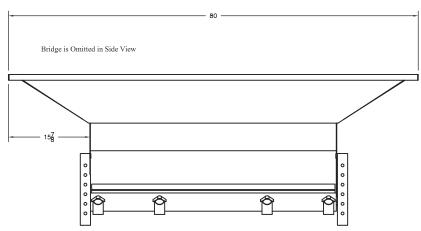
750# Box Extensions





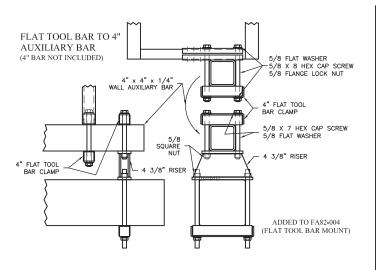
750# Extensions, 36-38" Rows

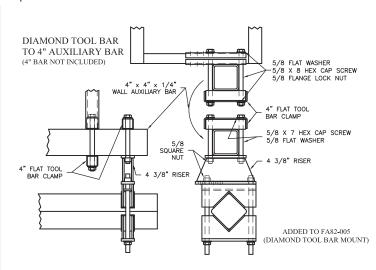




750# Extensions, 44-48" Rows

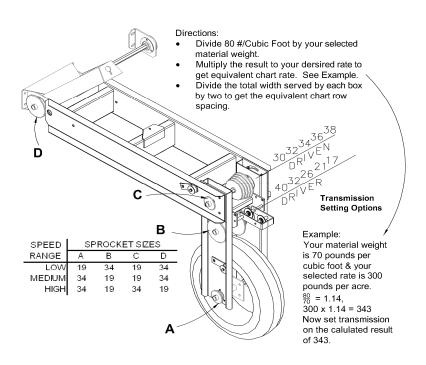
<u>4" Auxiliary Bar Mount Bracket</u> FA82-016 One Requird Per Box





GROUND DRIVE RATE CHART

RATE CHART IS BASED ON GRANULAR MATERIL WEIGHING 80 POUNDS PER CUBIC FOOT (OR 53.5 POUNDS PER 5 GALLONS) SEE DIRECTIONS FOR MATERIAL WEIGHT ADJUSTMENT TO CHART.



| TRANS | MISSION | | | | LOW F | RANGE | | | |
|--------|---------|-----|------------|------------|--------|-------|-----------|-----------|----------|
| SET | TING | | | F | ROW SI | PACIN | G | | |
| DRIVER | DRIVEN | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 |
| | 38 | 86 | 81 | 76 | 72 | 68 | 65 | 59 | 54 |
| | 36 | 91 | 86 | 80 | 76 | 72 | 68 | 62 | 57 |
| 17: | 34 | 97 | 91 | 86 | 81 | 77 | 73 | 66 | 61 |
| | 32 | 102 | 96 | 90 | 85 | 81 | 77 | 70 | 64 |
| | 30 | 108 | 101 | 95 | 90 | 85 | 81 | 74 | 68 |
| | 38 | 103 | 97 | 91 | 86 | 81 | 77 | 70 | 65 |
| | 36 | 109 | 102 | 96 | 91 | 86 | 82 | 74 | 68 |
| 21: | 34 | 115 | 108 | 102 | 96 | 91 | 86 | 79 | 72 |
| | 32 | 122 | 115 | 108 | 102 | 97 | 92 | 83 | 77 |
| | 30 | 128 | 120 | 113 | 107 | 101 | 96 | 88 | 80 |
| | 38 | 132 | 124 | 116 | 110 | 104 | 00 | 00 | 83 |
| | 36 | 132 | | | 116 | 110 | 99 104 | 90 95 | ია 87 |
| 26: | 34 | 146 | 131 137 | 123 129 | 122 | 116 | 110 | 95 100 | 92 |
| 20. | 32 | 154 | 144 | 136 | 128 | 121 | 115 | 105 | 92 96 |
| | 30 | 161 | 151 | 142 | 134 | 127 | 121 | 110 | 101 |
| | | | | | | | | | 101 |
| | 38 | 156 | 146 | 138 | 130 | 123 | 117 | 106 | 98 |
| | 36 | 166 | 155 | 146 | 138 | 131 | 124 | 113 | 104 |
| 32: | 34 | 175 | 164 | 155 | 146 | 138 | 131 | 119 | 110 |
| | 32 | 185 | 173 | 163 | 154 | 146 | 139 | 126 | 116 |
| | 30 | 194 | 182 | 172 | 162 | 153 | 146 | 133 | 122 |
| | 38 | 186 | 174 | 164 | 155 | 147 | 140 | 127 | 116 |
| | 36 | 199 | 187 | 176 | 166 | 157 | 149 | 136 | 125 |
| 40: | 34 | 212 | 199 | 187 | 177 | 168 | 159 | 145 | 133 |
| | 32 | 226 | 212 | 199 | 188 | 178 | 169 | 154 | 141 |
| | 30 | 239 | 224 | 211 | 199 | 189 | 179 | 163 | 149 |

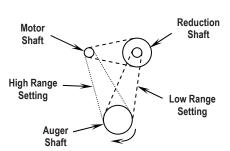
| TRANSMISSION | | | | М | EDIUM | RANG | Ε | | | | | | HIGH RAI | NGE | | | |
|--------------|--------|-----|-----|-----|--------|-------|-----|-----|-----|------|------|------|----------|------|------|------|------|
| SET | TING | | | F | ROW SI | PACIN | 3 | | | | | F | ROW SPA | CING | | | |
| DRIVER | DRIVEN | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 |
| | 38 | 259 | 243 | 229 | 216 | 205 | 194 | 177 | 162 | 702 | 658 | 619 | 585 | 554 | 527 | 479 | 439 |
| | 36 | 272 | 255 | 240 | 227 | 215 | 204 | 186 | 170 | 748 | 701 | 660 | 623 | 590 | 561 | 510 | 467 |
| 17: | 34 | 287 | 269 | 253 | 239 | 226 | 215 | 196 | 179 | 793 | 744 | 700 | 661 | 626 | 595 | 541 | 496 |
| | 32 | 300 | 281 | 265 | 250 | 237 | 225 | 205 | 188 | 839 | 786 | 740 | 699 | 662 | 629 | 572 | 524 |
| | 30 | 314 | 295 | 277 | 262 | 248 | 236 | 214 | 197 | 884 | 829 | 780 | 737 | 698 | 663 | 603 | 553 |
| | 38 | 304 | 285 | 268 | 253 | 240 | 228 | 207 | 190 | 839 | 786 | 740 | 699 | 662 | 629 | 572 | 524 |
| | 36 | 322 | 302 | 284 | 268 | 254 | 241 | 219 | 201 | 895 | 839 | 790 | 746 | 707 | 671 | 610 | 560 |
| 21: | 34 | 338 | 317 | 299 | 282 | 267 | 254 | 231 | 212 | 952 | 892 | 840 | 793 | 751 | 714 | 649 | 595 |
| | 32 | 356 | 334 | 314 | 297 | 281 | 267 | 243 | 223 | 1008 | 945 | 889 | 840 | 796 | 756 | 687 | 630 |
| | 30 | 374 | 351 | 330 | 312 | 296 | 281 | 255 | 234 | 1064 | 998 | 939 | 887 | 840 | 798 | 726 | 665 |
| | 38 | 353 | 331 | 311 | 294 | 279 | 265 | 241 | 221 | 1073 | 1006 | 947 | 894 | 847 | 805 | 731 | 671 |
| | 36 | 374 | 351 | 330 | 312 | 296 | 281 | 255 | 234 | 1142 | 1071 | 1008 | 952 | 902 | 857 | 779 | 714 |
| 26: | 34 | 396 | 371 | 349 | 330 | 313 | 297 | 270 | 248 | 1212 | 1136 | 1069 | 1010 | 957 | 909 | 826 | 758 |
| | 32 | 418 | 392 | 368 | 348 | 330 | 313 | 285 | 261 | 1282 | 1202 | 1131 | 1068 | 1012 | 961 | 874 | 801 |
| | 30 | 439 | 412 | 388 | 366 | 347 | 329 | 299 | 275 | 1351 | 1267 | 1192 | 1126 | 1067 | 1013 | 921 | 845 |
| | 38 | 434 | 407 | 383 | 362 | 343 | 326 | 296 | 272 | 1284 | 1204 | 1133 | 1070 | 1014 | 963 | 875 | 803 |
| | 36 | 460 | 431 | 406 | 383 | 363 | 345 | 313 | 287 | 1369 | 1284 | 1208 | 1141 | 1081 | 1027 | 934 | 856 |
| 32: | 34 | 485 | 455 | 428 | 404 | 383 | 364 | 331 | 303 | 1454 | 1364 | 1283 | 1212 | 1148 | 1091 | 992 | 909 |
| | 32 | 511 | 479 | 451 | 426 | 404 | 383 | 349 | 320 | 1540 | 1443 | 1358 | 1283 | 1215 | 1155 | 1050 | 962 |
| | 30 | 536 | 503 | 473 | 447 | 423 | 402 | 366 | 335 | 1625 | 1523 | 1434 | 1354 | 1283 | 1219 | 1108 | 1016 |
| | 38 | 518 | 486 | 457 | 432 | 409 | 389 | 353 | 324 | 1704 | 1598 | 1504 | 1420 | 1345 | 1278 | 1162 | 1065 |
| | 36 | 550 | 515 | 485 | 458 | 434 | 412 | 375 | 344 | 1812 | 1699 | 1599 | 1510 | 1431 | 1359 | 1235 | 1133 |
| 40: | 34 | 582 | 546 | 514 | 485 | 459 | 437 | 397 | 364 | 1920 | 1800 | 1694 | 1600 | 1516 | 1440 | 1309 | 1200 |
| | 32 | 613 | 575 | 541 | 511 | 484 | 460 | 418 | 383 | 2028 | 1901 | 1789 | 1690 | 1601 | 1521 | 1383 | 1268 |
| | 30 | 646 | 605 | 570 | 538 | 510 | 484 | 440 | 404 | 2136 | 2003 | 1885 | 1780 | 1686 | 1602 | 1456 | 1335 |

HYDRAULIC DRIVE - CALIBRATION INSTRUCTIONS

NOTE: Divide the total width served by each box by two to get the equivalent chart row spacing.

- Select the desired output rate (lbs./acre)
- Based on your row spacing and (lbs./acre) use the following table to assemble the auger drive chain for the correct range setting:

| LOW F | RANGE | HIGH F | RANGE |
|-------|---------------------------------|--|---|
| Min. | Max. | Min. | Max. |
| 72 | 468 | 324 | 2190 |
| 68 | 439 | 304 | 2053 |
| 64 | 413 | 286 | 1932 |
| 60 | 390 | 270 | 1825 |
| 57 | 369 | 256 | 1729 |
| 54 | 351 | 243 | 1643 |
| 51 | 334 | 231 | 1564 |
| 49 | 319 | 221 | 1493 |
| 47 | 305 | 211 | 1428 |
| 45 | 293 | 203 | 1369 |
| | Min. 72 68 64 60 57 54 51 49 47 | 72 468 68 439 64 413 60 390 57 369 54 351 51 334 49 319 47 305 | Min. Max. Min. 72 468 324 68 439 304 64 413 286 60 390 270 57 369 256 54 351 243 51 334 231 49 319 221 47 305 211 |



- Establish the desired tractor ground speed and engine speed.
- Measure the time (T) required to travel 500ft. at established ground speed.
- Calculate the pounds to be collected from one box during the time (T) at established engine speed.

Vary the flow control valve handle on the unit to collect lbs. (P) from one box during the time (T) at established engine speed and lock in position. (Do not vary any hydraulic speed controls on the tractor once the unit speed control handle is locked.)

CAUTION: Do not operate the unit with a reduction shaft speed in excess of 160 RPM. Wash box thoroughly after each application. Lightly oil chains prior to storage.

Determining actual output rate of box.

R = Row spacing = 38"

L = Distance traveled = 500 feet

FR = Desired rate per Acre = 225 lb/acre

PC = Pounds Collected = 15.05 pounds

D = Diameter of Bucket =11 1/4"

BL = Depth of Bucket = 14"

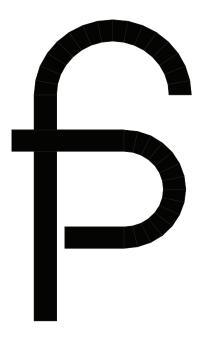
CR = Correction Factor

- First determine the weight of fertilizer per cubic foot. Example: Using a 5 gallon pail.
 - a) Weigh the bucket empty = 2 pound
 - b) Determine the Volume of the bucket being used:
 - The Diameter (D) and depth of Bucket (BL).
 - The Volume of the bucket: $V = 0.0004 \times D \times D \times BL = 0.00045 \times 11.25 \times 11.25 \times 14 = 0.80$ Cubic
 - Fill bucket level with fertilizer using, weight = 47.8 pounds, subtract weight of bucket; the weight of fertilizer in bucket is 45.8 pounds.
 - The weight of the Fertilizer per Cubic foot is: 45.8 divide by 0.80 (Volume of pail) = 57.25 pounds per cubic foot.
 - c) Now to determine the start setting of drive using rate charts. Note: The Charts are based on fertilizer weighing 80 pounds per cubic foot.
 - First we will have to determine the correction factor for the Fertilizer: CR = 80 divided by (your fertilizer weight) 57.25 = 1.40
 - Now Multiply the Correction Factor to desired rate FR, CR x FR = 1.40 x 225 = 314
 - Using the charts, look for the closet setting to 314 and set drive.
 - d) Check actual output catching Fertilizer out of one box.
 - Catch the Fertilizer out each outlet of the box. PC is less Bucket weights.

| lbs per acre = | 522720 (x) PC | |
|------------------|---------------------------------------|--|
| ins her acre - | no. of rows served per box (x)R (x) L | |
| lhe per cere = - | 522720 (x) 15.05 | |
| lbs per acre = — | 2 (x)38 (x) 500 | |
| lbs per acre = | 207 | |

To get closer to Desired rate, take 225 divide by 207 = 1.08 and Multiply it to the Previous rate set on drive and re-catch the fertilizer and weigh again. Note: Using Hydraulic Drive, the Engine and Ground Speed must be the same to get correct output per acre. The 500 foot traveled must be the same time each time.

PARTS LIST



FERTILIZER OPENERS

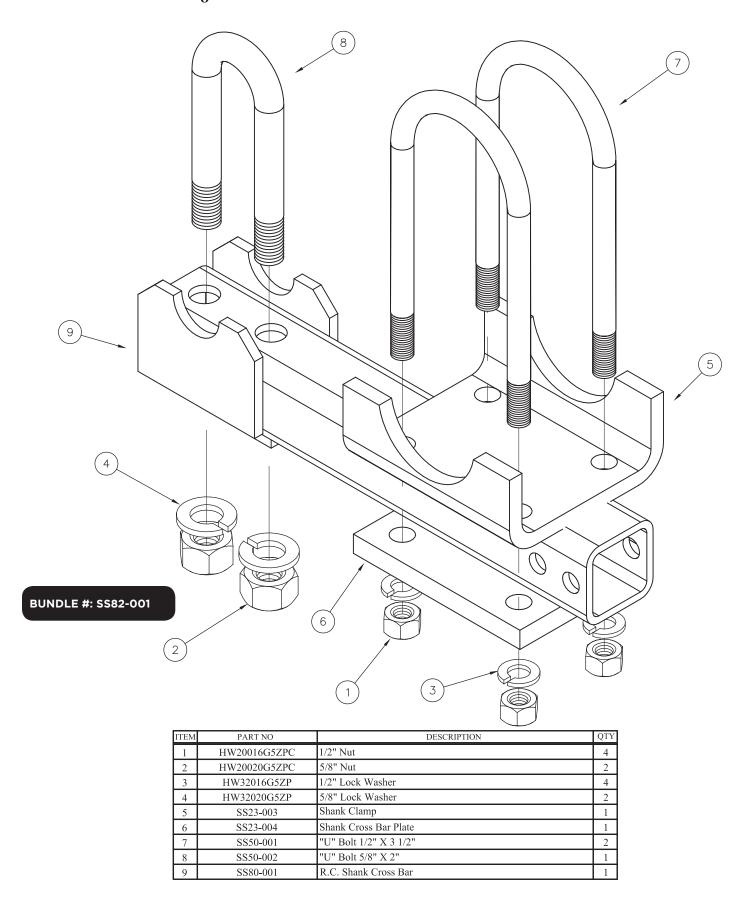
Round Shank Standard Supports 1 3/8" RS "S" Tine Openers 1 3/8" Round Shank ME & White 13-1/2" Monosem 13-1/2" Case IH 13-1/2" ME & White 15" Monosem 15" Case IH 15"

FIRST PRODUCTS INC.

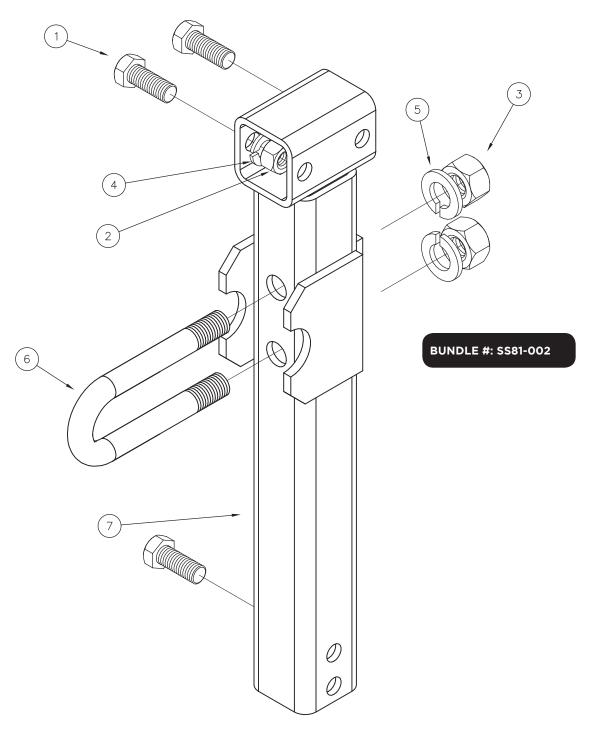
164 Oakridge Church Road Tifton, Georgia 31794 U.S.A. Phone 800-363-8780 Georgia (229) 382-4768 Fax (229) 382-0506

Printed in U.S.A. PBREV0112

$1\frac{3}{8}$ "ROUND SHANK ROLLING CULTIVATOR SUPPORT

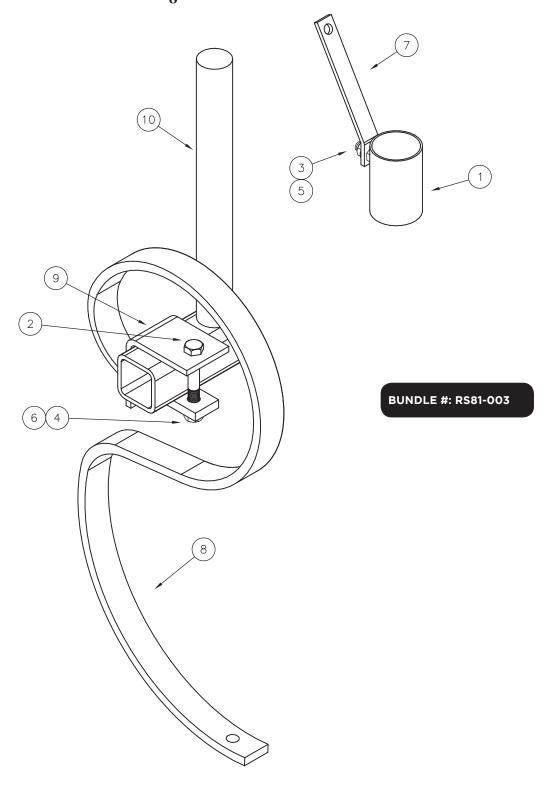


$1\frac{3}{8}$ " ROUND SHANK PITTSBURGH STANDARD SUPPORT



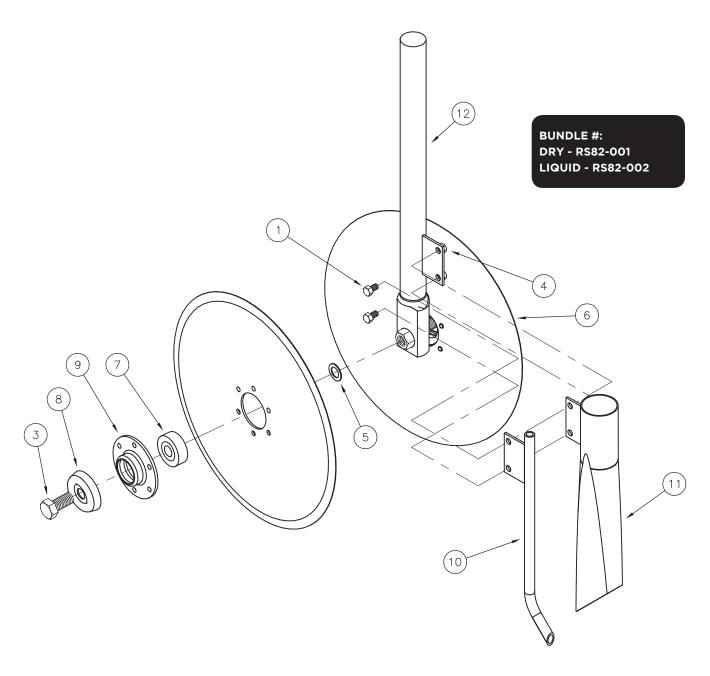
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|-----------------------|-----|
| 1 | HW01014040G5ZPC | 7/16" X 1 1/4" HCS | 3 |
| 2 | HW20014G5ZPC | 7/16" Nut | 3 |
| 3 | HW20020G5ZPC | 5/8" Nut | 2 |
| 4 | HW32014G5ZP | 7/16" Lock Washer | 3 |
| 5 | HW32020G5ZP | 5/8" Lock Washer | 2 |
| 6 | SS50-002 | "U" Bolt 5/8" X 2" | 1 |
| 7 | SS80-002 | P.B. Standard Support | 1 |

$1\frac{3}{8}$ " "S" TINE OPENER



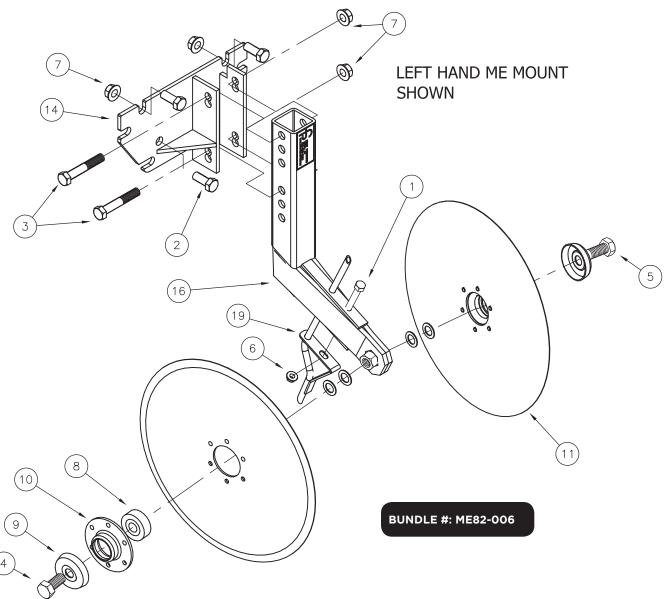
| ITEM | PART NO | DESCRIPTION | QTY | ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|---------------------------------|-----|------|-------------|-----------------------------------|-----|
| 1 | FB80-025 | Gang Hose Pipe ("S" Tine Spout) | 1 | 6 | HW32014G5ZP | 7/16" Lock Washer | 1 |
| 2 | HW01014096G5ZPC | 7/16" X 3" Hex Capscrew | 1 | 7 | RS23-002 | "S"Tine Hose Spout Holder | 1 |
| 3 | HW20012G5ZPC | 3/8" Hex Nut | 1 | 8 | RS50-002 | "S" Tine | 1 |
| 4 | HW20014G5ZPC | 7/16" Hex Nut | 1 | 9 | RS50-003 | "S" Tine Clamp | 1 |
| 5 | HW32012G5ZP | 3/8" Lock Washer | 1 | 10 | RS80-004 | 1 3/8" Round Shank "S" Tine Mount | 1 |

$1\frac{3}{8}$ " ROUND SHANK DOUBLE DISK OPENER



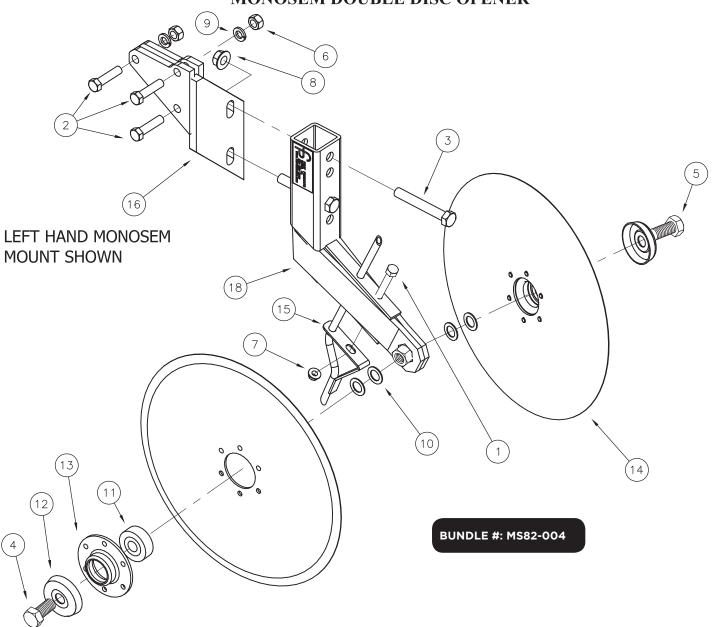
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|---------------------------------------|-----|
| 1 | HW01010016G2ZPC | 5/16" x 1/2" Capscrew | 2 |
| 2 | HW01020040G5ZPC | 5/8" x 1 1/4" Hex Capscrew, RH | 1 |
| 3 | HW01020040G5ZPD | 5/8" x 1 1/4" Hex Capscrew, LH | 1 |
| 4 | HW22010G5ZPC | 5/16" Flange Lock Nut | 2 |
| 5 | HW6002003218GZP | 1" OD x 5/8"ID x 18 GA Washer | 2 |
| 6 | ME50-001 | Disc Assembly (With Bearing & Flange) | 2 |
| 7 | ME50-002 | Disc Bearing | 2 |
| 8 | ME50-008 | 97 Bolt On Cap | 2 |
| 9 | ME50-009 | 97 Disc Bearing Flange | 2 |
| 10 | RS80-001 | Liquid Tube | 1 |
| 11 | RS80-002 | Dry Tube | 1 |
| 12 | RS80-003 | 1 3/8" Round Shank | 1 |

ME DOUBLE DISC OPENER



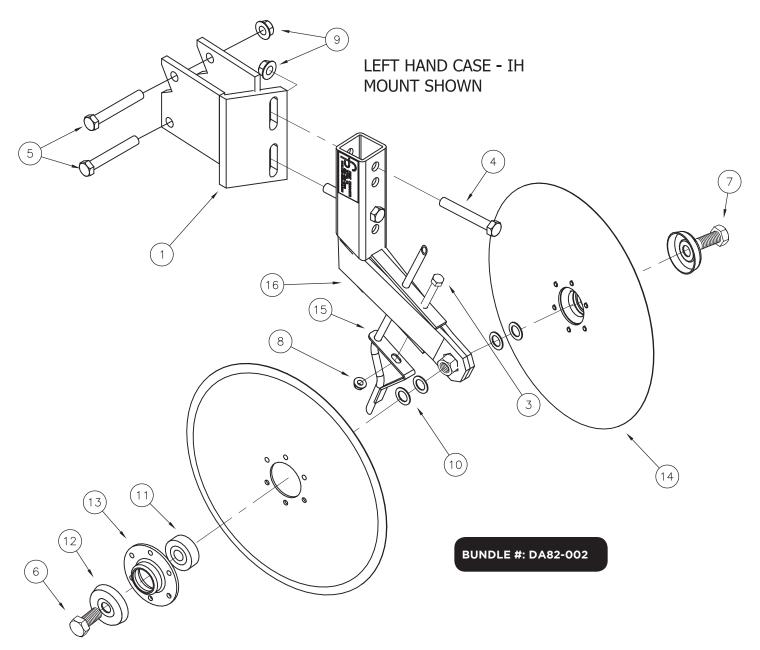
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|---|-----|
| 1 | HW01010096G2ZPC | 5/16" X 3" Hex Capscrew | 1 |
| 2 | HW01016032G5ZPC | 1/2" X 1" Hex Capscrew | 0 |
| 3 | HW01016096G5ZPC | 1/2" X 3" Hex Capscrew | 2 |
| 4 | HW01020040G5ZPC | 5/8" x 1 1/4" Hex Capscrew, RH | 1 |
| 5 | HW01020040G5ZPD | 5/8" x 1 1/4" Hex Capscrew, LH | 1 |
| 6 | HW22010G5ZPC | 5/16" Flange Lock Nut | 1 |
| 7 | HW22016G5ZPC | 1/2" Flange Lock Nut | 6 |
| 8 | ME50-002 | Disc Bearing | 2 |
| 9 | ME50-008 | 97 Bolt On Cap | 2 |
| 10 | ME50-009 | 97 Disc Bearing Flange | 2 |
| 11 | ME50-010 | 97 Disk (Bearing, Flange, & Cap) | 2 |
| 12 | ME80-009 | 97 White Mounting Plate LT (Not Shown). | 1 |
| 13 | ME80-010 | 97 White Mounting Plate RT (Not Shown). | 1 |
| 14 | ME80-011 | 97 ME Mounting Plate LT | 1 |
| 15 | ME80-012 | 97 ME Mounting Plate RT (Not Shown) | 1 |
| 16 | ME80-013 | 97 ME Post – Liquid | 1 |
| 17 | ME80-015 | 97 ME Post - Dry (Not Shown) | 1 |
| 18 | ME80-017 | 97 White Post (Not Shown) | 1 |
| 19 | ME80-025 | 13-1/2" COULTER SS Liquid Tube | 1 |

MONOSEM DOUBLE DISC OPENER



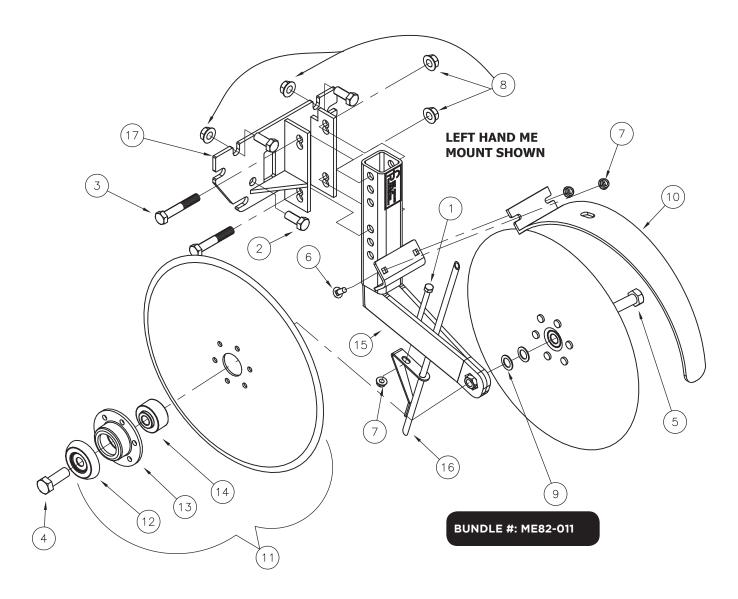
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|--|-----|
| 1 | HW01010096G2ZPC | 5/16" X 3" Hex Capscrew | 1 |
| 2 | HW01014056G5ZPC | 7/16" X 1 3/4" Hex Capscrew (Not Shown). | 3 |
| 3 | HW01016096G5ZPC | 1/2" X 3" Hex Capscrew (Not Shown). | 2 |
| 4 | HW01020040G5ZPC | 5/8" X 1 1/4" Hex Capscrew | 1 |
| 5 | HW01020040G5ZPD | 5/8" X 1 1/4" Hex Capscrew LH | 1 |
| 6 | HW20014G5ZPC | 7/16" Hex Nut (Not Shown). | 3 |
| 7 | HW22010G5ZPC | 5/16" Flang Lock Nut | 1 |
| 8 | HW22016G5ZPC | 1/2" Flange Lock Nut (Not Shown). | 2 |
| 9 | HW32014G5ZP | 7/16" Lock Washer (Not Shown). | 3 |
| 10 | HW6002003218GZP | 5/8" ID X 1" OD X 18 GA Washer | 4 |
| 11 | ME50-002 | Disc Bearing | 2 |
| 12 | ME50-008 | 97 Bolt On Cap | 2 |
| 13 | ME50-009 | 97 Disc Bearing Flange | 2 |
| 14 | ME50-010 | 97 Disc (Bearing Flange & Cap) | 2 |
| 15 | ME80-025 | 13-1/2" COULTER SS Liquid Tube | 1 |
| 16 | MS80-001 | Monosem Mount LT | 1 |
| 17 | MS80-002 | Monosem Mount RT | 1 |
| 18 | MS80-006 | 97 Monosem Post | 1 |

CASE-IH DOUBLE DISC OPENER



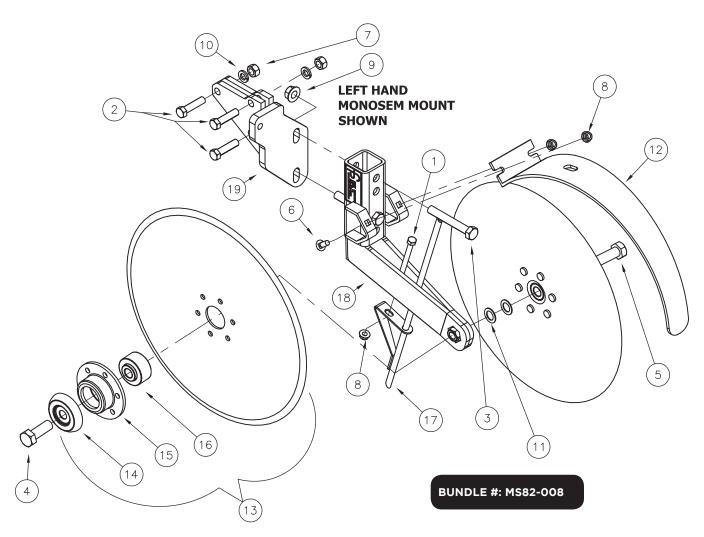
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|--------------------------------|-----|
| 1 | DA80-011 | C-IH MOUNTING BRKT. LT. | 1 |
| 2 | DA80-012 | C-IH MOUNTING BRKT. RT. | 1 |
| 3 | HW01010096G2ZPC | 5/16 X 3 HEX CAPSCREW | 1 |
| 4 | HW01016096G2ZPC | 1/2 X 3 HEX CAPSCREW | 2 |
| 5 | HW01016112G2ZPC | 1/2 X 3 1/2 HEX CAPSCREW | 2 |
| 6 | HW01020040G2ZPC | 5/8 X 1 1/4 HEX CAPSCREW | 1 |
| 7 | HW01020040G2ZPD | 5/8 X 1 1/4 HEX CAPSCREW L.H. | 1 |
| 8 | HW22010G5ZPC | 5/16 FLANGE LOCKNUT | 1 |
| 9 | HW22016G5ZPC | 1/2 FLANGE LOCKNUT | 4 |
| 10 | HW6002003218GZP | 5/8 ID X 1 OD X 18 GA. WASHER | 4 |
| 11 | ME50-002 | DISC BEARING | 2 |
| 12 | ME50-008 | 97 BOLT ON CAP | 2 |
| 13 | ME50-009 | 97 DISC BEARING FLANGE | 2 |
| 14 | ME50-010 | 97 DISC ASSEMBLY | 2 |
| 15 | ME80-025 | 13-1/2" COULTER SS LIQUID TUBE | 1 |
| 16 | MS80-006 | 97 MONOSEM POST | 1 |

ME 15" DOUBLE DISC OPENERS



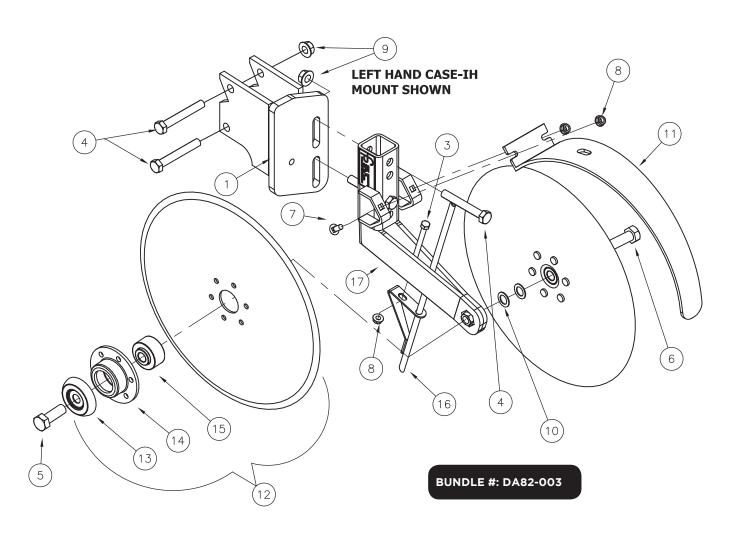
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|-------------------------------|-----|
| 1 | HW01010096G5ZPC | 5/16 X 3 HEX CAPSCREW G5 | 1 |
| 2 | HW01016048G5ZPC | 1/2 X 1-1/2 HEX CAPSCREW G5 | 4 |
| 3 | HW01016096G5ZPC | 1/2 X 3 HEX CAPSCREW G5 | 2 |
| 4 | HW01020056G2ZPC | 5/8 X 1 3/4 HEX CAPSCREW | 1 |
| 5 | HW01020056G5ZPD | 5/8 X 1 3/4 HEX CAPSCREW L.H. | 1 |
| 6 | HW03010024G5ZPC | 5/16 X 3/4 CARRIAGE BOLT GD 5 | 2 |
| 7 | HW22010G5ZPC | 5/16 FLANGE LOCK NUT | 3 |
| 8 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 6 |
| 9 | HW6002003218GZP | 5/8 ID x 1"OD 18GA BUSHING | 4 |
| 10 | ME27-037 | 15" DISC SHEILD, LIQUID TUBE | 1 |
| 11 | ME50-012 | 15" COULTER W/ DUST CAP | 2 |
| 12 | ME50-013 | 15" COULTER DUST CAP | 2 |
| 13 | ME50-014 | 15" COULTER BEARING RETAINER | 2 |
| 14 | ME50-015 | 15" COULTER BEARING | 2 |
| 15 | ME80-026 | ME 15" COULTER POST | 1 |
| 16 | ME80-027 | 15"COULTER SS LIQUID TUBE | 1 |
| 17 | ME80-028 | ME MOUNT PLATE, LEFT | 1 |
| 18 | ME80-029 | ME MOUNT PLATE, RIGHT | 1 |

MONOSEM 15" DOUBLE DISC OPENERS



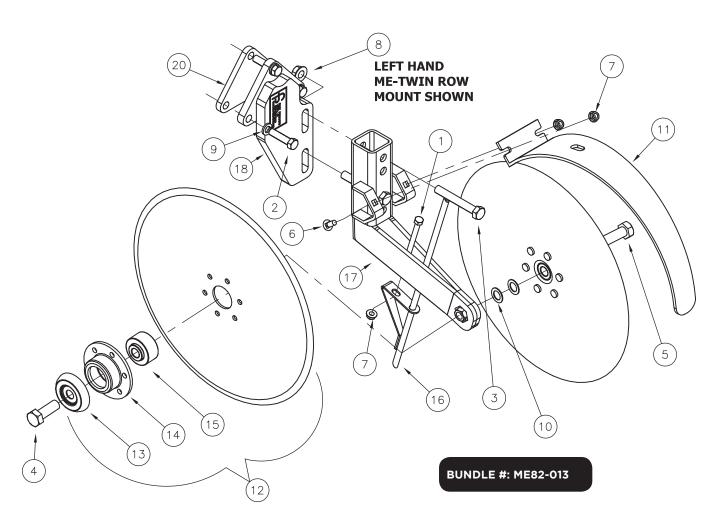
| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|-------------------------------|-----|
| 1 | HW01010096G5ZPC | 5/16 X 3 HEX CAPSCREW G5 | 1 |
| 2 | HW01014056G5ZPC | 7/16 X 1 3/4 HEX CAP GR. 5 | 3 |
| 3 | HW01016112G5ZPC | 1/2 X 3 1/2 HEX CAPSCREW G5 | 2 |
| 4 | HW01020056G2ZPC | 5/8 X 1 3/4 HEX CAPSCREW | 1 |
| 5 | HW01020056G5ZPD | 5/8 X 1 3/4 HEX CAPSCREW L.H. | 1 |
| 6 | HW03010024G5ZPC | 5/16 X 3/4 CARRIAGE BOLT GD 5 | 2 |
| 7 | HW20014G5ZPC | 7/16 HEX NUT | 3 |
| 8 | HW22010G5ZPC | 5/16 FLANGE LOCK NUT | 3 |
| 9 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 2 |
| 10 | HW32014G5ZP | 7/16 LOCKWASHER | 3 |
| 11 | HW6002003218GZP | 5/8 ID x 1"OD 18GA BUSHING | 4 |
| 12 | ME27-037 | 15" DISC SHEILD, LIQUID TUBE | 1 |
| 13 | ME50-012 | 15" COULTER W/ DUST CAP | 2 |
| 14 | ME50-013 | 15" COULTER DUST CAP | 2 |
| 15 | ME50-014 | 15" COULTER BEARING RETAINER | 2 |
| 16 | ME50-015 | 15" COULTER BEARING | 2 |
| 17 | ME80-027 | 15"COULTER SS LIQUID TUBE | 1 |
| 18 | MS80-015 | MS/DA 15" COULTER POST | 1 |
| 19 | MS80-017 | MONOSEM MOUNT, LEFT | 1 |
| 20 | MS80-018 | MONOSEM MOUNT, RIGHT | 1 |

CASE - IH 15" DOUBLE DISC OPENERS



| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|-------------------------------|-----|
| 1 | DA80-013 | C-IH MOUNT BRACKET, LEFT | 1 |
| 2 | DA80-014 | C-IH MOUNT BRACKET, RIGHT | 1 |
| 3 | HW01010096G5ZPC | 5/16 X 3 HEX CAPSCREW G5 | 1 |
| 4 | HW01016112G5ZPC | 1/2 X 3 1/2 HEX CAPSCREW G5 | 4 |
| 5 | HW01020056G2ZPC | 5/8 X 1 3/4 HEX CAPSCREW | 1 |
| 6 | HW01020056G5ZPD | 5/8 X 1 3/4 HEX CAPSCREW L.H. | 1 |
| 7 | HW03010024G5ZPC | 5/16 X 3/4 CARRIAGE BOLT GD 5 | 2 |
| 8 | HW22010G5ZPC | 5/16 FLANGE LOCK NUT | 2 |
| 9 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 4 |
| 10 | HW6002003218GZP | 5/8 ID x 1"OD 18GA BUSHING | 4 |
| 11 | ME27-037 | 15" DISC SHEILD, LIQUID TUBE | 1 |
| 12 | ME50-012 | 15" COULTER W/ DUST CAP | 2 |
| 13 | ME50-013 | 15" COULTER DUST CAP | 2 |
| 14 | ME50-014 | 15" COULTER BEARING RETAINER | 2 |
| 15 | ME50-015 | 15" COULTER BEARING | 2 |
| 16 | ME80-027 | 15"COULTER SS LIQUID TUBE | 1 |
| 17 | MS80-015 | MS/DA 15" COULTER POST | 1 |

JOHN DEERE TWIN ROW 15" DOUBLE DISC OPENERS



| ITEM | PART NO | DESCRIPTION | QTY |
|------|-----------------|-------------------------------|-----|
| 1 | HW01010096G5ZPC | 5/16 X 3 HEX CAPSCREW G5 | 1 |
| 2 | HW01M120408.8ZC | M12 x 40mm HEX CAP | 3 |
| 3 | HW01016112G5ZPC | 1/2 X 3 1/2 HEX CAPSCREW G5 | 2 |
| 4 | HW01020056G2ZPC | 5/8 X 1 3/4 HEX CAPSCREW | 1 |
| 5 | HW01020056G5ZPD | 5/8 X 1 3/4 HEX CAPSCREW L.H. | 1 |
| 6 | HW03010024G5ZPC | 5/16 X 3/4 CARRIAGE BOLT GD 5 | 2 |
| 7 | HW22010G5ZPC | 5/16 FLANGE LOCK NUT | 3 |
| 8 | HW22016G5ZPC | 1/2 FLANGE LOCK NUT | 2 |
| 9 | HW32016G5ZP | 1/2 LOCKWASHER | 3 |
| 10 | HW6002003218GZP | 5/8 ID x 1"OD 18GA BUSHING | 4 |
| 11 | ME27-037 | 15" DISC SHEILD, LIQUID TUBE | 1 |
| 12 | ME50-012 | 15" COULTER W/ DUST CAP | 2 |
| 13 | ME50-013 | 15" COULTER DUST CAP | 2 |
| 14 | ME50-014 | 15" COULTER BEARING RETAINER | 2 |
| 15 | ME50-015 | 15" COULTER BEARING | 2 |
| 16 | ME80-027 | 15"COULTER SS LIQUID TUBE | 1 |
| 17 | MS80-015 | MS/DA 15" COULTER POST | 1 |
| 18 | ME80-031 | METR MOUNT, LEFT | 1 |
| 19 | ME80-032 | METR MOUNT, RIGHT | 1 |
| 20 | ME27-040 | METR SPACER PLATE | 1 |

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