

PREPMASTER®

The One Pass Pre-Plant Seedbed Preparation Tool

Operator's & Repair Parts Manual with Set-Up Instructions

For Models: Rigid Frame Direct Fold Frame (90°) Stack Fold Frame

 909-545
 909-608
 909-708

 909-565
 909-609
 909-709

909-585 909-612 909-587 909-613

Do Not Use or Operate this Equipment Until this Manual has Been Read and Understood

The purpose of this manual is to explain maintenance requirements and adjustments which are necessary for the most efficient operation of the machine. Read this manual thoroughly and completely before using your machine. Keep this manual handy for reference when questions arise.

Should you have questions or difficulties which your dealer or representative are unable to answer, please call or write:

Bigham Brothers, Inc. 705 E. Slaton Rd. P.O. Box 3338 Lubbock, TX 79452

Telephone: (806) 745-0384 Fax: (806) 745-1082



SAFETY FIRST

PREVENT ACCIDENTS BY "THINKING SAFETY" IN UNLOADING, SETTING UP, MOVING, STORAGE AND OPERATING ALL EQUIPMENT.



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A MESSAGE TO THE OWNER AND OPERATOR:

This machine was carefully designed and manufactured to give you dependable service. To keep it running efficiently, read the instructions in this Operator's Manual. Check each item and acquaint yourself with the adjustments required to obtain efficient operation and maximum performance. Remember, the machine's performance depends on how you operate and care for it.

After the operating season, thoroughly clean your machine and inspect it. Preventive maintenance saves time and pays dividends. Your dealer has original equipment parts which assure proper fit and best performance. Record the model number, serial number and date of purchase in the space provided on this page. Your dealer needs this information to give you efficient service when you order parts or attachments. The model number and serial number appear on the identification plate on the front left side of the tool bar mast.

The Warranty on your machine is included with this manual. Your dealer will review both this manual and the warranty with you when you take delivery of your machine.

Model Number	909-	
Serial Number		
Date Purchased		

WARRANTY

Bigham Brothers, Inc. warrants all products of its manufacture to be free from defects in materials and workmanship for a period of six months from date of delivery to the retail purchaser. Parts assumed to be defective must be returned F.O.B. Lubbock, Texas for our inspection or inspected in the field by our authorized representative. Our obligation under this warranty is limited to replacement or repair of the defective part and does not cover other damages to persons or property. Other than the aforesaid, no warranties of merchantability or fitness for a particular purpose will apply. We do not assume liability for altered or remanufactured components or machines or applications beyond their intended use. Some states do not allow limitation of how long an implied warranty lasts, or exclusions of, or limitations on relief such as incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Warranty does not cover damage due to abuse, neglect, collision, towing, pulling, normal wear and tear or any other factor beyond the control of the manufacturer. Tool bars that are bent, bowed or that have been welded on or modified in any way are specifically excluded from any warranties.

LIMITED LIFETIME WARRANTY ON TOOL BAR CLAMPS

Bigham Brothers, Inc. will replace any ductile iron clamp body that breaks or cracks under normal use for as long as the original purchaser owns them. This includes all replaceable bolt ductile iron clamps sold by Bigham Brothers, Inc. after December 31, 1987.

Clamps that fail should be returned to Bigham Brothers, Inc. freight prepaid along with caps, bolts, set screws and nuts for evaluation. If found to have failed under normal operating conditions, a new clamp body will be returned along with your old caps, bolts, set screws and nuts. Only clamps that have been used with Grade 2 bolts of the proper size will be replaced. All other provisions of the above warranty apply.

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Safety Precautions: A A







Be alert when you see this symbol in the instructions. It warns of a hazard which might lead to injury. It means: "Attention! Become Alert! Your Safety Is Involved!"



Before Use: A DO NOT operate this equipment until this manual has been read and understood.



- Thoroughly read and understand all instructions before assembly or operation of this unit. If you have questions call or write Bigham Brothers, Inc., P.O. Box 3338, Lubbock, TX 79452 (800) 692-4449.
- If working on the PrepMaster, make sure it is level and stable. Proper stands should be lowered and secured. Use support blocks when necessary. The work area should be on a level, load bearing surface, e.g. concrete floor. NEVER, NEVER work under a PrepMaster while it is supported by only the tractor's hydraulics.
- Consult the "Tractor Manufacturers Manual" for instructions on safe mounting of implements and operating methods.
- Never stand between the PrepMaster and tractor with engine running.

During Use: 🕰

- Check and tighten all bolts after 30 minutes of initial operation and after adjustments have been made.
- Assure the PrepMaster is correctly attached to the tractor with the proper stands in the raised position.
- Keep operating speeds at a safe level.
- Never allow anyone to ride on the PrepMaster during operation.
- Never travel in reverse with the PrepMaster in the operating position.
- Never carry out adjustments or repairs to a mounted PrepMaster unless the tractor engine is stopped and the PrepMaster is firmly supported or lowered to the ground.
- Inspect the PrepMaster for wear or damage.
- Check all nuts, bolts and other fasteners for tightness on a regular basis. Replace worn fasteners as needed.
- Carry out maintenance and lubrication procedures as detailed in this manual.
- When disconnecting the PrepMaster do so on a level, hard surface. Assure it is left in a stable position with proper stands in the correct position.

Always: **A**

- Wear gloves and safety footwear when handling worn parts with sharp edges.
- Assure the PrepMaster is not operated by untrained persons.
- Use the PrepMaster only for the purpose for which it was designed and tested, and always according to the instructions contained in this manual.
- Secure transport locks on folding PrepMaster frames before transporting.
- Reduce speed when transporting over uneven or rough terrain.
- Place a "Slow Moving Vehicle" emblem on the rear of the unit before driving on open roads.
- Keep hands, feet and clothing away from all moving parts.
- Exercise care when adjusting or moving major components such as chopper or bed conditioner assemblies. The assemblies are heavy and may have sharp edges.

"Left" and "Right" of the machine refers to the side when standing behind the PrepMaster and facing the tractor.

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BE A SAFE OPERATOR, THINK BEFORE OPERATING. READ ALL INSTRUCTIONS BEFORE ASSEMBLY OR OPERATION OF THE PREP MASTER!





Picture 1- Eight Row PrepMaster on Folding Frame P/N 909-608

INTRODUCTION:

The Bigham Brothers PrepMaster® Bed Conditioner is a pre-plant bed preparation tool that will provide a perfectly prepared seedbed for a variety of planting conditions in just one pass! The PrepMaster® executes several operations critical to planting in one field pass. Front sweep and chopper will cut stalks into small pieces, distribute the buried stalks and knock down the crown of the bed. Center basket with spiral blade will incorporate chemicals and condition the top of the bed. Rear roller will flatten and firm the seedbed.

P/N	Description	Rows	Frame	Row Space	Frame Lgth.	Trans. Wdth	Ship Wt.
909-545	PrepMaster®	4	Rigid	Wide (36-40")	14'6"	14'10"	3140 Lbs.
909-565	PREPMASTER®	6	Rigid	Wide (36-40")	20'8'	21'	4535 Lbs.
909-585	PREPMASTER®	8	Rigid	Wide (36-40")	27'6"	27'10"	5890 Lbs.
909-587	PREPMASTER®	8	Rigid	Narrow (30-34")	23'2"	23'6"	5610 Lbs.
909-608	PREPMASTER®	8	Fold (90°)	Wide (40")	27'6"	18'10"	6335 Lbs.
909-609	PREPMASTER®	8	Fold (90°)	Narrow (30")	23'2"	16'	6055 Lbs.
909-612	PREPMASTER®	12	Fold (90°)	Wide (40")	40'10"	25'	9190 Lbs.
909-613	PREPMASTER®	12	Fold (90°)	Narrow (30")	34'8"	21'8"	8850 Lbs.
909-708	PREPMASTER®	8	Fold (Stacker)	Wide (40")	27'6"	16'6"	6740 Lbs.
909-709	PREPMASTER®	8	Fold (Stacker)	Narrow (30")	23'2"	14'10"	6410 Lbs.

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BIGHAM BROTHERS, INC. 619-420 4x48" Hydraulic Cylinder 619-420 4x48" Hydraulic Cylinder 621-071 **Fitting** Long Hose Short Hose Short Hose Long Hose 621-011 621-007 621-007 621-011 11' Hose on 7' Hose on 7' Hose on 11' Hose on 8 Row Folding 8 Row Folding 8 Row Folding 8 Row Folding **Tool Bars Tool Bars Tool Bars** Tool Bars Quick Tip Connector (Not Supplied with Folding Tool Bar) Figure A: Hydraulic Diagram for Folding Tool Bar

Assembly Instructions

Folding Tool Bar:

- 1.) Remove temporary port plug from clevis end of cylinder. (Picture 2)
- 2.) Install and tighten fittings supplied in each port of the cylinder. See Diagram



Picture 2- Remove plug.

- A. Position fitting to direct hoses to the base end of the cylinder. Fittings may be supplied with a pipe thread or Boss O-Ring type fitting to match cylinders. **Never use** "Teflon" tape to seal threads on either type fitting.
- 3.) Each folding frame is supplied with two long hoses and two short hoses. Screw a long hose into the fitting in the outside port of the cylinder. Tighten the hose fitting. Place short hose in fitting in the base end of the cylinder and tighten.
- 4.) Connect each hydraulic cylinder to hydraulic remote on tractor or a suitable hydraulic test stand. (Picture 3) Note: Folding bars are not supplied with quick tip connectors to plug into tractor hydraulic remotes.

5.) Stroke each cylinder at least 3 or 4 times to purge air from cylinder and hoses.

Note: Each 4x48" cylinder will require approximately 2.75 gallons (10.5 liters) of hydraulic fluid for full charging.

Maintain adequate levels of fluid in hydraulic power supply (tractor) while charging cylinders.



Picture 3- Plug quick connect tips to tractor remote plugs.

Failure to maintain fluids in tractor can result in damage to hydraulic system and transmission.

Hydraulic fluid is under high pressure. Be careful when you are close to cylinders, hoses and fittings. Replace or repair leaking or damaged hydraulic components.

A Never use your hands to locate a hydraulic leak. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin.

Leave cylinder in the fully extended position

6.) Repeat steps one (1) through five (5) to charge second of two 4x48" cylinders.

7.) Place folding bar assembly on a flat, level surface. You may wish to place blocks under the frame to support the center section and each wing for forklift access.

8.) Remove Hinge Shipping Tabs:



WARNING! Temporary hinge shipping tabs must be removed from each tool bar hinge before folding the tool bar.

- A.) Remove wire that holds the tab in place. (Picture 4)
- B.) Check shipping hinge tab to make sure it bears no weight.



Picture 4 - Wire holds hinge shipping tab in place.

C.) Remove tab. (Picture 5)D.) Discard tab. (Picture 6)



Picture 5 - Remove hinge shipping tab from front hinge.



Picture 6 - Discard hinge shipping tab.

- E.) Remove tab from rear of hinge and discard. (Picture 7)
- F.) Remove remaining tabs from other hinge on other side of frame and



Picture 7 - Remove tab from rear hinge.

discard. Four (4) tabs must be removed before wings may be folded.

G.) Use paint to touch-up hinge area and other blemishes or scratches on the frame at this time.

9.) Place cylinder in position above the tool bar mast and align base end clevis



Picture 8- Install cylinder base pin.

with the cylinder

lug on the tool bar. Insert pin and fasten with proper retainers. (Picture 8) Note: It is suggested that you place the cylinder on a forklift, stand or use two persons to handle the cylinder. Cylinders are heavy and hard to

handle.

10.) Insert pin through washers, wing lift slot, cylinder and eye bolt. (Picture 9) See parts diagram on page 24. Flat washers must be placed to the outside and inside of the wing lift slot on both sides of the weldment. Attach nut and jam nut on eye bolt to provide down stop for wing. (Picture 10) It is recommended



Picture 9- Insert wing lift pin.



Picture 10- Wing lug has been assembled.

to tool bar with plastic cable ties or other type retainers to keep hoses in place. Install ties after assembly of machine. Be sure to leave free hose for proper folding motion.

11.) Repeat steps nine (9) and ten (10) to install the second cylinder on the folding frame.

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that you

strap hoses

General Assembly

Place Frame On Suitable Stands:

It is recommended that you first select suitable assembly stands to suspend the tool bar at least 30" above the work-place floor. Regardless of the size of the PrepMaster to be assembled, the frame and assembled tool will be very heavy and hard to handle.



While frame is suspended, this work area will be extremely dangerous!

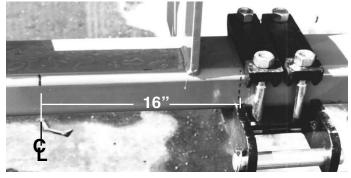
Use good judgement in selecting stable frame stands that will support the tool until assembly is complete. It is also suggested that retaining or clamping devices be used to attach the frame to stands as a safety measure until assembly is complete.

Mark Tool Bar:

Find the center of the tool bar by measuring center stringers. Mark the front tool bar at center and also 16" from either side of the center line for hitch placement. Also mark the front and rear bars for components to be placed on the top of the bed; e.g. for 38" rows place the first mark 19" from center and 38" for each mark thereafter. Add a mark 8" out from the first bed location on each side of center to accommodate side offset shanks for stalk plow assembly. See Figure B, page 11 for details.

Attach Three Point Hitch:

1). Place lower pull points on tool bar with 1 x 6-1/2" bolts and tube cap supplied. (Picture 11) Align the center of the inside pull point plate with the mark at 16". Tighten these bolts and torque to 400 ft. lbs.



Picture 11- Place pull point on tool bar at 16" mark.

2.) Place top link on tool bar with top side up according to decal on top link. Attach with 3/4 x 6-1/2" Grade 5 bolts and tube caps provided. Tighten bolts and torque to 200 Ft. Lbs. Insert pins with proper retainers.

Front Choppers:

1.)Sub-assemble each chopper with shield and straps before you attempt to place them on the tool bar.

(Picture 12) See chopper parts diagram on page 17 for parts identification and location. Bolt flange bearings onto chopper mount shanks with mounting plates to the inside of chopper unit. Insert Chopper shaft into each bearing and tighten set collars. Leave all bolts loose to align unit. Attach shield with lower slotted straps. Bend shield to contour of chopper and attach upper shield with U-Bolts. Align shanks and shield to be square with the chopper and then tighten and torque all bolts. Bolt torque specifications may be found on page 10.



Picture 12- Sub-assemble chopper before attaching to tool bar.

After all choppers are assembled, they will be much easier to handle and mount on the tool bar.

2.) Use a forklift if possible and insert forks under the chopper bearing shaft. Gently move the chopper into position to center over the top of the bed at marked locations.

Raise plates on the mount shanks to attach to the front 4 x 7 tube of the tool bar. (Picture 13) Keep attaching U-Bolts and nuts close for quick access.



Picture 13- Position chopper to mount on the front bar.

General Assembly

Be careful When handling the choppers.



Chopper assemblies are heavy, have sharp edges and potential 'pinch' areas!

Position U-bolts on the tool bar and place nuts to hold the chopper assembly in place. (Picture 14) Measure chopper mount shanks to center the unit on top of the row. Tighten and torque bolts when choppers are properly positioned. Mount all other assembled choppers on tool bar

according to these instructions.



Picture 14: Place U-bolts on tool bar to mount chopper.

Front Bed Conditioners:

1.) Place 4" cap on back tool bar tube at marked location. Insert 3/4 x 6-1/2" Grade 5 bolts in cap with threads down. Raise mount bracket to line up with bolts. (Picture 15) Hold bracket in place and thread nuts onto bolts.

Tighten and torque mounting bolts. See page 18 for parts diagram.

2.) Front bed conditioner is shipped as an assem-

bly. Roll



Picture 15: Raise mount bracket and fasten nuts.

assembled unit in position under the mount bracket. Raise arm and align center pivot with front lower mount bracket holes.



Warning! Never use your finger to align holes. Movement of heavy components can cut your finger off! 3.) Insert
3/4 x 6" Grade
5 bolt through
mount and
pivot. (Picture
16) Snug nylock nut but do
not torque. This
will allow free
pivot movement
of the arm.



Picture 16: Insert bolt through pivot arm.

4.) Remove top jam nuts and spring from front spring rod assembly. Raise back end of bed conditioner and block. Insert threaded rod through mount bracket spring hole and

from bottom side and align bushing with ears on pivot arm. Insert short (3/4 x 4") bolt. (Picture 17) Screw and snug 3/4" nylock jam nut on bolt. Do not overtighten nylock jam nut.



Picture 17: Insert bolt through yoke and screw jack bushing

5.) Place flat washers spring and jam nuts to complete the front screw jack assembly. (Picture 18) See Figure C, page 12 for initial operating settings for screw jacks. Note: There are two different sizes of springs for screw jacks. The large diameter coil springs go on the front screw jack. Smaller coil springs go on the rear screw jacks.



Picture 18: Complete upper spring assembly.

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6.) Place all remaining mount brackets and front bed conditioners on the frame according to steps one (1) through five (5) of front bed conditioner instructions.

Rear Rollers or optional Bed Conditioners:

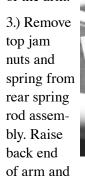
Rear tool on the PrepMaster may be ordered with three different options; the standard smooth faced roller, an expanded metal roller or a rear bed conditioner with reversed spiral blades. Assembly of these rear units will be the same, with the exception of scrapers and spring rod assembly dimensions. See Figure C and parts diagram on page 18.

1.) Rear arm and roller is shipped as an assembly. Roll assembled unit in position to align pivot bushing in arm with the front upper pivot hole of the mount bracket.



Warning! Never use your finger to align holes. Movement of heavy components can cut your finger off!

2.) Insert 3/4 x 6" Grade 5 bolt through mount and pivot. (Picture 19) Snug nylock nut but do not torque. This will allow free pivot movement of the arm.





Picture 19: Insert bolt through roller arm.



Picture 20: Insert bolt through spring rod lug.

roller assembly and block into position.

Insert threaded rod through spring lug on roller arm from bottom side.

Align spring rod lug with lower rear pivot hole on mount

bracket. Insert $3/4 \times 6-1/2$ " Grade 5 bolt through. (Picture 20)

- 4.) Follow rear spring rod procedure on second side of roller and insert bolt through both spring rod lugs on outside of mount bracket. Screw nylock nut snug but do not torque. This will allow free pivot movement of the arm.
- 5.) Place flat washers, spring and jam nuts to complete the rear spring rod assemblies. (Picture 21)



Picture 21: Complete rear spring assembly.

See Figure C, page 12 for initial operating settings for rear screw jacks. Note: Smaller coil springs go on the rear screw jacks.

6.) Repeat steps one (1) through five (5) to mount remaining rear rollers on the PrepMaster.

Front Stalk Plow Shanks and Clamps.

1.) Insert square head set screws into the three locations on each clamp body. See parts diagram on page 22.

Insert shank in clamp body with foot piece facing front. (Picture 22) Tighten side set screw to keep shank in place with top of shank protruding 10" past top of clamp. Place cast clamp body on front of tool bar at marked locations using 7/8 x 9-1/2" bolts. Place tube cap on rear of bar. Tighten and torque 7/8" nuts. Note: leave only one set screw tight. When unit has been lowered off of stands, use a block to accurately set sweep height as specified in Figure C.



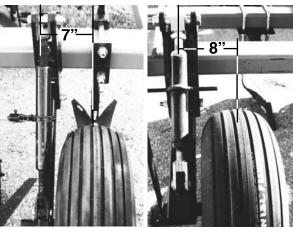
Picture 22: Stalk plow shank on front tube.

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General Assembly (Optional Equipment) Gauge Wheels:

1.) Place mount bracket on tool bar at desired location. See parts diagrams on pages 20 and 21. Use proper mounting bolts and tube cap as indicated. Tire is generally preferred to be positioned in the center of the furrow for stability. Use the dimensions below to position mount bracket properly on the tool bar. (Picture 23, Picture 24) See Figure B, page 11.

Align lower hole in mounting bracket with pivot bushing in arm and hub



assem- *Picture 23: STD G.Wheel Picture 24: XHD G.Wheel* bly. Insert proper bolt and snug nylock nut. Align screw jack with upper mount hole in gauge wheel bracket and insert pin. Fasten pin with proper retainers.

- 3.) Raise arm and hub to attach lower screw jack with screw jack lug on arm and hub. Insert pin and fasten proper retainers.
- 4.) Place wheel on each hub and align wheel holes with threaded holes on hub. Screw lug bolts into hub.
- 5.) Torque mounting bolts and lug bolts. Snug nylock nuts but do not overtighten.

Note:

One Set of Heavy Duty gauge wheels is recommended for **four** and **six row** units.

One set of Extra Heavy Duty gauge wheels is recommended for **eight row rigid** units.

Two Sets of Heavy Duty gauge wheels are recommended for **eight row folding** units.

(One set on Center Section, one on each wing)

One Set of Heavy Duty and one set of Extra Heavy Duty gauge wheels are recommended for **twelve row folding** units.

(One set XHD on Center Section, one HD on each wing.)

Spray Nozzle Kit:

Place upper sleeve with mount bolt through hole in mount bracket. Attach whizlock nut and snug. (Picture 25)





Picture 25: Top sleeve

Picture 26: L-rod and nozzle

See parts diagram on page 22. Place L-rod through upper sleeve and tighten set screw. Place lower sleeve with pipe fittings over lower vertical L-rod. Screw plastic fitting onto lower threaded pipe fitting and tighten to seal. Do not overtighten as housing breakage could occur. Tighten fitting and set screw on sleeve when fitting is positioned for desired spray pattern. (Picture 26) Note: Spray tip and manifold are not supplied by Bigham Brothers. Please consult you local chemical dealer or spray supplier for these specific types of spray equipment.

Optional Front Bedding Shanks and Busters:

Place shank and clamp assembly on the tool bar according to the instructions on page 8. Note exceptions for the set-up of rear bedding shanks are that clamp should be to the rear of the frame tube. (Picture 27) Height setting of

the shanks will vary with buster selection, soil conditions and desired bed shape. Generally, busters should be set flat and set at an operating depth approximately 3 to 4" below operating depth of the choppers. Optional bedding tools may be offset to the rear (Picture 27), straight or side offset to clear frame obstructions for variable row space. See parts diagram on page 23 for a listing of available shanks.



Picture 27: Optional Bedding Shanks

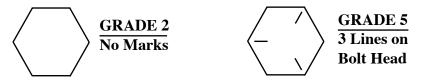
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RECOMMENDED ASSEMBLY TORQUES FOR HEXAGON HEAD CAP SCREWS

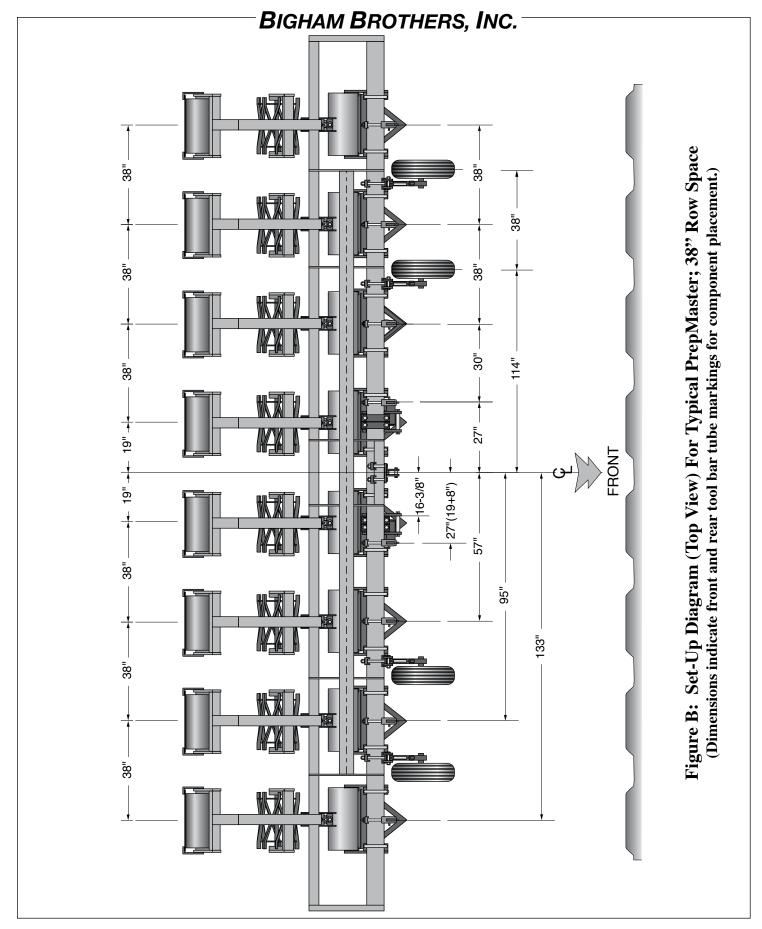
Based on dry assembly. Variables such as lubrication, plating etc. may reduce the values listed below as much as 20%, and must be taken into consideration.

	_	t Cap Scr 8 <mark>Grade</mark>			at Treated 1038 Cap Screws, <u>S</u> A	Č		
Cap	Yield	Recommended Torque (Ft. Lbs.)		Yield Strongth	Tensile		mended	
Screw	Strength PSI Min.	UNC	UNF	Strength PSI Min.	Strength	UNC UNC	Ft. Lbs.)	
Diam.	PSI Min.	UNC	UNF	PSI Min.	PSI MIn.	UNC	UNF	
1/4"	58,000	6	7	90,000	120,000	11	13	
5/16"	58,000	13	14	90,000	120,000	21	23	
3/8"	58,000	23	26	90,000	120,000	38	40	
7/16"	58,000	37	41	90,000	120,000	55	60	
1/2"	58,000	57	64	90,000	120,000	85	95	
5/8"	55,000	111	128	90,000	120,000	175	210	
3/4"	55,000	200	223	90,000	120,000	300	330	
7/8"	55,000	315	340	81,000	115,000	450	490	
1"	50,000	400	460	81,000	115,000	680	715	
1-1/8"	50,000	570	635	77,000	105,000	885	990	

General Formula for calculating Torque is as follows:

Torque in Inch Lbs. = $.2 \times 1$ x Nominal Diameter of Screw x Load in Lbs., where Load = 80% of Yield Strength, expressed in Lbs., not pounds per square inch.

The tension induced in a cap screw may be checked by measuring overall length before torquing and then under torque load. The screw stretches .001" per inch of screw length for each 30,000# P.S.I. induced tension. Applies only to loads below the yield point.



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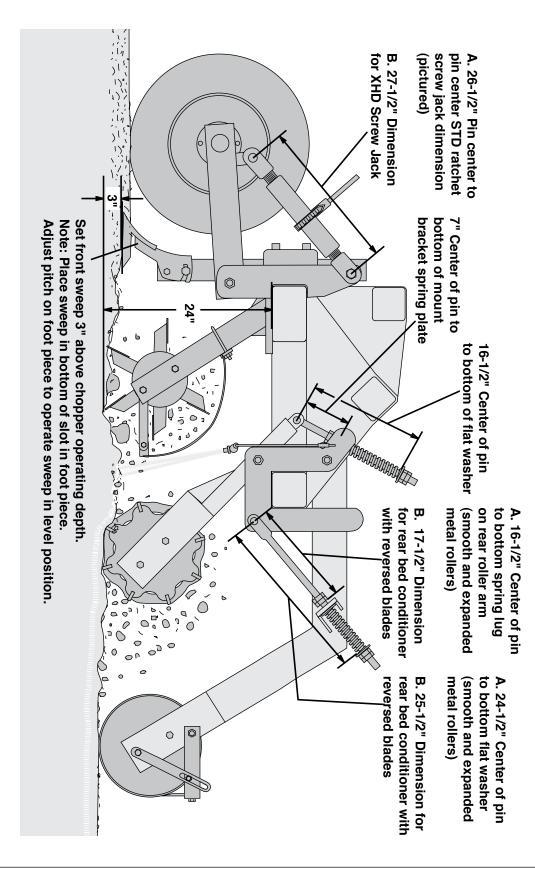


Figure C: Set-Up Diagram (Side View) with Typical Component Adjustment Dimensions (Dimensions indicate components set for field operation based on average field conditions)

Guidelines for Operation Attaching the Tractor to the PrepMaster Choosing the Proper Tractor:

- 1. Check the general specifications of PrepMaster whole goods on page 3 of this manual. Check the weight of the unit to operate and check the lift capacity of the tractor that you intend to attach the PrepMaster to. Keep in mind that listed **weights do not include accessories** such as gauge wheels, additional bedding tools, rear bed conditioners or sweeps. **These units are heavy.** Make certain the selected tractor has ample capacity to pick up and transport the unit that you intend to operate.
- 2. Insure that both right and left lift arms are identical in length and tool bar is level (right to left). They must be equal to achieve uniform operating depth and transport clearance.
- 3. The three-point lift linkage should be locked into the fixed position, not the float position.
- 4. Sway blocks or stabilizing chains should be adjusted to minimize lateral movement.
- 5. Check the tractor for sufficient front end weight to permit constant positive steering at all times.

6. **A** CAUTION **A**

NEVER STAND BETWEEN TRACTOR AND PrepMaster WITH THE TRACTOR ENGINE RUNNING.

7. The three point hitch has been specifically designed to be compatible with Cat. III N and Cat. III Wide quick hitches. (Cat II for four and six row models) If pins do not line up with quick hitch stop and review page 6 of this manual. Make sure the top side of the top link is positioned correctly and check position of pull points on the tool bar.

A. Tractors Equipped with Quick Hitches:

- 1. Attach quick hitch to the PrepMaster and make sure lower pin locks are secured.
- 2. Raise the PrepMaster slightly to permit parking stands to be raised (if equipped).
- 3. When disconnecting the PrepMaster utilize parking stands (if equipped) or blocks to allow the front of the PrepMaster to tilted slightly forward. This will permit easier disconnection and reattaching.

B. Tractors without Quick Hitch:

- Attach lower lift arms of the tractor to the Prep Master with appropriate pins which match the lower lift arms of the tractor.
- 2. Attach top link after connecting lower lift arms. Raise PrepMaster slightly to lift parking stands into operating position (if equipped).

Operation Instructions: Stack Fold Tool Bars

Safety Warnings:

Hydraulic fluid is under high pressure. Be careful when you are close to cylinders, hoses and fittings. Replace or repair leaking or damaged hydraulic components.

A Never use your hands to locate a hydraulic leak. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin.

A Always lower the unit to the ground before performing maintenance or inspections.

A Do not work on components on a raised wing. Never stand under a wing. Stay clear of the machine when raising or lowering wings.

Initial Operation:

- 1.) Place tractor remote fluid volume on the maximum (rabbit) setting. Each cylinder is equipped with restrictors to maintain a safe, stable wing fold speed. **Do not remove restrictors.** Regulate fluid volume to speed up or slow down movement.
- 2.) Never fold or unfold the unit while transporting. Lower the unit to operating position so the ground may support the structure when raising or lowering each wing. Better stability is achieved if you engage both wings at the same time.
- 3.) When operating the unit, place both tractor remote levers controlling tool bar cylinders to the float position. This will protect cylinders and folding structure during operation.

After Operation:

Never park the unit with the wings in the raised position. Lower each wing and put the remotes in the float position before detaching hoses and hitch from the tractor.

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Field Use and Adjustments: NEVER ALLOW ANYONE TO RIDE ON THIS EQUIPMENT **DURING OPERATION.**

TO AVOID INJURY, DO NOT **CLEAN, ADJUST OR SERVICE** WHEN MACHINE IS IN MOTION

- 1.) Level the frame front to back by lengthening or shortening the top link of the tractor.
- 2.) Set the front stalk sweep to run at half the chopper operating depth, i.e. if chopper is operating at 4" depth, set front sweep to run at 2" depth. Set the PrepMaster on a level surface and use blocks to accurately set sweep height. See Figure C, page 12 for initial settings.

Place sweep in the bottom of the foot piece slot. Sweep mounted in the middle or upper portion of slot will leave an inconsistent indentation (divot) in the center of the seedbed. In field conditions with tall, peaked beds it may be necessary to adjust sweep nose down in order to move enough dirt to flatten the seedbed.

3.) Use jam nuts to lock top and bottom of spring movement on front bed conditioner. When unit is operating in the field, both front and rear spring jacks should have

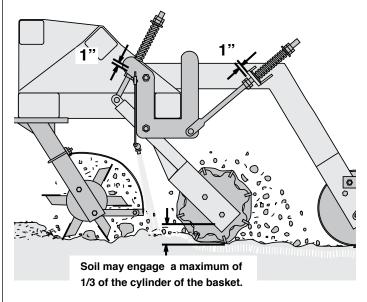


Figure D: Center basket and spring rod adjustment.

approximately 1" of play on the lower side of the spring. (Figure D) As a general rule one third of the bed conditioner cylinder should engage the soil on top of the bed. Excessive spring pressure on front bed conditioner or rear roller can result in the basket or roller 'balling up' with moist soil. Excessive pressure on front basket or rear roller can hold the unit out of the ground and act as an independent gauge wheel. Soil contact and motion will be adversely affected.

- 4.) Gauge wheels may be set to determine the finished height of the seedbed. Initial setting in Figure C, page 12 will produce a flat bed with a small furrow. Raise gauge wheels (increase screw jack length) for a taller bed shape. Lower gauge wheels (reduce screw jack length) for a shorter, flatter bed.
- 5.) Maximum speed is 10 mph. Optimum operating speed is 5+ miles per hour. Lower speeds generally result in a less aggressive soil engagement and incorporation. Producers have expressed a preference to operate the PrepMaster at the same speed as the planter, with both units running at a consistent interval. This interval varies with soil conditions and user preference. The most common intervals put the PrepMaster operating one round (12 -24 rows) to five hours in front of the planter. Longer time ranges allow top crust to dry and act as an abrasive to keep double disc openers clean on the subsequent planting operation in moist soils.
- 6.) Always raise the implement completely out of the ground when backing up or making sharp turns in field operation. This will prevent damage to components such as roller arms.
- 7.) Two essential elements are critical to good chemical incorporation on a seedbed. Loose soil to be worked on a seedbed as flat as possible will allow incorporation at a consistent 2" to 3" depth, depending on soil conditions and depth setting of the PrepMaster. Consult with your local chemical dealer for recommendations concerning herbicides or other chemicals, application rates and specific application equipment.

Ag chemicals can be dangerous. Always follow safety precautions of the chemical manufacturer and use the recommended safety equipment.

P.O. Box 3338

Maintenance Instructions

Periodic maintenance and inspections will pay dividends.

Bolts:

1.) Check all bolts after one hour of service. Pay particular attention to mounting bolts for the hitch, chopper and combination basket/roller unit. Check pivot bolts on basket and roller unit as well as shield and bearing mount bolts. Check that all retainers on pins are properly attached. Always tighten loose bolts. See bolt torque chart on page 10. Replace worn, broken or missing fasteners.

Lubrication:

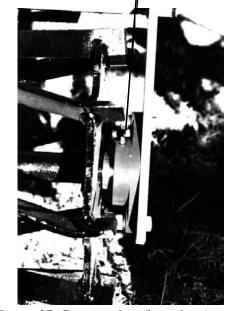
Bearings: Visually inspect each grease zerk to make sure fitting is tight before beginning operation.

Do not over grease bearings on the unit. Use a hand grease gun. Failure

to follow these procedures could result in bearing failures. As a general rule, grease each bearing weekly. Two greasable bearings are on each chopper, center bed conditioner and rear roller for each row. (Picture 27)

Gauge Wheel Hubs: Clean and

repack bearings annually.



Picture 27: Grease zerk on flange bearing

Tires:

Maintain gauge wheel tire pressure at 30-35 PSI.

Sweeps:

Inspect each sweep daily. Replace worn or broken sweeps.

Scrapers:

Inspect scrapers daily. Keep scrapers adjusted to keep rear roller clean. Replace scraper blade when blade is worn and will not maintain contact with roller.

Storage Information (Direct Fold Tool Bars)



Never park the unit with the wings in the elevated position.



Stay clear of folding wings when being raised or lowered.



Raised wings can contact electric utility lines and overhead obstructions. Severe shock, injury or death can result. Drive carefully. Measure overall trans port height and assure clearance.

Recommended Storage Procedure:

- 1.) After field use, find a suitable location for storage (Clear and reasonably level).
- 2.) Extend cylinder of each wing to lower tool bar to flat position.
- 3.) Place tractor remote lever to the float position to relieve pressure from the cylinder.
- 4.) Remove the cylinder clevis pin from each of the wings. Keep 1" spacer flat washers on the pin for storage.
- 5.) Retract cylinder on each wing. This will protect the chrome finish on the rod of the cylinder for extended storage periods.
- 6.) Before disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure. Remove quick tips from the remote plug sockets.

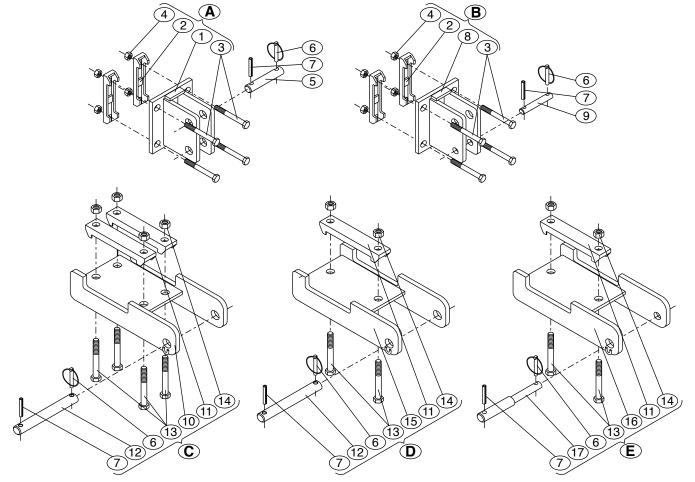
Alternate Temporary Storage Procedure:

- 1.) Find a suitable location for storage (Clear and reasonably level).
- 2.) Extend cylinder of each wing to lower tool bar to flat position.
- 3.) Before disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure. Remove quick tips from the remote plug sockets.

These procedures must be explained to and followed by end operators to avoid injury and equipment damage.

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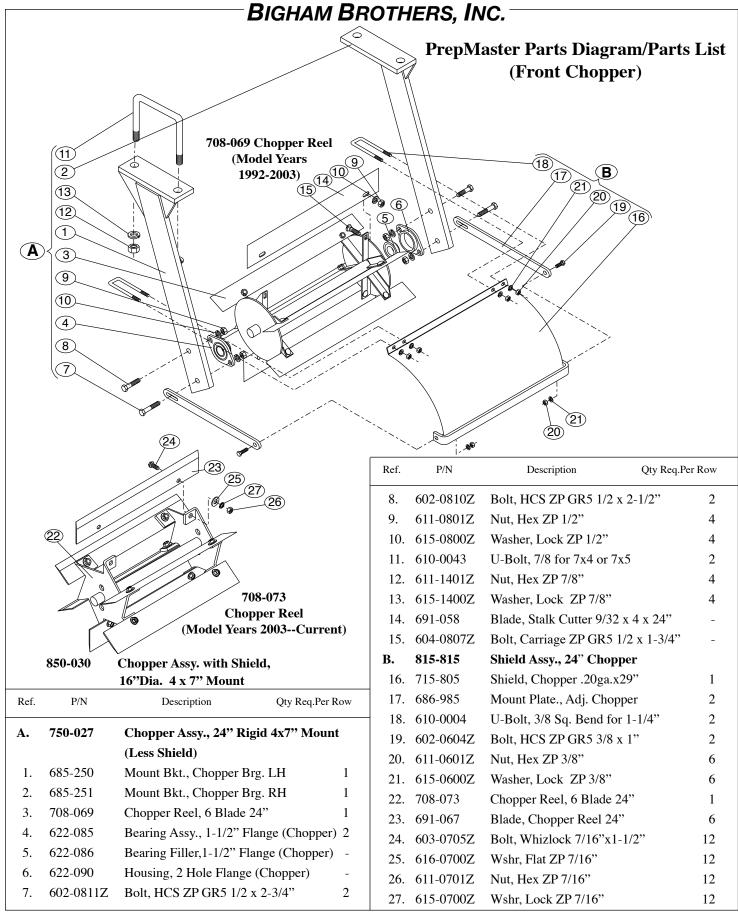
Parts Diagram/Parts List (Three Point Hitch)



804-743 Hitch, 4x7 Bar (Cat III Wide) 804-743D Hitch, 4x7 (Cat III) Double Cap

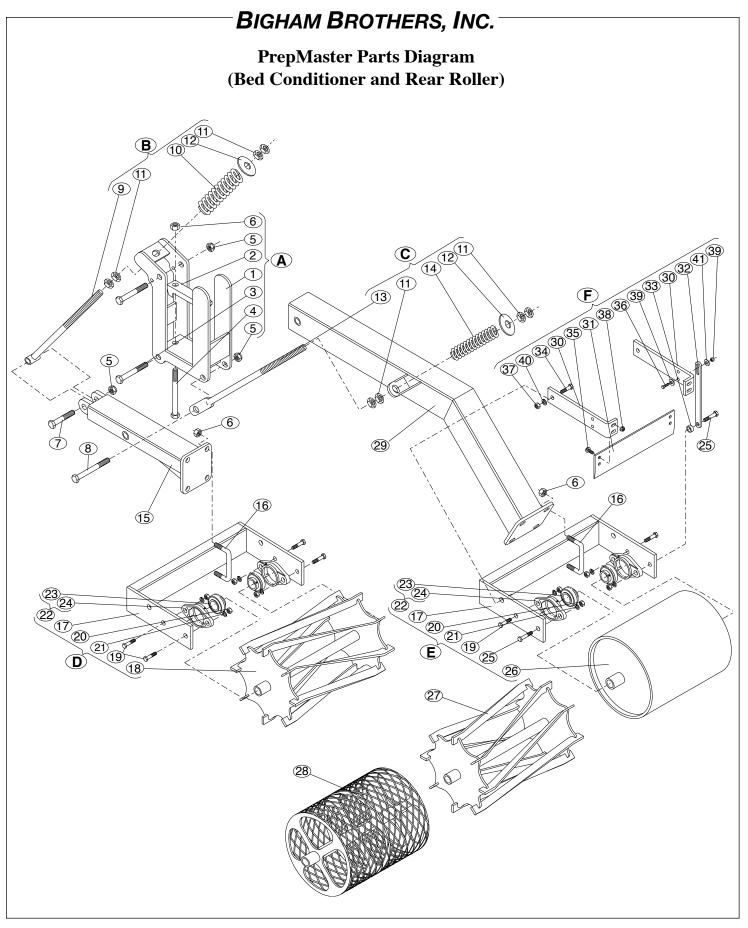
	,	(, :		I-
804-740	Hitch.	4x7 Bar	(Comb	II & II	I)

Ref.	P/N	Description (Qty. Req. Per Hitch	Ref.	P/N	Description	Qty. Req. Per Hit	ch
A	804-301	Top Link Assy Cat III		11.	628-308	Cap, 7" Bar 1" Bolt Hole	(Cast)	4
1.	704-301	Bracket, Top Link Cat. III	1	12.	617-196	Pin, Clevis Cat III Wide P	.P.	2
2.	628-400	Cap, 4" 7/8 & 1" Bolt Holes	s 2	13.	601-1626Z	Bolt, HCS ZP GR2 1 x 6-	1/2"	8
3.	602-1426Z	Bolt, HCS ZP GR2 7/8x6-1/	2" 4	14.	611-1601Z	Nut, Hex ZP 1"		8
4.	611-1401Z	Nut, Hex ZP 7/8"	4	D.	804-719W	Pull Pt. Assy 4x7 Cat.III	Wide	
5.	617-190	Pin, Clevis Cat III Top Link	s 1	15.	704-727	Bkt., Pull Pt 4x7 (Cat. III)		2
6.	617-105	Klik Pin, 7/16 x 2"	1	E.	804-717	Pull Pt Assy, 4x7 LH (Co		
7.	617-053	Pin, Roll 7/16 x 2-1/4"	1		804-718	Pull Pt Assy, 4x7 RH (Co	ŕ	
В.	804-300	Top Link Assy, Comb. II &	& III			Pictured	,	
8.	704-300	Bracket, Top Link Comb.II	& III 1	16.	704-742	Bkt., Pull Point 4x7 Comb	LH	2
9.	617-164	Pin, Clevis Cat II Top Link	1		704-743	Bkt., Pull Point 4x7 Comb		2
С.	804-710	Pull Pt. Assy 4x7 IIIW Db	l. Cap	17.	617-200	Pin, Clevis Comb.II & III		2
10.	704-727D	Bkt, Pull Pt. 7"Cat.III Doub	ole Cap 2		22. 200	, Joinoli W 111		_



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BIGHAM BROTHERS, INC.PrepMaster Parts List

(Bed Conditioner and Rear Roller)

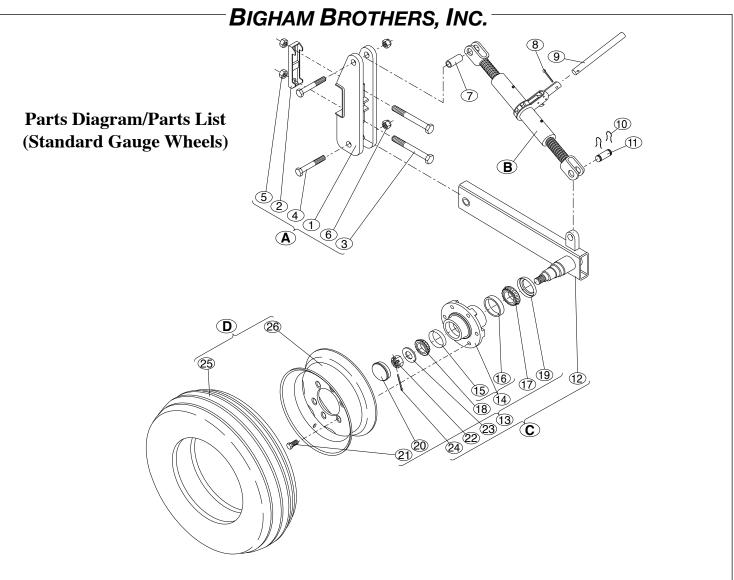
Bed Cond./Faced Roller Assy., 4x4" Mount 886-300 886-305 Bed Cond./Rear Basket w/Rev. Blades, 4x4" Mt. 886-310 Bed Cond./Exp. Metal Roller Assy., 4x4" Mount

Ref.	P/N	Description Q	y Req.*	Ref.	P/N	Description Qty	y Req
A.	785-245	Mount Assy., 4x4" Cond./Roller	1	E.	785-607	Yoke & 21" Faced Roller Assy.	1
1.	685-245	Mount Bkt., 4x4" Conditioner/Roll	ler 1		785-606	Yoke/Basket Assy. w/Reverse Blad	le 1
2.	628-200	Cap, 4" 3/4 Bolt Holes	1		785-608	Yoke/ 21" Exp. Metal Roller Assy.	1
3.	602-1224Z	Bolt,HCS ZP GR5 3/4x6"	2	17.	685-321	Yoke Weldment, 21" Bed Cond.	1
4.	602-1226Z	Bolt,HCS ZP GR5 3/4x6-1/2"	3	19.	602-0808Z	Bolt, HCS ZP GR5 1/2x2"	2
5.	613-1215J	Nut, Hex Nylock Jam ZP 3/4"	2	20.	611-0801Z	Nut, Hex Zp 1/2"	4
6.	611-1201Z	Nut, Hex ZP 3/4"	2	21.	615-0800Z	Washer, Lock ZP 1/2"	4
7.	602-1216Z	Bolt,HCS ZP GR5 3/4x4"	1	22.	622-084	Bearing Assy. 1-1/2" Flange	2
8.	602-1228Z	Bolt,HCS ZP GR5 3/4x7"	1	23.	622-087	Bearing Filler,1-1/2" PrepMaster	-
				24.	622-091	Housing, 2 Hole Flange	-
В.	785-230	Screw Jack Assy., Front Bed Cor	d. 1	25.	602-0810Z	Bolt, HCS ZP GR5 1/2x2-1/2"	2
9.	685-230	Threaded Rod W/Bushing (19")	1	26.	686-210	Pipe Roller,12-3/4"O.D.x19-3/4"	1
10.	633-030	Spring, Stab./PrepMaster (Front)	1	27.	685-205R	Basket Wlmt., 8 Blade 21" Wide	1
11.	614-1601Z	Nut, Hex Jam ZP 1"	4			w/Reverse Blades	
12.	616-1605Z	Washer, Flat 1" S.A.E.	1	28.	686-212	Exp. Metal Roller,12-3/4"x19-3/4"	1
c.	785-235	Screw Jack Assy., Rear Roller	2	29.	685-303	Arm Weldment 4x4,Roller/Cond.	1
11.	614-1601Z	Nut, Hex Jam ZP 1"	4				
12.	616-1605Z	Washer, Flat 1" S.A.E.	1	F.	886-985	Scraper Assy., 21" Rear Roller	
13.	685-236	Threaded Rod W/Lug (31")	1	30.	686-983	Bracket, Univ. Scraper (21" Roller)	2
14.	633-025	Spring, PrepMaster (Rear)	1	31.	686-987	Scraper Blade,9/32x4x22-1/2"	1
				32.	686-985	Mount Plate., Lower Scraper Adj.	2
15.	685-302	Arm Weldment 2x4",Bed Cond.	1	33.	636-869	Bushing, 84x.546x.5 Scraper Mt.	2
16.	610-0037	U-Bolt, 3/4 For 4x2 GR5	4	34.	602-1008Z	Bolt,HCS ZP GR5 5/8 x 2"	2
				35.	603-0705Z	Whizlock Bolt ZP 7/16x1-1/2"	4
D.	785-605	Yoke & 21" Basket Assy.	1	36.	602-0606Z	Bolt,HCS ZP GR5 3/8x1-1/2"	2
17.	685-321	Yoke Weldment, 21" Bed Cond.	1	37.	611-1001Z	Nut, Hex ZP 5/8"	2
18.	685-205	Basket Weldment, 21"Wide/16" D	ia. 1	38.	614-0701Z	Nut, Hex Whizlock ZP 7/16"	4
19.	602-0808Z	Bolt, HCS ZP GR5 1/2x2"	4	39.	611-0601Z	Nut, Hex ZP 3/8"	2
20.	611-0801Z	Nut, Hex Zp 1/2"	4	40.	615-1000Z	Washer, Lock ZP 5/8"	2
21.	615-0800Z	Washer, Lock ZP 1/2"	4	41.	616-0600Z	Washer, Flat ZP 3/8"	2
22.	622-084	Bearing Assy. 1-1/2" Flange	2				
23	622-087	Bearing Filler,1-1/2" PrepMaster	-				
25.		- *					

*Note: Quantities listed in bold type are assembly quantities required per row.

Quantities listed in standard type are part quantities required per assembly.

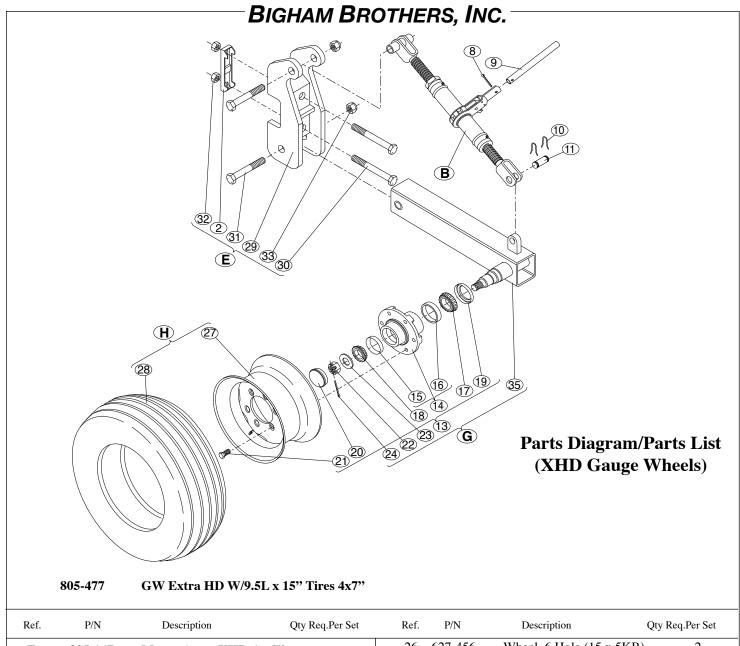
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805-478	GW Hvy. Duty W/9.5L x 15" Tires 4x7"
	- · · · J J · · · ·

05-080 05-017L 05-017R	Mount Assy., 4 X 7" Screw Jack (Ratchet) Shank/Hub Assy. LH Shank/Hub Assy. RH (Pictured Wheel & Tire 6 Hole (7.60 X 15		8. 9. 10. 11.	617-026 617-110 617-160 617-160	Pin, Cotter 1/4 x 2" Tube, 7/8 x 12" (Jack Handle) Hairpin, 3/16 x 2" 1" I.D.	2 2 4
05-017L 8	Shank/Hub Assy. LH Shank/Hub Assy. RH (Pictured	1 1	10.	617-160	Hairpin, 3/16 x 2" 1" I.D.	4
05-017R	Shank/Hub Assy. RH (Pictured	1			•	
	·		11.	617-160	D. CI . ZD 1 AN HCDI	2
05-001	Wheel & Tire 6 Hole (7.60 X 15			31. 100	Pin, Clevis ZP 1 x 2" USBL	2
	White a The o Hole (7.00 M le	5) 2	12.	705-016L	Shank/Spindle, LH	
05-047	Mount Bkt., 4"	2		705-016R	Shank/Spindle, RH (Pictured)	
28-400	Cap, Cast 4" HD	2	13.	627-160	Hub Assy., 6 Hole Q888	
09-1438Z	Bolt, HMB ZP 7/8 x 9-1/2"	4	14.	627-159	Hub/Cups., 6 Hole Q888	
01-1218Z	Bolt, HCS ZP GR2 3/4 x 4-1/2"	4	15.	622-006	Cup, 67010	
11-1401Z	Nut, Hex ZP 7/8"	4	16.	622-008	Cup, 69310	
13-1200Z	Nut, Hex Nylock ZP 3/4"	4	17.	622-009	Bearing Cone, 69349	
17-250	Bushing, Clevis Std. G.W.	2	18.	622-007	Bearing Cone, 67048	
2 0 1	18-400 19-1438Z 11-1218Z 11-1401Z 13-1200Z	28-400 Cap, Cast 4" HD 19-1438Z Bolt, HMB ZP 7/8 x 9-1/2" 11-1218Z Bolt, HCS ZP GR2 3/4 x 4-1/2" 11-1401Z Nut, Hex ZP 7/8" 13-1200Z Nut, Hex Nylock ZP 3/4"	28-400 Cap, Cast 4" HD 2 19-1438Z Bolt, HMB ZP 7/8 x 9-1/2" 4 11-1218Z Bolt, HCS ZP GR2 3/4 x 4-1/2" 4 11-1401Z Nut, Hex ZP 7/8" 4 3-1200Z Nut, Hex Nylock ZP 3/4" 4	18-400 Cap, Cast 4" HD 2 13. 19-1438Z Bolt, HMB ZP 7/8 x 9-1/2" 4 14. 11-1218Z Bolt, HCS ZP GR2 3/4 x 4-1/2" 4 15. 1-1401Z Nut, Hex ZP 7/8" 4 16. 3-1200Z Nut, Hex Nylock ZP 3/4" 4 17.	18-400 Cap, Cast 4" HD 2 13. 627-160 19-1438Z Bolt, HMB ZP 7/8 x 9-1/2" 4 14. 627-159 11-1218Z Bolt, HCS ZP GR2 3/4 x 4-1/2" 4 15. 622-006 1-1401Z Nut, Hex ZP 7/8" 4 16. 622-008 13-1200Z Nut, Hex Nylock ZP 3/4" 4 17. 622-009	28-400 Cap, Cast 4" HD 2 13. 627-160 Hub Assy., 6 Hole Q888 19-1438Z Bolt, HMB ZP 7/8 x 9-1/2" 4 14. 627-159 Hub/Cups., 6 Hole Q888 11-1218Z Bolt, HCS ZP GR2 3/4 x 4-1/2" 4 15. 622-006 Cup, 67010 1-1401Z Nut, Hex ZP 7/8" 4 16. 622-008 Cup, 69310 3-1200Z Nut, Hex Nylock ZP 3/4" 4 17. 622-009 Bearing Cone, 69349

Page 20 (OUC) Form # B07-1PM

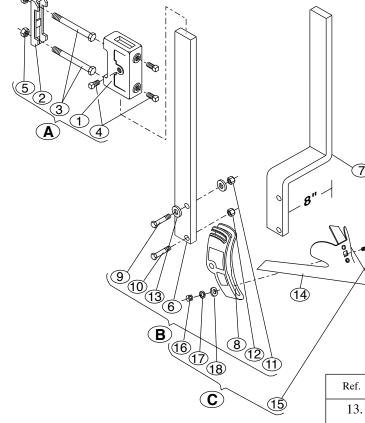


Ref.	P/N	Description (ty Req.Per Set	Ref.	P/N	Description	Qty Req.Per Set
F.	805-147	Mount Assy., XHD 4 x 7"	-	26.	627-456	Wheel, 6 Hole (15 x 5KB)	2
F.	705-085	Screw Jack, XHD	2	27.	627-460	Wheel, 6 Hole (15 x 8LB)	2
G.	705-039L	Shank/Hub Assy., XHD LH	1	28.	627-569	Tire, 9.5L x 15"	
	705-039R	Shank/Hub Assy., XHD RH	I (Pict.) 1	29.	705-060	Mount Bkt., 4" XHD	2
н.	705-002	Wheel & Tire 6 Hole (9.5L	x 15) 2	30.	609-1640Z	Bolt, HMB ZP 1 x 10"	4
19.	623-002	Seal, Q888 Hub (16289)		31.	602-1626Z	Bolt, HCS ZP GR5 1 x 6-1	/2" 4
20.	627-560	Cap, Dirt Q888 Hub		32.	611-1601Z	Nut, Hex ZP 1"	4
21.	607-0805Z	Bolt, Lug ZP 1/2 x 1-1/4"		33.	614-1601Z	Nut, Hex Nylock ZP 1"	4
22.	614-1407	Nut, Hex Slotted 7/8" N.F.		34.	617-010	Zerk, 1/4" Drive	2
23.	616-1400	Bushing, Mach. 7/8" x 14 Ga.		35.	705-018L	Shank/Spindle, XHD LH	
24.	617-020	Pin, Cotter 5/32 x 1-1/2"			705-018R	Shank/Spindle, XHD RH (Pictured)
25.	627-750	Tire, 7.60 x 15"					

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Parts Diagram/Parts List

(Front Stalk Plow Shank, Optional Sweep and Nozzle Kit)



Ref.	P/N	Description Qty.	Req. Per Row
A.	806-473	Clamp, 4x7 For 1x3 Shank	
1.	628-700	Body, Clamp 4" 1x3 Shank	1
2.	628-400	Cap, 4" 7/8 & 1" Bolt Holes	1
3.	609-1438Z	Bolt, HMB ZP 7/8 x 9-1/2"	2
4.	606-1006Z	Set Screw, Sqr Hd. ZP 5/8 x 1-1	/2" 3
5.	611-1401Z	Nut, Hex ZP 7/8"	2
В.	705-300	Shank Assy.,1x3x34" Alloy	
	705-308	Shank Assy.,1x3 S.O. LH (8")	
	705-309	Shank Assy.,1x3 S.O. RH (8")	Pictured
6.	631-300	Shank, 1 x 3 x 34"	1
7.	631-308	Shank, Side Offset 1x3 LH (8")	1*
	631-309	Shank, Side Offset 1x3 RH (8")	1*
8.	628-003	Foot Piece, For 1x3 Shank	1
9.	601-1012Z	Bolt, HCS ZP GR2 5/8 x 3"	1
10.	601-0811Z	Bolt, HCS ZP GR2 1/2 x 2-3/4	" 1
11.	611-1001Z	Nut, Hex ZP 5/8"	1
12.	611-0801Z	Nut, Hex ZP 1/2"	1

Ref.	P/N	Description Qty. Req.	Per Row
13.	616-1000Z	Wshr., Flat ZP 5/8"	2
14.	638-086	Sweep, 16" Winged PrepMaster	1
	638-090	Sweep, 20" Winged PrepMaster	
	638-014	Sweep, Cultivator 14"	
	638-016	Sweep, Cultivator 16"	
	638-018	Sweep, Cultivator 18"	
	638-020	Sweep, Cultivator 20"	
Man	y Other Swee	ep Sizes And Types Are Available.	
C.	638-095	Bolt, Nut & Wshr. Pack, Winged Sv	veep
15.	604-1224Z	Bolt, Crg. ZP GR5 3/4 x 6"	1
16.	611-1201Z	Nut, Hex ZP 3/4"	1
17.	615-1200	Wshr., Lock 3/4"	1
18.	616-1202Z	Wshr., Flat ZP 3/4" (Heavy)	1
D.	885-260	Nozzle Kit, 21"Bed Cond (No Tip)	
19.	685-260	L-Rod,3/8" Nozzle Placement	1
20.	685-262	Sleeve W/Mount Bolt (L-Rod Mnt.)	1
21.	685-264	Sleeve W/Pipe 1/4"MP (Nozzle)	1
22.	685-270	Single Swivel,1/4"FP (Less Tip)	1
		Set Screw, Sqr. Hd. ZP 7/16 x 3/4"	2
	685-271	Cap, Nylon (Nozzle Kit)	1
25.	614-0701Z	Nut, Hex Whizlock ZP 7/16"	1

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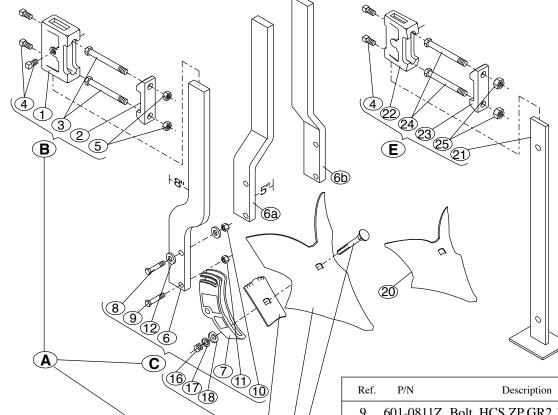
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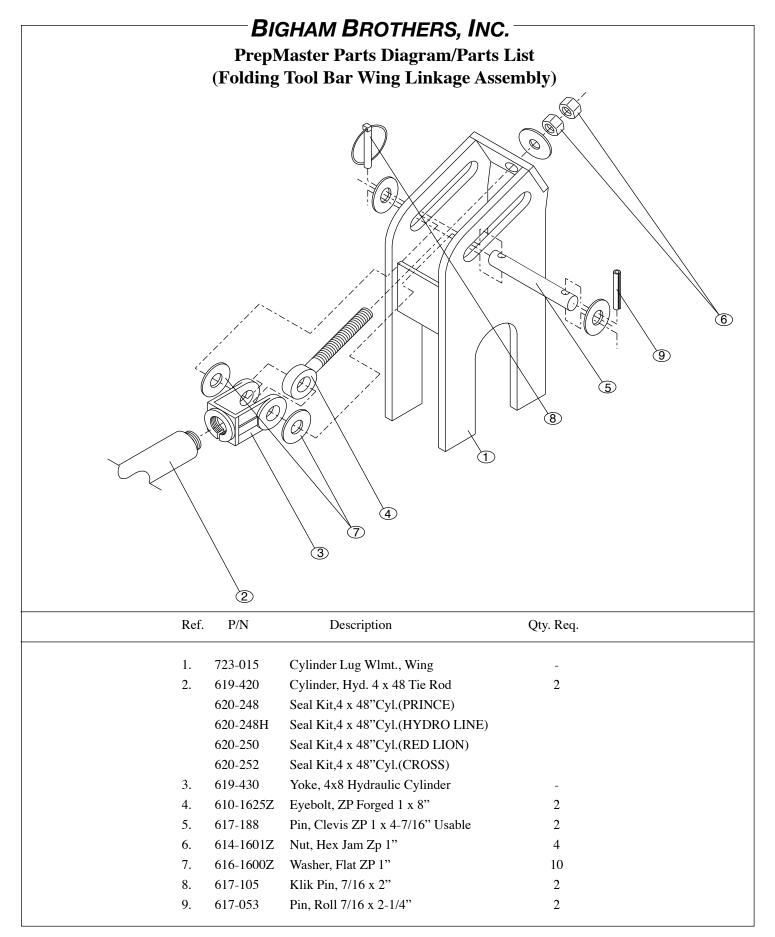
Ref.	P/N	Description Qty Req	Qty Req.Per Row	
A.	870-200	Shank, Clamp & Buster Kit 1x3;#346		
В.	806-473	Clamp, 4x7 For 1x3 Shank		
1.	628-700	Body, Clamp 4" 1x3 Shank	1	
2.	628-400	Cap, 4" 7/8 & 1" Bolt Holes	1	
3.	609-1438Z	Bolt, HMB ZP 7/8 x 9-1/2"	2	
4.	606-1006Z	Set Screw, SQR HD ZP 5/8x1-1/2'	, 3	
5.	611-1401Z	Nut, Hex ZP 7/8"	2	
С.	705-303	Shank Assy,1x3 Rear Offset		
	705-301	Shank Assy.,1x3 S.O. LH (5")		
	705-302	Shank Assy.,1x3 S.O. RH (5")		
6.	631-303	Shank, 1x3 Rear Offset	1	
6a.	631-301	Shank, 1x3 Side Offset LH	1	
6b.	631-302	Shank, 1x3 Side Offset RH	1	
7.	628-003	Foot Piece, For 1x3 Shank	1	
8.	601-1012Z	Bolt, HCS ZP GR2 5/8 x 3"	1	

(13)

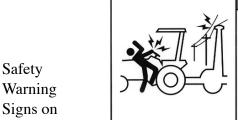
(D)

Ref.	P/N	Description Qty l	Qty Req.Per Row	
9.	601-0811Z	Bolt, HCS ZP GR2 1/2 x 2-3/4"	1	
10.	611-1001Z	Nut, Hex ZP 5/8"	1	
11.	611-0801Z	Nut, Hex ZP 1/2"	1	
12.	616-1000Z	Wshr., Flat ZP 5/8"	2	
D.	870-150	Buster,Block & Bolt Kit #346		
13.	638-350	Bolt, Nut & Washer Pack for 34	16	
14.	636-995	Block, Buster for #346	1	
15.	604-1220Z	Bolt, Crg. ZP GR5 3/4 x 5"	1	
16.	611-1201Z	Nut, Hex ZP 3/4"	1	
17.	616-1202Z	Washer, Flat ZP (Heavy) 3/4"	1	
18.	615-1200Z	Wshr., Lock ZP 3/4"		
19	638-346	Lister Bottom, # 346		
20.	638-111	Lister Bottom, # 11W		
E.	814-966	Stand Assy. 4 x 4" (Set Screw L	ock)	
	814-967	Stand Assy. 4 x 7" (Set Screw L	ock)	
21.	636-975	Stand, 3/4 x 2-1/2 x 44"	1	
22.	636-980	Clamp Body, 4" for 3/4"Shank	1	
23.	628-200	Cap, 4" 3/4 Bolt Holes (Cast)	1	
24.	601-1226Z	Bolt, HCS ZP GR2 3/4 x 6-1/2"	2	
24.	609-1238Z	Bolt, HMB ZP 3/4 x 9-1/2"	2	
25.	611-1201Z	Nut, Hex ZP 3/4"	2	

(806) 745-0384 705 E. Slaton Rd. P.O. Box 3338 Lubbock, TX 79452



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Front of

Tool Bar

Mast:

Folding

Tool Bars

DANGER

ELECTROCUTION HAZARD

To prevent serious injury or death:

- Stay away from power lines when transporting, extending or folding implement.
- Electrocution can occur without contacting power lines.



WARNING

FRAME PINCH POINT HAZARD KEEP AWAY

To prevent serious injury or death from

- · Stay away from frame hinge area when folding wings.
- Keep others away.
- . Do not fold wings when bystanders are

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WARNING



OVERHEAD WING HAZARD

To prevent serious injury or death:

- . Stay away from wings when they are raised or are being lowered.
- Keep others away.
- · Lock in up position before transport or service.

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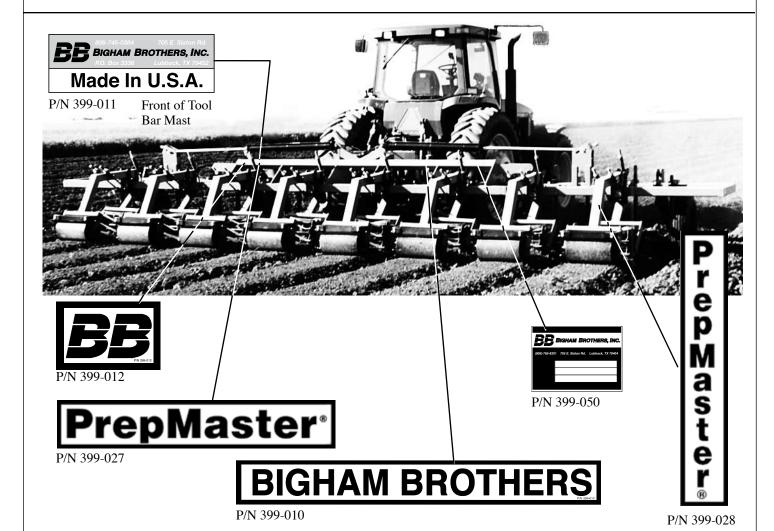
WARNING

HIGH-PRESSURE FLUID HAZARD

To prevent serious injury or death:

- Relieve pressure on hydraulic system before servicing or disconnecting hoses.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

P/N 399-044



(806) 745-0384

705 E. Slaton Rd.

P.O. Box 3338

Lubbock, TX 79452

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Notes:	BIGHAM BROTHERS, INC.					
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