

Belly Blade

Installation Instructions

Massey Ferguson 4707

Without Cab

Purchase Date	
Serial Number	
Model Number	
Tractor Model	
Dealer	

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Bolt Torque Specifications

Bolt Dia.	Thread	Grade 5	Grade 8
(inch)	per inch	Torque (ft·lbs.)	Torque (ft·lbs.)
1/4	20	8	12
1/4	28	10	14
5/16	18	17	25
5/16	24	19	29
3/8	16	30	45
3/8	24	35	50
7/16	14	50	70
7/16	20	55	80
1/2	13	75	110
1/2	20	90	120
9/16	12	110	150
9/16	18	120	170
5/8	11	150	220
5/8	18	180	240
3/4	10	260	380
3/4	16	300	420
7/8	9	430	600
7/8	14	470	660
1	8	640	900
1	12	710	990

Bolt Dia.	Ditala	Grade 8.8	Grade 10.9
(mm)	Pitch	Torque (ft·lbs.)	Torque (ft·lbs.)
4	0.70	2	
5	0.80	4	
5	1.00	7	11
7	1.00	12	
8	1.25	17	26
8	1.00	18	
10	1.50	35	51
10	1.20	37	
10	1.00	39	
12	1.75	59	88
12	1.50	62	
12	1.25	65	
14	2.00	94	139
14	1.50	101	
16	2.00	146	210
18	2.50	210	
20	2.50	292	
22	2.50	398	
44	3.00	503	

Kit Inventory

Qty.	PN	Description
3	16-1620040	16mm x 2.0mm x 40mm Hex Bolt Gr 10.9
7	16-1620050	16mm x 2.0mm x 50mm Hex Bolt Gr 10.9
4	16-20219	3/4" x 2-1/4" Hex Bolt Gr 5 NC
4	16-21218	3/4" x 2" Carriage Bolt Gr 5 NC
3	16-35C612	3/8" x 3/4" Flanged Bolt
4	16-35C616	3/8" x 1" Flanged Bolt
4	16-3651	20mm x 2.5mm x 150mm Hex Bolt Gr 10.9
3	16-812520	8mm x 1.25mm x 20mm Hex Bolt Gr 10.9
1	18-43142-L	Bracket, Rear
1	18-43142-R	Bracket, Rear
2	18-43146	Bracket, Front
1	18-43149	Bracket, Valve Support
2	31-34183	Male Elbow 45° JIC x Metric (7802-8-18)
1	31-43417-10-10	-10 Male JIC to -10 ORFS Male (FS-7403-10-10)
1	31-2406-10-08	JIC Reducer Expander (2406-10-08)
1	31-34050	Straight Thread Elbow 90° JIC x O-Ring
2	31-34051	Straight Thread Elbow 90° JIC x O-Ring
1	35-43418-0720	-8 FJIC x -8 FJIC - 5/8" Hose - 72"
1	35-43418-0960	-8 FJIC x -8 FJIC - 5/8" Hose - 96"
1	35-43418-1000	-8 FJIC x -8 FJIC - 5/8" Hose - 100"
1	44-43150	Plate, Valve Mount
1	54-43145	Massey 4700 Series UC
1	56-10200-5	Belly Blade Valve System
12	57-20747	3/4" Flat Washer
4	57-20757	3/4" Flat Washer - 1-1/2" OD
4	57-20792	3/8" Fender Washer
10	57-20825	16mm Flat Washer
8	70-20607	3/4" Center Lock Hex Nut Gr 2 NC
4	70-20612	3/8" Nyloc Hex Nut Gr. 5

Blad	le Assembly - Sh	ipment includes one of the following
Qty	PN	Description
1	15-10300-60	6 ft. Moldboard
1	15-10300-70	7 ft. Moldboard
1	15-10300-80	8 ft. Moldboard
1	15-10300-90	9 ft. Moldboard
1	15-10300-100	10 ft. Moldboard

General Information

Locate the Belly Blade assembly identification number and record the information on the front of this manual. This will be needed when contacting any service center or your dealer.



Using Your Manual

Read this manual completely prior to assembling to help you and others avoid injuries. This manual provides information on the proper way of installing the Belly Blade to prevent injuries and any machine damage.

These instructions show the Belly Blade installation process with the tractor on a hoist. All references to the tractor or undercarriage are taken from the view at the tractor's seat.

Your machine may vary slightly from the machine in this manual, but the same installation procedure will be compatible.

Important Messages

This manual contains messages that will bring attention to potential safety concerns and machine damage. Read all of the information carefully and thoroughly to avoid injury and machine damage. Below is an example.



Caution



Avoid Injury! This text will explain the possible hazards or death to the bystanders or the operator if the correct procedures are ignored.

Safety Information

- **1.** Wear protective eye wear.
- 2. Always block tractor safely.
- **3.** Engage parking break before raising the tractor.
- 4. Follow all tractor manufacturing safety recommendations when working on the tractor.

Accident Prevention

An accident prevention program can be successful when a responsible equipment operator is cooperating. An operator can prevent accidents when they accept a full measure of their responsibility. The designers, manufacturers, and engineers can help, but a single careless act by the operator can outweigh all of their efforts.

No equipment can be safer than the person running the controls. A careful, informed operator is the best safety device.

Preparing Tractor For Installation

- 1. Park the tractor on a smooth, level surface.
- 2. Set parking brake and block front tires to keep from rolling.
- 3. Disconnect the battery.

Note: To ease assembly, remove rear tires and support the tractor safely.

IMPORTANT: Raise the tractor high enough for the undercarriage to fit under the rear axle when installing the undercarriage.

- **4.** The Belly Blade will arrive on a pallet. Unwrap and set the blade aside. Remove the undercarriage assembly from the pallet.
- **5.** Check the inventory and ensure that all parts are included with the Belly Blade Kit. If any parts are missing, contact your dealer.
- **6.** If the rear tires are not removed, raise the back of tractor, and place blocks safely underneath the tractor tires or use an appropriate hoist. Keep enough distance between the blocks, so the undercarriage will fit.
- **7.** If the rear tires are removed, raise the back of the tractor and use jack stands that are recommended for your tractor to support the tractor safely. Keep enough distance between the jack stands, so the undercarriage will fit.

Bracket Installation



8. Remove front two bolts from 3-point hitch brace on right and left rear axle. Attach rear brackets with 2 - 20mm x 150mm bolts and 2 - 3/4" flat washers (A).

Note: Verify the correct orientation of the rear brackets. Refer to diagram on Page 12-13.

Installing Undercarriage

NOTE: When jacking up the undercarriage, make sure to not jack too high or you may hit other parts of the tractor.

NOTE: When raising the undercarriage, properly guide the hoses to avoid pinching them between the tractor frame and the undercarriage.



9. Align the undercarriage behind the tractor and guide the undercarriage under the tractor.

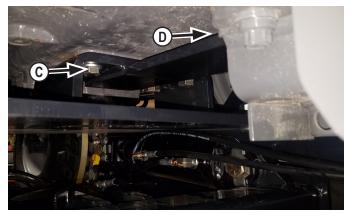
raising the undercarriage.

10. Raise the undercarriage up to the installed tractor brackets and the tractor frame. Line up the undercarriage to the corresponding holes on the installed brackets.

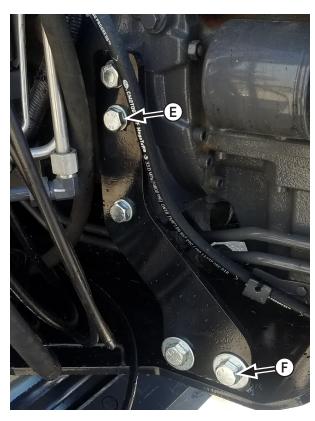
Note: Do Not tighten bolts until all mounting bolts have been installed.



11. Use 4 - 3/4" x 2" carriage bolts, 4 - 3/4" flat washers and 4 - 3/4"nuts **(B)** to attach rear brackets to undercarriage.



12. In front of drawbar bracket, attach rear of undercarriage with 4 - 16mm x 50mm bolts and 4 - 16mm washers **(C)**. Push undercarriage back and verify push plate is tight against the front of the drawbar bracket **(D)**.



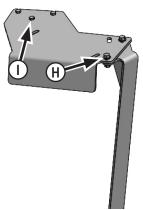
13. Attach front plate to tractor on the right side with 3 - 16mm x 50mm bolts and 3 - 16mm washers **(E)**. Use 3 - 16mm x 40mm bolts and 3 - 16mm washers on the left side to attach front plate to the tractor.

- **14.** Attach front plates to undercarraige with 4 3/4" x 2-1/4" bolts, 8 3/4" flat washers, and 4 3/4" nuts **(F)**.
- **15.** Torque all fasteners to the correct specifications listed on Page 2 after all bolts and nuts have been installed.

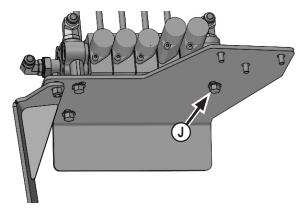
Control Valve and Stand Installation



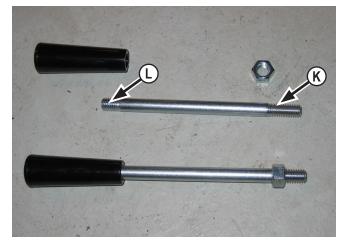
16. Attach the valve support plate to the front of the right fender with 2 - 3/8" x 1" flange bolts, 4 - 3/8" fender washers and 2 - 3/8" nyloc nuts **(G)**.6



- **17.** Attach valve mount plate to top of valve support plate with 2 3/8" x 1" flange bolts and 2 3/8" nyloc nuts **(H)**.
- **18.** Attach valve mount plate to top of right handrail with 3 8mm x 20mm bolts (I).



19. Attach valve to top of valve mount plate with 3 - 3/8" x 3/4" flange bolts (J).



- **20.** Assemble control valve handles. Put nut on side of bolt that has longer threads **(K)**. Put black handle on end that has shorter threads **(L)**.
- **21.** Insert assembled handles into belly blade control valve. Tighten the nut on each.

Plumbing

Note: 1. Have a catch pan available to collect hydraulic oil when removing hydraulic lines.

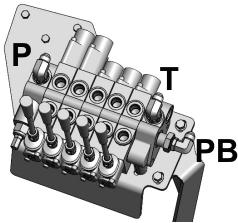
2. Before removing any hydraulic lines, release all hydraulic pressure with the engine off.



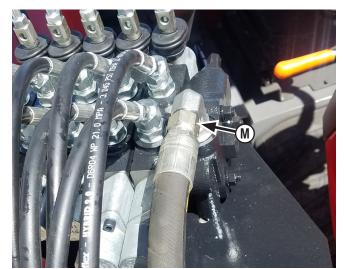
Caution



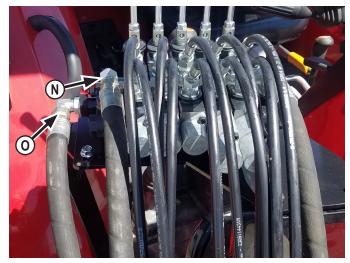
Avoid injury! Hydraulic oil that is under pressure will penetrate the skin and cause a serious injury. If this occurs, it needs to be surgically removed by a doctor familiar with this type of injury within a few hours or gangrene may result.



- 22. Install 90° fitting into Tank Port on valve (T).
- **23.** Install a 90° fitting into Pressure In Port on valve **(P)**.
- **24.** Install a 90° fitting into Power Beyond Port on valve **(PB)**.



25. Install a 96" hose on the fitting in Pressure In Port on valve **(M)**.

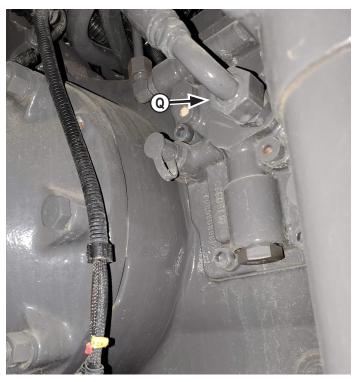


26. Install a 72" hose on the fitting in Tank Port on valve **(N)**.

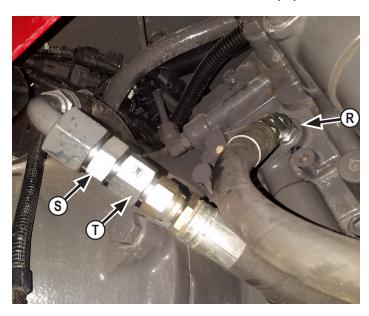
27. Install a 100" hose on the fitting in Power Beyond Port on valve **(O)**.



28. Remove plug from tank below the operator station. Install a 45° fitting and attach opposite end of 72" hose from Tank port on Belly Control Valve from Step #26 **(P)**.



29. Disconnect steel line and remove straight fitting from between the rear axle the oil filter (Q).



30. Install a new 45° fitting into the tractor where the steel line was removed. Attach the opposite end of 96" hose from Pressure In port on Belly Control Valve from Step #25 **(R)**.

31. Install a new male face seal by male JIC fitting **(S)** and a female JIC x male JIC fitting **(T)** into steel line. Attach the opposite end of 100" hose from Power Beyond port on Belly Control Valve from Step #27 **(T)**.

- **32.** After all hoses are in place, group hoses together and secure hoses with zip ties.
- **33.** Reconnect the battery.
- **34.** Reinstall tires on the tractor, lower the tractor and remove the jacks.
- **35.** Start the tractor and run the controls to check for any leaks.

Note: Watch the blade carefully for any collisions when running the controls.

36. Check hydraulic oil level after all cylinders have been cycled. Add hydraulic oil if necessary.

Blade Installation



37. Slide blade under tractor until the quick attach is in line with the center of the blade **(U)**. Make sure that the quick attach locking levers are still up **(V)**.



38. Pitch the male quick attach forward. Position the blade so the top round bar will hook under blade lip **(W)**.



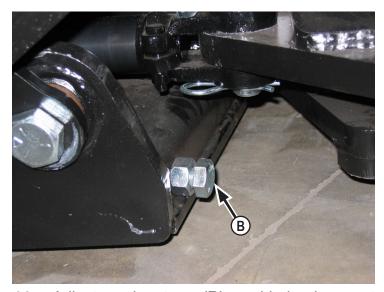
39. Pitch the male quick attach back to lift the blade off the ground **(X)**.



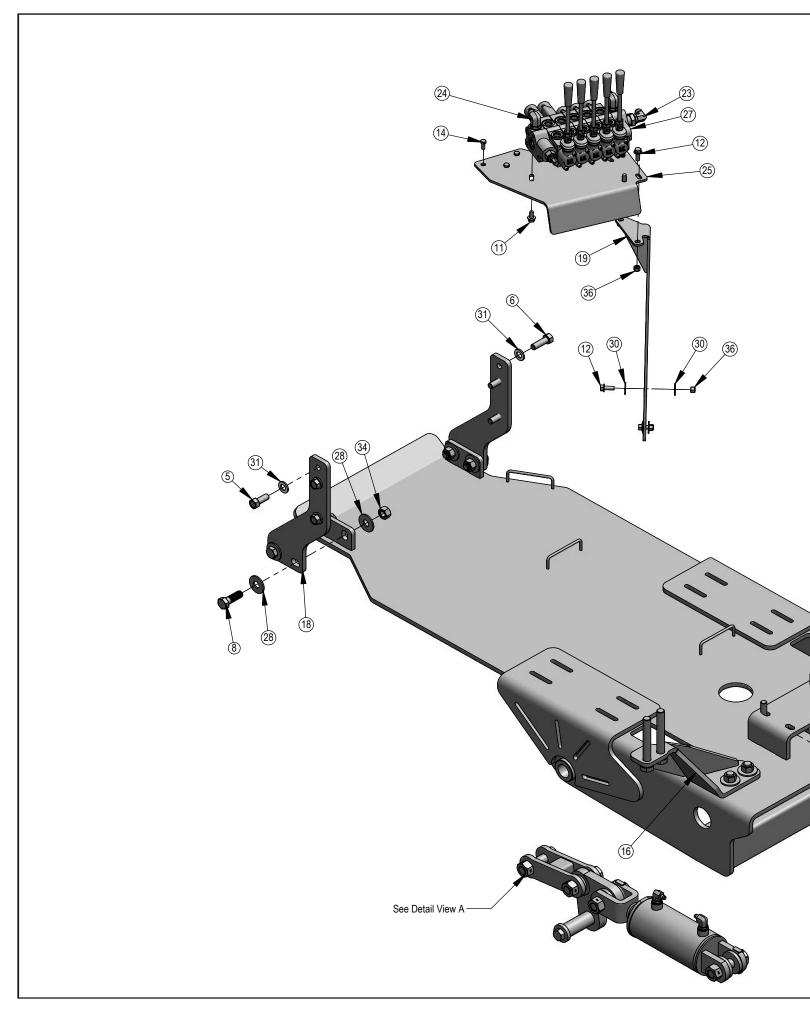
40. Lock the quick attach lever on each side **(Y)**. Verify that the lever engaged the corresponding slot on the bottom of the blade.



- **41.** Extend the side shift cylinder out to the cylinder connector. Insert pin **(Z)** and the clip pin on the bottom **(A)**.
- **42.** After mounting the blade, apply up and down pressure to verify proper blade installation.
- **43.** Cycle through blade functions checking for interferences.



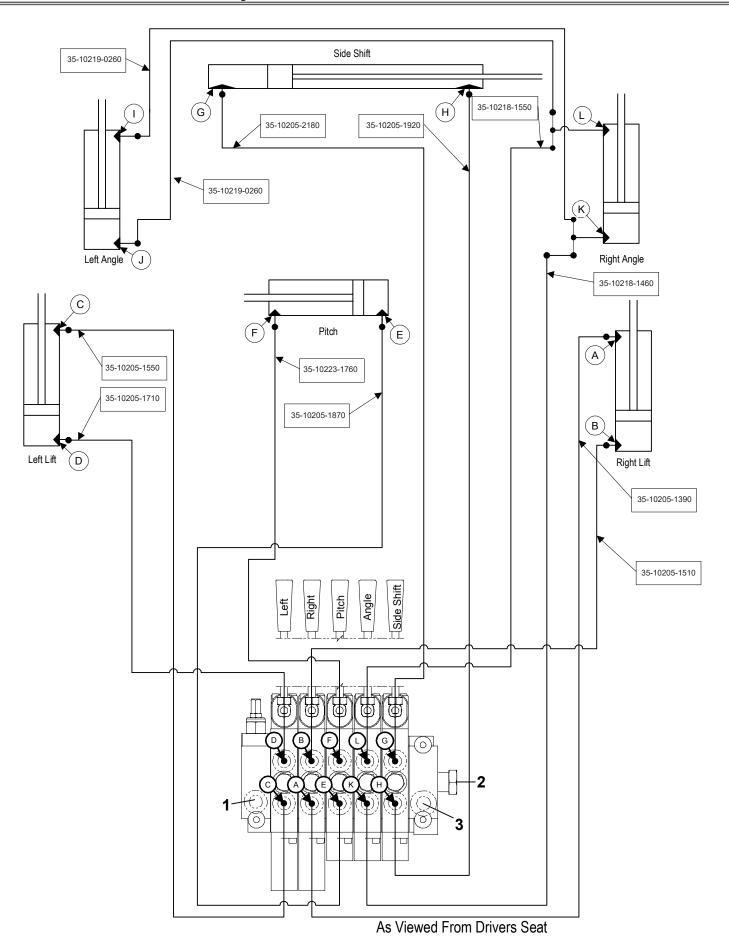
- **44.** Adjust angle stops **(B)** so blade does not interfere with tires during angle of blade. Use a wrench to loosen the nut and to the turn the bolt either in or out depending if the blade is hitting the tire. After adjustment, tighten the nut.
- **45.** Tractor and blade are ready for use. Refer to the blade operator's manual for safety, operation, and maintenance information.



6 7 16-1620050 16mm x 2.00mm x 50mm Metric Hex Bolt Gr 10.9 Coar 7 2 16-20216 3/4" x 1-1/2" Hex Bolt Gr 5 NC 8 4 16-20219 3/4" x 2-1/4" Hex Bolt Gr 5 NC 9 4 16-20566 1" X 4" Hex Bolt Gr 8 NC 10 4 16-21218 3/4" x 2" Carriage Bolt Gr 5 NC 11 3 16-35C612 3/8" x 3/4" Flange Bolt 12 4 16-35C616 3/8" x 1" Flanged Bolt 13 4 16-3651 20mm x 2.5mm x 150mm Hex Bolt	2 1 1 11-10400-R Arm Weld Right 3 2 15-10410 Arm Weld 4 4 16-10165 17 x 3-347 Hex Bolt Gr 5 NC 5 3 16-1620040 16mm x 2 00mm x 40mm Metric Hex Bolt Gr 10.9 Coars 6 7 16-162000 16mm x 2 00mm x 40mm Metric Hex Bolt Gr 10.9 Coars 7 2 16-20216 347 x 1-102 Hex Bolt Gr 10.9 Coars 8 4 16-20216 347 x 1-102 Hex Bolt Gr 5 NC 8 4 16-20268 17 x 47 Hex Bolt Gr 5 NC 9 4 16-20368 17 x 47 Hex Bolt Gr 5 NC 10 4 16-2138 347 x 2 Carnage Bolt Gr 5 NC 11 3 16-350612 387 x 347 Flange Bolt 12 4 16-30068 387 x 347 Flange Bolt 13 4 16-350615 387 x 17 Flange Bolt 14 3 16-812520 8mm x 12 5mm x 15mm Hex Bolt Gr 10.9 Coarse 15 4 18-10430 8mc x 12 5mm x 20mm Metric Hex Bolt Gr 10.9 Coarse 15 4 18-10430 8mc x 12 5mm x 20mm Metric Hex Bolt Gr 10.9 Coarse 15 4 18-10430 8mc x 12 5mm x 20mm Metric Hex Bolt Gr 10.9 Coarse 15 4 18-10430 8mc x 12 5mm x 20mm Metric Hex Bolt Gr 10.9 Coarse 16 1 18-43142 Rear Bracket 17 1 18-43142 Rear Bracket 18 2 18-43146 8racket, Nor Bolt 19 1 18-43143 8racket, Nor Bolt 19 1 18-43143 8racket, Nor Bolt 10 2 18-43140 8racket, Nor Bolt 10 2 18-43140 8racket, Nor Bolt 11 3 13-3006 8raight Thread Bloov 90° JUC x O-Ring (801-44) 12 3 13-3405 8raight Thread Bloov 90° JUC x O-Ring 12 1 2 2 56-34731 4 x 5 Cylinder Clevis Ends 12 2 4 31-34045 8raight Thread Bloov 90° JUC x O-Ring 14 4 57-2075 4 347 Flat Washer 15 1 56-10200 5 Whee 16 1 36-13145 200 Massay 4700 Series LPL UIC Weld 17 1 56-10200 5 Whee 18 7 7-20760 5 Whee 19 1 10 57-2082 387 Fender Washer 19 1 10 57-2082 387 Fender Washer 10 57-2082 387 Fender Washer 10 57-2082 387 Fender Washer 11 56 7-20069 11 Hex Center Lock Nut Gr 2 NC 16 7 50-70069 11 Hex Center Lock Nut Gr 2 NC 16 7 50-70069 11 Hex Center Lock Nut Gr 2 NC 16 7 50-70069 11 Hex Center Lock Nut Gr 2 NC 16 7 50-70069 11 Hex Center Lock Nut Gr 2 NC 16 7 50-70069 11 Hex Center Lock Nut Gr 2 NC	2 1 11-10400-R Am Weld Right 3 2 11-10410 4 4 16-10165 1*3-34/* Hex Bott Gr 5 NC 5 3 16-1620040 fimm x 2.00mm x 4.0mm Metric Hex Bott Gr 10.9 Coarse 6 7 16-1620040 fimm x 2.00mm x 5.0mm Metric Hex Bott Gr 10.9 Coarse 7 2 16-20216 3/4* x 1-1/2* Hex Bott Gr 5 NC 8 4 16-20219 3/4* x 2-1/4* Hex Bott Gr 5 NC 9 4 16-20216 3/4* x 2-1/4* Hex Bott Gr 5 NC 10 4 16-27218 3/4* x 2-1/4* Hex Bott Gr 5 NC 11 3 16-1620050 1*3 x 2-1/4* Hex Bott Gr 5 NC 11 3 16-36216 3/5* x 3/4* Flanged Bott 12 4 16-350616 3/5* x 3/4* Flanged Bott 12 4 16-350616 3/5* x 1* Flanged Bott 13 4 16-3631 3/5* x 1* Flanged Bott 14 3 16-19250 8/mm x 1.25mm x 25mm x 15mm Hex Bott Gr 10.9 Coarse 15 4 18-10430 Bracket, NR 1.00* Bott 16 1 18-34142 Rear Parcket 17 1 18-43142 Rear Bracket 18 2 18-34148 Bracket, NR 1.00* Bott 19 1 18-34142 Rear Bracket 19 1 18-34142 Rear Bracket 19 1 18-34143 Bracket, NR 1.00* Bott 19 1 18-34143 Bracket, NR 1.00* Bott 19 1 18-34143 Bracket, NR 1.00* Bott 10 1 19-7774 1* x* 1* Spring Bushing 20 4 19-7774 1* x* 1* Spring Bushing 21 4 31-34049 Straight Thread Elbow 99* JIC x O-Ring (88014-8) 23 1 31-343405 Straight Thread Elbow 99* JIC x O-Ring (88014-8) 23 1 31-34345 Straight Thread Elbow 99* JIC x O-Ring (88014-8) 24 2 31-34051 Straight Thread Elbow 99* JIC x O-Ring (88014-8) 25 1 4-4-3150 Plane, Valve Mount 26 1 57-20747 3/4* Flant Washer 29 4 57-20757 3/4* Flant Washer 30 4 57-20950 3/4* Center Lock Nut Gr 2 NC 36 8 70-20607 3/4* Center Lock Nut Gr 2 NC 36 9 70-20607 3/4* Center Lock Nut Gr 2 NC		ITEM NO.	Qty.	PART NO.	DESCRIPTION
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4 4 16-10165 1*x 3-34" Hex Bolt Gr.5 NC 5 3 16-1620040 1 femm x 2.0mm x 40mm Metric Hex Bolt Gr 10.9 Coar 6 7 16-1620050 1 femm x 2.0mm x 40mm Metric Hex Bolt Gr 10.9 Coar 7 2 16-20216 3/4" x 1-1/2" Hex Bolt Gr 5 NC 8 4 1 16-20219 3/4" x 2-1/4" Hex Bolt Gr 5 NC 9 4 1 16-20261 3/4" x 2-1/4" Hex Bolt Gr 5 NC 10 4 16-21218 3/4" x 2" Carriage Bolt Gr 5 NC 11 3 16-35C612 3/6" x 3/4" Flange Bolt 12 4 16-35C61 2 3/6" x 1" Flange Bolt 13 4 16-3651 20mm x 1.50mm Metric Hex Bolt Gr 10.9 Coars 14 3 16-812520 8mm x 1.25mm x 2.5mm x 150mm Hex Bolt Gr 10.9 Coars 15 4 18-10430 8mm x 1.25mm x 2.5mm x 150mm Metric Hex Bolt Gr 10.9 Coars 16 1 18-43142-R Rear Bracket 17 1 18-43142-R Rear Bracket 18 2 18-43146 Bracket, NR 1.00" Bolt 19 1 18-43149 Bracket, Valve Support 20 4 19-7774 1" x 1" Spring Bushing 21 2 2 6-34731 4 x 5 Cylinder Clevis Ends 22 4 31-34049 Straight Thread Elbow 90" JIC x O-Ring (6801-4-8) 23 1 31-34050 Straight Thread Elbow 90" JIC x O-Ring (5801-4-8) 24 2 31-34051 Straight Thread Elbow 90" JIC x O-Ring 25 1 44-43150 Plate, Valve Mount 26 1 54-43145 200 Massey 4700 Series LPL U/C Weld 27 1 56-10200-5 Valve 28 12 57-20757 3/4" Flat Washer - 1-1/2" OD 30 4 57-20757 3/4" Flat Washer - 1-1/2" OD 31 10 57-20579 3/4" Flat Washer 32 2 57-3680 0.75" ID x 2.00" OD x .375" Heavy Washer 33 8 67-3682 1.00" ID x 2.50" OD x .375" Heavy Washer 34 67-20609 1" Hex Center Lock Hex Nut Gr 2 NC	4	4 4 18-10165 1*x 3-34* Heb 80H Gr 5 NC 5 3 18-18000M 16mm x 20mm Arithme Red Boll Gr 10.9 Course 6 7 7 89-18000M 16mm x 20mm Arithme Red Boll Gr 10.9 Course 7 2 16-20216 34*x 1-12* Heb 80H Gr 5 NC 8 4 1 16-20218 34*x 2-14* Heb 80H Gr 5 NC 9 4 1 16-20256 1*x 4* Heb 80H Gr 5 NC 9 4 1 16-20256 1*x 4* Heb 80H Gr 5 NC 11 3 16-38001 36*x 2* Carriage Boll Gr 6 NC 11 3 16-38001 36*x 3*x 1-18* Heap 80H Gr 6 NC 11 4 18-30561 36*x 3*x 1*Hange Boll 13 4 16-3851 20mm x 25mm x 15mm Hex Boll Gr 10.9 Coarse 15 4 18-1039 Backet, NR 1-07* Boll 16 1 18-43402 Red Packet 17 1 18-43402 Red Packet 18 2 18-43402 Red Packet 18 2 18-43402 Red Packet 19 1 18-43403 Backet, NR 1-07* Boll 19 1 18-43404 Bocket, Front 19 3 1 18-43404 Bocket, Front 19 3 1 18-43404 Bocket, Front 20 4 19-7774 1*x 1* Spring Bushing 21 2 2 3-34731 4 x 5 Cyninder Cleves Ends 22 4 31-34093 Shalped Head Bollow 90* JUC x 0-Ring (8601-4-8) 22 1 31-34091 Shalped Head Bollow 90* JUC x 0-Ring (8601-4-8) 23 1 31-34091 Shalped Head Bollow 90* JUC x 0-Ring (8601-4-8) 24 2 31-34091 Shalped Head Bollow 90* JUC x 0-Ring (8601-4-8) 25 1 34-4315 20 Minster 1-112* OD 26 1 34-4315 20 Minster 1-112* OD 27 1 36-102003 Solf Plank Washer 28 1 2 57-20747 Solf Plank Washer 29 3 17-2077 Solf Plank Washer 30 5 8 70-20609 1* Hex Center Look Nut Gr 2 NC 36 8 70-20609 1* Hex Center Look Nut Gr 2 NC 36 8 70-20609 1* Hex Center Look Nut Gr 2 NC 36 8 70-20609 1* Hex Center Look Nut Gr 2 NC 36 4 70-20612 38* Nyloc Hex Nut Gr 5 NC		2	1	11-10400-R	Arm Weld Right
5 3 16-1620040 16mm x 2.00mm x 40mm Metric Hex Bolt Gr 10.9 Coar 6 7 16-1620050 16mm x 2.00mm x 50mm Metric Hex Bolt Gr 10.9 Coar 7 2 16-2021 3/4" x 2-1/4" Hex Bolt Gr 10.9 Coar 8 4 16-20219 3/4" x 2-1/4" Hex Bolt Gr 5 NC 9 4 16-20219 3/4" x 2-1/4" Hex Bolt Gr 5 NC 10 4 16-20218 3/4" x 2-1/4" Hex Bolt Gr 5 NC 11 3 16-3505612 3/6" x 3/4" Hange Bolt Gr 5 NC 11 3 16-3505612 3/6" x 3/4" Hange Bolt 12 4 16-350616 3/6" x "Flanged Bolt 12 4 16-350616 3/6" x "Flanged Bolt 13 4 16-36561 3/6" x "Flanged Bolt 14 3 16-812520 8mm x 1.25mm x 25mm x 150mm Hex Bolt 14 3 16-812520 8mm x 1.25mm x 25mm x 150mm Hex Bolt 16 1 18-43142-L Rear Bracket 17 1 18-43142-L Rear Bracket 19 1 18-43142-L R	5 3 16-1620040 16mm x 2.00mm x 4.0mm Metric Hex Bolt Gr 10.9 Coars 6 7 16-1620050 34" x 1-10" Hex Bolt Gr 5 NC 8 4 16-20219 34" x 2-14" Hex Bolt Gr 5 NC 9 4 16-20266 17 x 4" Hex Bolt Gr 5 NC 9 4 16-20566 17 x 4" Hex Bolt Gr 5 NC 10 4 16-21218 34" x 2-14" Hex Bolt Gr 5 NC 11 3 16-356018 38" x 1" Engage Bolt Gr 5 NC 12 4 16-356016 38" x 1" Engage Bolt Gr 5 NC 13 4 16-3651 36" x 3"	5 3 3 16-1500400 firmm x 20mm x 50mm x 40mm feet lets Bold for 10.9 Coarse 6 7 7 2 16-20206 34" x 1-12" Hot Bold for 5 NO 8 4 16-20219 34" x 2-14" Hot Bold for 5 NO 9 4 1 16-20218 34" x 2-14" Hot Bold for 5 NO 10 4 16-21218 34" x 2-14" Hot Bold for 5 NO 11 3 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 4 16-20218 34" x 2-14" Hot Bold for 5 NO 11 5 4 16-2020 8mm x 1.25mm x 25mm x 15mm Hot Bold for 10.9 Coarse 16 No 11 6 1 18-45142 Rear Broadet 11 6 1 18-45142 Rear Broadet 11 7 1 16-45142 Rear Broadet 11 7 1 16-45142 Rear Broadet 11 8 2 18-43148 Broadet No Ford 11 9 1 18-45149 Broadet No Ford 11 9 1 18-45149 Broadet No Ford 12 2 2 2-34-341 4 x 5 Dyrinder Clovis Brods 12 1 4 31-3409 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 12 1 31-3409 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 12 1 31-3409 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread Elbow 90" JUX x O-Ring (8801-4-8) 13 1 10 5-702082 Staght Thread El		3	2	11-10410	Arm Weld
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7 2 16-20216 3/4" x 1-1/2" Hex Bolt Gr 5 NC 8 4 16-20219 3/4" x 2-1/4" Hex Bolt Gr 5 NC 9 4 16-20218 3/4" x 2-1/4" Hex Bolt Gr 5 NC 10 4 16-21218 3/4" x 2" Carriage Bolt Gr 5 NC 11 3 16-35C612 3/8" x 3/4" Flange Bolt 12 4 16-35C61 3/8" x 1" Flanged Bolt 13 4 16-3651 20mm x 2.5mm x 150mm Hex Bolt 14 3 16-812520 8mm x 1.25mm x 20mm Metric Hex Bolt Gr 10.9 Coars 15 4 18-10430 8mx x 1.25mm x 20mm Metric Hex Bolt Gr 10.9 Coars 16 1 18-43142-L Rear Bracket 17 1 18-43142-L Rear Bracket 18 2 18-43146 Bracket, NR 1.00" Bolt 19 1 18-43149 Bracket, NR 1.00" Bolt 19 1 18-43149 Bracket, Valve Support 20 4 19-7774 1" x 1" Spring Bushing 21 2 26-34731 4 x 5 Cylinder Clevis Ends 22 4 31-34050 Straight Thread Elbow 90" JIC x O-Ring 23 1 31-34050 Straight Thread Elbow 90" JIC x O-Ring 24 2 31-34051 Straight Thread Elbow 90" JIC x O-Ring 25 1 44-43150 Plate, Valve Mount 26 1 54-43145 OW Massey 4700 Series LPL U/C Weld 27 1 56-10200-5 Valve 28 12 57-20747 3/4" Flat Washer 29 4 57-20757 3/4" Flat Washer 31 10 57-2025 Ifomm Flat Washer 31 17-2000 3/5" Peacy Washer 34 8 70-20607 3/4" Center Lock Nut Gr 2 NC	7 2 15-20216 34" x 1-1/2" Hes Bott GF & NC 8 4 16-20219 34" x 2-1/4" Hes Bott GF & NC 9 4 16-202666 1" x 4" Hes Bott GF & NC 10 4 16-21218 34" x 2" Carriage Bott GF & NC 11 3 16-36561 34" x 2" Carriage Bott GF & NC 11 3 16-36561 34" x 1" Flanged Bott 12 4 16-365616 38" x 1" Flanged Bott 13 4 16-36561 34" x 1.2 flam x 2.5mm x 15mm Hes Bott 14 3 16-81220 8mm x 1.2 flam x 2.5mm x 15mm Hes Bott 15 4 18-10430 9racket, NR 1.00" Bott 16 1 18-43142-R Rear Bracket 17 1 18-43142-R Rear Bracket 18 2 18-43146 Bracket, Front 19 1 18-43149 Bracket, Walve Support 20 4 19-7774 4" x 1" Spring Bushing 21 2 2-26-3473 4" x 5 Cylinder Cleve, Walve Support 22 4 31-34050 Straight Thread Elbow 90" JIC x O-Ring (8801-4-8) 23 1 31-34050 Straight Thread Elbow 90" JIC x O-Ring 24 2 31-343051 Region Bracket	7 2 16.02016 34" x 1.12" Hex Boll Gr 5 NC 8 4 16.02019 34" x 2.14" Hex Boll Gr 5 NC 10 9 4 16.20596 17" X 4" Hex Boll Gr 8 NC 110 4 16.2128 34" x 2.2" Cardinge Boll Gr 10 NC 111 3 16.350518 36" x 1" Flanged Boll Cr 10 NC 111 3 16.350518 36" x 1" Flanged Boll Cr 10 NC 112 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 16.350518 36" x 1" Flanged Boll Cr 10 NC 113 4 18.0120 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 4 18.0120 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 4 18.0120 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm Meltic Hex Boll Gr 10 9 Coarse 115 1 18.3146 36" x 1.25 mm x 20mm x		5	3	16-1620040	16mm x 2.00mm x 40mm Metric Hex Bolt Gr 10.9 Coarse Z
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9 4 16-20566 1" X 4" Hex Bolt Gr 8 NC 10 4 16-21218 3/4" x 2" Carriage Bolt Gr 5 NC 11 3 16-35C612 3/8" x 31" Flange Bolt 12 4 16-35C613 3/8" x 1" Flanged Bolt 13 4 16-36561 20mm x 2.5mm x 150mm Hex Bolt 13 4 16-3651 20mm x 2.5mm x 150mm Hex Bolt Gr 10.9 Coars 15 4 18-10430 Bracket, NR 1.00" Bolt 16 1 18-43142-L Rear Bracket 17 1 18-43142-L Rear Bracket 17 1 18-43142-R Rear Bracket 18 2 18-43146 Bracket, Front 19 1 18-43149 Bracket, Valve Support 20 4 19-7774 1" x 1" Spring Bushing 21 2 2 5-34731 4 x 5 Cylinder Clevis Ends 22 4 31-3409 Straight Thread Elbow 90" JIC x O-Ring (6801-4-8) 23 1 31-34050 Straight Thread Elbow 90" JIC x O-Ring Gent 1-4 x 15 x 1	9	9 4 16-20566 1" X 4" Hex Bott Or 8 NC 10 4 16-20568 1" X 4" Hex Bott Or 8 NC 11 3 16-350812 38" x 34" Flange Bott 11 4 18-35081 38" x 1" Flange Bott 11 4 18-35081 38" x 1" Flange Bott 11 4 18-4530 38" x 1" Flange Bott 11 4 18-4530 38" x 1" Flange Bott 11 4 18-4530 38" x 1" Flange Bott 11 5 4 18-1030 38" x 1" Flange Bott 11 6 1 18-43142 1. Rear Bracket 11 7 1 18-43142 1. Rear Bracket 11 1 1 18-43142 1. Rear Bracket 11 1 1 18-43143 1. Rear Bracket 11 1 1 18-43143 1. Rear Bracket 11 1 1 18-43143 1. Rear Bracket 12 1 2 28-34731 4 x 5 Cylinder Clavis Ends 12 1 2 4 31-3449 1 Straight Thread Elbow 90" JIC x O-Ring (8801-8) 12 1 1 31-34050 Straight Thread Elbow 90" JIC x O-Ring 12 1 1 4-443150 Straight Thread Elbow 90" JIC x O-Ring 12 1 1 4-443150 Straight Thread Elbow 90" JIC x O-Ring 12 1 1 4-443150 Straight Thread Elbow 90" JIC x O-Ring 12 1 1 4-443150 Straight Thread Elbow 90" JIC x O-Ring 12 1 1 4-443150 Straight Thread Elbow 90" JIC x O-Ring 13 1 4 4-37-4707 Java 14" Flatt Washer - 1-12" OD 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7	2	16-20216	3/4" x 1-1/2" Hex Bolt Gr 5 NC
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DWG. NO.: 43140-A

Hydraulic Schematic



Contact Us

As always, if you have any questions about your Belly Blade or other products made by Grouser, feel free to contact us.

Grouser Products

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Improvements

Grouser Products Inc. is continually striving to improve its products. We reserve the right to change prices, specification, or equipment at any time without notice. We also reserve the right to make improvements or changes when it becomes practical and possible to do so without incurring any obligation to make changes or additions to the equipment sold previously.

Warranty

Grouser Products warrants to the original purchaser of each item that the product be free from defects in material and workmanship under normal use and service for a period of two years from date of original retail delivery. If such equipment is found to be defective within two years, it is the obligation of Grouser Products under this warranty to repair or replace (exclusive of the cost of labor and transportation), any equipment or parts, in the judgment of Grouser Products to be defective in material or workmanship.

All equipment or parts claimed to be defective in material or workmanship must be made available for inspection at the place of business of a dealer authorized to handle the equipment covered by this warranty, or, upon request by Grouser Products, shipped to the Grouser Products factory in West Fargo, North Dakota. Grouser Products shall have no obligation to bear the cost of labor or transportation in connection with replacement or repair of any such defective parts in the setup process.

This warranty covers only defects in material and workmanship. It does not cover depreciation or damage caused by normal wear, accident, improper assembly, improper adjustments, improper maintenance including lack of proper lubrication, or improper use. Therefore, Grouser Products liability under this warranty shall not be effective or actionable unless the equipment is assembled, maintained and operated in accordance with the operating instructions accompanying the equipment. Grouser Products shall have no liability if the equipment has been altered or reworked without the written authorization of Grouser Products.

Grouser Products' parts, which are furnished under this warranty and properly installed, shall be warranted to the same extent as the original parts under this warranty if, and only if, such parts are found to be defective within the original warranty period covering the original equipment.

