Kello-Bilt Series '250' Offset Breaking Disc

Owner's Manual



Manufactured by Kellough Bros. Ltd.

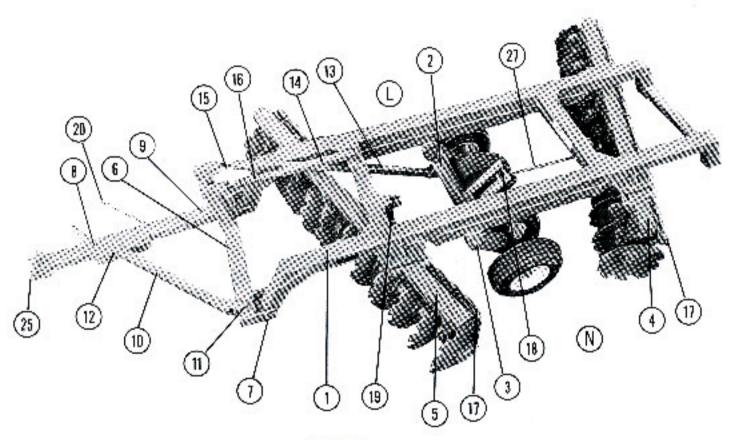
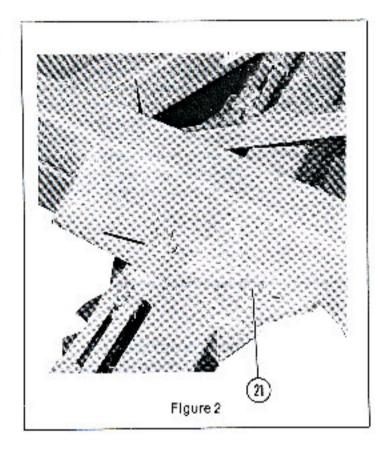
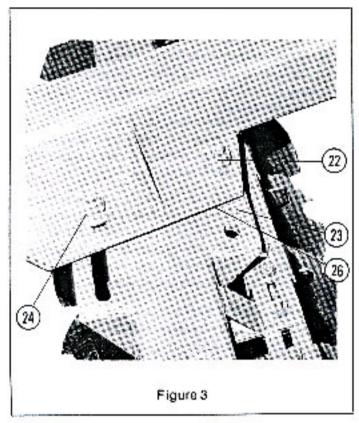


Figure 1





SET-UP INSTRUCTIONS

- To Install Wheel Carriage and Whools: (Refer to Figure 1) Place wheel carriage(2) under the main frame(1) and altach frame with pins(3), install 5/16 x 2 look bolls in pins and tighten look nute securely. Install wheels on to hubs with wheel bolts provided and tighten securely.
- 2. To Attach Gang Bars to Frame: (Refer to Figure 1) Bolt rear gang bar(a) to main frame(1) in center set of offsetting holes and in next-to-maximum angle with % x 3½ bolts, Install leveling washers on top of angling plates on long side of clsc(L). Install leveling washers between gang bar and engling plates on narrow side of disc(N). Holt front gang bar(5) to main trame in next to maximum angle with % x 3% bolts. Install leveling washers same as rear gang.
- To Attach Hitch Bridle to Frame: (Refer to Figure 1) Flace bridle(6) at front of frame(1) and attach with pins(7). Install look bolts and tighten nuts securely.
- 4. To Attach Hitch Pole to Bridle; (Heter to Figure 1) Attach main hitch pole(ā) to bridle(5) at lead corner(3) with 1 x 6 bolt. Attach hitch side arm(10) to opposite side of bridle(11) with 1 x 6 bolt. Join hitch pole and stoc arm with 1" pin at adjustable eye bolt(12). Tighten all bolts securely.

- 5. To Attach Fore-Aft Leveling Assembly: (Refer to Figure 1) Inetall short tube(12) to wheel carriage with 1" pin. Install long tube(14) with 1" pin. Slide short fore-aft eye bolt(15) Into bottom tube(13) (pinned to wheel carriage) and pin to bottom hold of bridle mast(6). Slide long fore-aft eye bolt clw spring and washers into lop tube(14) (attached to main frame) and pin to top hole of bridle mast(6).
- To Attach Scrapers: [Refer to Figure 1] Attach scraper bars(17) to gaing bars (4 & 5) with carriage bolts provided. Attach scrapers to scraper bar with clamps and bolts provided use cars to adjust scrapers close to discs but not rubbing.
- 7. To Double Wide Right and Lett Hand Offsets: (Refer to Double Wide drawing). Set together following regular instructions except them No. 4 to attach block pole to bridle the bitch pole is attached to the opposite side from the lead corner and the side arm is attached to the lead corner with 1 x 6 bolt. Set left hand diso(1) stationary and pull right hand diso(1) along side leaving front gang of right hand disc behind front gang of left hand disc. Attach rear spreader bar(5) with pins. Attach front spreader bar(6) with pins. Join right hand main hitch pole to left hand main hitch pole(3) with 1¼" pin(7). Adjust swivel flapper with 1 x 6 bolt for proper direction(8).

MAINTENANCE

Before operating the disc be certain that:

- All bolts are tight.
- 2. The disc axles are light
 - NOTE Died gangs must be kept light at all times!
- Wheel bearings are adjusted properly and libridated with bearing crease.
- 4. Grease fore-aft lubes each day.
- After Firet Day of Operation Tighten all bolts and disc axies, check wheel bearings for adjustment, oil threads on eye bolts and transport rod.
- Every Day Inspect and repair or replace broken or worn parts, check and/or tighten bolts and disc axles.
- Every 100 Hours Gresse wheel bearings until gresse shows outside wheel snals.
- Caution Wipe grease fitting clean before attaching pressure gun.
 Lise clean lithium-base bearing grease and keep it clean. Keep
 tires properly inflated for long life but do not exceed 50 pounds
 pressure for proper flotation and protection of associated parts.

OPERATING INSTRUCTIONS

- Hydraulic Cylinder and Hoses: (Refer to Figure 1) A standard 8" stroke double acting hydraulic cylinder is required to lift disc. Two 18 ft. hydraulic hoses are needed to allow full offsetting and turning without hose damage.
- CAUTION: Be certain the red or moving end of the cylinder is to the rear(18) with the buff end to the front at main frame(19). Faster the hotee through hose stand(20) with enough stack to allow frector to turn, but without enough to let hose drag.
- 2. Angle Changing: (Refer to Figure 1) To change angle, fissise disc on wheels until discs are clear of ground. Remove bolt(21) and loosen the three remaining bolts. Silde gang ber forward or backward as desired. Replace bolt and tighten all bolts securely. For ordinary conditions set both front and rear gangs in next to maximum angle, increase angles as required to suit conditions.
- Offsetting Rear Gang Bar: (Refer to Figure 3) for ordinary conditions boll(22) should be in the centre of leteral plate(23). When using died as a double wide unit the rear gang bar is adjusted to maximum width to fill furrow. Remove two bolts(22), lossen bolt where slots are(24), adjust laterally then retighten all bolts.
- 4. Offsetting The Hitch: (Refer to Figure 1) This unit is designed to trail straight behind the fractor. Minimum side graft will be obtained when the hitch is in line with outside beam of main frame. If more adjustment is required screw hitch side arm sye bolf(12) to desired position, then retighten jamb nut to reduce pressure on eye bolt thread.
- CALTION: Tighten the hitch boits to about 450 tt./lbs. torque (three foot wrench for average man). Loose hitch boits will result in extensive damage to the hitch pole and hitch bridle.
- Hitch Height: (Refer to Figure 1) The hitch pole should always be as near level as possible when discing. Flapper hitch(25) can be raised or lowered to proper tongue level of tractor. (Not adjustable on Series 250)

6. Leveling:

- A. Front to Rear: (Refer to Figure 1) With died raised and hitch to tractor, adjust bottom fore-aft eye bolf(15) until mein frame is level. Adjust fore-aft spring lock(16) until spring is snug. The top spring should be under some compression when discing, but should never be compressed solidly, NOTE: In general use as little pressure as possible when discing.
- B. Side to Side Leveling: (Refer to Figure 3) In general, adequate levelling from side to eide may be obtained by placing leveling washers(26) between angling plate on frame and gang bar, leveling washers are always used on narrow side(N) of discionly.
- C. Penetration: It is better to reduce the angle of the gangs to decrease penetration rather than to gauge the penetration by use of the wheels. By use of this method, width of cut is increased and draft and fuel consumption in extremely soft or sandy softs, decreased. It may be necessary to use the wheels for additional leveling and gauging.

7. Transporting: (Refer to Figure 1) Disc may be transported without using hydraulic cylinder. Place the rod(27) through the hole in anchor on frame(1) and place clevis over transport block. Raise the disc until the cylinder has reached the end of its stroke. Insert pin in clevis and adjust transport rod nut until there is about to between nut and transport anchor. Release pressure on hydraulic cylinder and remove. CAUTION: Extreme care should be taken not to collapse the cylinder too much with the transport rod in transport position.

POINTS TO CHECK IN OBTAINING THE BEST PERFORMANCE

1. Side Draft on Tractor:

- Adjust hitch for proper line of draft.
- B. Reduce angle of front gang bar.
- C. Increase angle of rear gang bar.
- Increase spring pressure slightly.
- E. Put front wheel weights on tractor.
- F. Lower fractor drawber and/or raise hitch flapper on disc.

2. Furrow Not Filled:

- A. Increase angle of rear gang bar.
- Offset reargang bar to outside.
- Increase spring pressure slightly.
- Put leveling spacer between main frame and gang bar on narrow side of disc.
- E. Position hitch pole on bridle to move disc in opposite direction.

3. Furow Overtitled:

A. Adjust opposite to No. 2 above.

4. Ridging on Rear:

- A. Reduce angle of rear drawber.
- Decrease spring pressure.

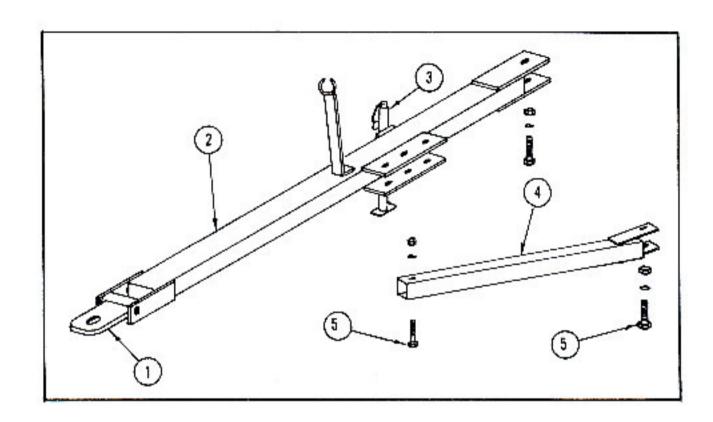
5. Disc Unstable Laterally: (Plowing crooked furrow)

- A. Decrease apring pressure.
- B. Correct drawbar and/or hitch flapper height.
- C. Reduce angle of front gang bar.

6. Clogging Between Discs:

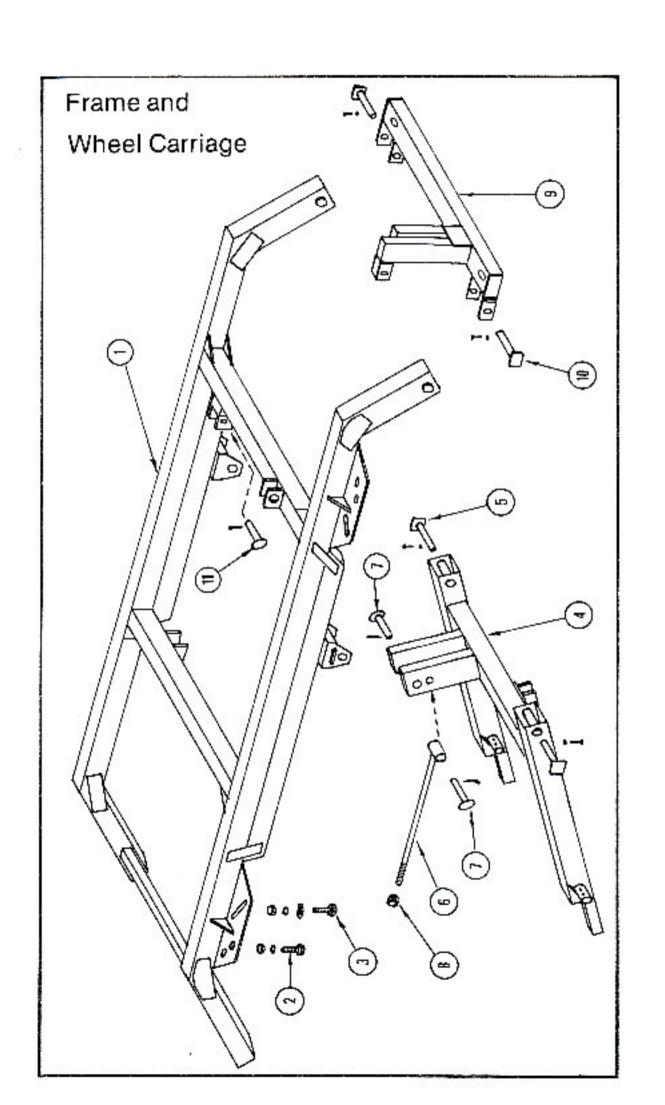
- A. Adjust scrapers properly.
- Decrease angle front and/or rear.
- C. Degresse depth of plowing.

Kello-Bilt Series 250 Offset Disc



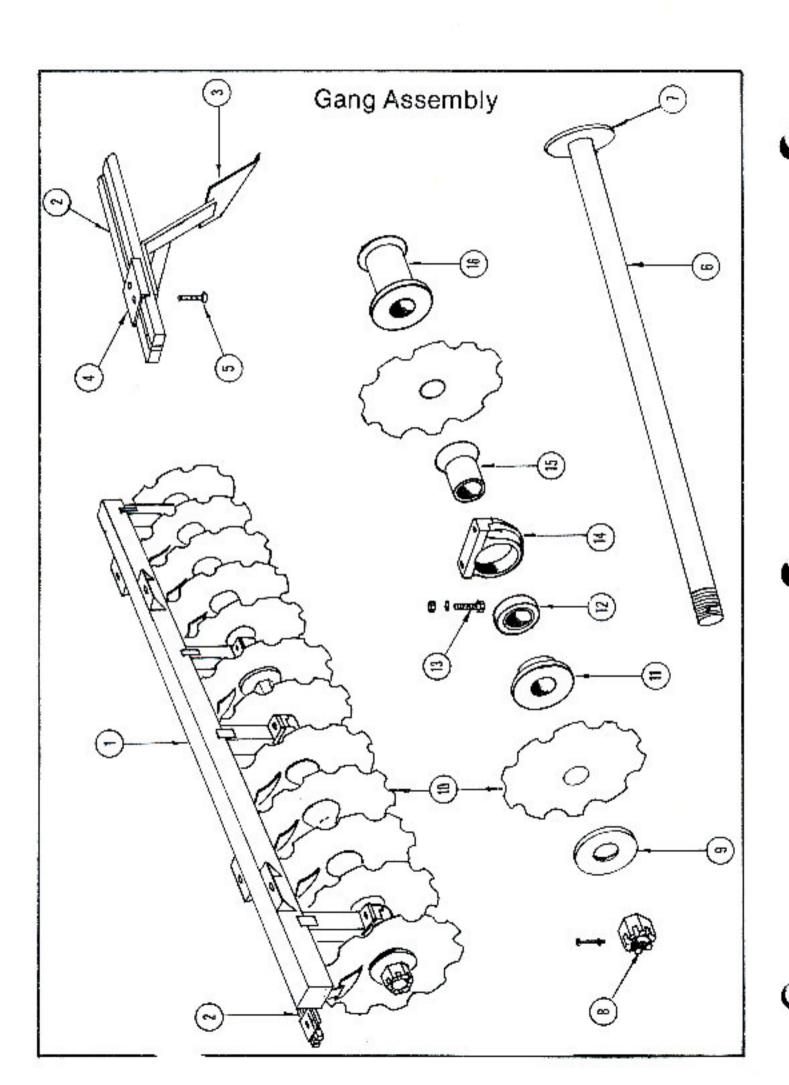
HITCH ASSEMBLY

Item No.	Part No.	Quantity	Description
1	25001	1	Hitch Flapper
2	25003	1	Main Hitch Pole
3	25004	1	Jack
4	25006	1	Hitch Side Arm
5	25007	3	11/4" x 7" NC Bolt Lockwasher & Nut



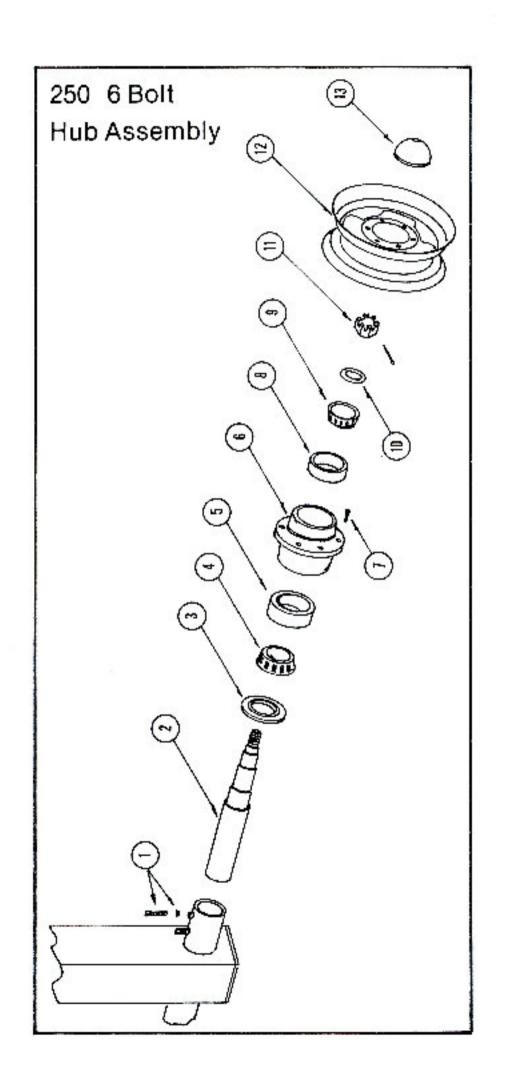
Frame and Wheel Carriage

TEM No.	PART No.	YTITAAUQ	DESCRIPTION
1	25011	1	Main Frame Assembly
2	25012	4	1" x 3½" Bolt, Washer & Nut
3	25D13	4	1" x 3½" Bolt. Washer, Nut, & Spacer
4	25014	1	Wheel Carriage Assembly
5	25015	2	Wheel Carriage Pivot Pin
6	25016	1	Transport Rod
7	25017	1	Transport Rod Pin
		1	Cylinder Pin
8	25D18	1	Transport Rod Nut
9	25019	1	Hitch Bridle Assembly
10	25020	2	Hitch Bridle Pins
11	25027	1	11/a" x 5" Pin c/w Cotter Pin



Gang Assembly

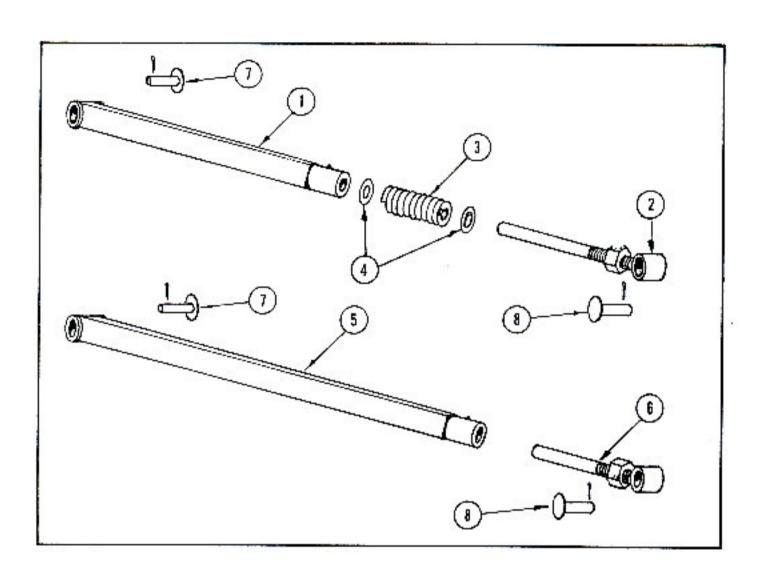
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ITEM No.	PART No.	QUANTITY	DESCRIPTION	
1	25028F-B	1	Front Gang Bar 8 ft. Disc	
1	25028F-10	1	Front Gang Bar 10 ft. Disc	
1	25028F-12	1	Front Gang Bar 12ft, Disc	
1	25028F-14	1	Front Gang Bar 14 ft. Disc	
1	25028R-8	1	Rear Gang Bar 8 ft. Disc	
1	25028R-10	1	Rear Gang Bar 10 ft. Disc	
1	25028R-12	1	Rear Gang Bar 12 ft. Disc	
1	25028R-14	1	Rear Gang Bar 14 ft. Disc	
2	25029	1	85" Scraper Bar	
2	25030	1	.95" Scraper Bar	
2	25031	1	105" Scraper Bar	
2	25032	1	115" Scraper Bar	
2	25033	1	130" Scraper Bar	
2	25034	1	140" Scraper Bar	
2	25035	1	154" Scraper Bar	
2	25036	1	164" Scraper Bar	
3	25039R	7-14	Right Hand Scraper	
3	25039L	7-14	Left Hand Scraper	
4	25040	14-30	Scraper Clip	
5	25041	2 per Scraper	¾"x3"Bolt, Washer, & Nut	
6	25042	1.4	Gang Shaft 43" Long x 2 %" Rd.	
6	25043	1-4	Gang Shaft 55" Long x 234" Rd.	
6	25044	1-4	Gang Shaft 67" Long x 244" Rd.	
6	25045	1-4	Gang Shaft 79" Long x 2¾" Rd.	
6	25046	1-4	Gang Shaft 91" Long x 234" Rd.	
7	25047	4	Weld-on Butt Plate	
8	25048	4	2¾" Hex Nut c/w Lock Nut	
9	25050	4	1" x 7" End Washer Spacer	
10	20-6040	15-27	5/16" x 26" Notched Blade	
10	20-7012	15-27	%" x 28" Notched Blade	
10	20-5309	1	5/16" x 24" Notched Blade	
10	20-4382	1	1/4" x 22" Notched Blade	
11	KB201-250	8	Concave Half Spool	
12	W214PPB-9	8	Fafnir Sealed Bearing	
13	25057	16	%" x 4 Bolt, Washer, & Nut	
14	KB16757	8	Bearing Housing	
15	KB2D2-250	8	Convex Half Spool	
16	KB167645	5-15	12" Steel Full Spool	



250 6 Bolt Implement Hub Assembly Capacity 5000 lbs.

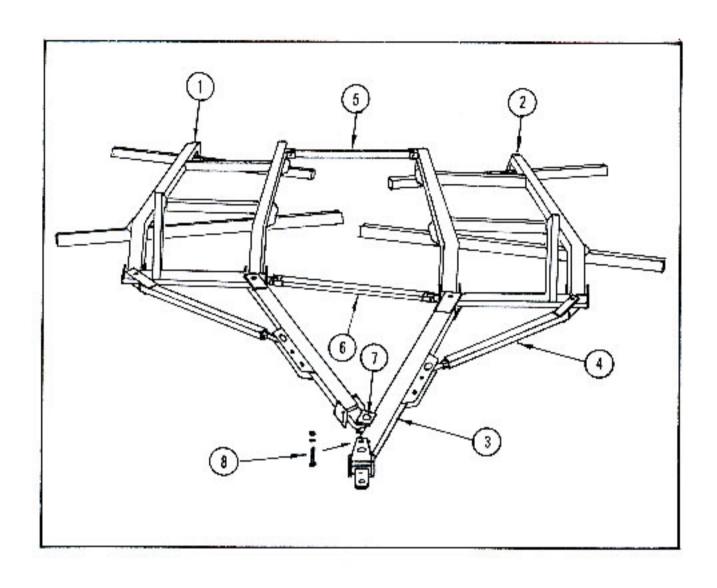
Maximum Speed 20 m.p.h.

ITEM No.	PART No.	QUANTITY	DESCRIPTION
1	25051	2	½" x 2" NC Sq. Head Set Screws c/w Half Nut
2	\$614-A15	11	2" x 12" Spindle
3	SE16	1	Seal
4	LM603049	1	Bearing Cone
5	LM603011	1	Bearing Cup
6	H614	1	Hub
7	WB12	6	9/16"-18 x 11/4"NF Wheel Bolt
8	LM48510	1	Bearing Cup
9	LM48548	1	Bearing Cone
10	WA-13	1	1" SAE Plain Washer
11	WB-33	1	1" NF Castellated Hex Nut & 3/16" x 1½" Cotter Pin
12	1581-624-1	1	15" x 8" x 6 Bolt Imp. Rim (White)
13	DC-15	1	Dust Cap



Fore Aft Control Assembly

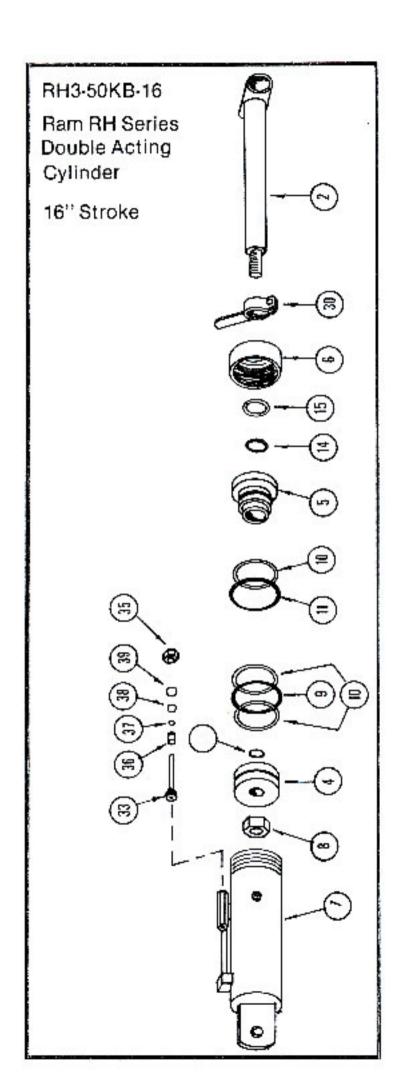
Item No.	Part No.	Quantity	Description
1	25021	1	Top Fore Aft Tube
2	25022	1	Top Fore Aft Eye Bolt
3	RWU65	1	Spring
4	25023	2	1½" Flat Washer
5	25024	1	Bottom Fore Aft Tube
6	25025	1	Bottom Fore Aft Eye Bolt
7	25026	2	1¼" x 5" Pin c/w Cotter Pin
8	25027	2	11/4" x 5" Pin c/w Cotter Pin



Double Wide Disc Assembly

Item No.	Part No.	Quantity	Description
1	25011	1	Right Hand Main Frame Assembly
2	25011	1	Left Hand Main Frame Assembly
3	25003 DW	1	Main Hitch Pole for Double Wide Offset
4	25008	2	Hitch Side Arm
5	25052	1	Rear Spreader Bar c/w Pins
6	25053	1	Front Spreader Bar c/w Pins
7	25054	1	Flapper Pin
В	25055	1	1" x 6", Lock Washer & Nut
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Ram RH3-50 KB-16 Cylinder 5" x 16" c/w Hydraulic Depth Control

Item No.	Part No.	Quantity	Description
1	R-1414A	1	Barrel S.A.
2	R-1567A	1	Shaft S.A.
4	R-3517	1	Piston
5	R-2016	1	Gland
6	R-3009	1	Retaining Nut
8		1	1 1/a" UNF Locknut
9		1	O Ring No. 425 41/2" x 5" Duro 90
10		3	Back up Washer No. 425
11	SE CONTROL	1	O Ring No. 425 41/2" x 5" Duro 90
12		1	O Ring No. 216 Dura 70
14		1	Polypak 2" x 2%" x 5/16" Cased
15		1	Wiper 2" x 2%" x 3/16" Cased
30	R-6040A	1	Shaft Clamp 2" Pd
33	R-6008	1	Valve Stem & Poppet
35	H-6006	1	Valve Head
36	R-6007	1	Valve Sleeve
37		1	O Ring No. 009 Dura 70
38		1	Back Up Washer No. 009
39		1	O Ring No. 114 Duro 70
40	HDLSK	1	Repair Kit Consists of 37, 38, 39

Kello-Bilt Warranty Information

To The Purchaser

Kello-Bilt Industries Ltd. warrants its products to the original owner for a period of one year from date of purchase. All matters related with the warranty of our products must be handled through the authorized selling dealer. Warranty does not cover normal wear of the disc components or demages caused by lack of maintenance or misuse, and is subject to the following provisions:

BUBJECT TO THE LIMITATIONS HEREINAFTER CONTAINED, every new Form Implement las defined in The Ferm Implement Act, Chapter 20 S.A. 1967 and emenoments therets) if described in this peris menual and if purchased by a farmer for his own use, is covered by the warranties hereination made, and referred is in the said ACT AND NO OTHER.

LIMITATIONS OF WARRANTY

- Original Purchaser Only: This said warranty is to the original purchaser only and to no other sersion.
- Duration; The duration of lime limit of the epid warranty thereins/lier called the warranty period; shart be one (1) year from the data that the now farm implement is liter used within the liter normal assessing of use for its intended purpose.
- 3. Regiscement or Repair Only: The sole liability for breach of the said warranty shall be to replace or repair free of charge including installation, at the Soliar's pace of Suamess, any parts which prove to be defective within the extractly parted, under reasonable operating concitions and proper use, care and matrix-centre; the said defective part or parts are to be returned to the Seller within 30 days of being found defective; IN NO EVENT shall there be any liability for any consequential damages such as damages for loss of profit or expenses, out of posetion of libraries.
 - 4. Replacement Parts: Will be warranteed for a period of 90 days.
- Labor: Any leticul subject to warranty must be authorized by a Kello-Bitt Industries.
 Ltd. representative before work is started. Warranty labour allowance 8 rates will be handled according to established Service Warranty Policy.
- Warranty Paris: Detective parts are to be alored at the dealership & warranty will be subject to inspection by a Kello-Bih industries Ltd. representative or shipped propaid to Stettler, Alberta, Cenada.
- Warranty on Wechines Used For Custom Work, Rental or Industrial/Construction
 Use: Warranty on clace used for custom work, rental or Industrial/Construction use shall be
 stated twilow, with the exception that it shall be for a period of 90 days only.
- Government Legislation: Warranty terms & conditions are subject to provincial or state legislation.

- Warranty Will be Veid: If any disc component is shered or modified, unless written authorization is granted by Kello-Bit Industries Ltd.
- 10. Notice of Claim: The Purchasor shall forthwith alter any alleged breach of warranty within the warranty pencil, notify in writing the particulars of the Purchasor's claim by registered mail addressed to the Seller and the Manufacturer at their respective addresses, giving a coscription of the new Farm implement and the return address of the Purchaser.
- 11. No Other Warranties, Conditions or Representations: Purchaser acknowledges that this agreement constitutes the entire contract and there are no other representations, warranties or conditions, expressed or implied, statutory or concrete, other than as contained harein or delivered in writing herewith. Without limiting the generated of the foregoing. Purchaser agrees that there is no warrantly as to the year and model, even it stated harein.
 - 12. Time: Time shall strictly be of the essence.
- 12. No Warranty on Tires Tubes Accessories: No warranty whatevers is given as to tree and lubes or saits accessories unless such accessories are new and are manufactured by the manufacturer named on the reverse also hereof and such accessories are sold as pan of the set one form improved.
- Disc Blade Warrandy: (1) Full warranty will be given for one year from date of purchase for a straight cireottonal break or split disc caused by faulty or defective material.
- (2) 60 per cont warranty will be given for one year from cale of purchase for the following:
- (a) Irregular breaks, tear type fractures, chipped or dented edges resulting from use in severe areas such as rocks or stumps, (b) Centre broken out — caused by rock or stump conditions, excessive flexing of discs or loose gang bolts.
- [3] Warranty limited to disc replacement upon return of damaged disc, prepaid to Sostner, Alberta, Canada.
- 15. Warrenty Property Other than New Form Implementa
- |Sot forth above, warranty, if any, on property other than New Farm Implements, such warranty to be honoured only at Stattler's place of business).
- I hereby acknowledge receipt of a true copy of this Agreement and that I am the Purchaser named therein.

Because we are constantly striving to improve our products, we reserve the right to incorporate any changes related to design, materials and specifications at any time, without notice or obligation.