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345HD Parts Manual

TURF AERATOR

MODEL 345HD

PARTS MANUAL



GROUNDSMAN INDUSTRIES LTD

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Leading the field in aeration technology

DELIVERY DATE

SERIAL NUMBER

ENGINE NUMBER

It is essential to quote the machine model and serial number when making service enquiry's or ordering spare parts to avoid any delay.

The serial number of your Groundsman pedestrian operated Turf Aerator **is located on the right side body panel if viewed from the rear of the machine.**

This machine was supplied by:

Dealer address:

If you require any further advice or assistance you can contact **Groundsman Industries directly on: TEL: 028 2766 7049 FAX: 028 2766 6855**
Email: bwarke@groundsmanindustries.co.uk

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SAFETY FIRST !

1. ALL GUARDS MUST BE CORRECTLY FITTED !

Always ensure that all guards are in position, properly fitted and maintained. Do not attempt to operate the machine before making this check each time the machine is used.

2. BEWARE OF BY-STANDERS.

Operators should be aware that it is possible that debris can exit from the sides of the machine, so this area is best kept clear.

3. ALWAYS OPERATE SAFELY.

NEVER operate the machine with it in the raised position, always turn the engine switch to the OFF position. It is possible that petrol can leak through the filler cap if the tank is more than half full when the machine is in the raised position. Care should be taken not to spill fuel on greens or cause to ignite.

4. NEVER OPERATE THE MACHINE WITH ANY PARTS MISSING.

Check the machine regularly for loose or damaged parts. Pay particular attention to the safety guards. Always use genuine Groundsman Industries replacement parts in the interest of safety. Failures caused by the use of 'spurious' replacement parts will NOT be covered by our warranty, nor will any liability be accepted for damages of injury incurred.

5. NO LIABILITY WILL BE ACCEPTED in respect of machines modified without specific written permission of Groundsman Industries Ltd.

6. NO LIABILITY WILL BE ACCEPTED where injury or damage is caused by using the machine in any manner other than that detailed in this manual.

7. Always use the manual for quick and easy reference.

DO NOT START THIS MACHINE OR CARRY OUT ANY MAINTENANCE ON THIS MACHINE UNTIL YOU HAVE READ THE SAFETY PRECAUTIONS AS STATED ABOVE.

WARRANTY

Examination of the goods has been made by or on behalf of the purchaser and no warranty condition, description or representation on the part of the manufacturer is given or is to be implied or has been given from anything said or written in the negotiations between the parties or their representative beyond those mentioned below. Any statutory or other warrant condition, description or representation expressed or implied as to the goods is hereby expressly excluded.

In lieu, thereof the manufacturer undertakes to make good by repair or replacement at its option free of all charge during normal working hours. Any defects in the goods arising in the manufacturers opinion from faulty design, materials or workmanship which shall become apparent within a period of 24 months in the case of machines, and 12 months in the case of spares from the date of receipt of the goods. At the termination of which period, all liability on the manufacturers part ceases. Provided always and the above warranty is subject to the following conditions:

- A. The manufacturers liability extents only to the repair or replacement and it accepts no liability for any consequential or other loss, damage or injury resulting directly or indirectly from any defect in the goods.
- B. The manufacturers warranty does not extent to failures, defects or damage attributable to wear and tear, improper adjustments, neglect, and alteration of specification or accident.
- C. All defective parts must be returned to the dealer immediately together with full particulars of the defects, the machine number, the hours worked and the date machine was supplied.
- D. The manufacturers warranty does not extend to proprietary or other components not of its manufacture, but it will as far as possible pass to the purchaser any benefits of any guarantee given to the manufacturer in respect of such components.
- E. In the event of the rejection by the manufacturer of any claim, the part or parts returned will be destroyed unless specific instructions to the contrary were given when part or parts were returned.
- F. No claim will be considered if other than genuine parts manufactured by the manufacturer or its order and listed in its catalogue are used.
- G. This warranty should only be construed as strictly limited in its application and is valid only in the country of purchase. If the goods shall change hands during the period of this warranty, this warranty will cease to have effect.
- H. The manufacturer accepts no responsibility for damage by fire or accident of any kind to any goods returned under the terms of this warranty. The manufacturer does not accept responsibility for any accident occurring to such goods whilst on the premises.
- I. This warranty shall cease to have effect if the purchaser removes, defaces or alters the manufacturers number plate (serial number) or any other numbers or marks affixed to any Groundsman Industries Ltd product.
- J. In respect to machines sold which have been used since the date of manufacture for commercial, contract, hire, rental or demonstrator purposes, the warranty on this product is limited in duration to 12 months from the date of purchase.

TECHNICAL INFORMATION

TURF AERATORS

Model 345HD

Swath 450mm (18")

Weight 160kg (352 lbs)

Overall Dimensions:

Width 78cm (31")

Length 148cm (58")

Height 91cm (36")

Engine

5.5 HP Honda GX160

Drive

Single vee-belt and chain (O-Ring Sealed)

Mechanism

Sealed bearing crank driven elliptical
plunge action

Tyres

4 Pneumatic 500 x 6 (Front Wheels Driven)

PERFORMANCE CHART

Aeration Pattern	Forward Speed	Coverage	Penetration
75mm (3") Centres	38m/min	1026m ² /hr	130mm max
(Twin Holder)	(42 yds)	(1260 sq yds)	(5") max

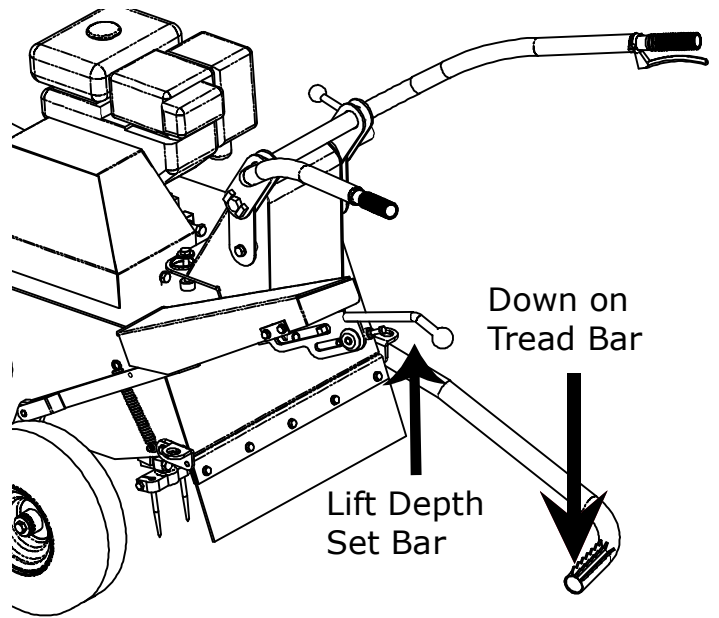
*NOTE

**Aeration patterns given
are with twin holders.**

**Triple, Quadra and Cluster
holders give denser patterns
accordingly.**

Basic operating instructions

1. Press foot down on tread bar, lift depth set bar, then slowly releasing tread bar engage tines in work position ----- ground contact.
2. To take out of work, press foot down on tread bar until depth set bar engages with latch.

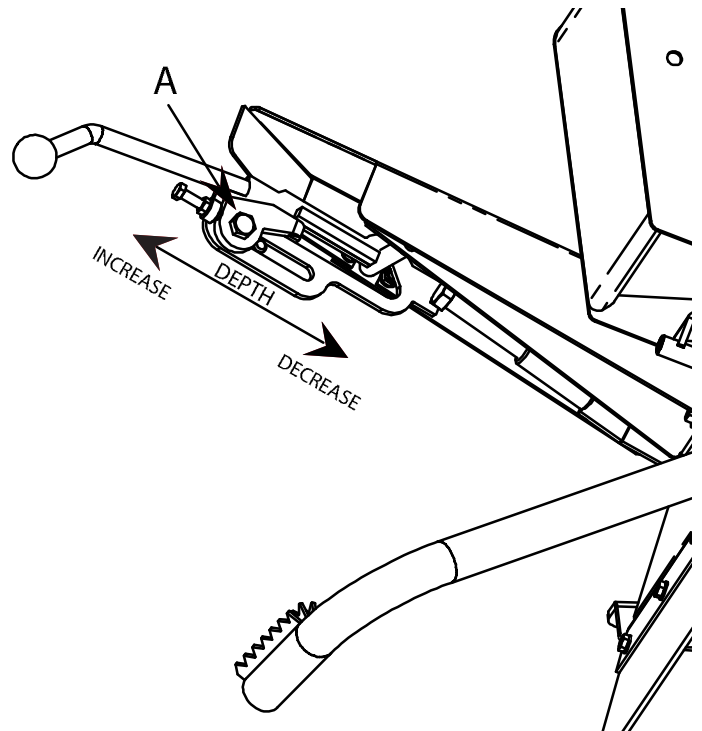


TO ADJUST THE TINING DEPTH

1. Ensure the machine is in the raised out of work position.
2. Loosen clamp bolt A with a 19mm spanner.
3. Slide in the directions shown to achieve required depth.

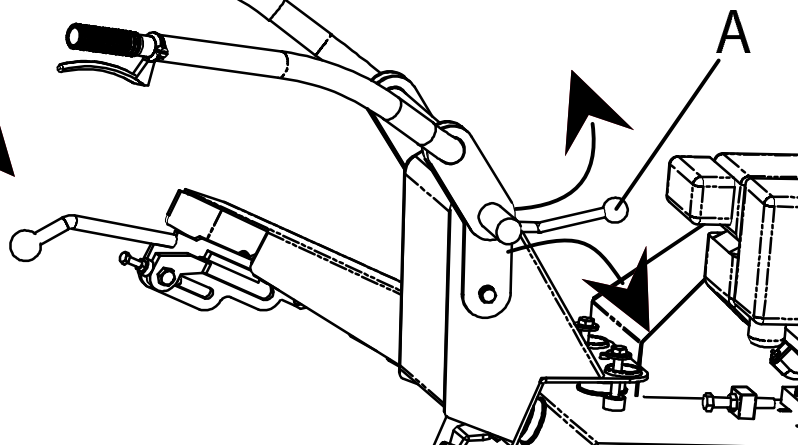
Note

The depth slide may be capable of being set beyond the maximum depth. For greater stability and traction do not set the depth slide deeper than the machine is capable of going in the given directions. The rear wheels should always remain firmly on the ground helping support the machine.

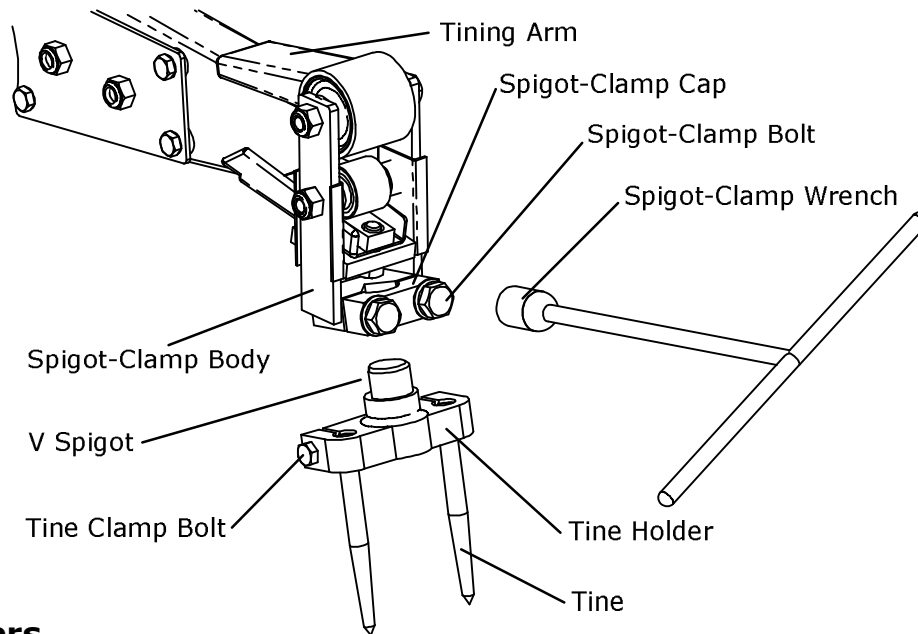


OPERATOR HANDLE ADJUSTMENT

1. Loosen lever A (Anti-clockwise)
2. Adjust handle to the desired height
3. Tighten up lever



CHANGING THE TINES AND HOLDERS



Tines & Holders

Groundsman provides clamp type tine holders in twin, triple, quad and Quint. Tines are available in a variety of sizes and in order to accommodate these the tine holders can be supplied in a range of socket sizes as follows:

Twin	1/2"	5/8"	3/4"	7/8"
Triple	1/2"	5/8"	3/4"	
Quad	1/2"	5/8"		
Quint	1/2"			

* See Groundsman Tine & Holder catalogue for illustrations and descriptions

Fitting the tines to clamp style holders.

Ensure that the tine clamp bolt is loose. Place the holder on a solid surface or in a vice, insert the tine into the socket and using a hammer make sure they are in all the way in to the stop. Tighten the tine clamp bolt firmly with the wrench provided in the tool kit.

Cluster Tines

Cluster tines are available in six, eight and twelve. These are fitted to the spigot mounting flange by two fixing nuts and tightened using the wrench provided in the tool kit. When the cluster tines wear out, they are unbolted from the mounting flange, discarded and replaced with new ones.

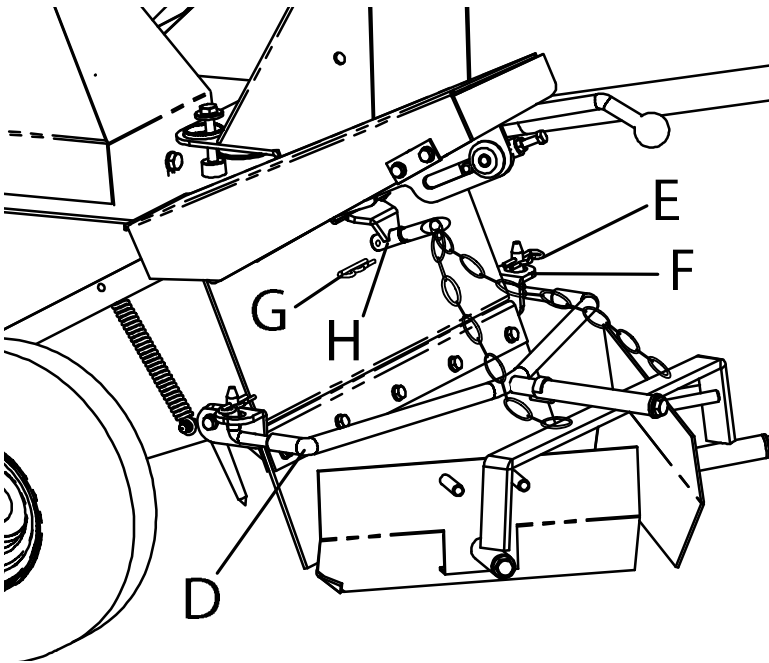
Fitting the tine holders to the heavy-duty machine: Model 345HD

All the tines are attached to the tining arms by a quick-change spigot clamp mounting. The spigot is located at the top of the tine holder and a vee, which locates in the spigot clamp body ensures that orientation is always correct. Loosen the spigot clamp bolts with the wrench provided in the tool kit and pull back the spigot clamp cap. Ensuring that the vee portion of the tine holder spigot is facing forward towards the clamp body, insert the holder and tighten the spigot clamp bolts.

Removing the tine holders from the machine

Slacken the spigot clamp bolts, just enough to release the tine holder spigot and remove.

FITTING ACCESSORY ATTACHMENTS



Windrow Attachment

Fitting the windrow (Swath board) and surface roller attachments.

(1)

Lower machine into the work position

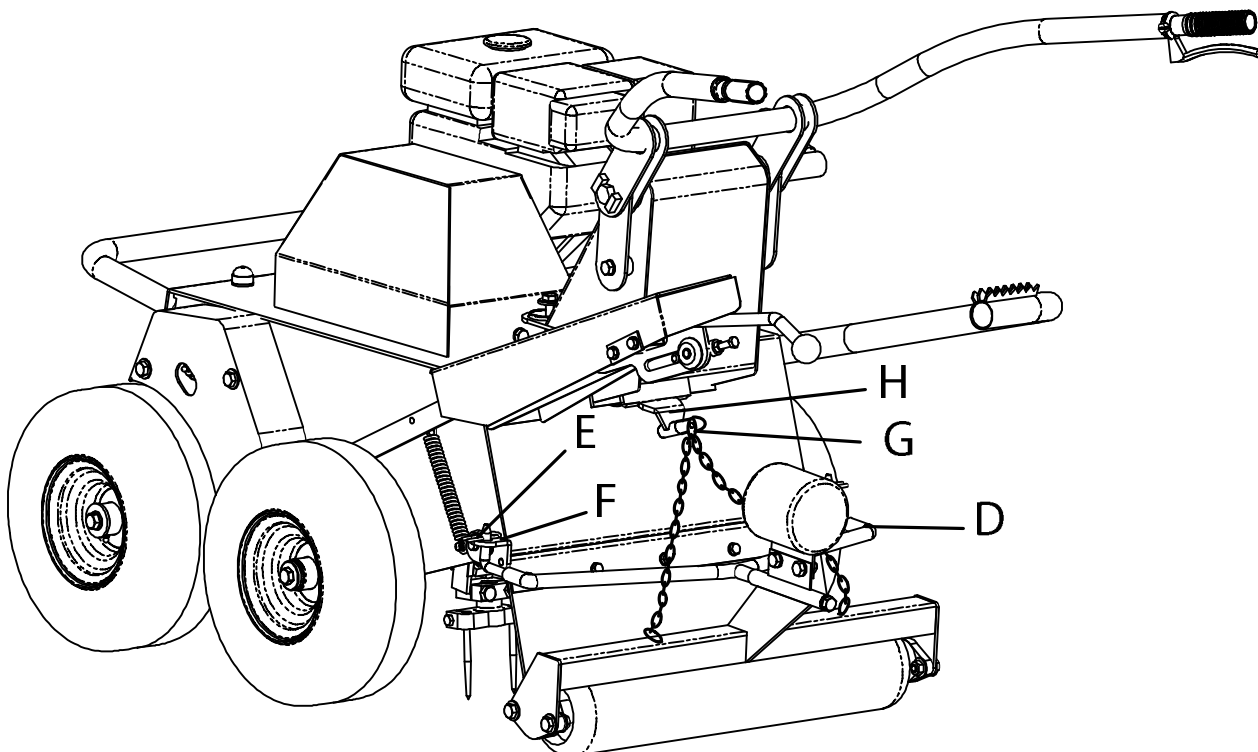
(2)

Lift attachment bar **D** into brackets **F** and fit springs-pins **E**.

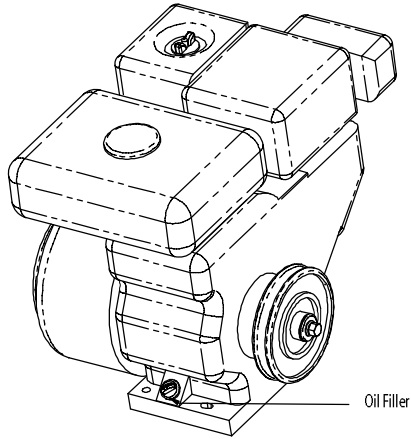
(3)

Place chain peg into top bracket **H** and fit spring-pin **G**

Surface Roller



RUNNING MAINTENANCE

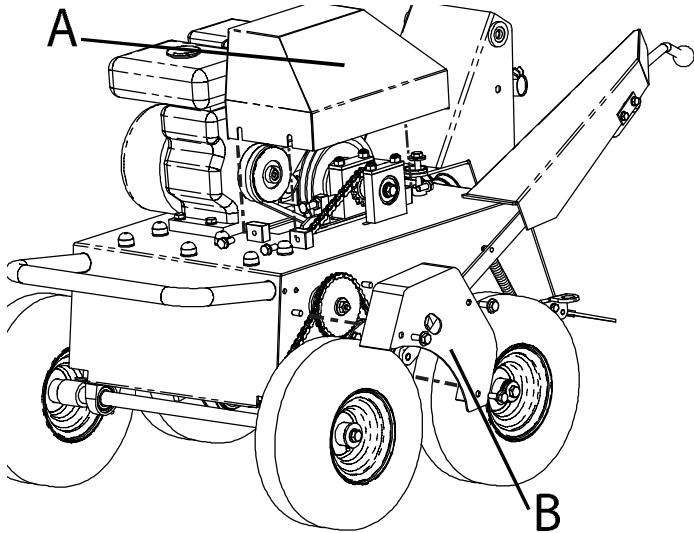


ENGINE

Please refer to the Honda Owners Manual for instructions regarding engine maintenance.

RUNNING MAINTENANCE

GUARD REMOVAL

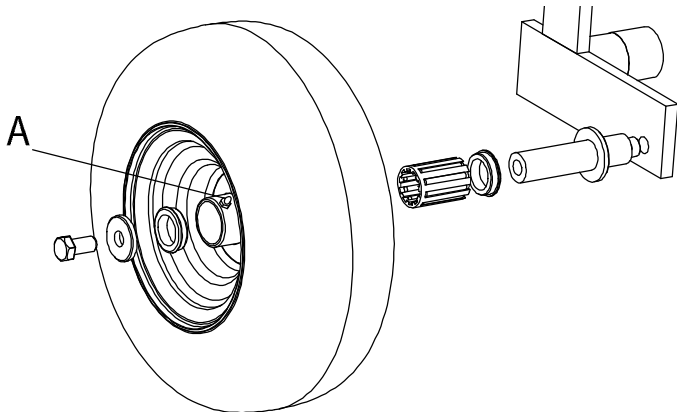


1) Top guard **(A)**, loosen bolts, lift off slotted guard.

Access to main drive chain and V belt.
Using 17mm spanner.

(B) Ground drive chain guard remove bolts, remove guard. Using 17mm spanner.

REAR WHEEL GREASING POINT



(1) Apply general purpose grease at **A**. Check monthly.

FINE HIGHT ADJUSTMENT

To adjust hight Lift machine up onto front support tube.

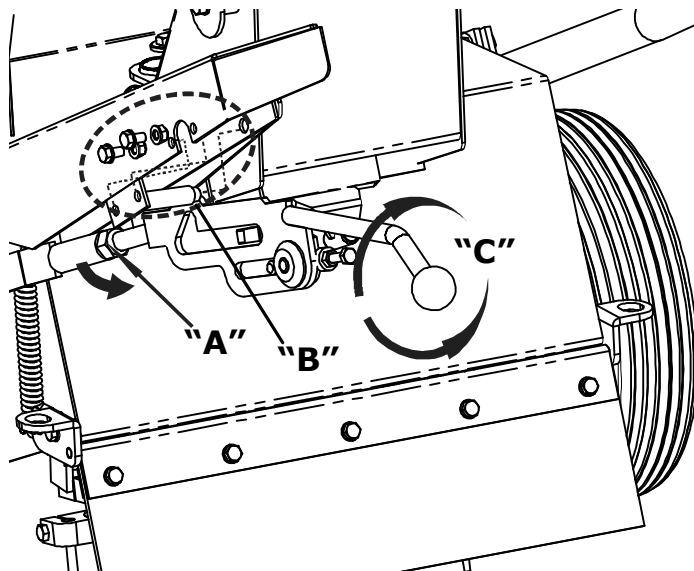
Slacken nut **"A"** Remove 2 bolts from Latch Pin **"B"** and remove pin.

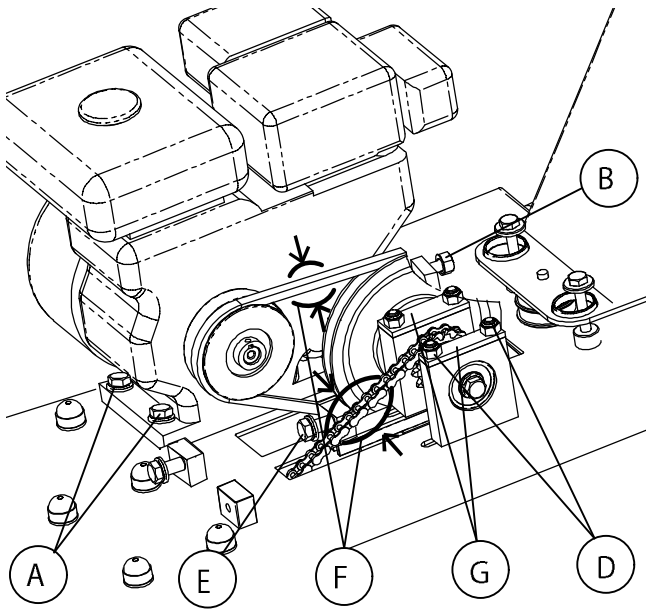
To INCREASE HIGHT Slacken nut **"A"** Then turn lever **"C"** Clockwise.

To DECREASE HIGHT turn lever **"C"** Anti Clockwise.

ONE FULL TURN = 6mm (1/4")

ALWAYS TIGHTEN NUT "A" AFTER
ADJUSTMENT OF HIGHT





MAIN DRIVE V-BELT ADJUSTMENT

1. Remove safety guard.(Ref. safety guard removal)
2. Loosen engine nuts A
3. Loosen lock nut on adjusting screw B tighten adjusting screw to correct belt tension 10mm (ensure alignment of pulleys)
4. Tighten lock nut
5. Tighten engine nuts A
6. Replace safety guard.

MAIN V-DRIVE BELT REPLACEMENT

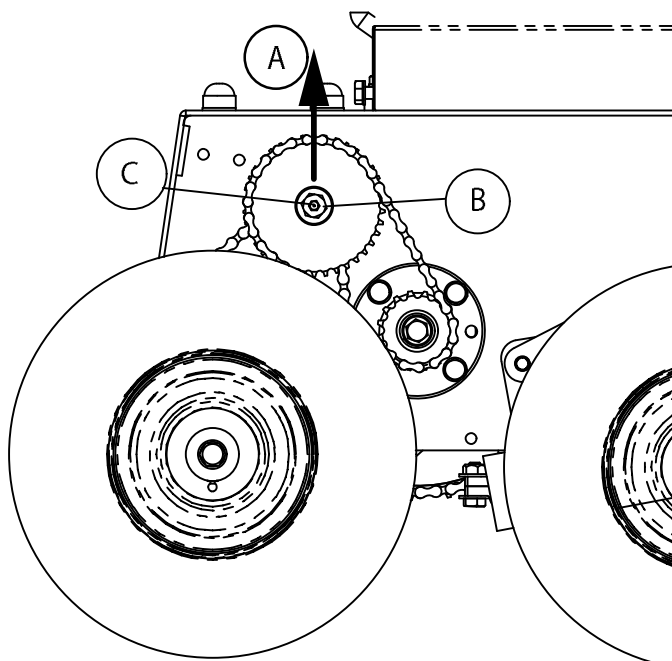
- 1) Remove safety guard A (see guard removal Page 10).
- 2) Loosen nuts A and D.
- 3) Loosen lock-nuts and adjusting screws B and E.
- 4) Slide engine and pulley shaft close together and remove belts.
- 5) Replace with Groundsman main drive belts.
- 6) Re-adjust belts and chain as per above instructions.

MAIN DRIVE CHAIN ADJUSTMENT.

- 1) Follow procedures 1& 2 above.
- 2) Loosen nuts D
- 3) Loosen off adjusting screw B to release belt tension.
- 4) Loosen lock-nut on adjusting screw E & tighten to correct chain tension F = 10mm (ensure alignment of pulley shaft).
- 5) Tighten lock-nuts.
- 6) Tighten nuts D.
- 7) Follow procedures 3-6 above (Main drive Vee belt adjustment).

Note

Shims (G) GI025A & GI026A Can Be Mounted Below The Pulley Shaft Bearing Blocks If Extra Adjustment Of The Main Drive Chain Is Required Or Remain On The Top Of The Block, If Adjustment Is OK



GROUND DRIVE CHAIN ADJUSTMENT

- 1) Remove Safety guard (ref safety guard removal).
- 2) Loosen bolt B.
- 3) Hand tension both chains by pulling up on sprocket as indicated by arrow tighten bolt A.
- 4) Lightly oil chains.
- 5) Grease spindle via grease nipples C.
- 6) Replace safety guard.

LONG TERM MAINTENANCE

The Tining Mechanism

All Models

Sealed for life bearings are used throughout the tining mechanism, they require no maintenance. These bearings are located on the crank-shaft and shackles towards the front of the machine. If high pressure washers are used avoid concentrating the nozzle directly at sealed bearings.

Rubber shock absorbing joints are used at the rear of the mechanism where the tines are located; they are not affected by grit or dirt and cannot be damaged by high-pressure washing.

Model 345HD

The only wearing parts on the mechanism is the lateral support block and the lateral wear shim (**fig 4**) These items seldom need attention however if side (lateral) movement at the tine holder exceeds 10mm (7/16") the following procedures should be allowed:

With reference to Fig. 4

Slacken the anchor bolt and remove the bias-rod bolt.

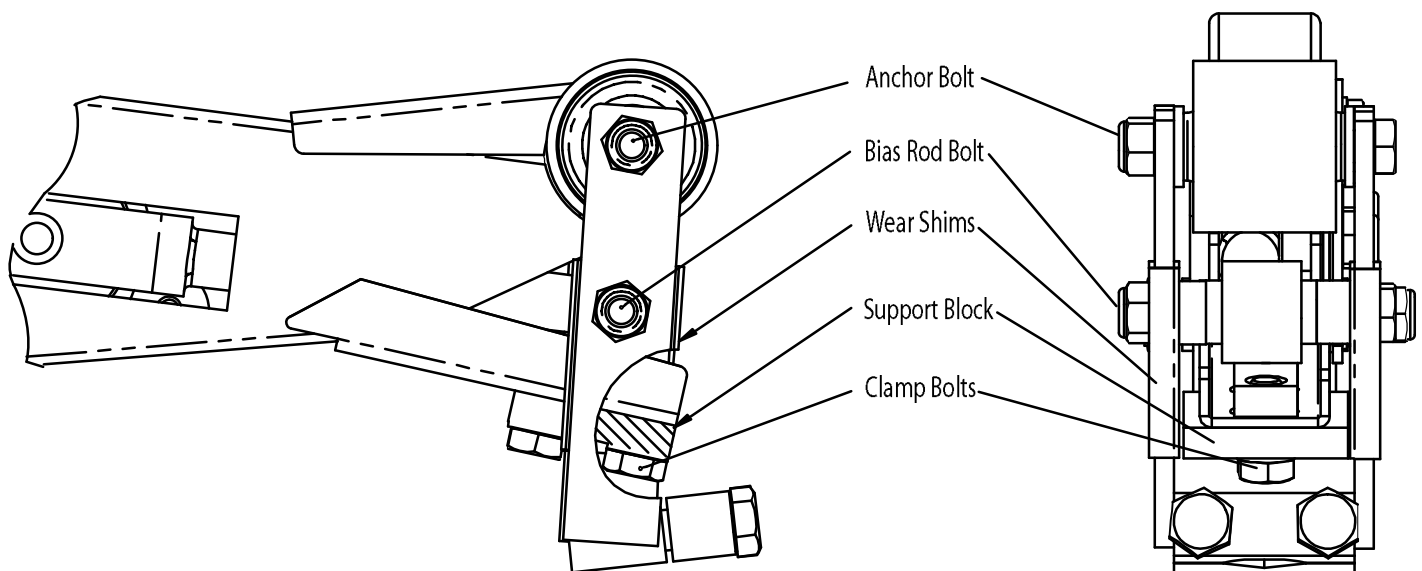
Pivot the spigot-clamp body away from the assembly to expose the lateral support block. The wear shims will be released, these should be examined for wear and replaced if necessary.

Remove the two clamp bolts on the under side of the support block, rotate the block 90 degrees and refit.

If all four faces on the block have been used then replace it.

Fig 4

Introduction



HOW TO GET THE BEST FROM YOUR GROUNDSMAN

The increasing awareness of the importance of properly aerated greens has increased the demand for high performance equipment. It is for this reason that Groundsman Industries have undertaken four years of intensive research and development to produce a range of 'Fine Turf' aerators which excel in every department. It is important that every new owner should learn how to get the best results from their Groundsman.

MODEL 345

This range is available in Medium Duty (MD) and Heavy Duty (HD). These fixed front wheel drive machines are general purpose, they are basic to operate and capable of a wide range of aeration tasks.

Changing the tine holders

The change over of tine holder's use the 19mm wrench or the T wrench supplied in the tool kit. See pages 7 & 8. In the case of the model **345** the machine can be tilted onto its nose to help access the tine holders. A level firm surface should be selected for this operation and the machine must be **SWITCHED OFF**.

Caution fuel will leak from the fuel tank filler cap in the forward tilted position if the tank is more than 2/3 filled.

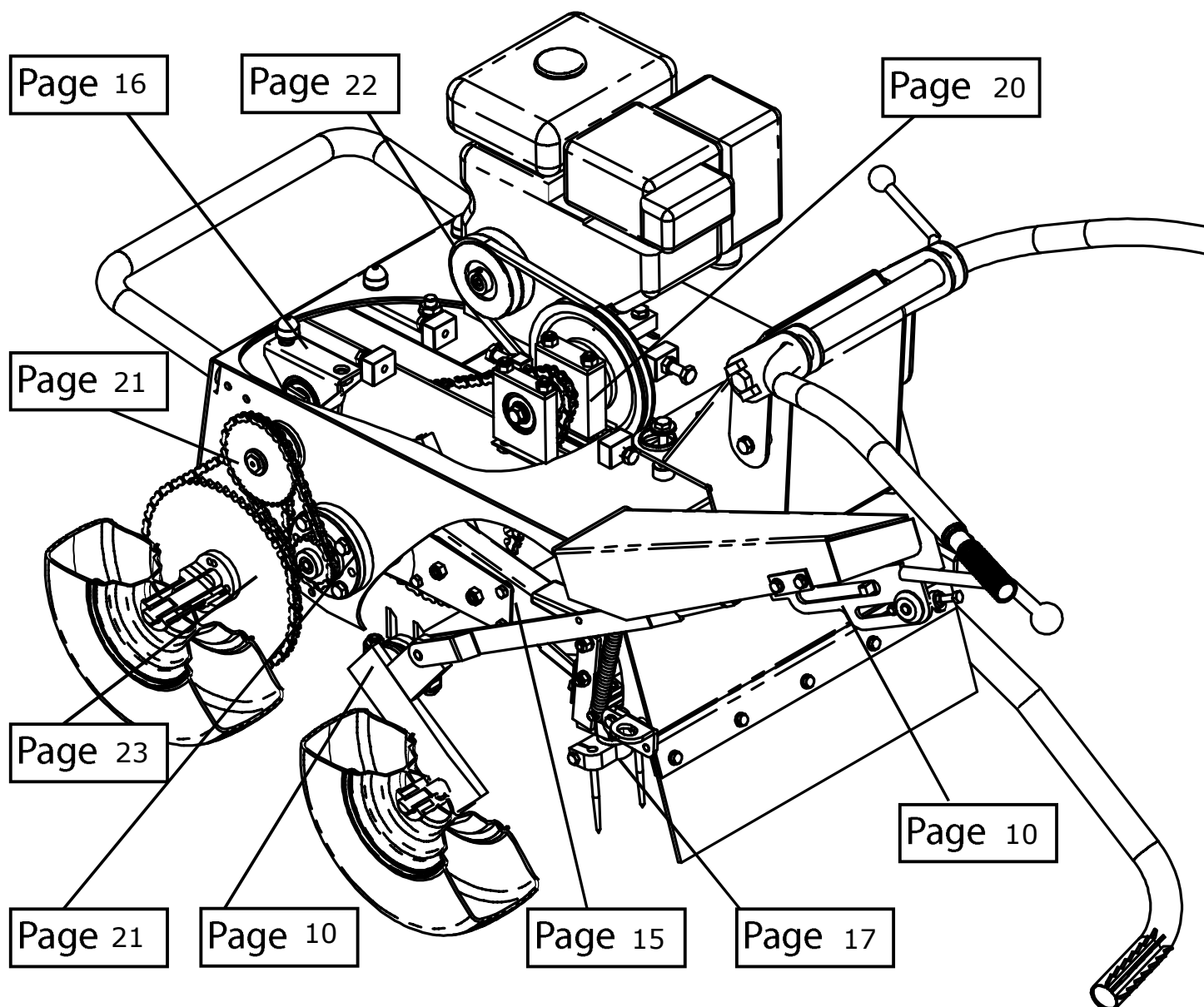
Depth of aeration can be altered (page 6 middle diagram). The depth of penetration depends on the ground conditions, it is best when aerating hard ground e.g. a cricket table, that you start with low density holders i.e. twin holders using 7/16" or 3/8" diameter solid tines, set at half depth on the first trial and gradually lower until the machine shows signs of hopping, it is now aerating to the maximum penetration. Greater depths may be achieved on subsequent passes especially if the aerated surface has been watered and is given time to soak. Never set the machine deeper than it is capable of achieving in given conditions as it will lose the support of the rear wheels making the machine have less stability and traction. When starting off in work, lift up the operators handles to assist clutch-drive engagement and in the case of the 345HD machine, give more traction to the front wheels.

Windrow & Surface-roller attachments

A windrow or surface-roller can be fitted to all models. The best use of these implements can be obtained on a fine turf surface, i.e., tightly mowed

NOTE

Consult your GROUNDSMAN TINE & HOLDER CATALOGUE for detailed descriptions of all available tines and holders, plus their recommended uses. This catalogue is supplied with the machine or available from Groundsman Industries free of charge.



Page No

DESCRIPTION

10

Fine Height Adjustment

10

Rear Wheel Grease

15

Crank Assembly

16

Anchor Bearing Block Assembly

17

Implament Head

20

Pulley Shaft Assembly

21

Disc Drive Assembly

21

Compound Spindle Assembly

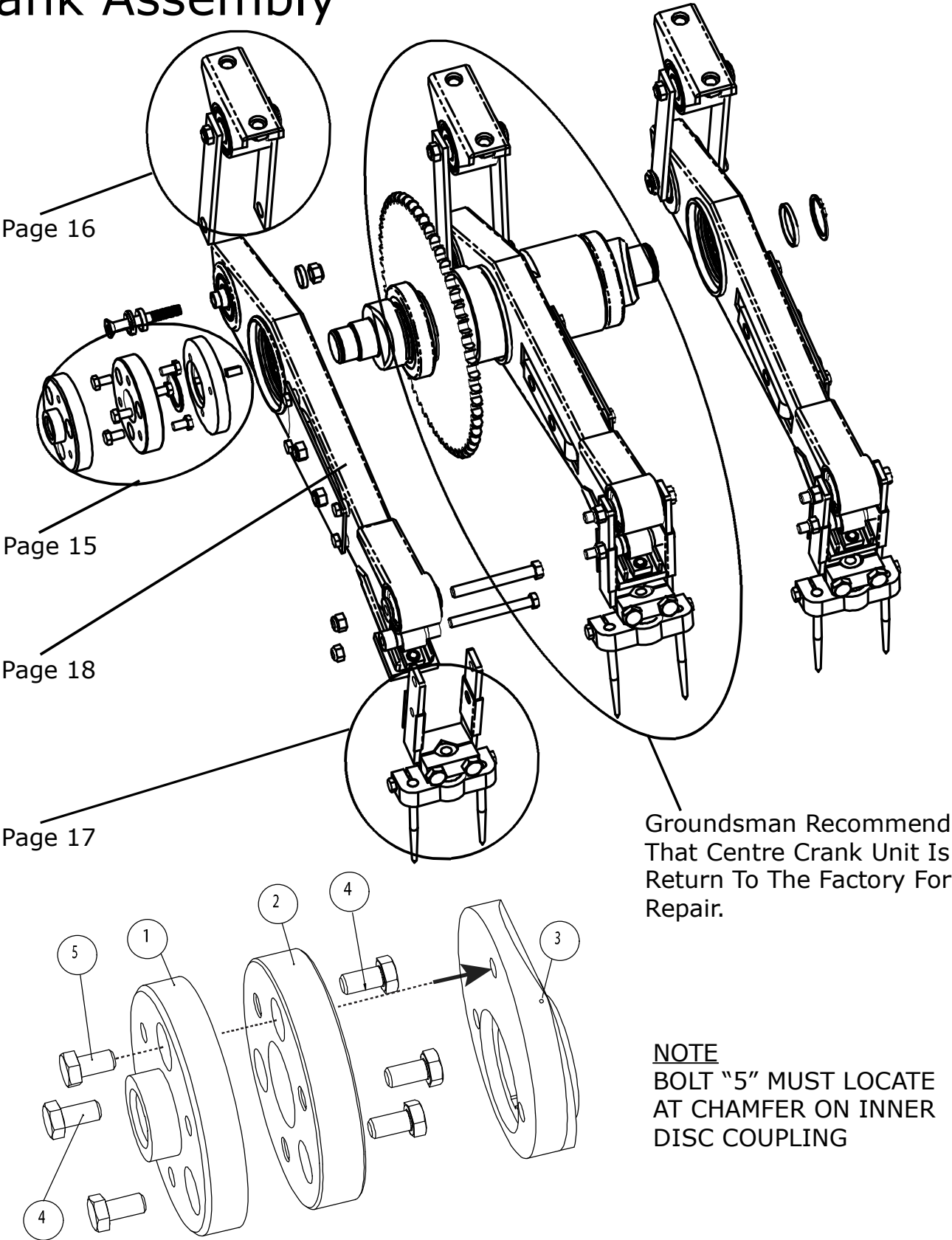
22

Belts & Chains

23

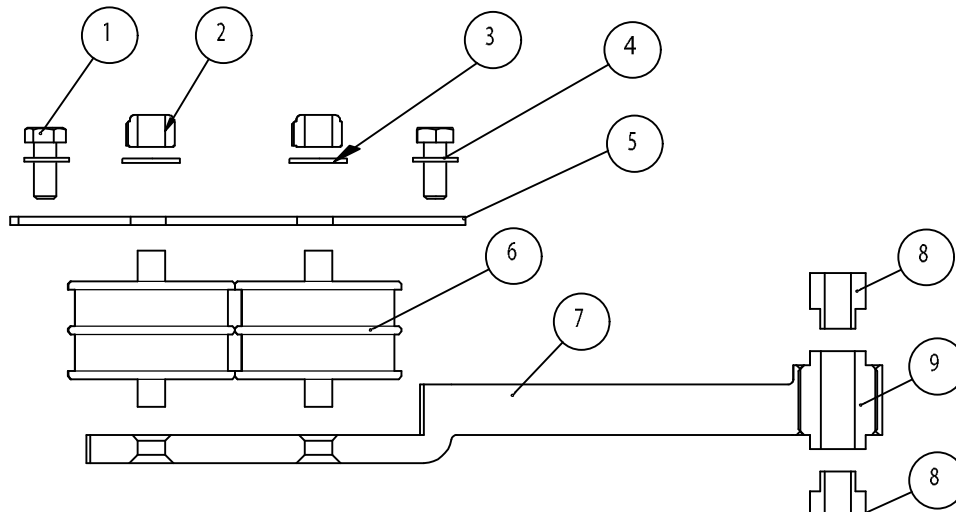
Front Axil Assembly & Rear Hub

Crank Assembly



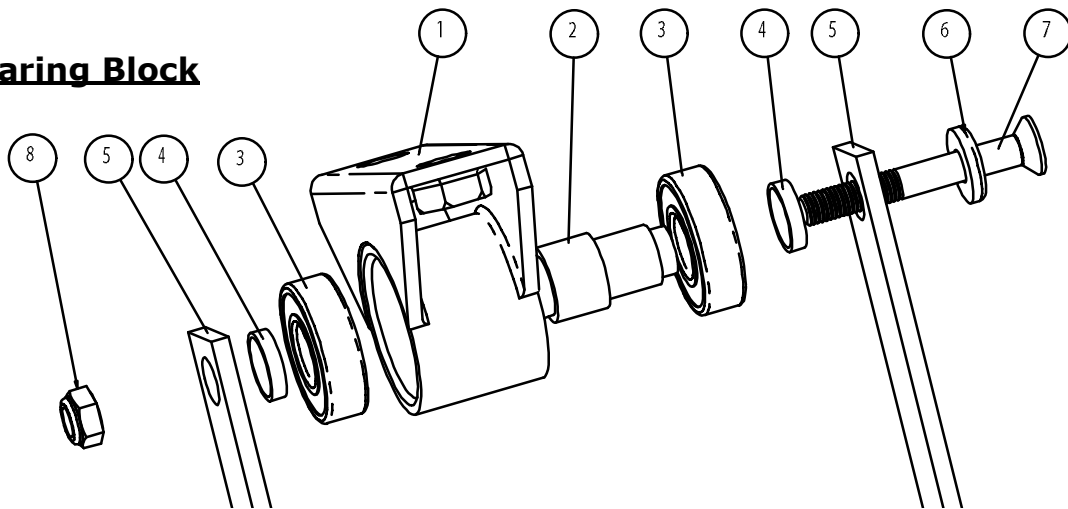
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI011B	Outer Disc Coupling
2	1	DPC001	Disc Drive Rubber
3	1	GI011A	Inner Disc Coupling
4	5	BPC0816S	Hex Head Bolt
5	1	BPC0812S	Hex Head Bolt

Bias Rod



ITEM No.	QTY.	PART NO.	DESCRIPTION.
1	2	BPC 0825	Bolt
2	2	NPC10NY	Nylock Nut
3	2	WAS10	Washer
4	2	WAS08	Washer
5	1	GI308	Bias Rod Side Cover
6	2	MPC118	Circular Mount
7	1	GI309	Bias Rod
8	2	GI259A	Bias Rod Spacer
9	1	BPC003	UD Bush Bias Rod

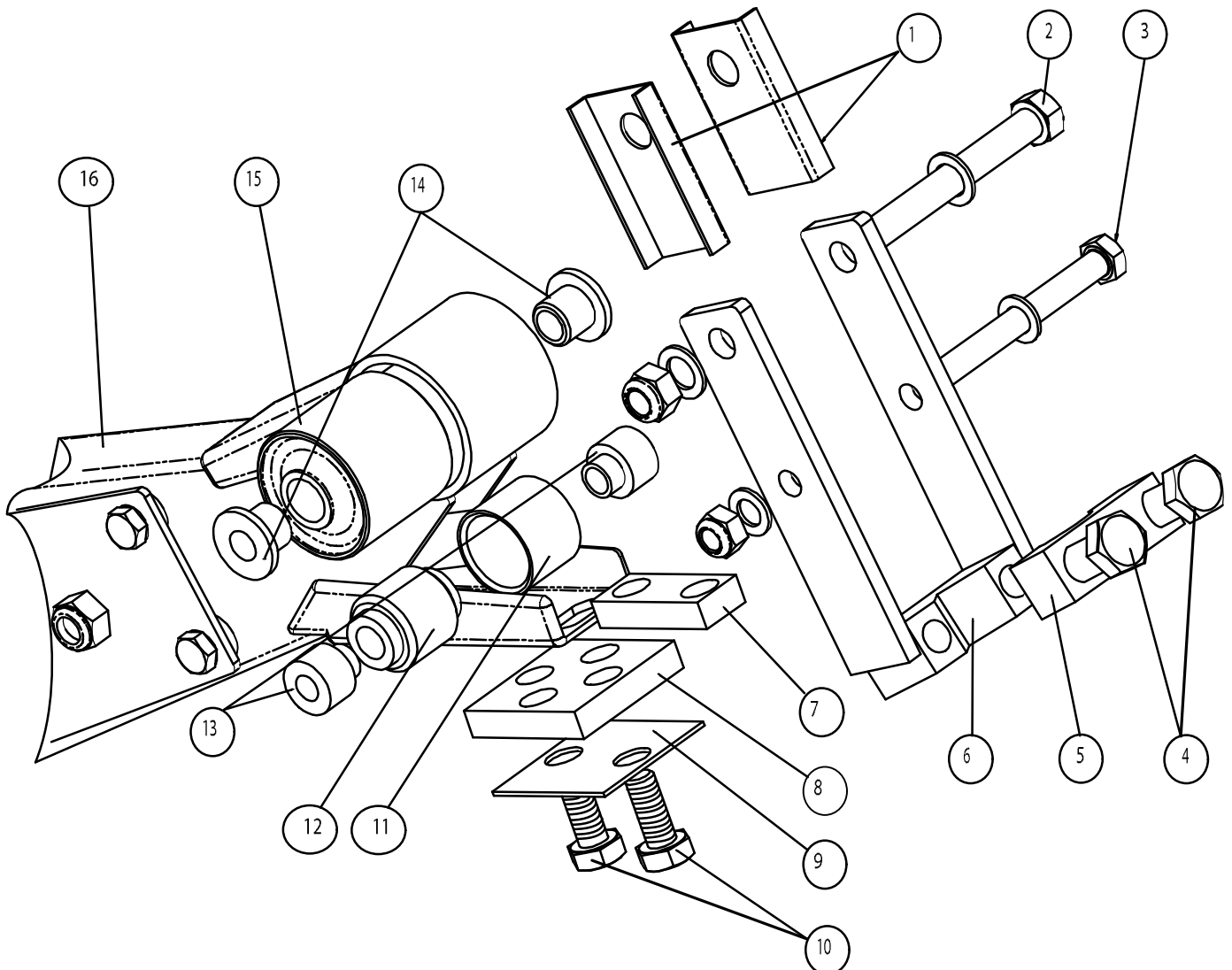
Anchor Bearing Block **GI027E**



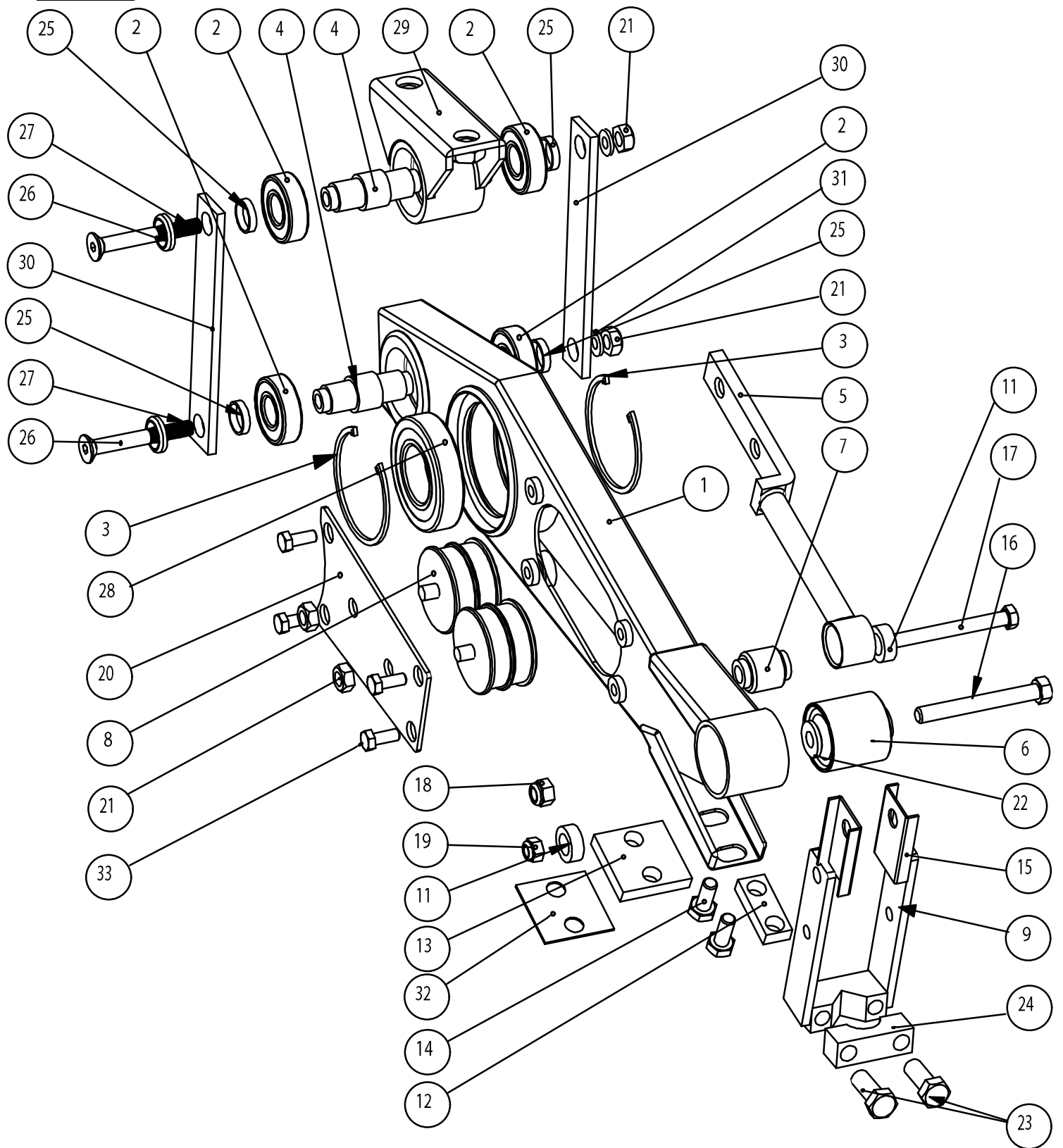
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI027B	Shackle Anchor Bearing Block
2	2	GI253	Shackle Bearing Spindle
3	2	BPC027	Crank Bearing Rear
4	2	GI033	Shackle Spacer
5	2	GI006	Shackle Plate
6	1	WAS10CK	Counter Sunk Washer
7	1	BPC005	Shackle Bolt C/Sunk
8	1	NPC10NYT	Nylock NUT Slim

IMPLAMENT HEAD

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	GI314	Lateral support shim
2	1	BPC716312HB	Hex head bolt
3	1	BPC38312HB	Bias rod bolt
4	2	BPC127	Bolt spigot clamp
5	1	GI256	Sc holder clamp cap
6	1	GI259B	Spigot clamp body
7	1	GI313A	Imp.Head clamp block
8	1	GI312	Lateral support block
9	1	GI313B	Imp.Head clamp plate
10	2	BPC1025S	Hex head bolt
11	1	GI309	Implement bias-rod
12	1	BPC003	Bush bias rod UD
13	2	GI259A	Bias rod UD spacer
14	2	GI005A/B	UD bush insert flat / stepped
15	1	BPC002	Bush crank arm UD
16	1	GI002C	Crank box arm



GI003H

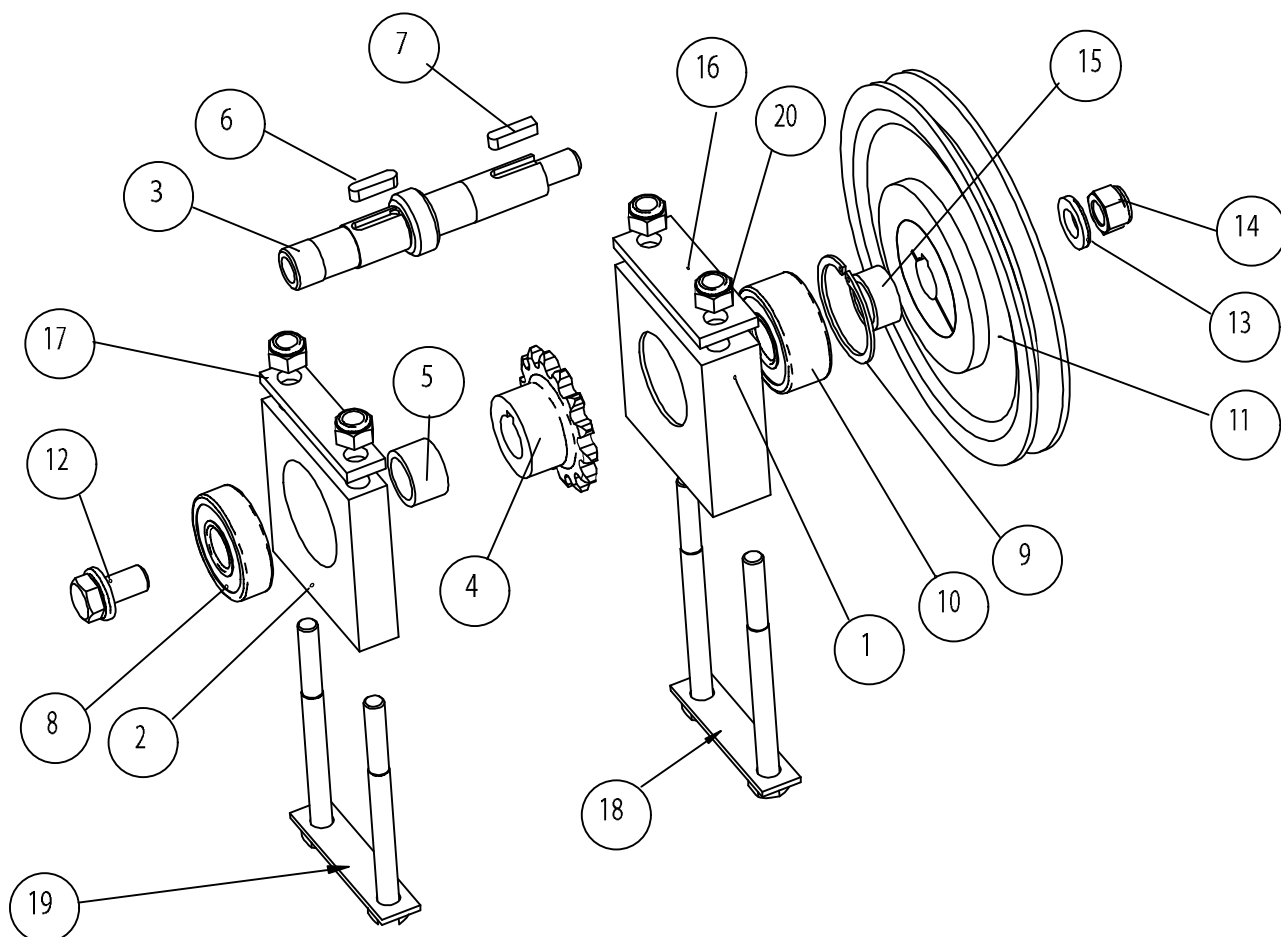


GI003H**Crank Arm Parts List**

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI002C	HD Crank Right
2	4	BPC027	Crank Bearing Rear
3	2	CPC018	Crank Centre Circlip
4	2	GI253	Shackle Bearing Spindle
5	1	GI309	Bias Rod
6	1	BPC002	UD Bush Metalastic
7	1	BPC003	UD Bush Small Bias Rod
8	2	MPC118	Circular Mount
9	1	GI259B	SC Imp Head
11	2	GI259A	Bias Rod UD Spacer
12	1	GI313A	Clamp Block Implement Head
13	1	GI312	Lateral Support Block
14	2	BPC0830S	Bolt
15	2	GI314	Lateral support shim
16	1	BPC716312HB	Hex Head Bolt
17	1	BPC38312HB	Hex Head Bolt
18	1	NPCF716NYT	Nylock NUT
19	1	NPCF38NY	Nylock NUT
20	1	GI308	Bias Rod Cover
21	4	NPC10NYT	Nylock NUT Slim
22	2	GI005A	UD Bush Insert
23	2	IPC007	Implement Head Bolt
24	1	GI256	Implement Head Clamp Cap
25	4	GI033	Shackle Spacer
26	2	BPC005	Shackle Bolt C/Sunk
27	2	WAS10CK	Counter Sunk Washer
28	1	BPC110	Crank Centre Bearing
29	1	GI027B	Shackle Anchor Bearing Block
30	2	GI006	Shackle Plate
31	1	WAS10H	Heavy Washer
32	1	GI313B	Clamp Plate Implement Head
33	4	BPC0816S	Bolt

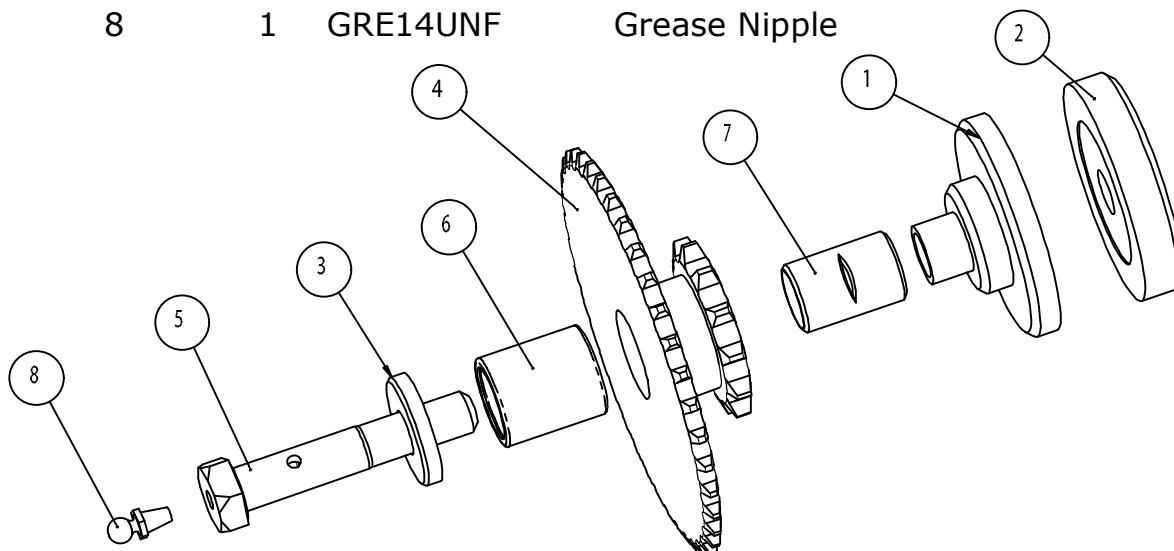
GI 503A Pulley Shaft Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI 025	Fixed PS bearing block
2	1	GI 026	Floating PS bearing block
3	1	GI 093	345 Pulley shaft
4	1	GI 018 B	Pulley shaft sprocket
5	1	SPC 033 1921	Spacers 1921
6	1	KPC084	Key pulley shaft
7	1	KPC089	Key pulley shaft
8	1	BPC102	Single row radial ball bearing
9	1	CPC 013	Circlip
10	1	BPC054	Single row radial ball bearing
11	1	PPC075	Pulley 345
12	1	BPC121HS	Pulley shaft bolt
13	1	WAS14	Heavy washer
14	1	NPCF12NY	Nylock nut
15	1	SPC 033 1923	Spacers 1923
16	1	GI025A	Bearing block spacer wide
17	1	GI026A	Bearing block spacer
18	1	GI 212	Ps strap bolt long
19	1	GI 212C	Ps strap bolt short
20	4	NPC10NY	Nylock nut



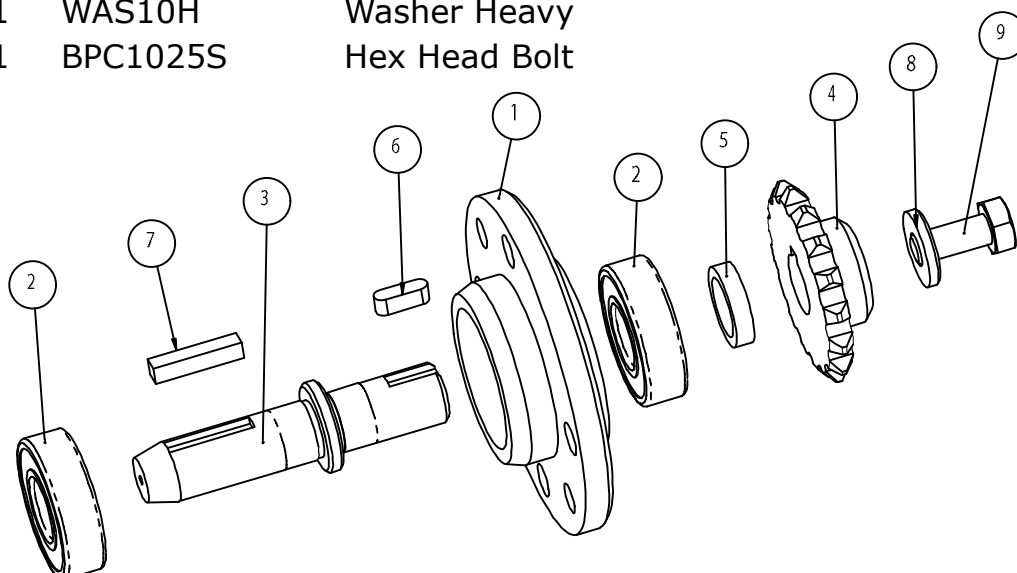
GI 196B Compound Spindle Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI 147	Compound Sprocket Spindle
2	1	GI 147A	Compound Sprocket Spindle Clamp
3	1	GI 147B	Compound Sprocket Spindle Washer
4	1	GI 108	FWD Compound Sprocket
5	1	GI147C	Compound Sprocket Clamp Bolt
6	1	BPC 089	Compound Needle Bearing
7	1	BPC 090	Compound Sprocket Inner Bearing
8	1	GRE14UNF	Grease Nipple



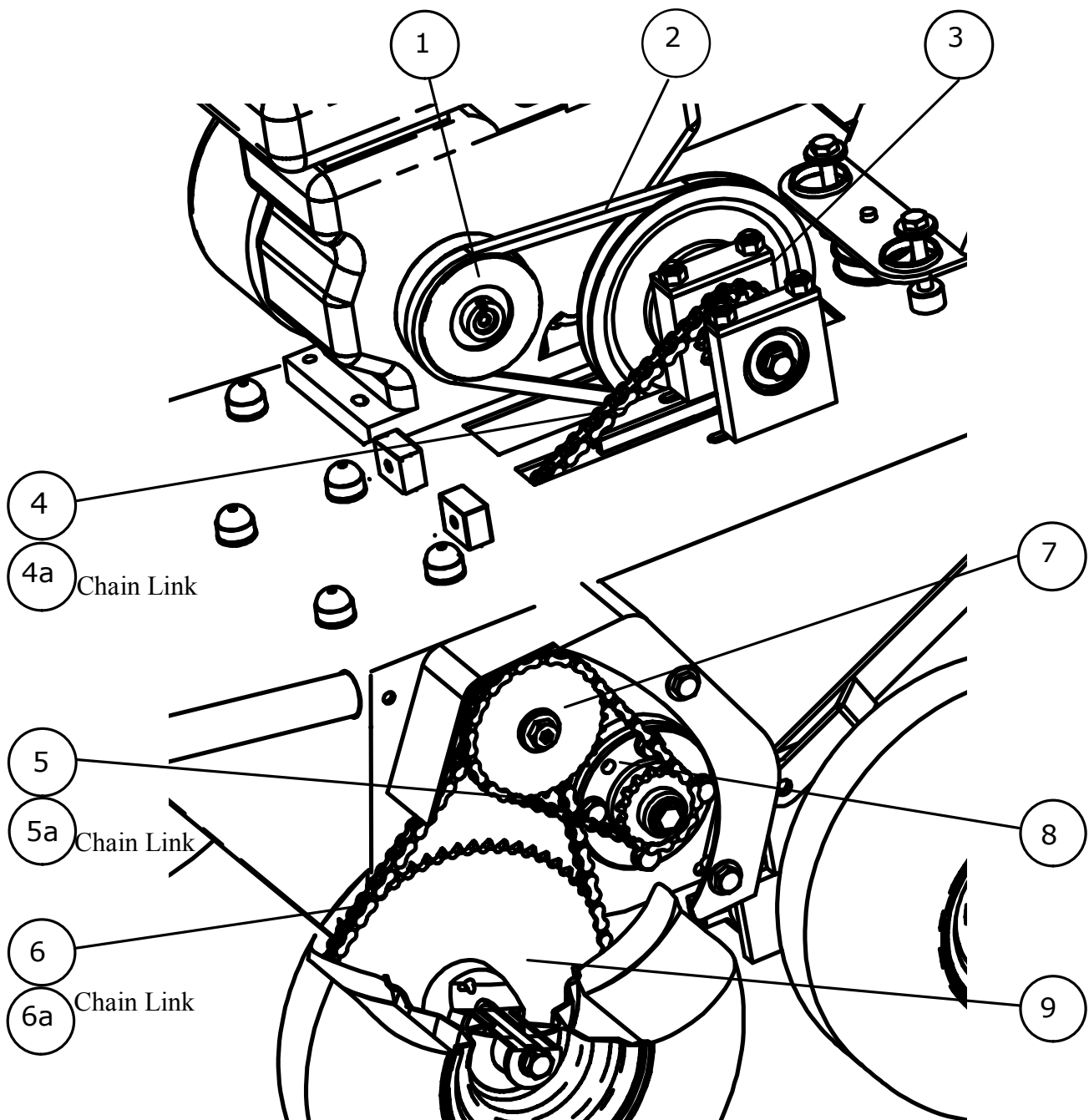
GI 194 Disc Drive Assembly

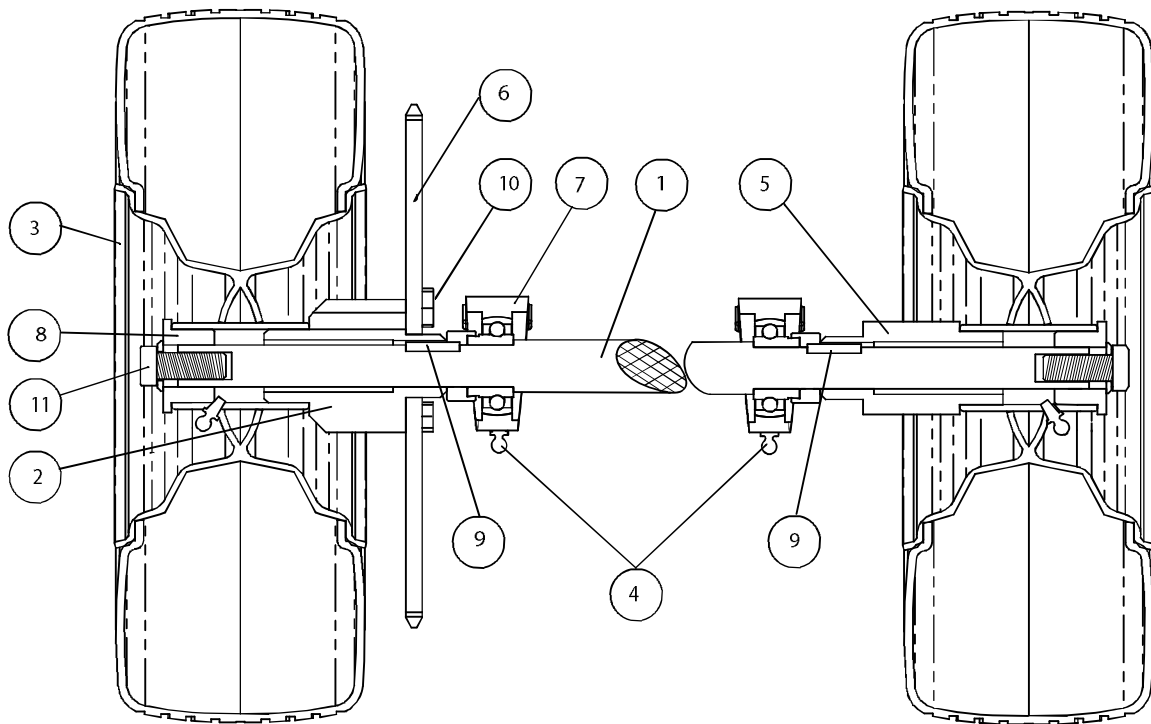
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI 012A	Disc Drive Housing
2	2	BPC 027	Single Row Radial Ball Bearing
3	1	GI 090	Disc Drive Spindle
4	1	GI 014	Disc Drive Sprocket
5	1	GI 033 20 06	Spacer Disc Drive
6	1	KPC078	Key Short
7	1	KPC 079	Key Long
8	1	WAS10H	Washer Heavy
9	1	BPC1025S	Hex Head Bolt



345 HD Chain & Belt Layout

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	CPC077	Clutch 345
2	1	BPC008	Belt main drive 345
3	1	GI503A	Pully shaft assembly
4	1	CPC083	Main drive chain 345
4a	1	CPC088	Chain link o ring 1/2
5	1	CPC101	Comp drive chain (345 & 460)
5a	1	CPC059	Chain link std
6	1	CPC073	F w drive chain 345
6a	1	CPC051	Chain link std
7	1	GI196B	Compound spindle assmy
8	1	GI194A	Disc drive assembly
9	1	GI163B	Front wheel Sprocket (see front axil page)



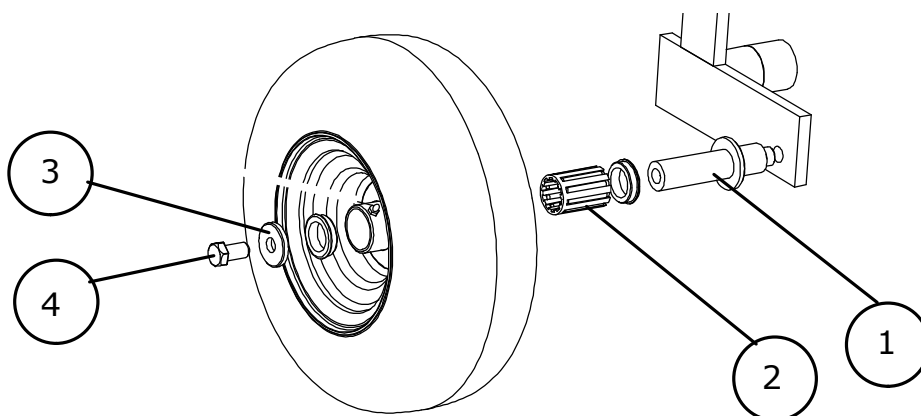


Front Axil Assembly

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	GI165	Front axil (345hd)
2	1	GI163B	Front wheel. & Sprocket hub (left)
3	2	TPC100	Tyre
4	4	GRE14UNF	Unf streaght grease nipple
5	1	GI146B	Front wheel & Hub (right)
6	2	GI169B	Front axil sprocket
7	2	BPC109	Bearing front axil
8	2	GI146	345/460 Front wheel retainer
9	2	KPC075	Key 345 front axle
10	3	BPC0830S	Bolt hex head
11	2	BPC018	Bolt unf hex

Rear Hub

1	1	GI045B	Stub axil
2	1	BPC078	Bearing rear wheel (roller bearing)
3	1	WASTC3PC010	Washer
4	1	BPC018	Bolt unf hex





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Notes



The background image shows a large, modern building with a glass facade and a sign that reads "GEMINI". The building is situated in an urban environment with other buildings visible in the background. The image is overlaid with a series of horizontal lines, suggesting a notebook or a document template.

