G26D, G30D & G34D
DEDICATED MOWER
INSTRUCTION MANUAL

Product Application Matrix

Applications	FT Range	Razor Ultra	Razor	Simplex Range	SuperSix Range	G660 G760 G860	G26D G30D G34D	Premier Range	Verticut TT	S500 PLUS	Bray Hand Tools
Bowls, Croquet, Tennis	●	●	●		Croquet and Tennis only	Croquet and Tennis only	Croquet and Tennis only	Tennis Only	●	●	●
Football, Hockey, Rugby						●	●	●		●	
Cricket – Wicket	●	●	●						●	●	●
Cricket – Square	●	●	●	●	●	●	●	●	●	●	●
Cricket – Outfield						●	●	●			
Golf – Tees	●	●	●	●	●	●	●		●	●	●
Golf – Greens	●	●	●						●	●	●
Ornamental/Lawns	●			●	●	●	●	●	●	●	●
Local Authority/Contractors	●	●	●	●	●	●	●	●	●	●	●

NOTE:- *THIS INFORMATION IS INTENDED FOR GUIDANCE PURPOSES ONLY. WE RECOMMEND THAT YOU DICUSS YOUR SPECIFIC REQUIREMENTS WITH OUR HEAD OFFICE, SALES MANAGERS OR YOUR LOCAL DENNIS DEALER*

CERTIFICATE OF CONFORMITY

G-Series Cylinder mowers powered by Honda GX Petrol Engine

Manufacturer:- Howardson Ltd, Howardson Works, Kirk Langley, Derby, DE6 4NJ. UK

Owner of Technical Document:- Mr I.D. Howard, Howardson Ltd, Howardson Works Kirk Langley, Derby, DE6 4NJ, UK

I the under signed Declare that these machines:-

Model	Cutting Width	Power (Honda)	Measured Sound Power Level	Guaranteed Sound Power Level	Serial Number
ALL	26" (660mm)	GX160	95 Lwa	98dB Lwa	See product ID Range

Tested at:- Howardson Works test site September 2011

Complies with the applicable requirements of:-
- Machine Directive 2006/42/EC
- Noise Directive 2000/14/EC (Annex VI Procedure 1)

Managing Director

Ian Howard

SERIAL NUMBERS

NOTE:- *MAKE A NOTE OF THE SERIAL NUMBER OF YOUR MACHINE AND ALWAYS QUOTE IT IN ANY COMMUNICATION WITH PERSONNEL AT DENNIS.*

MACHINE SERIAL NUMBER

ENGINE SERIAL NUMBER

INTRODUCTION

The reliability and quality of performance of the **DENNIS G-SERIES** depends upon some simple care maintenance carried out regularly. This manual has been prepared to allow the user to carry out all such work.

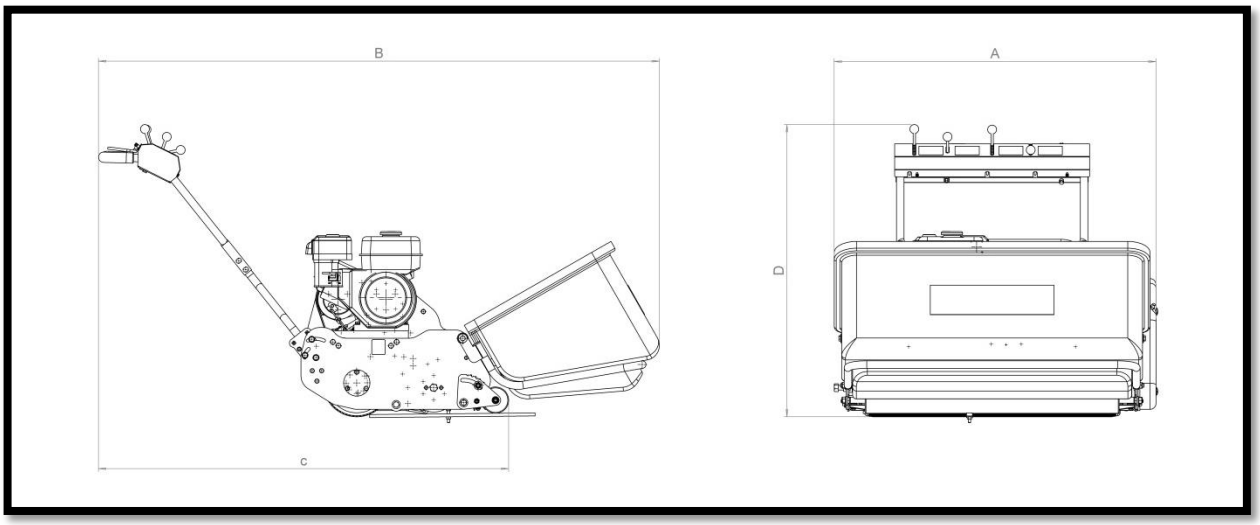
It is advisable to read the instructions carefully. Proper care and attention will enable the machine to give a continuous, satisfactory, and reliable service. Failure to carry out regular lubrication and maintenance as outlined in this manual may render any guarantee or warranty invalid.

In the case of any difficulty, or if further information or advice is required, our Service Department is always at your call. In the interests of speed and accuracy of information please quote the serial numbers of the machine and engine when making enquiries.

For the machine, this is to be found on a plate attached to the side frame. The engine number is stamped on either the crank case or the gear casing facing towards the front of the machine. We suggest you write the numbers on the front page of this book.

CONTENTS

TECHNICAL DATA



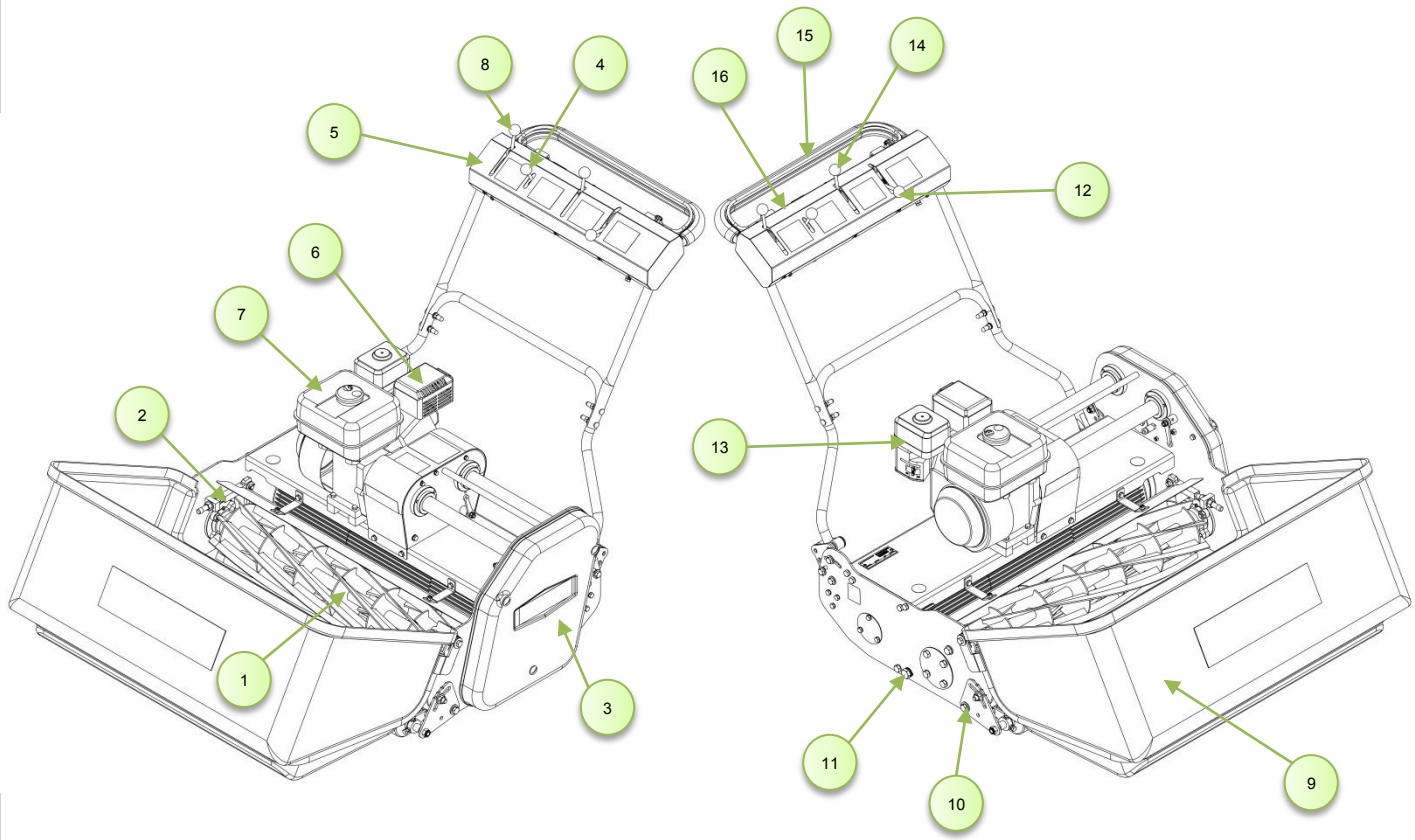
MODEL	G26D	G30D	G34D
A – WIDTH (mm)	884	984	1084
B – LENGTH with Grass Box (mm)	1635	1635	1635
C – LENGTH without Grass Box (mm)	1121	1121	1121
D – Height (mm)	1119	1119	1119
Weight (Kg)	142	150	160
Cutting Width (mm)	660	760	860
Cylinder (Number of Blades)	8	8	8, 11
Height of Cut (mm)	9 - 56	9 - 56	9 - 56
Cut Performance (Clips/M) (8 Blade) Cut Performance (Clips/M) (11 Blade)	137 -	137 -	137 189
Engine	Honda GX160	Honda GX160	Honda GX160
Drive System	“V” Belt	“V” Belt	“V” Belt
Final Drive	Poly “V” high performance belts under constant tension	Poly “V” high performance belts under constant tension	Poly “V” high performance belts under constant tension
Hand Arm Vibration	2.6	2.6	2.6
Measured Sound Power Level	95	95	95
Guaranteed Sound Power Level	98	98	98

Manufactured with a 26” (66cm), 30” (76cm) or 34” (86cm) cutting width, this range of machines are powered by either a 5.5hp (26” & 30”) or 6.5hp air cooled, single cylinder, four stroke petrol engine.

The rear roller and cutter are controlled independently via belt clutches operated from the console on the upper handle bar. (ITEM 5). A parking brake is fitted for added safety when working on sloping ground.

In the design of the machine, special attention has been given to the importance of easy service and maintenance with the construction based on a sectional assembly system. These are the Engine Unit, the Cylinder Unit, the Rear Roller Unit and the Front Roller Unit, each of which can be readily removed individually from the main Frame Chassis Unit.

The interchangeable cassette system allows a variety of cassettes to be used for varying applications.



NUMBER	PART	NUMBER	PART
1	Cylinder	9	Grass Box
2	Bottom Blade Adjuster Knob	10	Cutting Height Adjustment
3	Belt Guard	11	Cassette Retaining Pin
4	Throttle Control Lever	12	Cassette Control Lever
5	Operating Console	13	Air Filter
6	Exhaust	14	Driving Control Lever
7	Fuel Tank	15	Deadman's Handle
8	Brake lever	16	On/Off Switch

In order to operate the machine safely please follow these Health and Safety guidelines

TRAINING

CAUTION – *READ THE INSTRUCTIONS CONTAINED IN THIS MANUAL WITH CARE. IF YOU ARE IN ANY DOUBT PLEASE ASK YOUR EMPLOYER OR CONTACT US DIRECT AT* ***DENNIS***

- Be familiar with the controls and the proper use of the equipment.
- Never allow children or people unfamiliar with these instructions to use the mower. Local regulations or insurance may restrict the age of the operator.
- Never mow while people, especially children, or pets are near by.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to the other people or their property.

PREPARATION

- While mowing always wear substantial footwear and long trousers. Do not operate the mower barefoot or in open sandals.
- Thoroughly inspect where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.

WARNING – *PETROL IS HIGHLY FLAMMABLE AND WILL DAMAGE GRASS IF SPILT.*

A. Store fuel in containers specifically designed for this purpose.
B. Refuel out doors and do not refuel whilst smoking.
C. Add fuel before starting the engine. Never remove the cap of the fuel tank or petrol while the engine is running or when the engine is hot.
D. If petrol is spilt do not attempt to start the engine but move the machine away from the area of spill and avoid creating and sources of ignition until the vapours have dissipated.

- Replace damaged or faulty silencers.
- Before using the machine always inspect the safety devices including the cut off switch and the blades for excessive wear or damage. Replace if necessary.

OPERATION

- Do not operate the engine in a confined space where dangerous CARBON MONOXIDE fumes can collect.
- Mow only in daylight or good artificial light
- Avoid operating the machine in wet grass where feasible.
- Always be sure of your footing on slopes.
- Walk. Never run.
- Walk across the face of slopes, never up and down.
- Exercise extreme care on slopes when changing direction.
- Do not mow excessively steep slopes.
- Use extreme caution when reversing or pulling the machine towards you.
- Stop the blades in the mower has to be tilted for transportation when crossing surfaces other than grass and when transporting the mower to and from the area to be mown.
- Never operate the mower with defective guards or shields or without safety devices, for example without the deflector plate or grassbox in place.
- Do not change the engine governor settings or over speed the engine.
- Disengage all blades and drive clutches before starting.
- Start the engine carefully following the instructions with feet well away from the blades.
- Do not tilt the mower when starting the engine.
- Do not put hands or feet near the under rotating parts. Keep clear of the discharge opening at all times.
- Never pick up or carry the mower while the engine is running.

FOR THE LOCATION OF CONTROLS AND COMPONENTS REF "MACHINE DESCRIPTION" PAGE.

ON / OFF SWITCH (ITEM 16)

This switch stops the engine and can be used to do so at anytime during the operation of the machine. Ensure it is in the **"ON"** position before attempting to start the engine.

DEADMANS CONTROL (ITEM 15)

This is an operator presence control. The engine will tick over without need for this to be depressed when the cylinder and drive are disengaged. This must be depressed before the drive or cylinder can be engaged. Failure to do so will cause the engine to stop.

NOTE – *IF THE "**DEADMANS CONTROL LEVER**" IS DEPRESSED WHILE THE PARKING BRAKE IS ON THE ENGINE WILL STOP.*

PARKING BRAKE CONTROL (ITEM 8)

This controls the parking brake. It is only to be engaged when the machine is stationary, it is NOT to stop the machine. Push lever forwards to engage and pull back to disengage.

NOTE - *THE "PARKING BRAKE" NEEDS TO BE DISENGAGED FOR THE ENGINE TO CONTINUE TO RUN.*

THROTTLE CONTROL (ITEM 4)

This controls the RPM of the engine and the resultant speed of the machine. Pushing the lever forwards will increase the RPM, pulling it back returns the engine to idle.

DRIVE CONTROL (ITEM 14)

This controls the machine movement. Pushing the lever forwards will engage the belt clutch and cause the machine to drive. Returning it to the original position will cause the machine to stop.

CYLINDER CONTROL (ITEM 16)

This controls the cylinder drive. Pushing the lever forwards will engage the belt clutch and cause the cylinder to rotate. Returning it to the original position will cause the cylinder to stop.

CAUTION – *BEFORE YOU OPERATE THIS MACHINE **YOU MUST READ** AND **STUDY** THIS MANUAL IF YOU ARE IN ANY DOUBT PLEASE ASK YOUR EMPLOYER OR CONTACT US DIRECT.*

PREPARATION FOR USE

- Before commencing ensure the turf is free from stones and other obstructions which may damage the cassette unit.
- Set the height of the cut to the required level. (see general adjustments)
- Check the engine
- Fill the fuel tank 3/4 full with unleaded petrol.
- Always check the oil levels of the machine prior to commencing. Full details are given in the ENGINE manual, which accompanies this book. A daily check is recommended. (Recommended grade oil is SAE 10W-40).
- Disengage the cassette unit. (see general adjustments)
- Set the throttle control on the handle to the idle position.

CAUTION – *IMPORTANT INFORMATION* *PLEASE READ ALL THE DETAILS IN THIS SECTION AND FAMILIARIZE YOURSELF AND ALL MACHINE OPERATORS WITH THE CONTENTS.*

STARTING THE ENGINE

Once the preparatory steps have been completed as outlined on page 7 the engine may be started. (see manufacturer operating manual for full details).

1. Switch on the fuel tap.
2. Switch the handlebar “off switch” to **ON**, or depress deadmans handle.
3. Set the throttle control to a half open position.
4. Shift the choke lever to the appropriate position (Kubota engine set to START : Honda engine set to the close position). The choke is not required if the engine is warm or the air temperature is high.
5. Grasp the recoil start handle until resistance is felt, then pull it with force.
6. Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starting position.
7. Once the engine is started, gradually ‘open’ the choke lever (move the lever towards the RUNNING, or OPEN position). Warm-up running of 3-5 minutes is recommended.

STOPPING THE ENGINE

1. Set the throttle control to the CLOSED position.
2. Switch the handlebar cut off to OFF or release deadmans handle.
3. Close the fuel tap.

TO COMMENCE DRIVING (TRANSPORT BETWEEN SITES / NO CUTTING)

- Ensure the “parking Brake” is disengaged.
- Depress the “Deadmans Handle” (Item 15)
- Push the “Drive Control Lever” (Item 14) forwards.
- Set the “Throttle Control Lever” to increase / reduce speed.

TO STOP DRIVING

- Pull the “Drive Control Lever” (Item 14) backwards.

TO COMMENCE CUTTING

- Depress the “Deadmans Handle” (Item 15)
- Push the “Cylinder Control Lever” (Item 16) forwards.
- Push the “Drive Control Lever” (Item 14) forwards.
- Set the “Throttle Control Lever” to increase / reduce speed.

TO STOP CUTTING

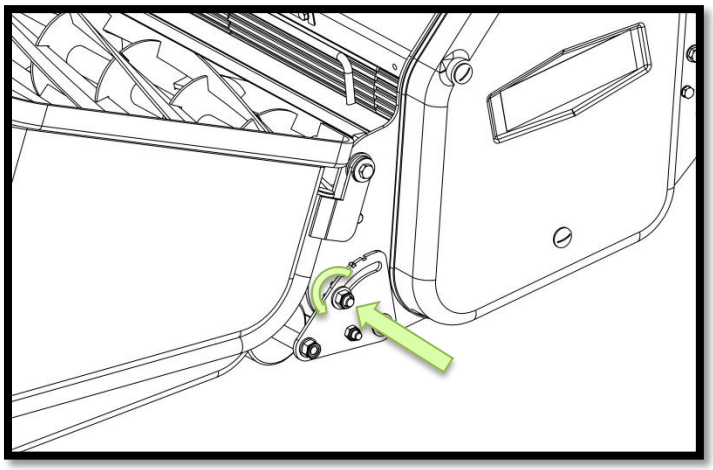
- Pull the “Drive Control Lever” (Item 14) backwards.
- Pull the “Cylinder Control Lever” (Item 16) backwards.
- Release the “Deadmans Handle” (item 15)

NOTE – *Releasing the “Deadmans Control Lever” with the cutter engaged will cause the engine to stop.*

FITTING THE GRASSBOX (Item 9)

- Disengage the cylinder drive and wait for the cutter to stop rotating.
- Hold the grassbox firmly on the lid of the aperture, place the lower front of the box against the front of the tubular cradle.
- Pivot the box about the cradle until it sits securely in position.

SETTING FOR HEIGHT OF CUT



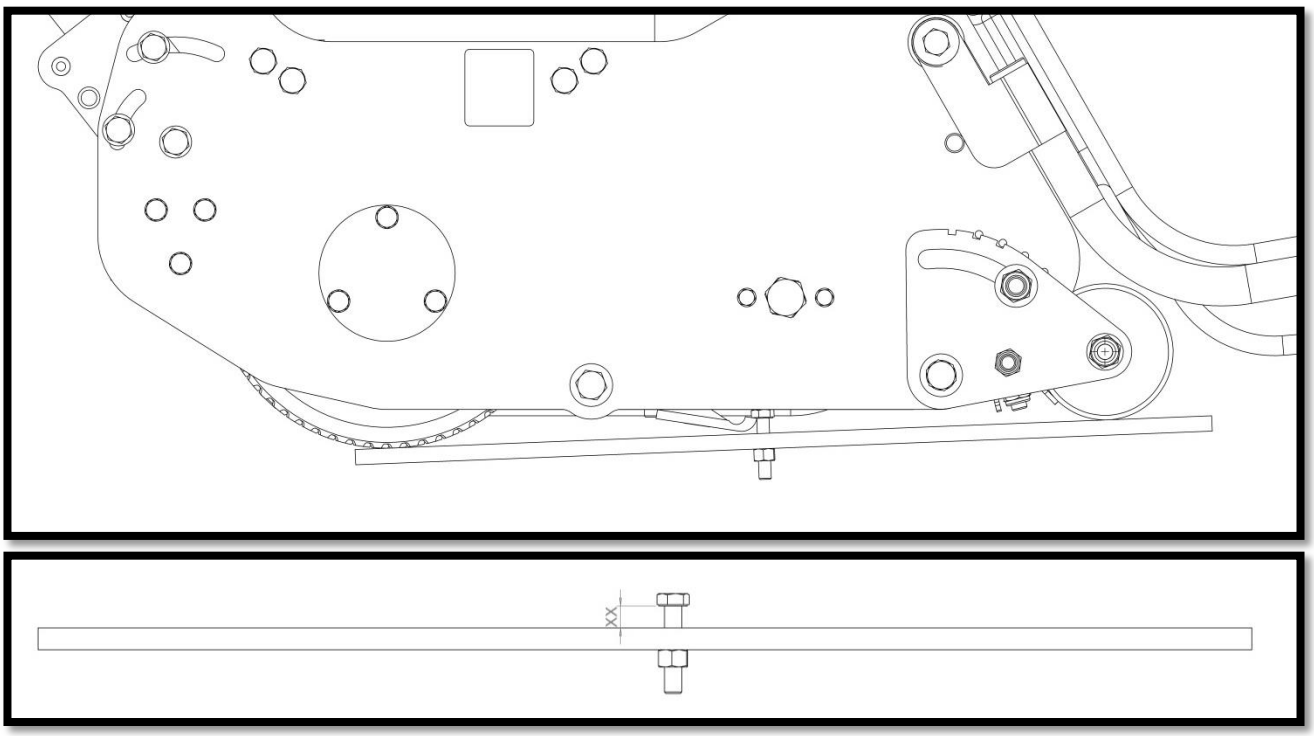
Always stop the engine before adjusting the height of cut. Failure to do this may result in serious injury. The length of grass after cutting and the depth of SCARIFICATION / DETHATCHING / BRUSHING, depends on the setting of the front roller in relation to the main frame of the machine.

To set:

- Slacken the clamp nuts on the front roller quadrants (see image opposite) [19mm spanner]
- Rotate the quadrants, raising and lowering the machine. As a guide, there are notches in the quadrant and holes in the side plate. Align these on both sides to level the machine,

NOTE – *DO NOT ATTEMPT TO USE THE DETHATCHING CASSETTES OR BRUSH CASSETTES ON TOO LOW A SETTING AS THIS WILL RESULT IN DAMAGE TO THE BLADES AND BRUSHES.*

NOTE – *DO NOT ATTEMPT TO SCARIFY ON TOO LOW A SETTING WHEN THE GROUND CONDITIONS ARE DRY AS THIS MAY CAUSE THE CLUTCH TO SLIP.*



To check the height of cut and that the machine is level, the setting bar can be used (229524). Place the bar between the front and rear rollers, resting the underside of the bolt head on the lip of the shear blade.

A ruler can be used to set the setting bar to the correct position. You are measuring the distance between the bar and the underside of the button head screw. ('XX' in the image above)

Remember height of cut is effected by moisture of turf , weight of machine and the thatch density. Different makes of machine cut at different heights when set to the same position with the setting bar. We suggest you set it to a couple of mm above your planned height and then come down in height by trial.

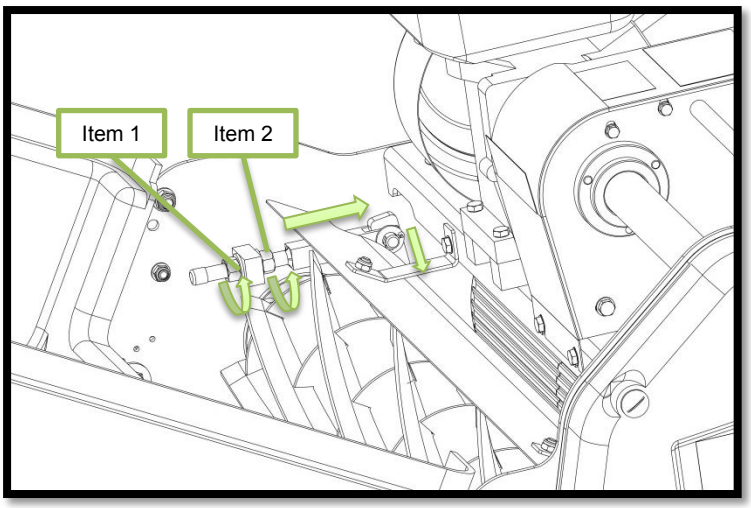
Always check height of cut/operation with the setting bar provided. Check in two positions i.e. one at either end of the cylinder. Failure to do this could result in an uneven cut.

SETTING THE CYLINDER

The Cylinder can be set either in or out of the machine.

To Set:

- Slacken 2-off lock nuts (Item 1) [19mm spanner]
- Rotate nut (Item 2) anti-clockwise to bring the blade towards the cylinder.
- Check the setting using thin paper along the length of the cylinder.
- Adjust until it cuts across the whole length.
- When set, tighten the lock nut (Item 1)
- Recheck adjustment.
- DO NOT set the cylinder hard to the bottom blade. This will cause excessive wear of both components and increase fuel consumption.

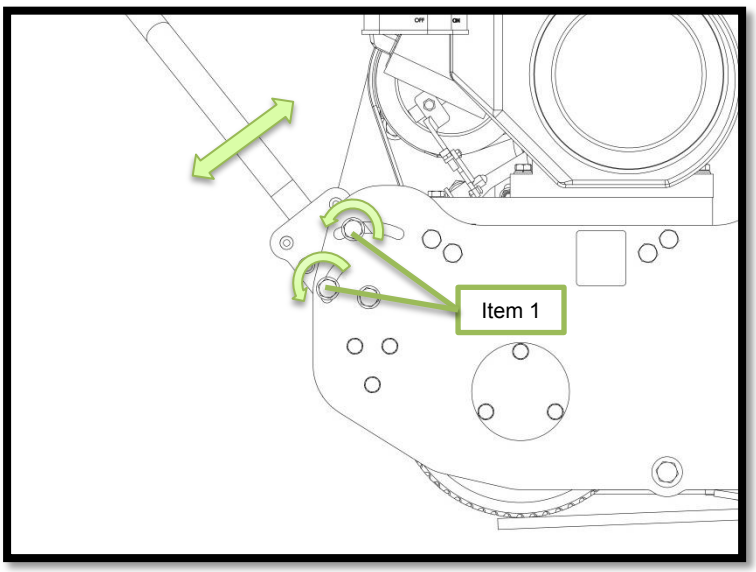


HANDLEBAR ADJUSTMENT

The “Handle Bars” are adjustable to achieve the correct working height for the operator.

To Set:

- Slacken off 4-off nuts (Item 1) ¼” turn [17mm spanner]
- Raise / lower the “Handle Bar” to the desired position.
- When set, tighten the nuts (Item 1)



ENGINE

The machines are fitted with a Honda GX160 or GX200 petrol engine.
For full specifications please refer to the manufacturers instruction manual included.

Area	Maintenance	First 4 Hours	First Month / 20 Hours	6 Months / 100 Hours
Engine Oil	Check Level	✓		
Engine Oil	Change		✓	✓
Air Filter	Check Condition / clean		✓	✓
Spark Plug	Change			✓

OIL / FUEL & QUANTITY – SPARK PLUG TYPE

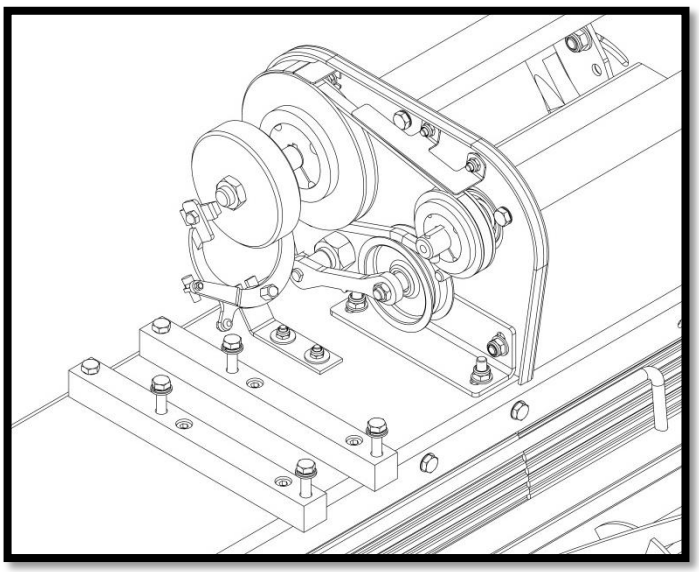
Engine Model	Oil Types	Quantity (Ltr)	Fuel Type	Capacity (Ltr)	Spark Plug Type	Electrode Gap (mm)
Honda GX160	SAE 10W-40	0.6	unleaded	3.1	BM6ES or BPR6ES	0.7 – 0.8

ROLLER CLUTCH

The primary rear roller drive belt is shown in the image opposite. This is a special Kevlar V belt design for clutching applications. The Rear roller clutch pulley moves in to tension the belt via control cable. The tension in the cable can be adjusted as shown [13mm spanner]

Under tensioning this belt will lead to slip and cause rapid wear. Over tension will put excessive strain on the belt and bearings.

Under tensioning leads to belt slip, causing rapid wear; over tensioning means excessive strain on the belt and bearings. Between these two extreme conditions is a reasonable range of tension within which the belt will operate. Belt tension can be assessed by the 'deflection' method.



NOTE – *CORRECTION CAN BE MADE BY ADJUSTMENT OF THE BELT TENSIONERS. REMOVE THE DRIVING BELT COVER. THE BELT TENSIONERS ARE RETAINED IN A SLOTTED HOLE ALLOWING ADJUSTMENT TO BE MADE ONCE THE HOLDING HEXAGON HEADED BOLTS HAVE BEEN LOOSENED. WHEN ADJUSTED CORRECTLY THE TENSIONERS SHOULD STILL ROTATE EASILY WITH FINGER PRESSURE. ENSURE THE TENSIONER BOLTS ARE SECURE BEFORE REPLACING THE COVER.*

"Belts will be sufficiently tensioned if the deflection force applied at mid span to produce a deflection equal to 16mm per meter of span distance falls between 5 and 9 Newton's per Rib" (TBA Belting).

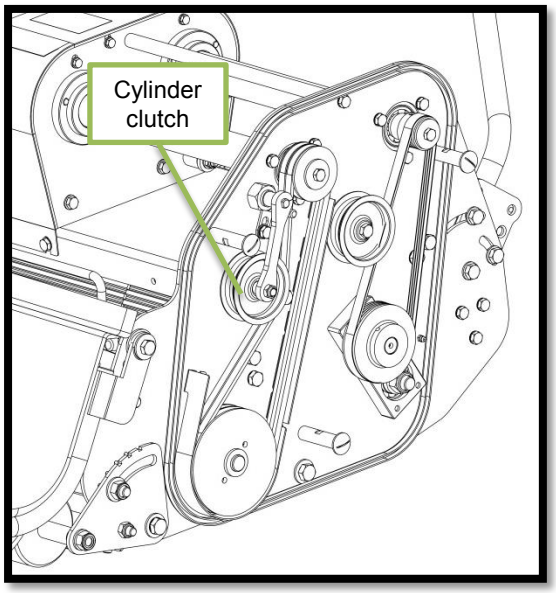
In practical terms this relates to about 5mm of deflection, under moderate finger pressure, on the non tensioner side.

If fitting new belts it is advisable to observe the drive for the first 20-30 minutes. It may be necessary to make an adjustment to compensate for the normal drop in tension during he run –in period.

CYLINDER CLUTCH

The Cylinder drive belts are shown in the image opposite. There are special Cotton covered Kevlar cored V belts fitted in pairs and are designed for clutching applications. The cylinder clutch pulley moves into tension the belt via a control cable. The tension in the cable can be adjusted.

Under tensioning this belt will lead to slip and cause rapid wear. Over tensioning will put excessive strain on the belt and bearings.



CABLE ADJUSMENT

Over time the cables that operate the clutch pulleys and the brake will need adjusting. This adjustment can be carried out at either end of the cables [10mm spanner]

NOTE – *NEITHER CLUTCHES OR BRAKE SHOULD OPERATE WITH THE CONTROLS IN THE OFF POSITION.*

NOTE – *ENSURE THE LOCK NUTS ARE TIGHT AND SECURE AND CHECK OPERATION IS SATISFACTORY BEFORE REPLACING THE CLUTCH COVER AND SCREWS.*

Storage

The machine should always be kept in a clean dry place, free from condensation. After use ensure that the machine is thoroughly clean, dry and free from grass and mud. Before off season storage smear a thin layer of grease on to the cutter blades and the shear blade.

Under no circumstances must the machine be steam cleaned as this may remove grease from the pre packed bearings.

Because of the nature of lead free petrol we recommend that if the machine is being left unused for more than 2 weeks the carburettor is run dry. Allow the engine to run out of fuel with the fuel tap switched off.

REAR ROLLER

(6-months)
The main drive roller is split into three sections incorporating a differential gear system running in an oil bath. The old oil should be drained off and the bath replenished with 1 pint (550ml) of clean oil.

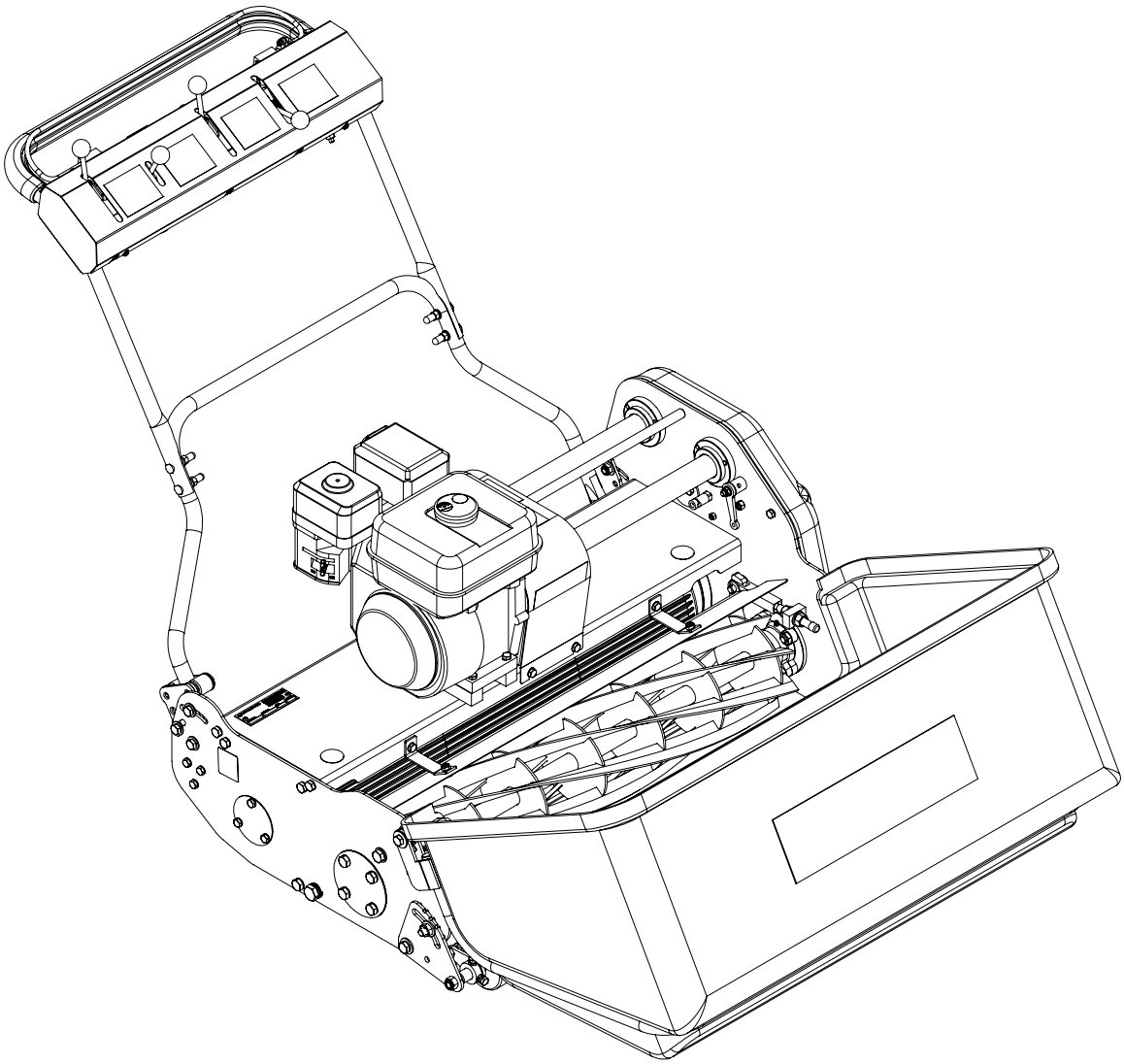
(1-month)
A grease point is located under the belt guard on the side plate of the machine. This is to lubricate the internal spur gear that provides drive to the rear roller. Apply one pump of grease. Do not over grease.

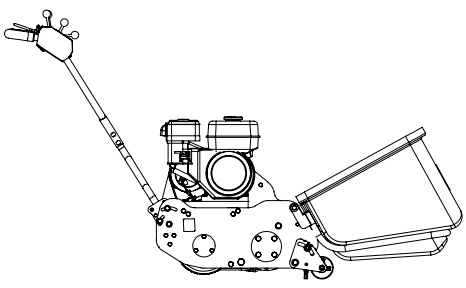
CONTROL LEVERS AND CABLES

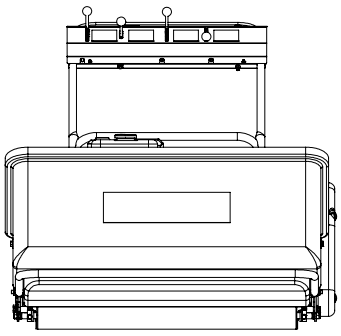
(2-months)
Apply a small amount of oil to the control cables. Flow down the protective cables can be assisted by operating the lever a few times after lubricating.

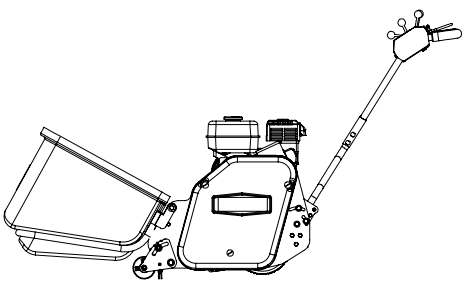
FRONT ROLLER ADJUSTERS

(2-months)
Apply a small quantity of copper grease or similar to the adjuster studs to prevent corrosion and ease adjustment.

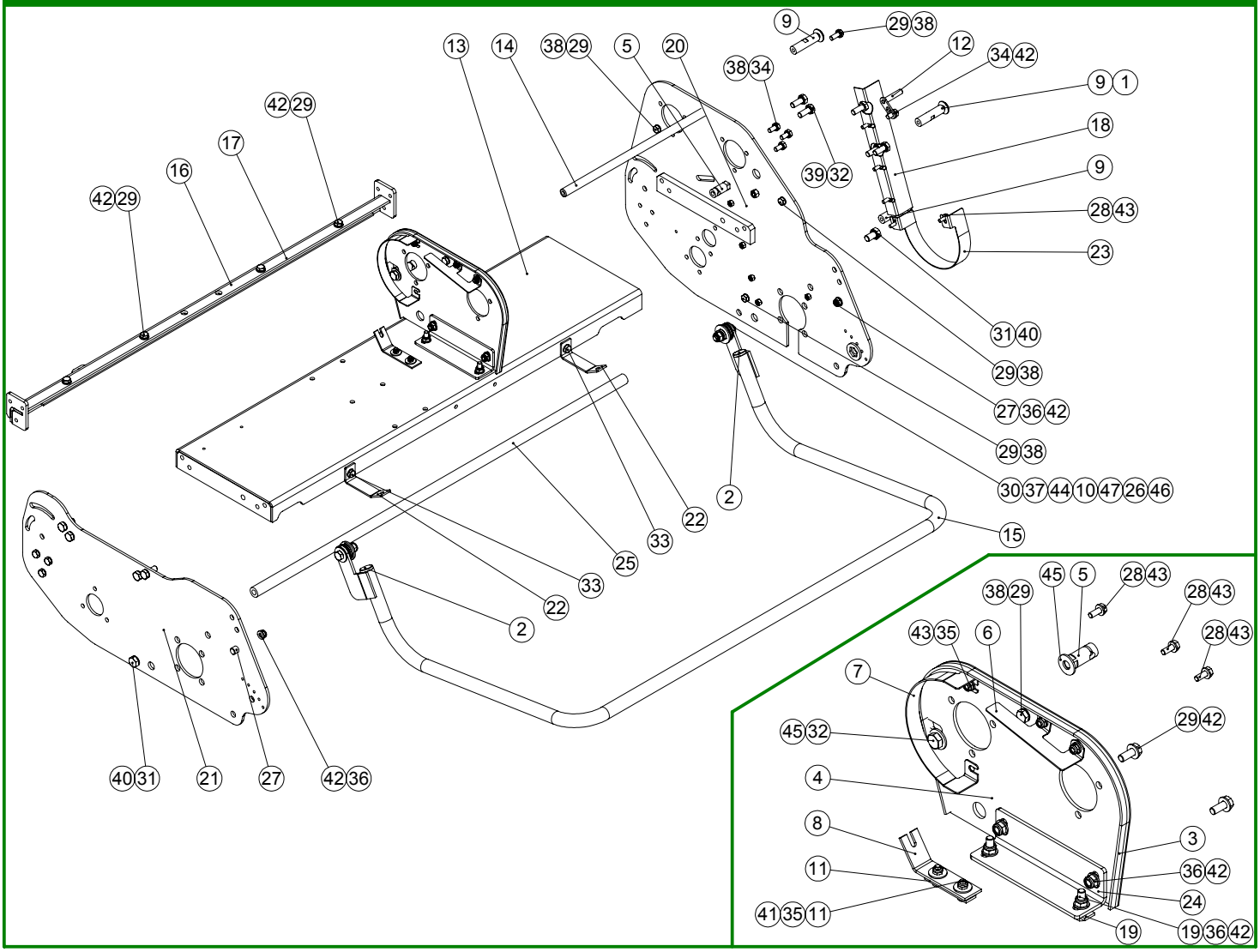








CHASSIS

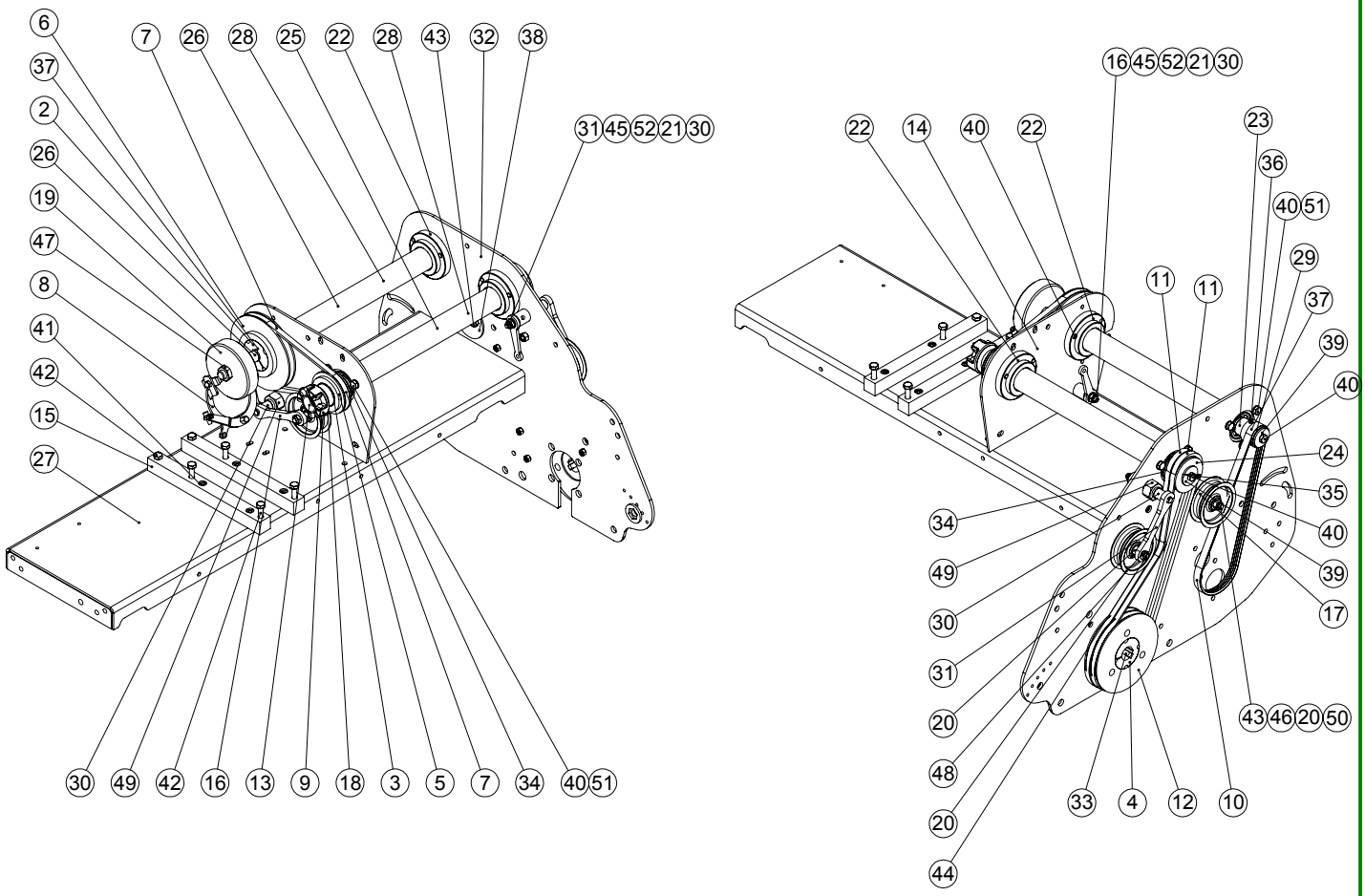


MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
13	G34D	229252	ENGINE BED 34"	1
13	G30D	229251	ENGINE BED 30"	1
13	G26D	229250	ENGINE BED 26"	1
14	G34D	229255	TIE BAR 34"	1
14	G30D	229254	TIE BAR 24"-30"	1
14	G26D	229253	TIE BAR 26"-27"	1
15	G34D	229267	34" CRADLE W.A	1
15	G30D	229266	30" CRADLE W.A	1
15	G26D	229265	26" CRADLE W.A	1
16	G34D	229270	34" TOW BAR W.A	1
16	G30D	29269	30" TOW BAR W.A	1
16	G26D	229515	26" TOW BAR W.A	1
25	G34D	230331	34" TIE BAR DEDICATED	1
25	G30D	230595	30" TIE BAR DEDICATED	1
25	G26D	22966	26" TIE BAR DEDICATED	1

CHASSIS CONTINUED

ITEM NO.	PART NUMBER	DESCRIPTION	CHASSIS/QTY.
1	194946_REV1	CHAIN CASE SCREW	3
2	228024_REV1	1" TUBE BUNG	2
3	228072_REV0	NEOPRENE SPONGE (M/CM)	1
4	229000_REV1	SUPPORT PLATE	1
5	229005_REV2	CABLE STOP	2
6	229006_REV2	BELT GUIDE ROLLER	1
7	229007_REV2	BELT GUIDE ROLLER PULLEY	1
8	229035_REV1	BRAKE BRACKET	1
9	229115_REV2	CHAIN CASE STUD	3
10	229152_REV1	PIVOT BUSH	2
11	229153_REV1	CLAMP PLATE ASSY	1
12	229157_REV1	BELT GUIDE PEG	1
13	229252_REV3	ENGINE BED 34"	1
14	229255_REV1	TIE BAR 34"	1
15	229267_REV1	34" CRADLE W.A.	1
16	229270_REV2	34" TOW BAR W.A.	1
17	229273_REV1	REAR SCRAPER 34"	1
18	229347_REV1	30 / 34 BELT GUIDE	1
19	229492_REV1	RETAINING PLATE ASSY	1
20	229507_REV1	680 LH SIDE PLATE W.A.	1
21	229508_REV1	680 RH SIDE PLATE W.A.	1
22	229512_REV1	THROW PLATE BRK	2
23	229514_REV1	BELT GUIDE 680	1
24	230004_REV0	SUPPORT BRACKET	1
25	230331_REV0	TIE BAR JIG (G-SERIES)	1
26	604761_REV1	THACKERY WASHER	2
27	J20023_REV2	UNIT LIMITING STUD	2
28	SP01008_REV0	HEX SET SCREW M6 X 16	8
29	SP01009_REV0	HEX SET SCREW M8 X 20	11
30	SP01020_REV0	HEX SET SCREW M10 X 40	2
31	SP01021_REV0	HEX SET SCREW M12 X 20	2
32	SP01035_REV0	HEX SET SCREW M10 X 25	10
33	SP01066_REV0	HEX TAPTITE SCREW M8 X 20	2
34	SP01076_REV0	HEX SET SCREW M8 X 16	7
35	SP02004_REV0	NUT M6 NYLOC	5
36	SP02006_REV0	NUT M8 NYLOC (T)	10
37	SP02008_REV0	NUT M10 NYLOC (T)	2
38	SP03004_REV0	WASHER M8 TOOTHED	12
39	SP03005_REV0	WASHER M10 TOOTHED	8
40	SP03006_REV0	WASHER M12 TOOTHED	2
41	SP03007_REV0	WASHER M6 X 20	2
42	SP03008_REV0	WASHER M8 FORM A	17
43	SP03010_REV0	WASHER M6 FORM A	11
44	SP03011_REV0	WASHER M10 FORM A	2
45	SP03016_REV0	WASHER M10 FORM C	2
46	SP03018_REV0	WASHER M10 FORM G	2
47	SP03022_REV0	WASHER M20 FORM A	2

DRIVE

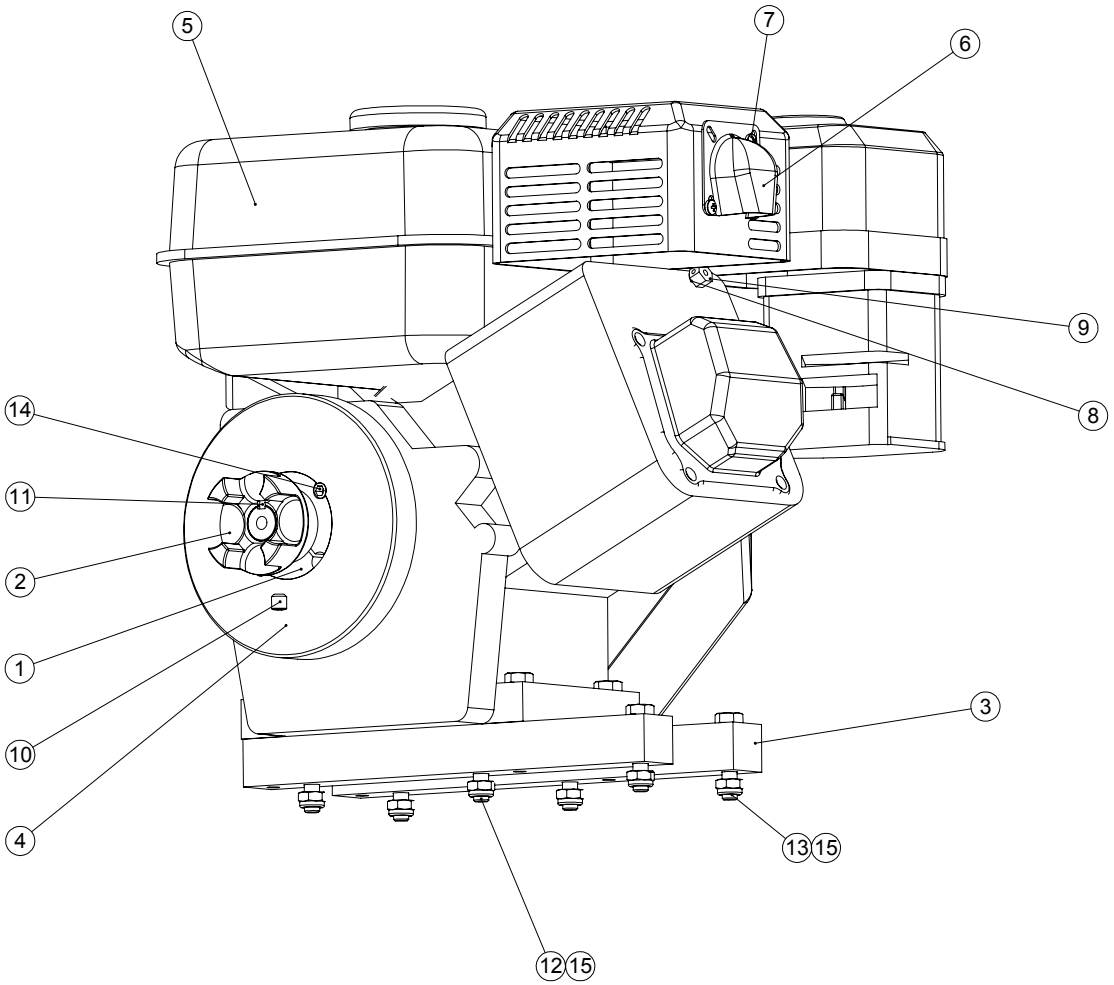


MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
25	G34D	229248	LAYSHAFT CUTTER DRIVE 34"	1
25	G30D	229247	LAYSHAFT CUTTER DRIVE 30"	1
25	G26D	229245	LAYSHAFT CUTTER DRIVE 26"	1
26	G34D	229249	LAYSHAFT ROLLER DRIVE 34"	1
26	G30D	229246	LAYSHAFT ROLLER DRIVE 30"	1
26	G26D	229244	LAYSHAFT ROLLER DRIVE 26"	1
27	G34D	229252	ENGINE BED 34"	1
27	G30D	229251	ENGINE BED 30"	1
27	G26D	229250	ENGINE BED 26"	1
28	G34D	229258	LAYSHAFT GUARD 34"	2
28	G30D	229257	LAYSHAFT GUARD 30"	2
28	G26D	229256	LAYSHAFT GUARD 26"	2

DRIVE CONTINUED

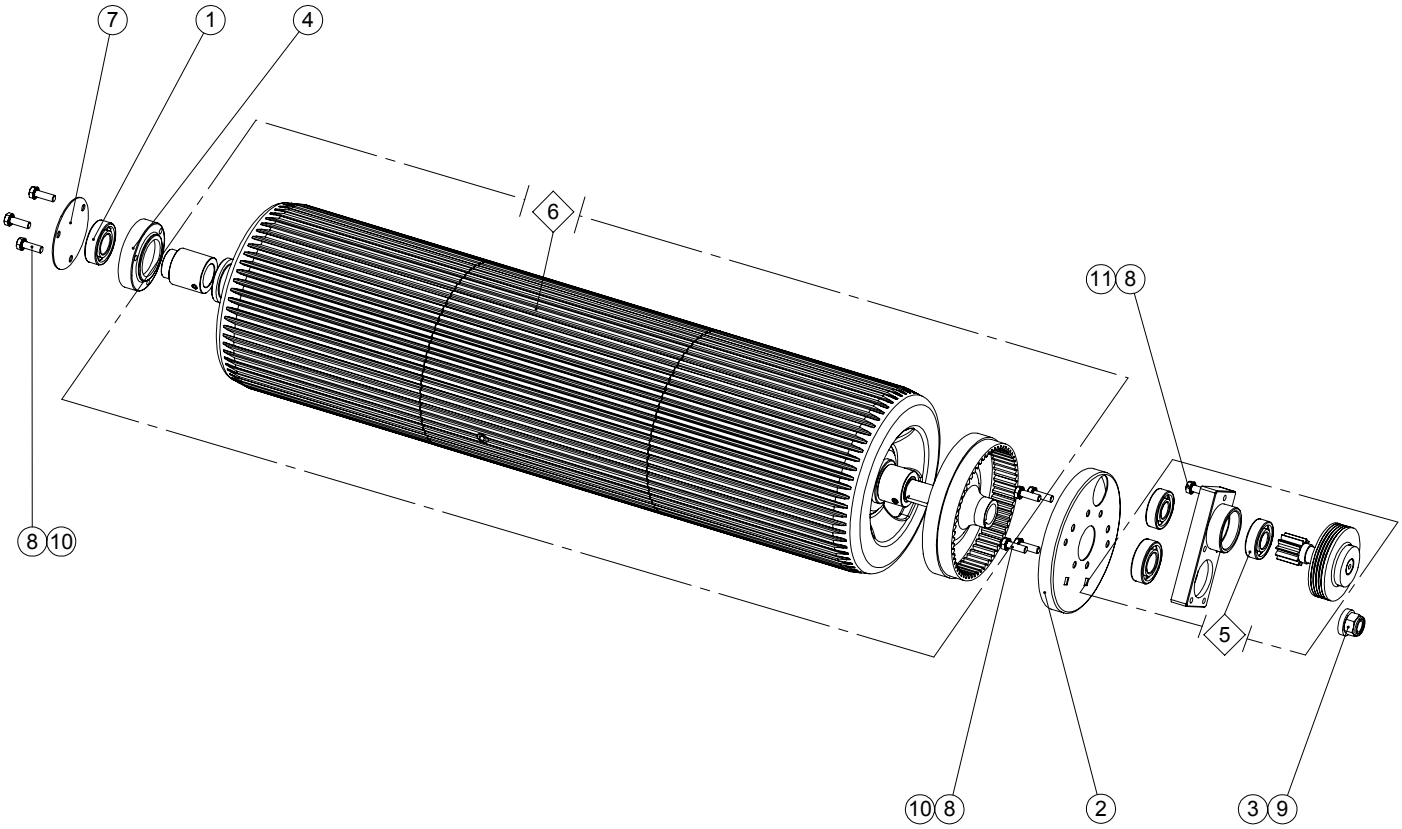
ITEM NO.	PART NUMBER	DESCRIPTION	DRIVE/QTY.
1	073445_REV0	KEY 3/16" X 3/16" X 2 1/4" RD END	1
2	228001_REV1	TAPERED BUSH 1610 - 3/4"	1
3	228002_REV1	TAPERED BUSH 1108 - 3/4"	1
4	228003_REV1	TAPERED BUSH 1610 - 25MM	1
5	228004_REV1	PULLEY SPZ-71	1
6	228005_REV1	PULLEY SPZ-132	1
7	228007_REV1	BELT V X10-665 LP	1
8	228009_REV1	BRAKE CALIPER	1
9	228011_REV1	COUPLING HALF (3/4")	1
10	228012_REV1	BELT RIBBED 4PK 698	1
11	228030_REV1	BELT V Z-997	2
12	228080_REV2	PULLEY 2SPZ140 MACHINED	1
13	228103_REV1	COUPLING ELEMENT	1
14	229000_REV1	SUPPORT PLATE	1
15	229004_REV2	ENGINE BEARERS	2
16	229009_REV2	DRIVE IDLER ARM W.A.	1
17	229013_REV1	PULLEY SPACER	1
18	229014_REV1	BELT GUIDE PEG	1
19	229036_REV1	BRAKE DISC	1
20	229038_REV1	TENSIONER PULLEY	3
21	229044_REV1	IDLER LEVER	2
22	229091_REV2	BEARING HOUSING	4
23	229092_REV1	BEARING SPACER	3
24	229154_REV2	PULLEY 2Z-60	1
25	229248_REV1	LAYSHAFT CUTTER DRIVE 34"	1
26	229249_REV1	LAYSHAFT ROLLER DRIVE 34"	1
27	229252_REV3	ENGINE BED 34"	1
28	229258_REV1	LAYSHAFT GUARD 34"	2
29	229322_REV1	4 GROOVE DRIVE PULLEY	1
30	229382_REV1	BRG HOUSING	2
31	229383_REV2	IDLER ARM W.A. (G760 / G860)	1
32	229507_REV1	680 LH SIDE PLATE W.A.	1
33	F20684_REV0	KEY PARALLEL 8 X 7 X 25	1
34	J20052_REV0	BEARING 6204-2RS 3	4
35	J20457_REV1	KEY 3/16" X 3/16" X 1" RD END	1
36	J20467_REV0	GRUB SCREW M8 X 8	2
37	J209030_REV1	KEY 3/16" X 3/16" X 3/4" RD END	2
38	J209043_REV1	TENSIONER BACK PLATE	1
39	J209249_REV0	WASHER 9 X 35 X 3	2
40	SP01009_REV0	HEX SET SCREW M8 X 20	12
41	SP01025_REV0	CAP HEAD M8 X 30	4
42	SP01027_REV0	HEX SET SCREW M8 X 40	6
43	SP01068_REV0	HEX SET SCREW 3/8" UNF X 2 1/2"	1
44	SP01071_REV0	HEX SET SCREW 3/8" UNF X 1 1/2"	2
45	SP02006_REV0	NUT M8 NYLOC (T)	8
46	SP02018_REV0	NUT 3/8" UNF NYLOC (T)	1
47	SP02029_REV0	NUT M16 LOCK (THIN)	1
48	SP02033_REV0	NUT 3/8" UNF LOCK (THIN)	2
49	SP02034_REV0	NUT 3/4" UNF STD	2
50	SP03002_REV0	WASHER 3/8"	1
51	SP03004_REV0	WASHER M8 TOOTHED	11
52	SP03008_REV0	WASHER M8 FORM A	2

ENGINE



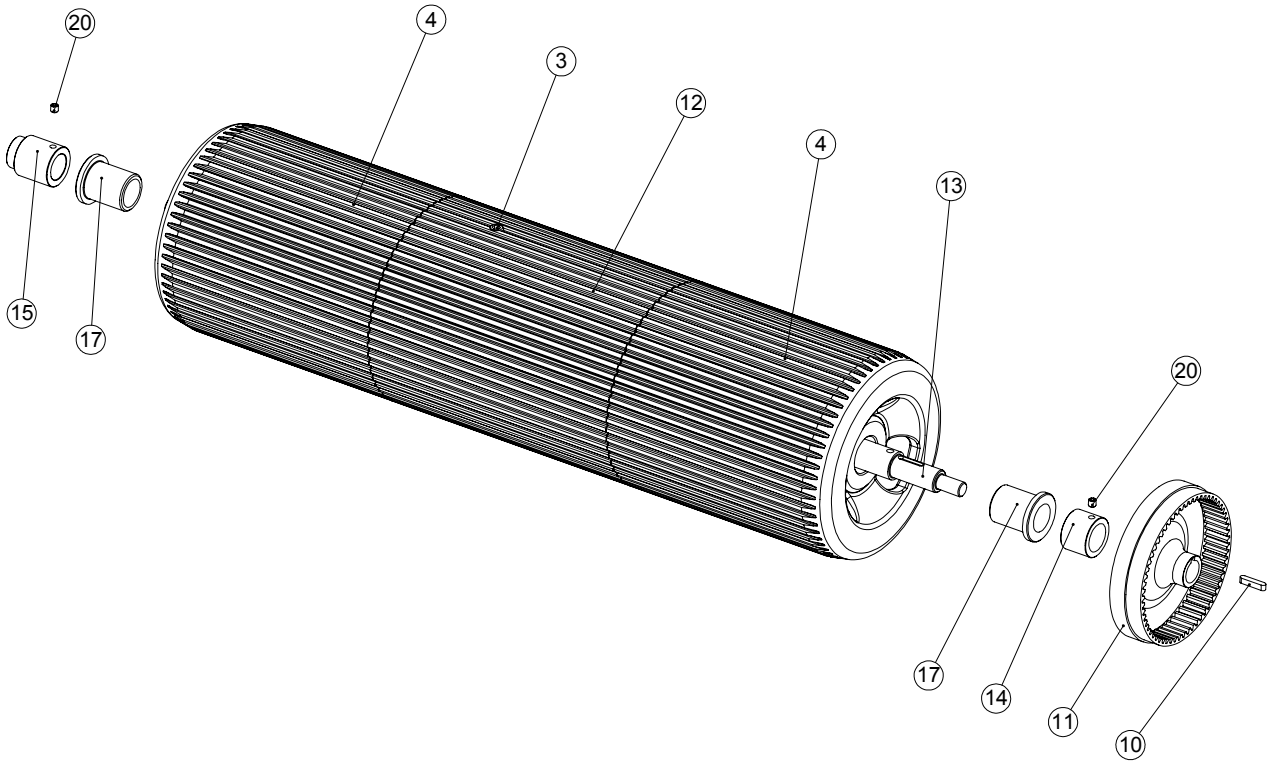
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	228001_REV1	TAPERED BUSH 1610 - 3/4"	1
2	228011_REV1	COUPLING HALF (3/4")	1
3	229004_REV2	ENGINE BEARERS	2
4	229015_REV1	FLYWHEEL	1
5	229901_REV1	ENGINE 5.5 HP HONDA GX160 Q9 TYPE	1
6	J20367_REV0	EXHAUST DEFLECTOR	1
7	J20368_REV0	SCREW M4 EXHAUST DEFLECTOR	2
8	J20369_REV0	E CLIP 5MM	1
9	J20376_REV1	THROTTLE CLAMP	1
10	J20467_REV0	GRUB SCREW M8 X 8	1
11	J209025_REV0	KEY 3/16" X 3/16" X 1 3/4" RD END	1
12	SP01025_REV0	CAP HEAD M8 X 30	4
13	SP01027_REV0	HEX SET SCREW M8 X 40	6
14	SP01079_REV1	GRUB SCREW 3/8" X 5/8"	2
15	SP02006_REV0	NUT M8 NYLOC (T)	6

REAR ROLLER

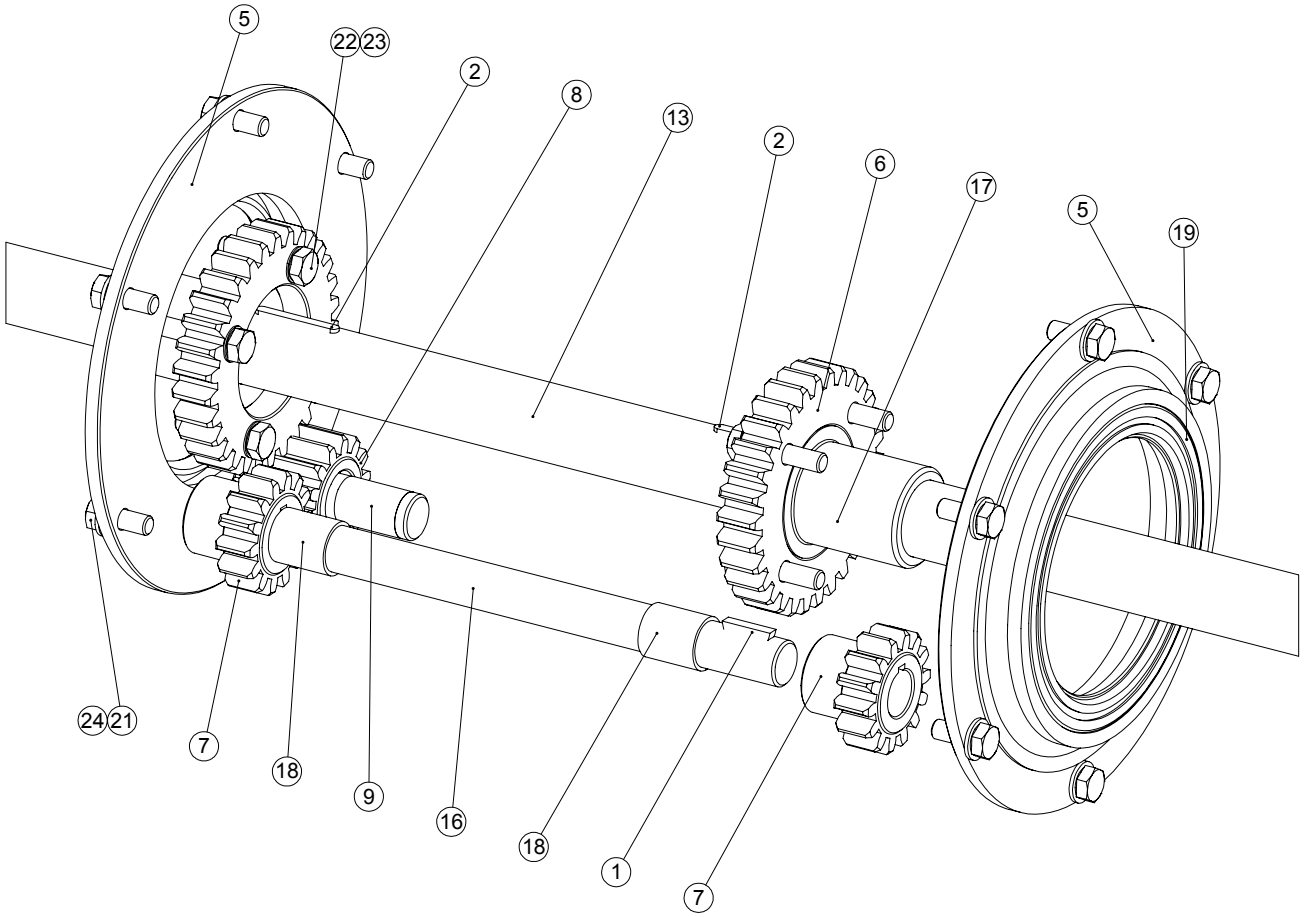


ITEM NO.	PART NUMBER	DESCRIPTION	CROSS SECTION RR/QTY.
1	062662_REV1	BEARING 6205-2RS 3	1
2	229031_REV3	DIRT EXCLUDER	1
3	229039_REV1	LANDROLL COLLAR	1
4	229104_REV1	LANDROLL BEARING HOUSING	1
5	800066_REV0	DRIVE BEARING HOUSING ASSY	1
6	800071_REV1	REAR ROLLER ASSEMBLY	1
7	J20009_REV1	BLANKING PLATE	1
8	SP01045_REV0	HEX SET SCREW M8 X 25	8
9	SP02028_REV0	NUT M16 NYLOC (T)	1
10	SP03004_REV0	WASHER M8 TOOTHED	6
11	SP03004_REV0	WASHER M8 TOOTHED	2

REAR ROLLER CONTINUED - 800071



CENTER ROLLER INTERNAL DETAIL

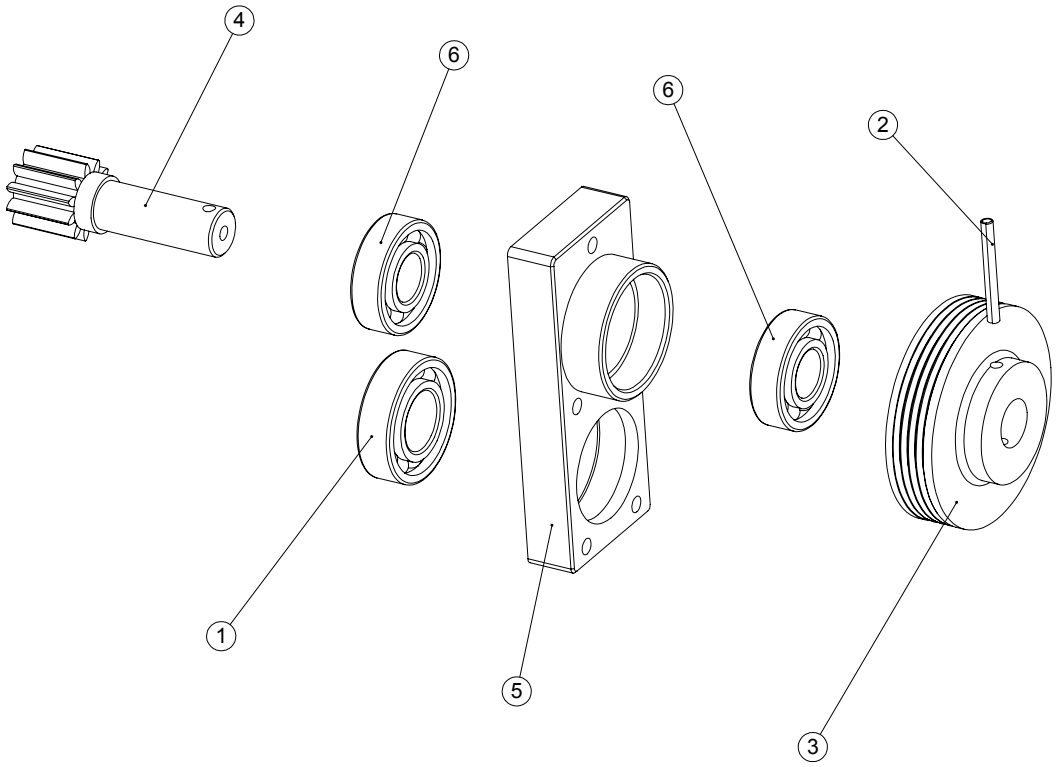


REAR ROLLER CONTINUED - 800071 BOM

ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	016386_REV0	KEY WOODRUFF 3/16" X 7/8"	2
2	073445_REV0	KEY 3/16" X 3/16" X 2 1/4" RD END	2
3	171702_REV1	GRUB SCREW 3/8" BSPT	1
4	195076_REV2	OUTER ROLLER 11" (MACHINED)	2
5	195077_REV1	OIL SEAL HOUSING	2
6	195078_REV1	DIFFERENTIAL WHEEL	2
7	195079_REV1	DIFFERENTIAL PINION	2
8	195080_REV1	DOUBLE DIFFERENTIAL PINION	1
9	195094_REV1	PIVOT PIN	1
10	228049_REV1	KEY 1/4" X 1/4" X 1 1/4" RD END	1
11	229030_REV1	INTERNAL GEAR	1
12	229227_REV3	CENTRE ROLLER 12" (MACHINED)	1
13	229324_REV1	REAR ROLLER SHAFT 34"	1
14	229325_REV1	30"/34" SHAFT COLLAR	1
15	229326_REV1	SHAFT SPACER	1
16	229451_REV1	DIFF SHAFT G860	1
17	229484_REV1	BUSH FOR END ROLLER	4
18	601620_REV1	BUSH 12DU16	3
19	605857_REV1	SEAL REAR ROLLER	2
20	J20467_REV0	GRUB SCREW M8 X 8	2
21	SP01009_REV0	HEX SET SCREW M8 X 20	12
22	SP01036_REV0	HEX SET SCREW M8 X 35	8
23	SP03004_REV0	WASHER M8 TOOTHED	8
24	SP03008_REV0	WASHER M8 FORM A	12

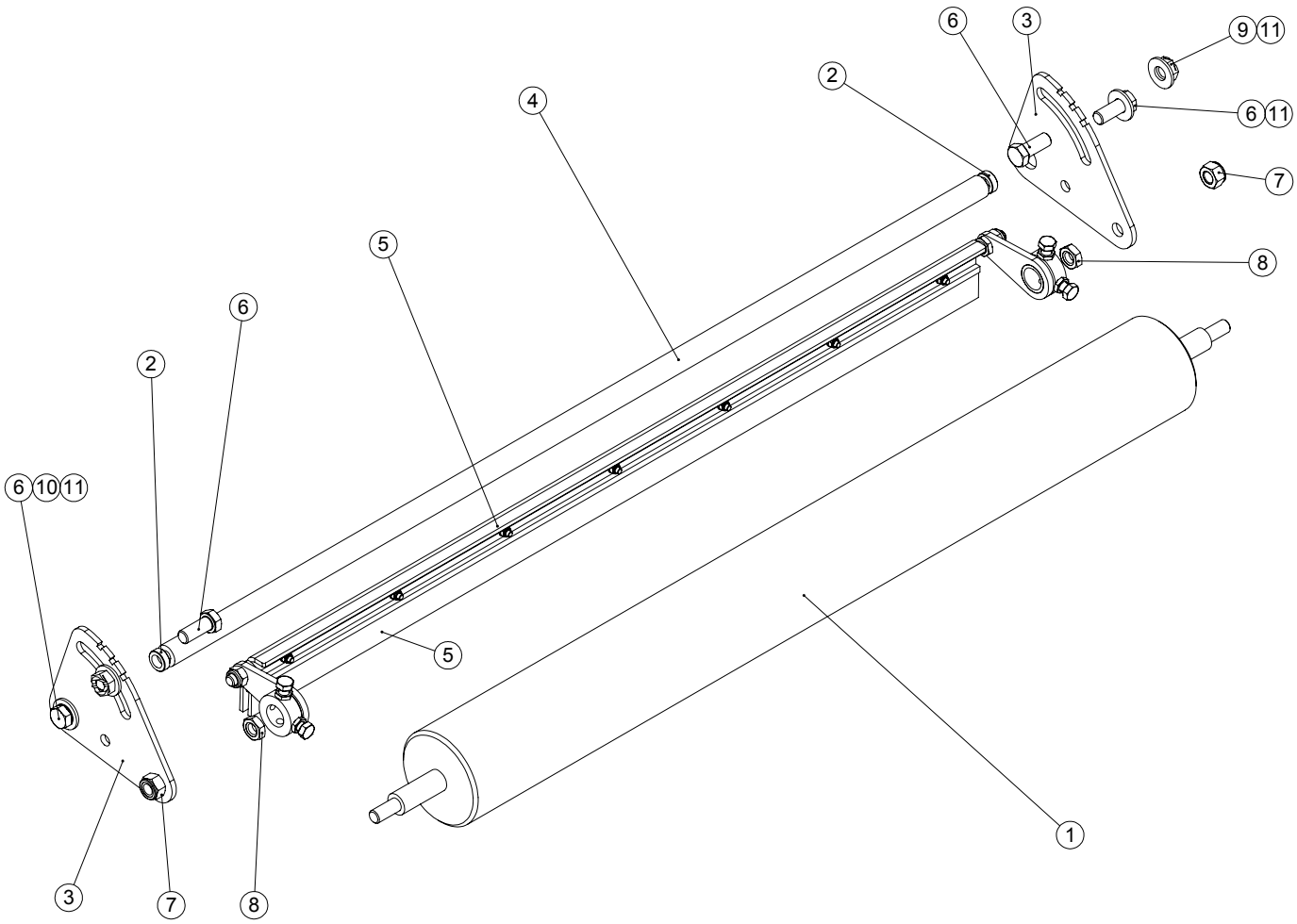
MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
4	G26D	195075	OUTER ROLLER 26"	2
4	G30D, G34D	195076	OUTER ROLLER 30" & 34"	2
12	G26D	229537	CENTRE ROLLER 26"	1
12	G30D	195074	CENTRE ROLLER 30"	1
12	G34D	229227	CENTRE ROLLER 34"	1
13	G26D	229500	REAR ROLLER SHAFT 26"	1
13	G30D	229323	REAR ROLLER SHAFT 30"	1
13	G34D	229324	REAR ROLLER SHAFT 34"	1
14	G26D	229510	SHAFT COLLAR 26"	1
14	G30D, G34D	229325	SHAFT COLLAR 30" & 34"	1
15	G26D	229509	SHAFT SPACER 26"	1
15	G30D, G34D	229326	SHAFT SPACER 30" & 34"	1
16	G26D	229511	DIFF SHAFT 26"	1
16	G30D	195082	DIFF SHAFT 30"	1
16	G34D	229451	DIFF SHAFT 34"	1

REAR ROLLER CONTINUED - 800066 & BOM



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	062662_REV1	BEARING 6205-2RS 3	1
2	228053_REV1	PIN SPIROL M5 X 45	1
3	229003_REV1	DRIVE PULLEY LAND ROLL	1
4	229011_REV1	PINION SHAFT 11T	1
5	229034_REV2	ROLLER BEARING HOUSING	1
6	J20052_REV0	BEARING 6204-2RS 3	2

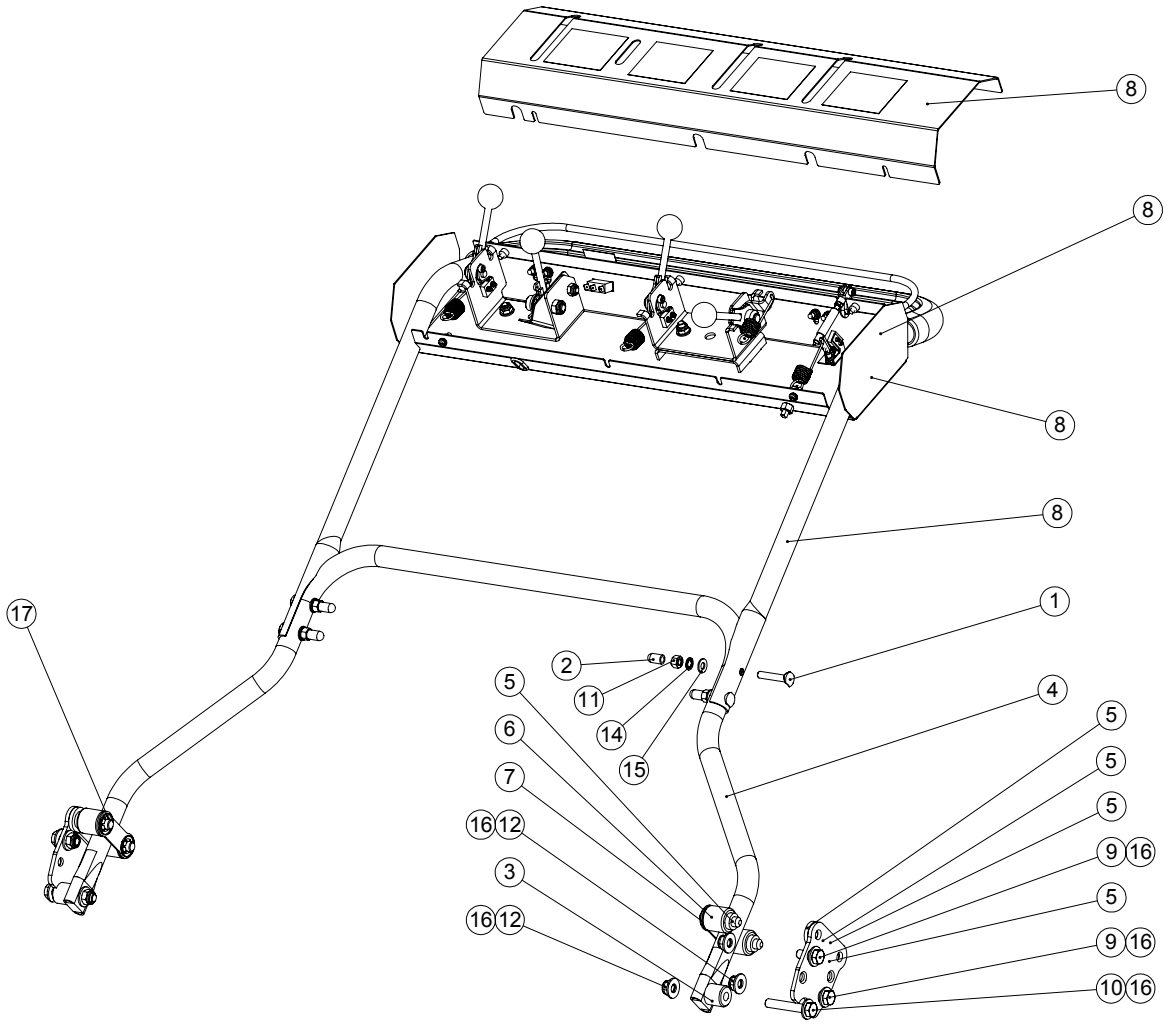
FRONT ROLLER



ITEM NO.	PART NUMBER	DESCRIPTION	FRONT ROLLER/QTY.
1	229233_REV1	FRONT ROLLER 34"	1
2	229310_REV1	QUADRANT SPACER	2
3	229329_REV1	ROLLER QUADRANT	2
4	230331_REV0	TIE BAR JIG (G-SERIES)	1
5	800530_REV1	GROOMING BRUSH ASSY 860	1
6	SP01065_REV0	HEX SET SCREW M12 X 30	4
7	SP02010_REV0	NUT M12 NYLOC (T)	2
8	SP02014_REV0	NUT M12 LOCK (THIN)	2
9	SP02054_REV0	NUT M12 BINK	2
10	SP03006_REV0	WASHER M12 TOOTHED	2
11	SP03017_REV0	WASHER M12 FORM C	4

MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
1	G34D	229233	FRONT ROLLER 34"	1
1	G30D	229232	FRONT ROLLER 30"	1
1	G26D	229231	FRONT ROLLER 26"	1
4	G34D	230331	TIE BAR DEDICATED 34"	1
4	G30D	230595	TIE BAR DEDICATED 30"	1
4	G26D	229666	TIE BAR DEDICATED 26"	1
5	G34D	800530	GROOMING BRUSH 34"	1
5	G30D	800540	GROOMING BRUSH 30"	1
5	G26D	800544	GROOMING BRUSH 26"	1

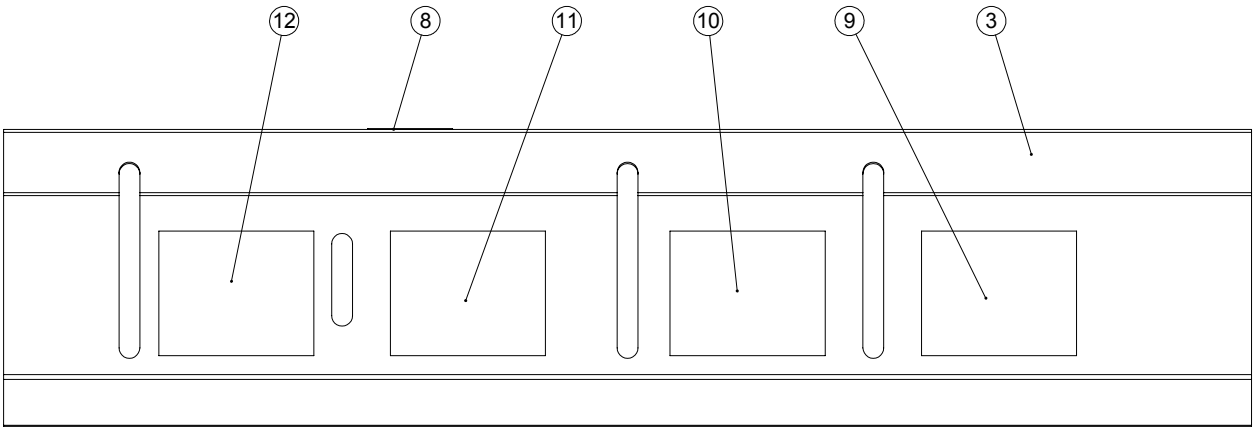
HANDLE BARS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	228093_REV0	BOLT SADDLE M8 X 43	4
2	228094_REV0	END TIP 5/16"	4
3	229166_REV1	HANDLE PIVOT BUSH	2
4	229577_REV1	34" LOWER HANDLE TUBE G860 MK2	1
5	230200_REV0	HANDLE BRACKET W.A.	2
6	230203_REV0	HANDLE BUFFER	4
7	230205_REV0	HANDLE BRACKET SUPPORT	2
8	800086_REV2	G SERIES UPPER HANDLEBAR ASSY	1
9	SP01035_REV0	HEX SET SCREW M10 X 25	4
10	SP01047_REV0	HEX SET SCREW M10 X 60	2
11	SP02005_REV0	NUT M8 STD	4
12	SP02008_REV0	NUT M10 NYLOC (T)	6
13	SP03004_REV0	WASHER M8 TOOTHED	1
14	SP03004_REV0	WASHER M8 TOOTHED	3
15	SP03008_REV0	WASHER M8 FORM A	4
16	SP03016_REV0	WASHER M10 FORM C	12
17	SP07001_REV0	STARLOCK 12MM	4

MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
4	G26D	229587	LOWER HANDLE TUBE 26"	1
4	G30D	229576	LOWER HANDLE TUBE 30"	1
4	G34D	229577	LOWER HANDLE TUBE 34"	1

HANDLE BARS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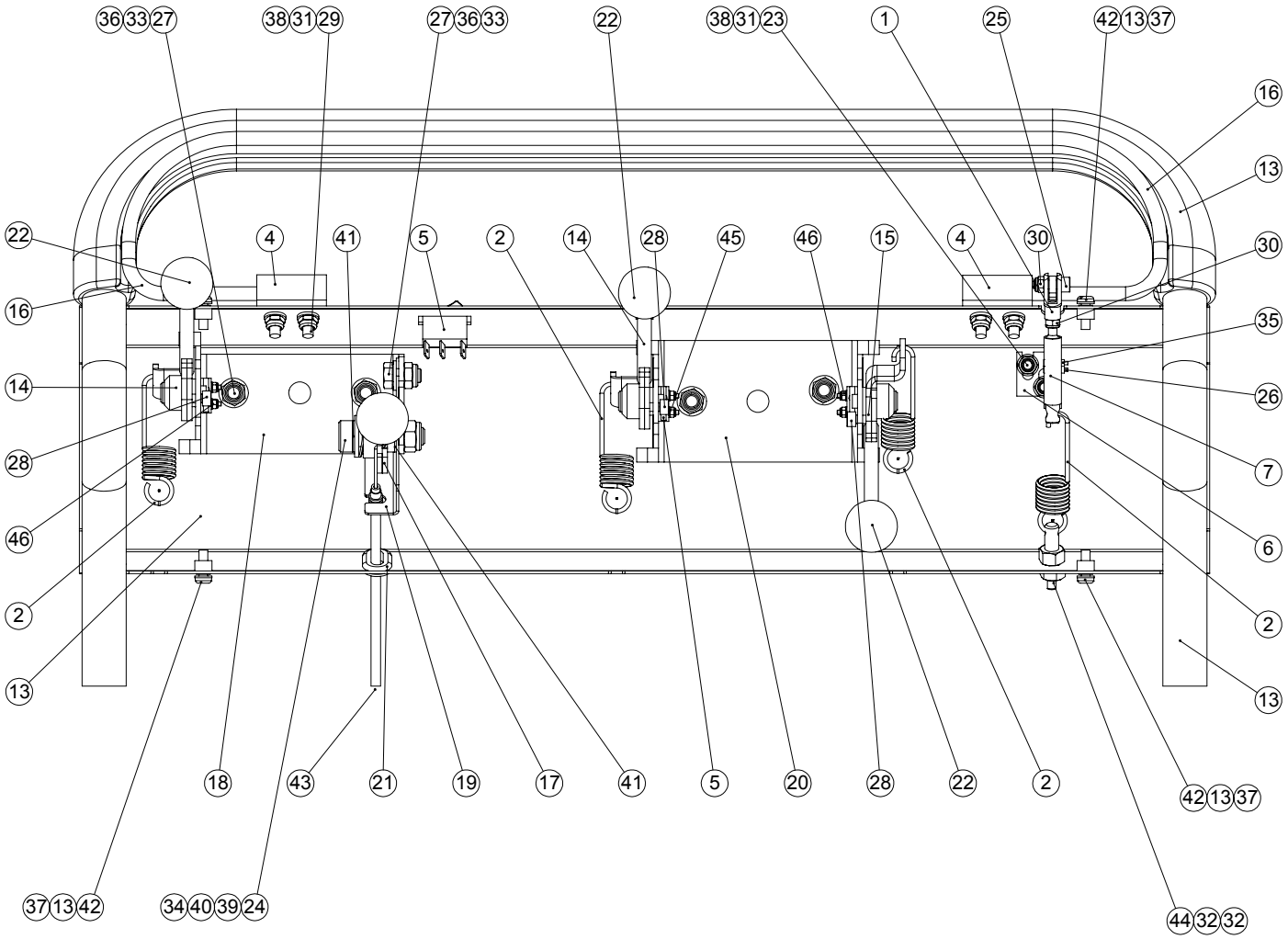
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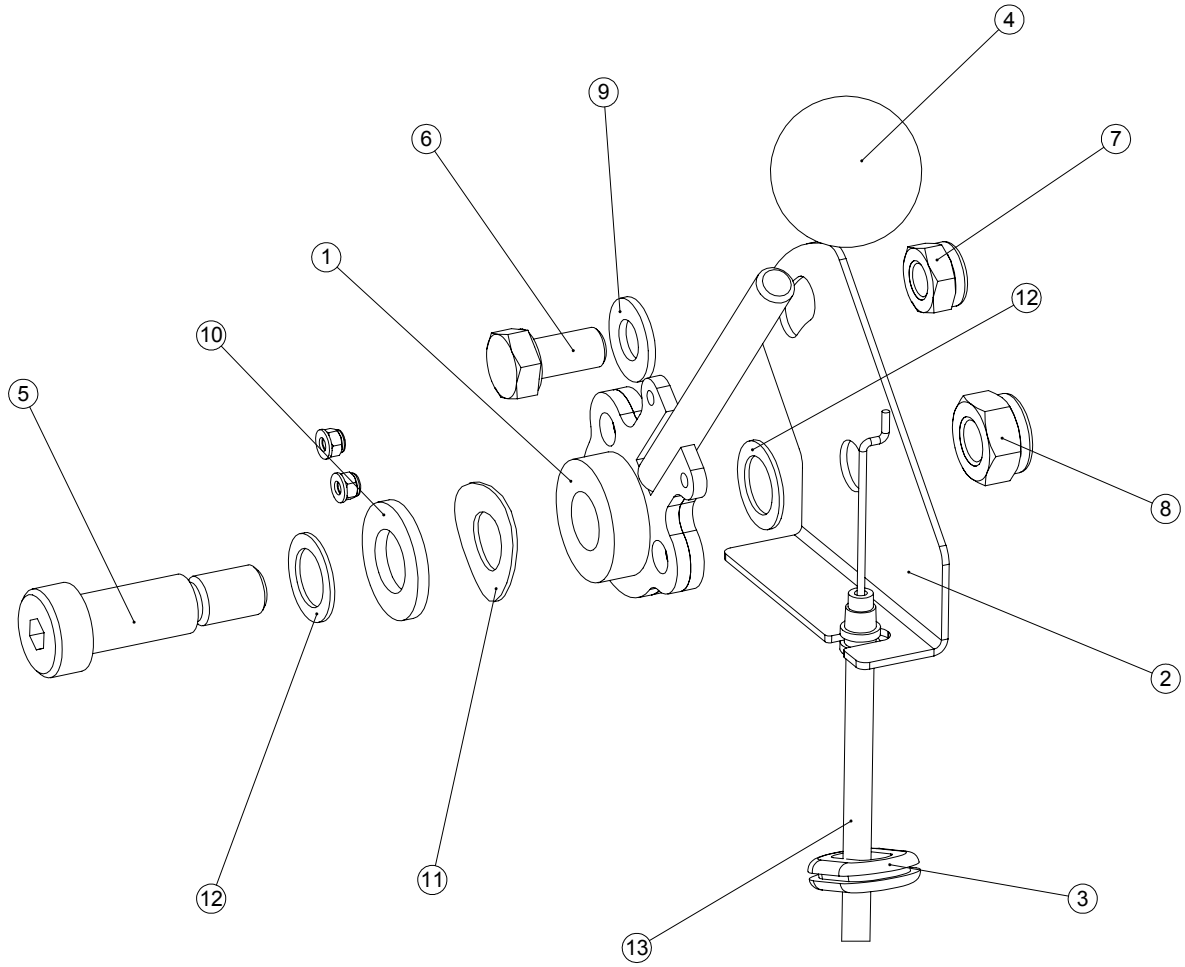
42 13 37
37 13 42
34 40 39 24
44 32 32

HANDLE BARS

ITEM NO.	PART NUMBER	DESCRIPTION	CONTROLS/QTY.
1	228020_REV1	CLEVIS GM5 (5MM)	1
2	229167_REV1	CLUTCH SPRING	4
3	229582_REV2	CONSOLE COVER G760 / G860	1
4	229585_REV1	PIVOT BLOCK	2
5	229586_REV1	HARNESS 860	1
6	229590_REV1	SAFETY SWITCH BRACKET	1
7	229595_REV2	SAFETY LEVER PLUNGER W.A.	1
8	229599_REV1	DECAL ENGINE ON / OFF	1
9	229600_REV1	DECAL CUTTING CYLINDER	1
10	229601_REV1	DECAL ROLLER DRIVE	1
11	229602_REV1	DECAL THROTTLE CONTROL	1
12	229603_REV1	DECAL PARKING BRAKE	1
13	230160_REV0	G-SERIES HANDLE MOULDING ASSY	1
14	230170_REV2	LEVER R.H. W.A.	2
15	230171_REV2	LEVER L.H. W.A.	1
16	230180_REV0	SAFETY BAR W.A.	1
17	230190_REV1	THROTTLE LEVER W.A.	1
18	230195_REV1	THROTTLE / BRAKE BRACKET ASSY	1
19	230196_REV2	THROTTLE PLATE	1
20	230207_REV1	LEVER BRACKET ASSY	1
21	260138_REV1	GROMMET PV270A	1
22	J20017_REV1	KNOB - RED	4
23	SP01019_REV0	BUTTON HEAD M6 X 16	2
24	SP01029_REV0	SHOULDER BOLT 12 X 25 M10	1
25	SP01043_REV0	CAP HEAD M5 X 16	1
26	SP01070_REV0	CAP HEAD M2 X 12	2
27	SP01076_REV0	HEX SET SCREW M8 X 16	3
28	SP01081_REV0	CAP HEAD M5 X 12	3
29	SP01101_REV0	SCREW M6 X 25 SLOTTED	4
30	SP02002_REV0	NUT M5 NYLOC (T)	2
31	SP02004_REV0	NUT M6 NYLOC	6
32	SP02005_REV0	NUT M8 STD	2
33	SP02006_REV0	NUT M8 NYLOC (T)	5
34	SP02008_REV0	NUT M10 NYLOC (T)	1
35	SP02038_REV0	NUT M2 (BUSH)	2
36	SP03008_REV0	WASHER M8 FORM A	5
37	SP03009_REV0	WASHER M5 FORM A	5
38	SP03010_REV0	WASHER M6 FORM A	6
39	SP03012_REV0	WASHER M12 FORM A	1
40	SP03019_REV0	WASHER M12 WAVE	1
41	SP03020_REV0	SHIM 12 X 18 X 1	2
42	SP04001_REV0	SCREW M5 X 16 SLOTTED	5
43	SP12002_REV1	THROTTLE CABLE G860 / G760	1
44	229620_REV2	BOLT FOR SPRING	1
45	SP03039_REV0	WASHER M2.5 FORM A	6
46	SP02059_REV0	NUT M2.5 NYLOC (P)	6

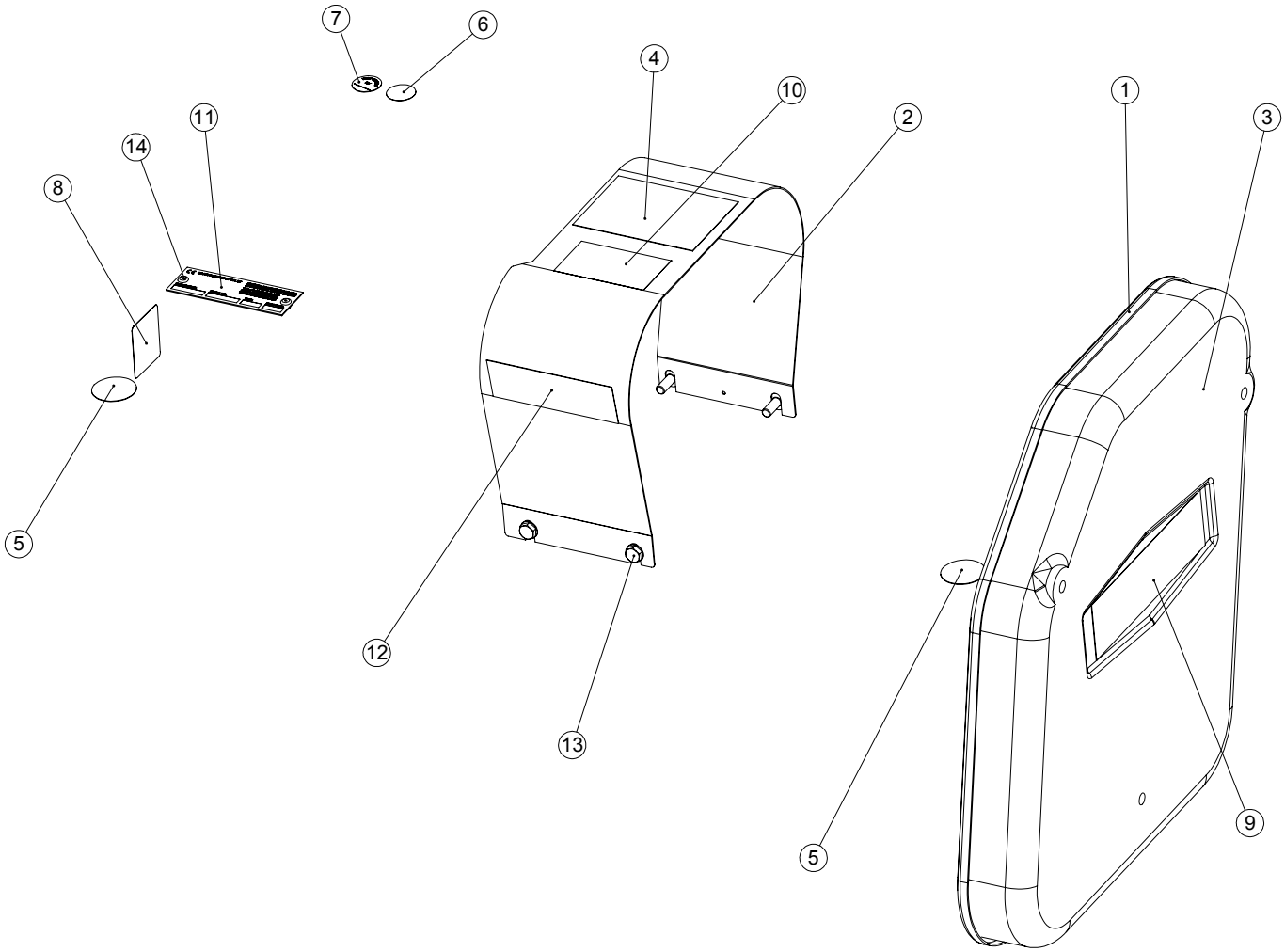
PARTS NOT SHOWN (CABLES AND WIRES)		
PART NUMBER	DESCRIPTION	QTY.
228027	DASHBOARD TO ENGINE LOOM	1
229378	CUTTER DRIVE CLUTCH CABLE	1
229596	ROLLER DRIVE CLUTCH CABLE	1
229597	BRAKE CABLE	1
SP12002	THROTTLE CABLE G860 / G760	1

HANDLE THROTTLE KIT



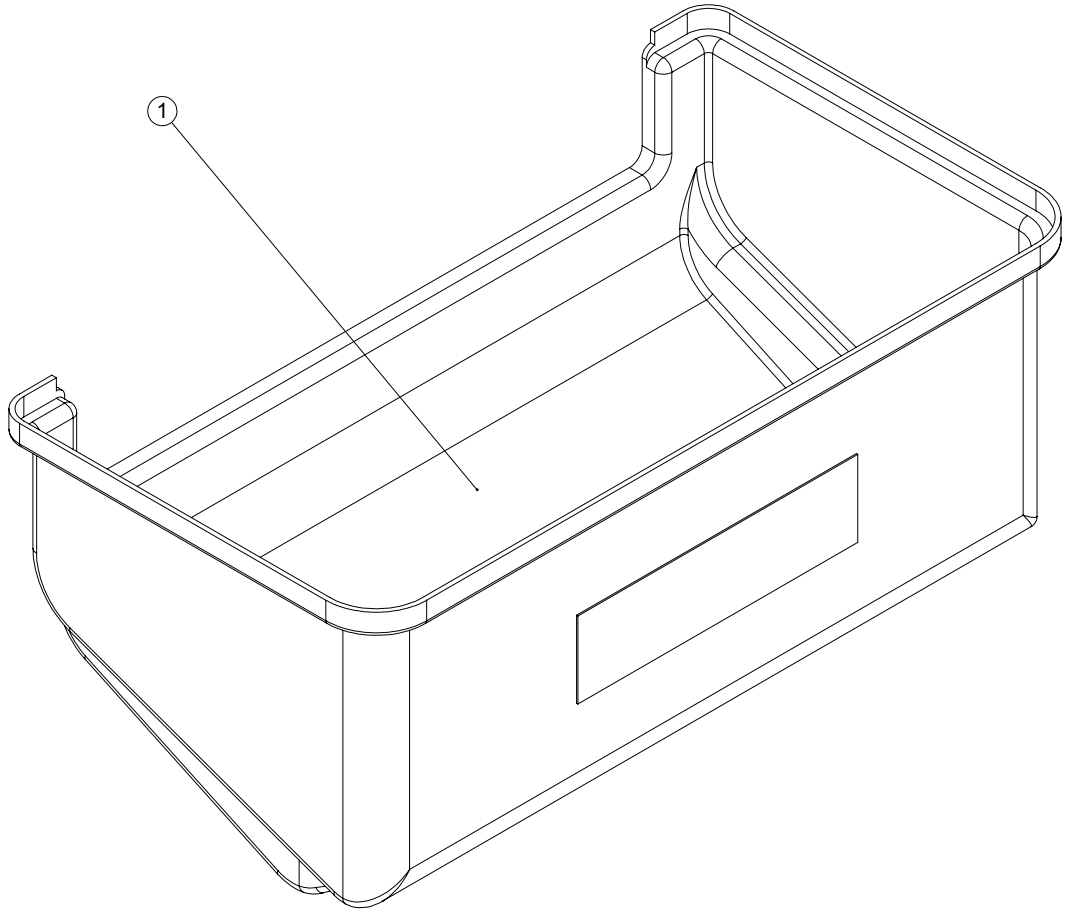
ITEM NO.	PART NUMBER	DESCRIPTION	HANDLE THROTTLE KI/QTY.
1	230190_REV1	THROTTLE LEVER W.A.	1
2	230196_REV2	THROTTLE PLATE	1
3	260138_REV1	GROMMET PV270A	1
4	J20017_REV1	KNOB - RED	1
5	SP01029_REV0	SHOULDER BOLT 12 X 25 M10	1
6	SP01076_REV0	HEX SET SCREW M8 X 16	1
7	SP02006_REV0	NUT M8 NYLOC (T)	1
8	SP02008_REV0	NUT M10 NYLOC (T)	1
9	SP03008_REV0	WASHER M8 FORM A	1
10	SP03012_REV0	WASHER M12 FORM A	1
11	SP03019_REV0	WASHER M12 WAVE	1
12	SP03020_REV0	SHIM 12 X 18 X 1	2
13	SP12002_REV1	THROTTLE CABLE G860 / G760	1
14	229620_REV2	BOLT FOR SPRING	1
15	SP03039_REV0	WASHER M2.5 FORM A	6
16	SP02059_REV0	NUT M2.5 NYLOC (P)	6

GUARDS AND DECALS



ITEM NO.	PART NUMBER	DESCRIPTION	GUARDS AND DECALS/QTY.
1	228031F_REV0	CHAIN CASE SEAL	1
2	229093_REV1	TRANSMISSION GUARD W.A.	1
3	229333_REV2	CHAIN CASE G660/G680/G760/G860	1
4	229375_REV1	DECAL WARNING	1
5	229376_REV0	CUT DECAL	2
6	229579_REV0	READY FOR DISPATCH DECAL	1
7	229580_REV0	DECAL INSPECTION	1
8	229605_REV0	98 Db DECAL	1
9	B32902_REV1	DECAL DENNIS	1
10	B32903_REV0	DECAL UNION JACK	1
11	J20297_REV2	SERIAL NO PLATE (DENNIS)	1
12	J20362_REV1	DECAL DENNIS SMALL	1
13	SP01066_REV0	HEX TAPTITE SCREW M8 X 20	4
14	SP05001_REV0	RIVET 4.8 X 10	2

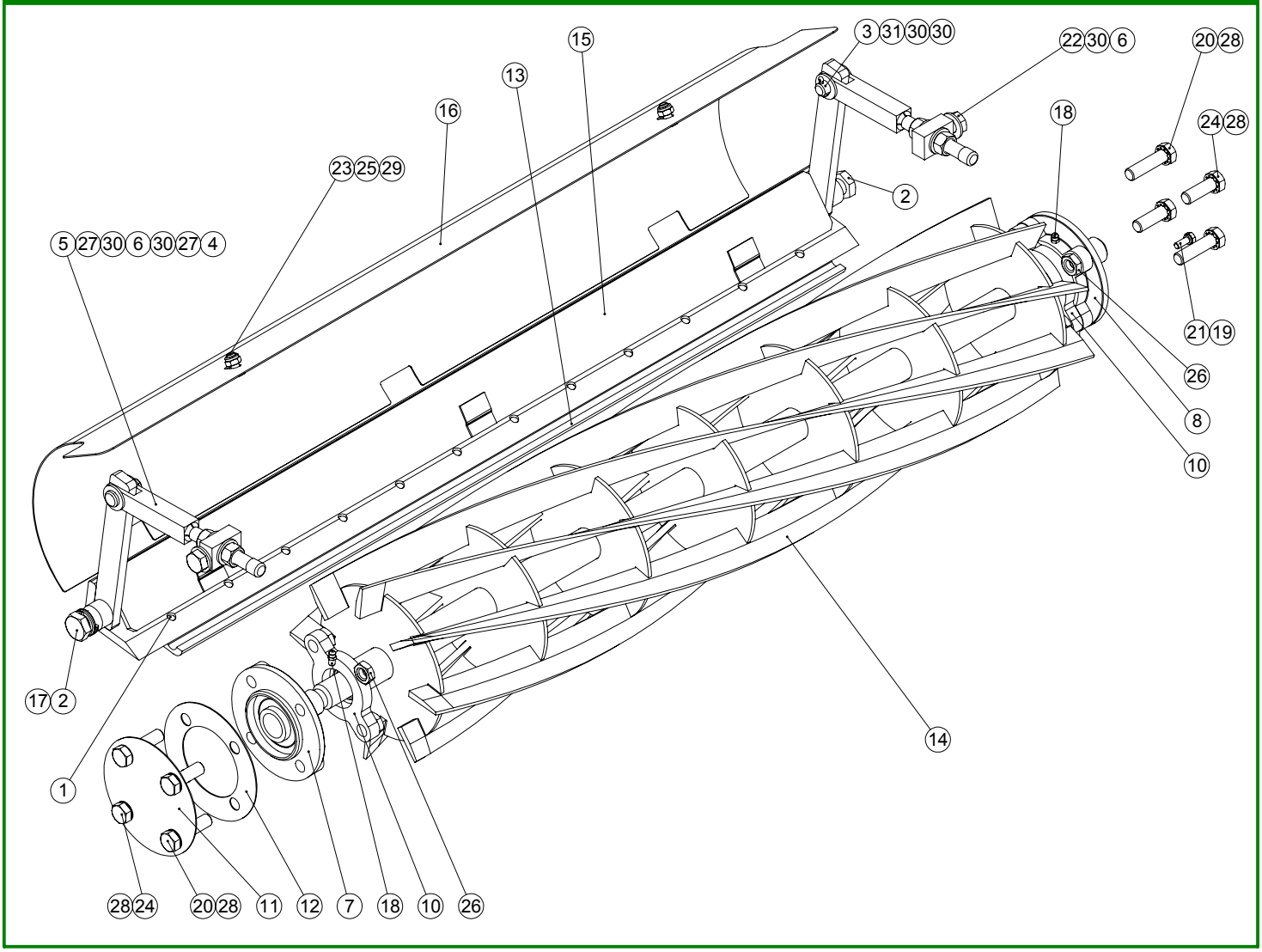
GRASSBOX



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	229243_REV1	GRASS BOX 860	1

MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
1	G26D	229241	GRASSBOX 26"	1
1	G30D	229242	GRASSBOX 30"	1
1	G34D	229243	GRASSBOX 34"	1

CYLINDER



MODEL DIFFERENCES				
ITEM No	MODEL	PART NUMBER	DESCRIPTION	QTY
13	G34D	229229	SHEAR BLADE 34"	1
13	G30D	067171	SHEAR BLADE 30"	1
13	G26D	229652	SHEAR BLADE 26"	1
14	G34D	230555	CYLINDER 8 BLADE 34"	1
14	G30D	230566	CYLINDER 8 BLADE 30"	1
14	G26D	230597	CYLINDER 8 BLADE 26"	1
15	G34D	230610	CYLINDER 11 BLADE 34"	1
15	G34D	230558	34" SHEAR BLADE CARRIER (190)	1
15	G30D	230590	30" SHEAR BLADE CARRIER (190)	1
15	G26D	230600	26" SHEAR BLADE CARRIER (190)	1
16	G34D	230562	34" DEFLECTOR (190)	1
16	G30D	230594	30" DEFLECTOR (190)	1
16	G26D	230604	26" DEFLECTOR (190)	1

CYLINDER CONTINUED

ITEM NO.	PART NUMBER	DESCRIPTION	CYLINDER/QTY.
1	185378_REV1	SCREW 3/8" X 1/2" UNF	12
2	185379_REV1	5/8" UNF HEX SCREW	2
3	228022_REV3	CLEVIS PIN	2
4	228070_REV1	BLACK CAP	2
5	229049_REV2	ADJUSTER ROD	2
6	229051_REV1	ADJUSTER STOP	2
7	229110_REV1	BEARING UCFC205-25	1
8	229111_REV1	BEARING UCFC205-25	1
9	229112_REV1	BLANK PLATE	1
10	229114_REV2	SEAL PROTECTOR	2
11	229209-1_REV1	BEARING COVER OUTER	1
12	229209-2_REV1	BEARING COVER INNER	1
13	229229_REV2	SHEAR BLADE 34" LIPPED	1
14	230555_REV0	CYLINDER 8 BLADE 34" (190)	1
15	230558_REV0	34" SHEAR BLADE CARRIER (190)	1
16	230562_REV0	34" DEFLECTOR (190)	1
17	604760_REV1	THACKERY WASHER	1
18	D1947_REV1	GREASE NIPPLE M6	2
19	E1-1061_REV0	WASHER M6 SPRING	1
20	E1-1157_REV0	HEX BOLT M12 X 45	4
21	SP01008_REV0	HEX SET SCREW M6 X 16	1
22	SP01060_REV0	HEX SET SCREW 1/2" UNF X 3/4"	2
23	SP01076_REV0	HEX SET SCREW M8 X 16	2
24	SP01111_REV0	HEX SET SCREW M12 X 35	4
25	SP02006_REV0	NUT M8 NYLOC (T)	2
26	SP02014_REV0	NUT M12 LOCK (THIN)	8
27	SP02016_REV0	NUT 1/2" UNF	4
28	SP03006_REV0	WASHER M12 TOOTHED	8
29	SP03008_REV0	WASHER M8 FORM A	2
30	SP03024_REV0	WASHER 1/2"	10
31	SP05010_REV0	SPLIT PIN 1/8" X 1"	2

DENNIS, Ashbourne Road, Kirk Langley, Derbyshire, DE6 4NJ, England

Tel: +44 (0) 1332 824 777
Fax: +44 (0) 1332 824 525

Email: sales@dennisuk.com
Email: spares@dennisuk.com

www.dennisuk.com

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Company reg No: 641526 – Vat No GB 345 9918 12