



C27" & C34"

OPERATOR & PARTS MANUAL

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English version

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READ THIS MANUAL BEFORE USING AN ALLETT C27 OR C34 CYLINDER MOWER.

YOUR SAFETY IS INVOLVED

IT IS ESSENTIAL THAT OPERATORS STUDY THIS DOCUMENT FOR THEIR OWN SAFETY.

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1.0 Introduction

The C27 and C34 are designed predominantly as a lawn mower. However, the C27 & C34 base unit has the ability to accept a range of 27" & 34" interchangeable cartridges to cover a number of professional turf management tasks.

The base unit is powered by a petrol engine, it is self propelled via a belt and chain drive to the land roll. The land roll has an internal geared differential. Power is transferred to the cartridge by a toothed coupling and belt drive.

The C27 & C34 mowers are designed for the management of high quality turf. Use in any way other than that stated is considered contrary to the intended use. Compliance and strict adherence to the conditions of operation, service and repair as specified in this manual also constitute essential elements of the intended use.

The way in which the C27 & C34 mowers are operated and maintained will have a profound effect on their performance and reliability.

A C27 & C34 mower should be operated, serviced and repaired only by persons who are familiar with its particular characteristics and who are familiar with the relevant safety procedures.

The safety precautions outlined in this manual and all other generally recognised regulations on safety must be observed at all times.

Any modifications carried out to a C27 & C34 mower will relieve Allett Limited of liability for any resulting damage or injury.

This manual is based on information available at the time of publication.

Allet Limited reserves the right to amend product specifications without prior notification.

1.1 Model type and serial number

The model can be found in two places:

1. On the top cover of the mower.
2. On the serial number plate located on the right side of the mower chassis.

The serial number can be found on the serial plate.

Please enter your information below

Model:

Serial Number:

ALLET LTD Regal House, Airfield Industrial Estate, Hixon, Staffordshire, U.K. ST18 0PF Tel: 01889 271503 www.allett.co.uk			
MODEL			
SERIAL No.			
YEAR OF MAN'F.		UNLADEN WEIGHT kg	
MADE IN THE UK			

2.0 Pictograms and Decals



Refer to manual before carrying out maintenance,
Engine On/Off switch, Read manual before starting



Guaranteed Sound power level
emitted by the mower



Bottom blade to cylinder adjustment



Flying debris, keep bystanders away. Warning, sharp blades, do not touch rotating blades.
The blades continue to rotate after the mower is switched off

3.0 Safety notes

Read these instructions carefully, be familiar with the controls and the proper use of the lawnmower.
Learn how to stop the lawnmower quickly in an emergency.

Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations may restrict the age of the operator.

Never mow while people, especially children or pets are nearby

Never pick up or carry the lawnmower while the motor is running.

Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Whilst mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.

Wear appropriate protective clothing and equipment when you are operating the lawnmower, such as safety glasses, long trousers, substantial footwear and ear protection. Long hair, loose clothing or jewellery can get tangled in moving parts.

Thoroughly inspect the area where the lawn mower is to be used and remove all objects that may be thrown by the machine.

WARNING - petrol is highly flammable.

- Store fuel in containers especially designed for this purpose
- Refuel outdoors only and do not smoke while refuelling
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol whilst --the engine is running or the engine is hot.

- If petrol is spilt, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.
- Replace the fuel tank and container caps securely
- Replace faulty silencers
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Before using, always visually inspect to see that the cartridge is not worn or damaged.

Mow only in daylight or in good artificial light.

Avoid operating the lawnmower in wet grass, where feasible.

Always be sure of your footing on slopes.

Walk, never run.

Mowing on banks can be dangerous:

- Mow across the face of slopes – never up and down.
- Be particularly careful of your footing on slopes or wet grass.

Exercise extreme caution when changing direction on slopes.

Do not mow excessively steep slopes.

- Use extreme caution when stepping back or pulling the lawnmower towards you.

Stop the blades if the lawnmower has to be tilted for transportation when crossing surfaces other than grass and when transporting the lawnmower to and from the area to be mowed.

Do not tilt the lawnmower when starting, except if the lawnmower has to be tilted for starting in long grass or when using a cartridge set to work below the surface. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator. Always ensure that both hands are in the operating position returning the mower to the ground.

Never operate the lawnmower with defective guards or without the safety devices, for example deflectors and grass catchers in place.

Do not change the engine governor settings or overspeed the engine. Operating an engine at excessive speed may increase the hazard of personal injury.

Disengage all blade drive clutches before starting the engine

Start the engine carefully according to instructions and with feet well away from the blades. Do not tilt the mower when starting. Keep clear of the discharge opening at all times. Never pick up or carry a lawnmower while the engine is running.

Do not put hands or feet near or under rotating parts while the lawnmower is being operated.

Stop the engine and disconnect the spark plug lead:

- Before checking, cleaning or working on the lawnmower
- After striking a foreign object, inspect the lawnmower for damage and make repairs before restarting and operating the lawnmower.
- If the lawn mower starts to vibrate abnormally (check immediately).
- Before making height of cut adjustment

Stop the engine:

- Whenever you leave the machine
- Before refuelling
- Before checking blockages
- Before making a height of cut adjustment

Reduce the throttle setting during engine shut-down and turn the fuel off at the conclusion of mowing.

Keep all nuts, bolts and screws tight to be sure that the lawnmower is in safe working condition.

Never store the lawnmower with petrol in the tank inside a building where fumes may reach an open flame or spark.

Allow the engine to cool before starting in any enclosure.

To reduce the fire hazard, keep the engine, silencer and fuel storage area free of grass, leaves or excessive grease.

Check the grassbox frequently for wear or deterioration.

Replace worn or damaged parts for safety.

Go slow when using a trailing seat, especially when cornering.

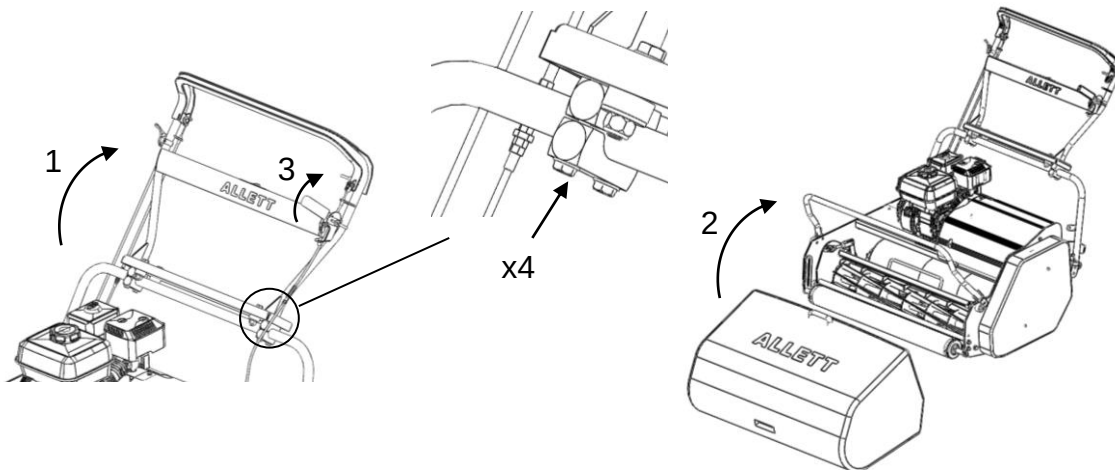
If the fuel tank has to be drained, this should be done outdoors.

Be careful during the adjustment of the lawnmower to prevent entrapment of the feet and hands between moving blades and fixed parts of the lawnmower.

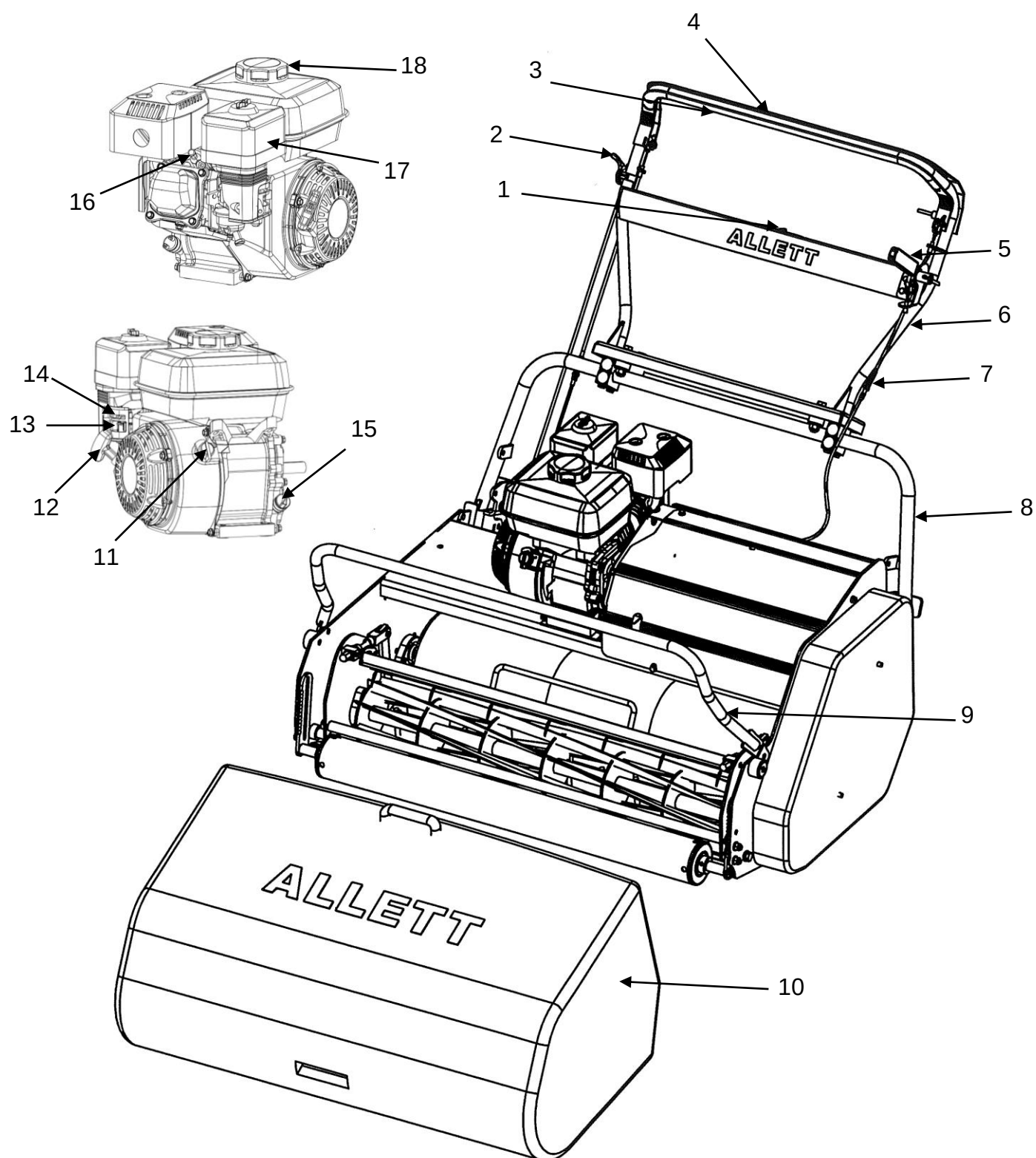
Ensure replacement parts fitted are manufacturer's original or approved by the manufacturer.

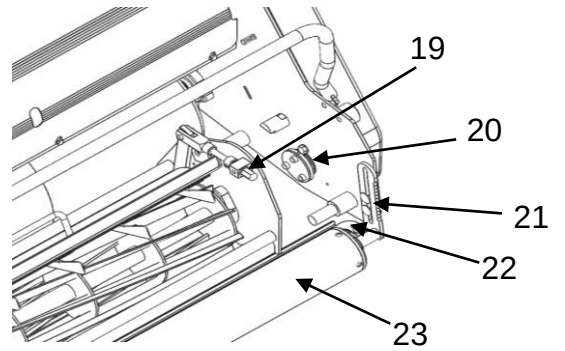
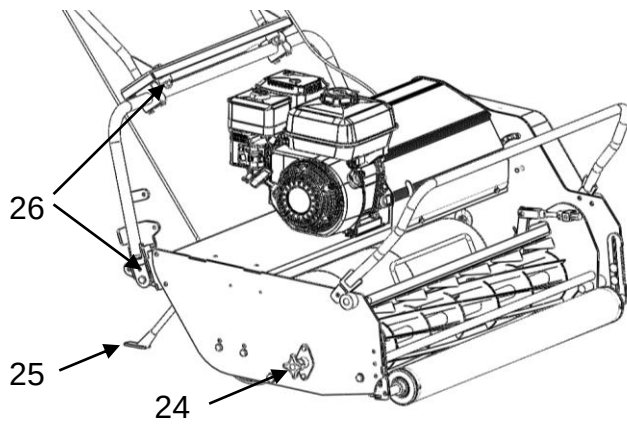
4.0 Assembly

- 1) Fold handles back to a comfortable operator height and tighten 4 bolts
- 2) Fold down grass box cradle and fit grass box
- 3) Release the handbrake



5.0 Operating controls



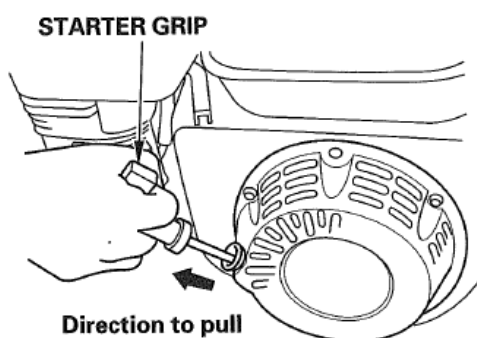
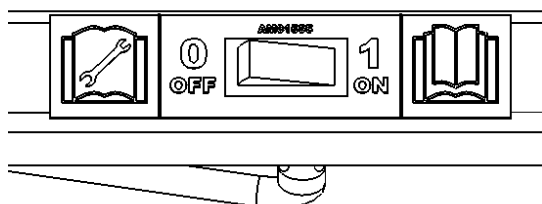
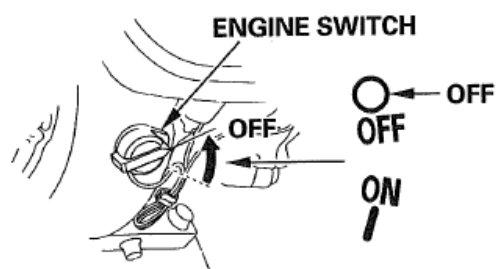
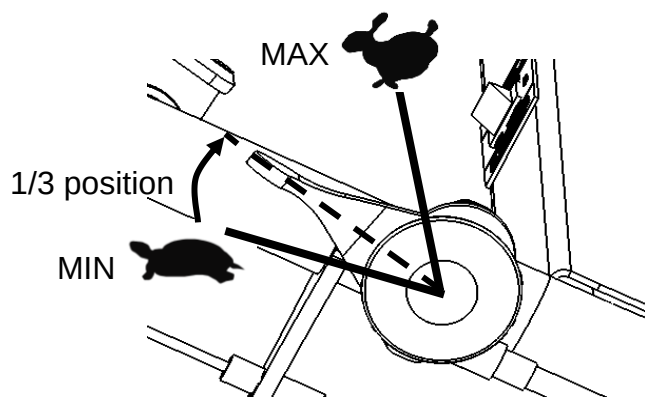
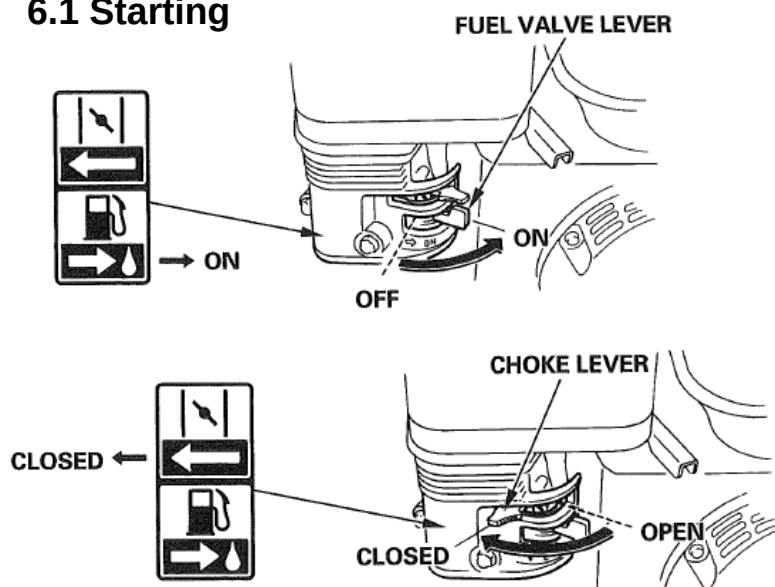


- 1) Handle bar ON/OFF switch
- 2) Throttle
- 3) Cutting cylinder engagement
- 4) Land roll engagement
- 5) Park brake
- 6) Top handle bar
- 7) Cable adjuster
- 8) Bottom handle bar
- 9) Grass box cradle
- 10) Grass box
- 11) Engine ON/OFF switch
- 12) Starter grip
- 13) Fuel valve lever

- 14) Choke lever
- 15) Oil dipstick
- 16) Spark plug
- 17) Air filter
- 18) Fuel tank
- 19) Bottom blade adjuster
- 20) Cartridge drive coupling
- 21) Front roller adjuster
- 22) Front roller scraper
- 23) Front roller
- 24) Cartridge securing screw
- 25) Kick stand
- 26) Vibration mounts

6.0 Using your mower

6.1 Starting



1) Move the fuel valve lever to the ON position



2) For a cold ❄ start move the choke lever to the CLOSED position **| \ |**

To restart a warm ☀ engine leave the choke lever in the OPEN position



3) Set the throttle to 1/3 position between MIN and MAX

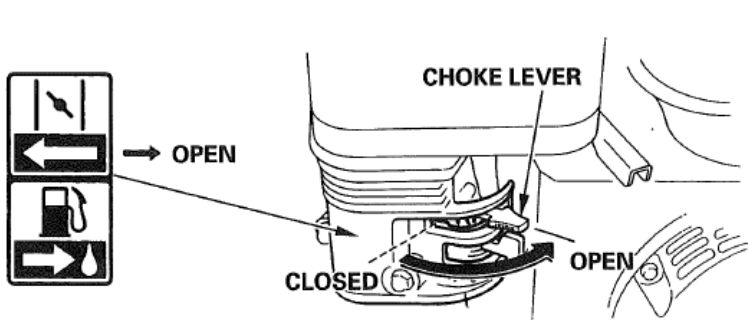


4) Turn the engine switch to the ON position



5) Move the handle bar mounted engine switch to the ON position

6) Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently



7) If the choke lever was moved to the CLOSED position  to start the engine, gradually move it to the OPEN position  as the engine warms up

6.2 Stopping

- 1) Move the throttle lever to MIN position
- 2) Move the handle bar mounted stop switch to OFF
- 3) Turn the petrol tap OFF

To stop in an emergency, move the handle bar mounted stop switch to OFF

6.3 Adjusting the bottom blade - setting “on cut”

For grass cutting cylinder cartridges only.

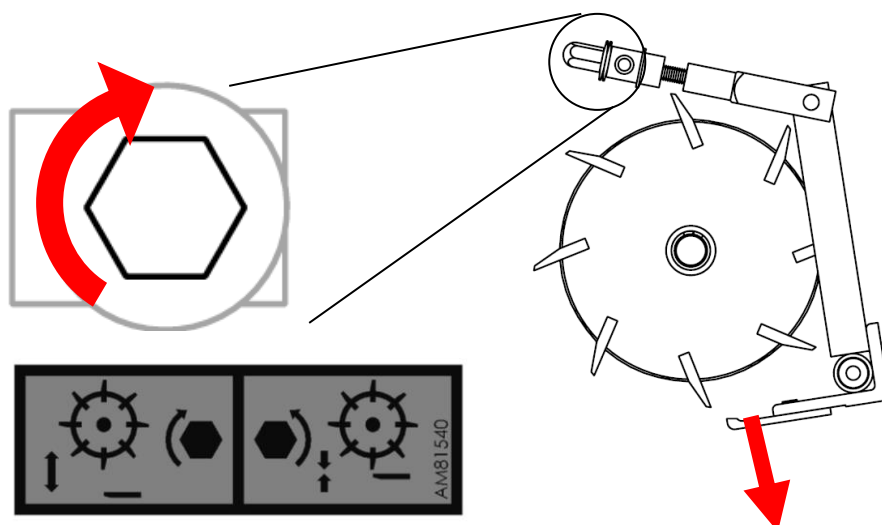
The bottom blade is correctly adjusted when the cutting cylinder lightly brushes the bottom blade as the cylinder is turned. Contact should be made across the full width of the bottom blade.

The blades act like a pair of shears, as a test correctly adjusted blades will cleanly cut a piece of good quality writing paper across the width of the blade. The bottom blade should be adjusted if the grass is not cut cleanly and evenly.

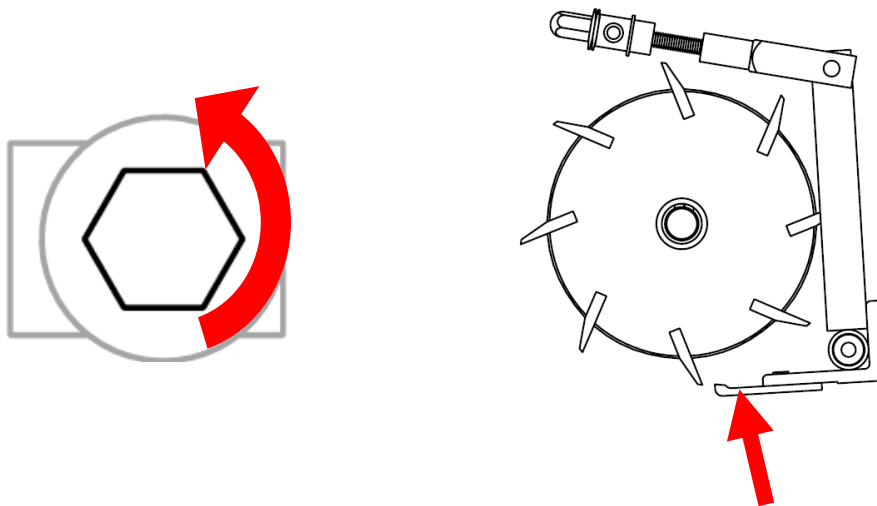
WARNING – Blades are sharp always wear gloves

To set the cutting cylinder cartridge on cut:

- 1) Tilt the mower back and wedge securely
- 2) Turn the adjuster screws anti clockwise to move the bottom blade closer to the cylinder
Turn the adjuster screws clockwise to move the bottom blade further from the cylinder
- 3) When making adjustments to the bottom blade frequently check progress by cutting a piece of paper



Bottom blade
adjustment decal

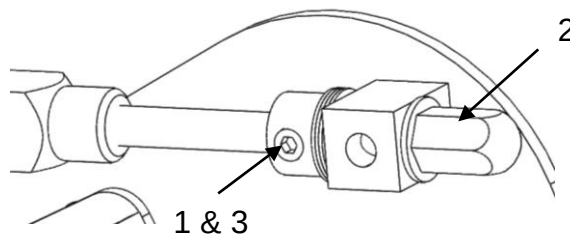


Do not over tighten the bottom blade – the cylinder should be able to spin freely

If you are still unable to cleanly cut paper, inspect the bottom blade and cylinder. If they appear, rounded, damaged or excessively worn they may need to be reground or replaced. New bottom blades should always be reground attached to the bottom blade carrier. For bottom blade grinding angles see the section 7.6

The bottom blade adjusters can sometimes become very tight and may be hard to turn. If this is the case:

- 1) Slacken off the grub screw on the collar
- 2) Rotate the adjuster anti-clockwise 1/8th of a turn
- 3) Tighten the grub screw



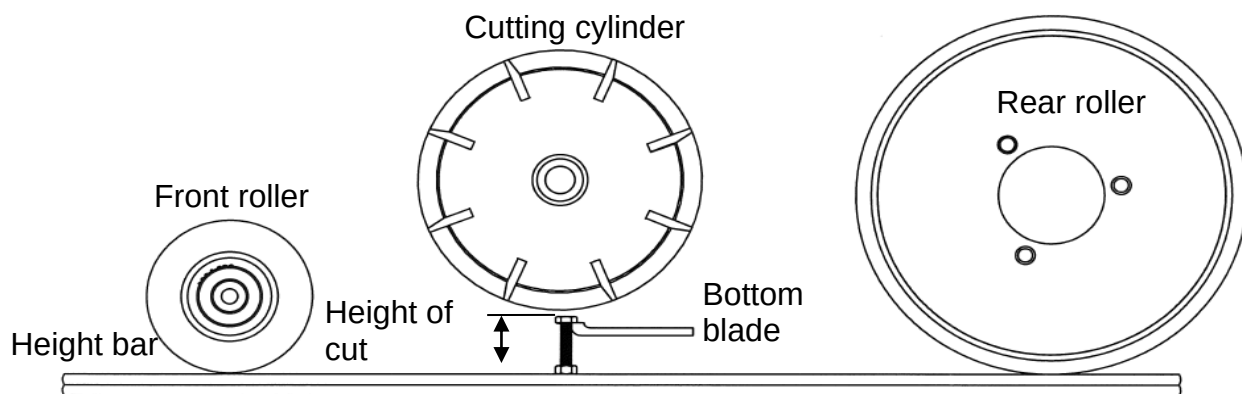
6.4 Height of cut adjustment

The height of cut is set by altering the position of the front roller.

WARNING - blades are sharp, always wear gloves

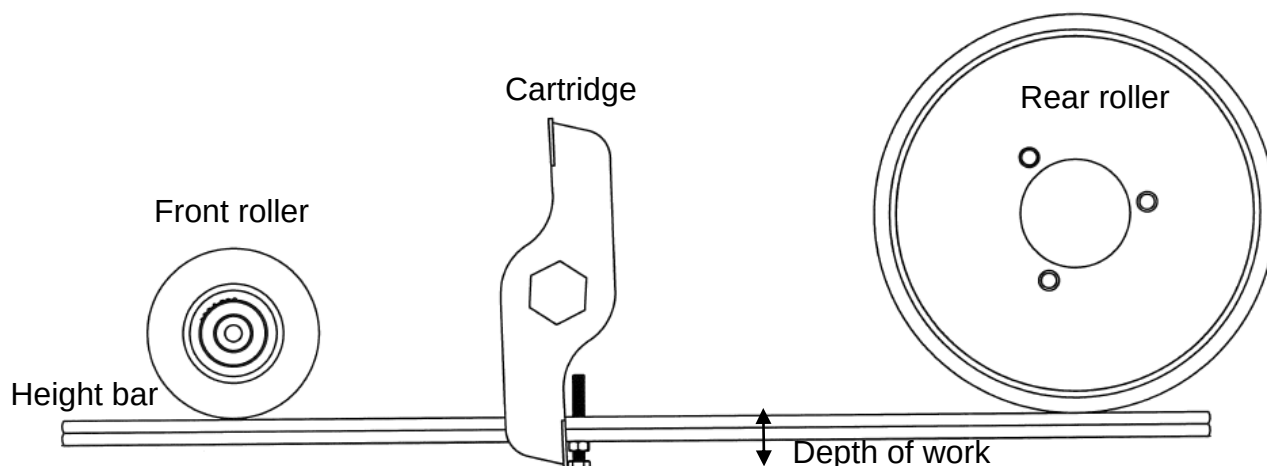
For a cutting cylinder cartridge:

- 1) Set “on cut” first, refer to section 6.3
- 2) Adjust and lock the bolt on the height setting bar to your desired height of cut
- 3) Slacken the four front roller fasteners
- 4) Tilt the mower back and wedge securely
- 5) With the height setting bar near one end of the bottom blade, locate the bolt head on top of the bottom blade and under the rear roller
- 6) Adjust the front roller so it makes contact with the height setting bar
- 7) Tighten the front roller fasteners on the side you have adjusted
- 8) Move the height setting bar to the other end of the bottom blade and repeat steps 5-8



For all other turf maintenance cartridges:

- 2) Adjust and lock the bolt on the height setting bar to your desired working height or depth
- 3) Slacken the four front roller fasteners
- 4) Tilt the mower back and wedge securely
- 5) With the height setting bar near one edge of the cartridge, position one end against the rear roller
- 6) Adjust the front roller so it makes contact with the height setting bar and the bolt head lines up with the blade/tine/bristle
- 7) Tighten the front roller fasteners on the side you have adjusted
- 8) Move the height setting bar to the other end of the cartridge and repeat steps 5-8



6.5 Engaging drive to the cylinder/cartridge

- 1) Gradually squeeze the cylinder/cartridge bail bar towards the top handle
- 2) Release the bail bar to stop the cylinder/cartridge

6.6 Engaging drive to the land roll

- 1) Gradually squeeze the drive bail bar towards the top handle
- 2) Release the bail bar to stop forward movement

6.7 Park brake

The park brake is designed to lock the transmission. DO NOT use the park brake whilst the mower is moving, only apply it when the mower is stationary.

To engage the park brake:

- 1) Pull and hold the red lever on the top handle bar
- 2) Tighten the lock handle

6.8 Mowing

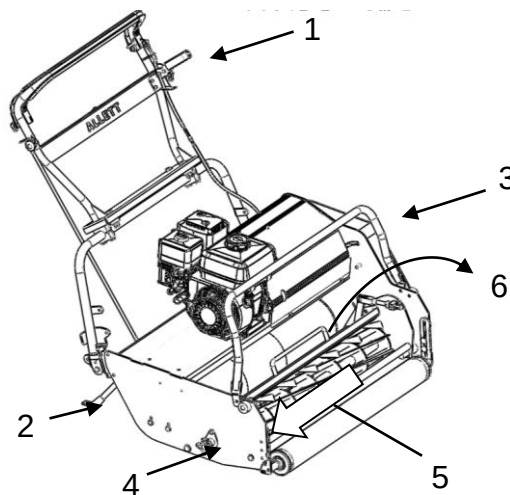
- 1) Before mowing check the engine oil level and fill the petrol tank (see maintenance section)
- 2) Start the engine – see section 6.1
- 3) Engage drive to the cylinder/cartridge
- 4) Release the park brake
- 5) Engage drive to the land roll

6.9 Removing and replacing a cartridge

WARNING - blades are sharp, always wear gloves

To remove a cartridge:

- 1) Stop the engine and apply the park brake
- 2) Lower the kick stand – WARNING the mower will become unstable when the cartridge is removed, the kick stand prevents instability
- 3) Remove the grass box and fold up the grass box cradle
- 4) Loosen the cartridge securing hand wheel
- 5) Slide the cartridge across to separate the drive coupling
- 6) Lift the cartridge out using the handle. Obtain assistance if required. WARNING - some cartridges are above 25kg



To replace a cartridge:

- 1) Stop the engine and apply the park brake
- 2) Lower the kick stand – WARNING the mower will become unstable when the cartridge is removed, the kick stand prevents instability
- 3) Remove the grass box and fold up the grass box cradle
- 4) Lift the cartridge in to the frame using the handle. Obtain assistance if required. WARNING - some cartridges are above 25kg.
- 5) Align the teeth on the drive coupling, use the indicator marks to help
- 6) Slide the cartridge across to engage the drive coupling
- 7) Tighten the hand wheel to secure the cartridge in place

7.0 Maintenance

WARNING – Stop the engine and remove the spark plug cap

To ensure long and reliable service, carry out the following maintenance regularly:

Regularly check for obvious defects such as a loose, dislodged or damaged blades, loose fixings and worn or damaged components.

Check that covers and guards are undamaged and correctly fitted. Carry out necessary maintenance or repairs before using.

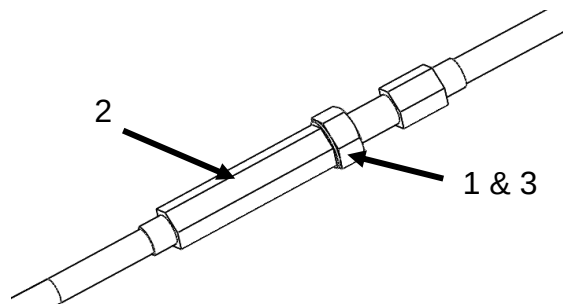
Clean the exterior of the machine thoroughly using a soft brush and cloth. Remove all debris, especially from the air filter and engine fins.

If the mower should happen to fail despite the care taken in manufacture and testing, repair should be carried out by an authorised Allett dealer.

7.1 Adjusting land drive and cylinder cables

If the mower or cylinder doesn't drive adequately it may be necessary to adjust the drive cable as follows:

- 1) Slacken lock nut
- 2) Turn the adjuster a few times clockwise
- 3) Retighten the adjuster with the lock nut

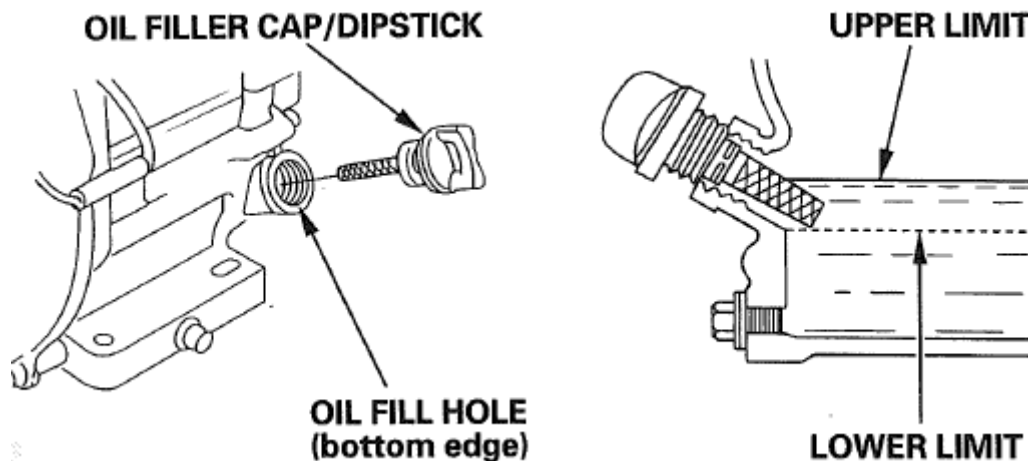


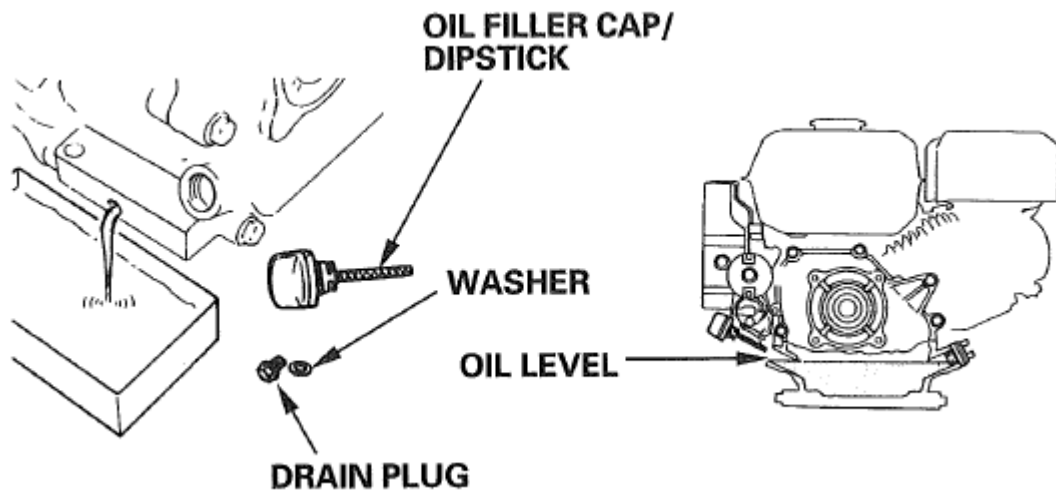
When correctly adjusted, drive to the rear roller or cylinder is engaged when the bail bar is squeezed against the top handle. When released drive should disengage.

7.2 Checking the engine oil

Change the engine oil after the first 8 hours of use. The oil should then be changed every 50 hours or at the end of each season before storage, whichever is sooner.

- 1) With the mower standing on level ground, unscrew and remove the engine oil filler dipstick (X)
- 2) Wipe the oil filler dipstick clean: insert the oil dipstick, then remove it again. Do not screw it in.
- 3) Check the oil level
- 4) Add a good quality SAE10W-30 oil in small quantities at a time, allowing it to settle. Repeatedly add oil and check the level until it reaches the upper limit.





SAE 10W-30 oil is recommended for general use. It is important to use the recommended oil to avoid damage to your engine. Engine oil capacity is 0.6L

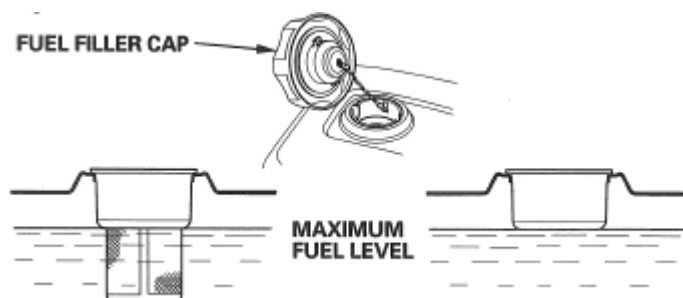
7.3 General engine maintenance

Check and clean the air filter (X), replace if necessary. See engine manual for details.
Check and clean the fuel sediment bowl and spark plug. See engine manual for details.
For all other engine adjustments and maintenance refer to the engine manual.

7.4 Fuel

Petrol deteriorates over time. Engine starting may be difficult if you use petrol kept for more than 30 days. Always run the fuel tank dry when storing over 30 days.

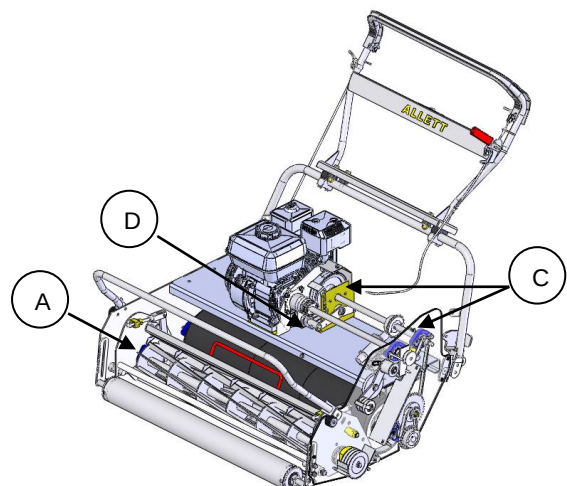
- 1) Remove the petrol filler cap (X), slowly add unleaded petrol to the tank, fill to approximately the top of the strainer gauze.
- 2) Replace petrol filler cap
- 3) Wipe up any spilt petrol from the engine before starting the mower



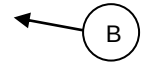
7.5 Grease points

8 Grease points in total
(Remove covers to access grease points)

A) 2 cartridge bearings (1 pump every 1-2 weeks)



- B) 2 rear roller bearings (1 pump every month)
- C) 3 drive shaft bearings (1 pump every 1-2 weeks)
- D) 1 idler pulley bearing (1 pump every 1-2 weeks)



Recommended best practice is to grease little and often

7.6 Bottom blade grinding angles

For cylinder cutting cartridges only. The cutting performance of the C27 & C34 is highly dependent on the condition of both the cylinder and bottom blade. Poorly maintained parts will lead to a poor quality of cut.

Newly fitted bottom blades will need to be ground when bolted to the blade carrier to ensure a perfectly flat cutting edge.

It is advisable that grinding/reconditioning is carried out by an authorised Allett dealer to the angles shown below.



7.7 Inspection of safety critical components

The below parts are critical to the safe operation of your lawnmower, before each use check that:
When the park brake is engaged the mower cannot move.

The guards, deflectors and the grass box are in good condition and secured in place

The On/off engine switch stops the mower in case of an emergency

When the bail bars are released the cylinder/cartridge and land roll drive stop immediately

7.8 Maintenance schedule

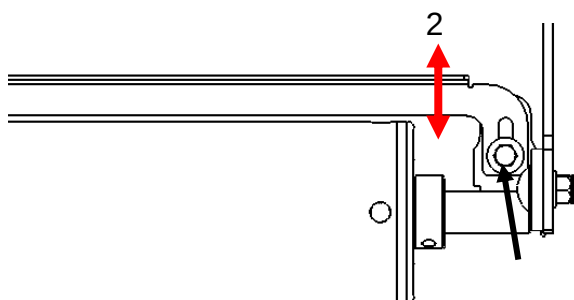
Activity	Task	Daily	Weekly	Monthly	Yearly
Check					
	Engine oil level	●			
	Fuel level	●			
	Air cleaner condition	●			
	Guards in place	●			
	Cutting cylinder/cartridge	●			
	Fasteners		●		
	Chain and belt tension			●	
	Spark plug			●	
Clean					
	Debris/grass from mower	●			
	Engine cooling fins	●			
	Fuel sediment bowl				●
	Air filter elements		●		
	Inside guards		●		
Test					
	Parking brake	●			
	On/off switches	●			
	Drive engagement/disengagement	●			
Replace					
	Engine oil				●
	Spark plugs				●
	Air filter elements				●

8.0 Making adjustments to your mower

8.1 Front roller scraper

To keep the front roller clean it is fitted with an adjustable scraper. To adjust the scraper:

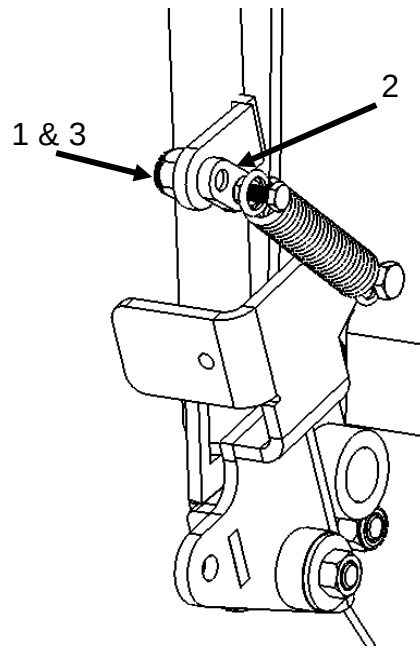
- 1) Slacken the two locking screws
- 2) Move the scraper bar so there is minimal clearance between the bar and the roller
- 3) Tighten the two locking screws



8.2 Floating handle bars

The upper and lower handle bars are isolated with rubber vibration mounts. The lower handle bar is also suspended via springs. The sprung lower handle bar is designed to “float” off the rubber stops when in use. The spring tension can be adjusted by rotating the spring anchor.

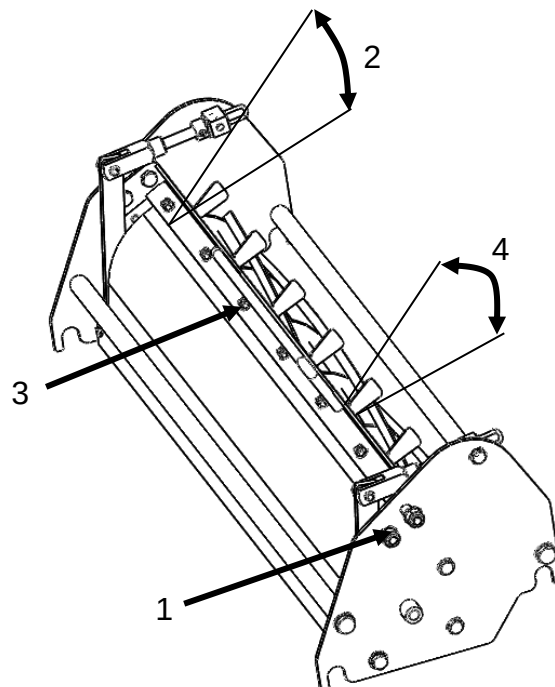
- 1) Slacken the locking nut
- 2) Rotate the spring anchor to adjust spring tension
- 3) Tighten the locking nut



8.3 Delivery plate and fins

The delivery plate on the cylinder cartridge and the grass deflector veins can be adjusted to alter the grass trajectory into the grass box.

- 1) Loosen the 4 delivery plate screws
- 2) Adjust the delivery plate up or down then tighten the screws
- 3) Loosen each grass deflector locking screw
- 4) Individually adjust the deflector left or right then tighten the screws



9.0 Vibration reduction

Best practices for reducing vibration emission:

The mower is designed to operate at low engine speeds. Adequate performance can be achieved at little over idle speed.

Inspect the rubber vibration mounts for signs of wear and deterioration, replace if necessary. Properly adjust the sprung floating handle bars to improve operator comfort and further limit vibration transmission (See section 8.2).

A well maintained mower with an accurately ground and balanced cylinder are recommended to limit vibration emission. Forcing the mower to cut longer grass than intended or setting cartridges to work at great depths or on unsuitable surfaces will result in higher levels of vibration and wear.

10.0 EU Declaration of conformity

We: **Allett Ltd**

of: Regal House, Airfield Industrial Estate, Hixon, Staffordshire, ST18 0PF, UK
declare that:

Equipment: Lawn mower

Model name/number: C27 (Cutting width 0.689m)

in accordance with the following directives:

2014/53/EU	Conforms with the essential protection requirements of the Electromagnetic Compatibility Directive and its amending Directives.
2006/42/EC	Conforms with the essential requirements of the Machinery Directive and its amending Directives.
2000/14/EC	Conforms with the essential requirements of the Noise Directive and its amending Directives. The conformity assessment procedure followed was in accordance with Annex VI of the Directive

Has been designed and manufactured to the following standards:

EN ISO 12100-1:2003+A1:2009

Safety of machinery. Basic concepts, general principles for design. Basic terminology, methodology.

EN ISO 12100-2:2003+A1:2009

Safety of machinery. Basic concepts, general principles for design. Technical principles.

BS EN ISO 5395-1/-2:2013

Garden equipment – Powered lawnmowers – Safety

Measured Sound Power Level (2000/14/EC, Iso 5395-1 Annex F): --96dB L_{WA}

Guaranteed Sound Power Level (2000/14/EC): --98dB L_{WA}

Uncertainty K: 2.5dB

Sound Power Level Limit (BS EN Iso 5395-1 Annex F): 98dB L_{PA}

Wear hearing protection!

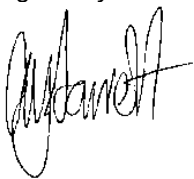
Vibration test code BD EN Iso 5395-1 Anex G, ah 3.96m/s/s Uncertainty K: 0.5m/s/s

Notified body: AVT Reliability, Warrington, Cheshire

Technical construction file is kept by: ALLETT Ltd, Regal House, Airfield Industrial Estate, Hixon, Staffordshire, ST18 0PF, UK

I hereby declare that the equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The unit complies with all essential requirements of the Directives

Signed by:



Name: Austin Jarrett

Position: Managing Director

Done at: Allett Ltd, Regal House

On: -- 1st April 2018

Best practices for reducing noise emission:

This mower is designed to operate at low engine speeds. Adequate performance can be achieved at little over idle speed. Setting minimal contact between the cylinder and bottom blade will also help reduce noise emissions. Forcing the mower to cut longer grass than intended or setting it to work at great depths may cause higher levels of noise emission. Damaged exhausts or loose guards can increase noise emissions. Therefore, before use inspect the exhaust system for signs of wear and ensure the guards are securely attached and in good condition.

10.1 EU Declaration of conformity

We: **Allet Ltd**

of: Regal House, Airfield Industrial Estate, Hixon, Staffordshire, ST18 0PF, UK

declare that:

Equipment: Lawn mower

Model name/number: C34 (Cutting width 0.86m)

in accordance with the following directives:

2014/53/EU	Conforms with the essential protection requirements of the Electromagnetic Compatibility Directive and its amending Directives.
2006/42/EC	Conforms with the essential requirements of the Machinery Directive and its amending Directives.
2000/14/EC	Conforms with the essential requirements of the Noise Directive and its amending Directives. The conformity assessment procedure followed was in accordance with Annex VI of the Directive

Has been designed and manufactured to the following standards:

EN ISO 12100-1:2003+A1:2009

Safety of machinery. Basic concepts, general principles for design. Basic terminology, methodology.

EN ISO 12100-2:2003+A1:2009

Safety of machinery. Basic concepts, general principles for design. Technical principles.

BS EN ISO 5395-1/-2:2013

Garden equipment – Powered lawnmowers – Safety

Measured Sound Power Level (2000/14/EC, Iso 5395-1 Annex F): 98dB L_{WA}

Guaranteed Sound Power Level (2000/14/EC): 100dB L_{WA}

Uncertainty K: 2.5dB

Sound Pressure Level (BS EN Iso 5395-1 Annex F): 86dB L_{PA}

Wear hearing protection!

Vibration test code BD EN Iso 5395-1 Anex G, ah 5.9m/s/s Uncertainty K: 0.5m/s/s

Notified body: AVT Reliability, Warrington, Cheshire

Technical construction file is kept by: ALLETT Ltd, Regal House, Airfield Industrial Estate, Hixon, Staffordshire, ST18 0PF, UK

I hereby declare that the equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The unit complies with all essential requirements of the Directives

Signed by:



Name: Austin Jarrett

Position: Managing Director

Done at: Allett Ltd, Regal House

On: 1st March 2018

Best practices for reducing noise emission:

This mower is designed to operate at low engine speeds. Adequate performance can be achieved at little over idle speed. Setting minimal contact between the cylinder and bottom blade will also help reduce noise emissions. Forcing the mower to cut longer grass than intended or setting it to work at great depths may cause higher levels of noise emission. Damaged exhausts or loose guards can increase noise emissions. Therefore, before use inspect the exhaust system for signs of wear and ensure the guards are securely attached and in good condition.

11.0 Fault finding when mowing

Problem	Possible cause	Remedy
Occasional blades of uncut grass.	Ground speed too fast. Height of cut too high Poorly adjusted bottom blade. Blunt cutting cylinder/bottom blade. Drive belt slipping.	Reduce forward travel speed. Reduce height of cut. Re-adjust bottom blade. Grind/recondition as necessary. Adjust belt tension.
Strips of uncut grass between adjacent runs.	Overlap between runs too small.	Increase overlap between runs.
Uneven cut on uneven ground.	Uneven ground conditions.	Reduce forward travel speed, change direction of cut.
Scalping of grass.	Height of cut too low for conditions. Uneven ground conditions.	Increase height of cut. Increase height of cut, change direction of cut.
Ribbing of grass perpendicular to direction of travel.	Forward travel speed too fast.	Reduce forward travel speed.
Tram lining of grass in the direction of forward travel.	Bottom blade in ground contact. Poor cylinder to bottom blade adjustment. Worn cylinder bearings.	Increase height of cut. Re-adjust bottom blade. Replace worn parts.
Excessive bottom blade wear.	Bottom blade in heavy ground contact. Blunt cutting edge. Cylinder in heavy contact with bottom blade. Excessively abrasive ground conditions.	Increase height of cut. Grind/recondition. Re-adjust the bottom blade to cylinder clearance. Increase height of cut.
Cylinder knocks while rotating.	High spots on the cutting edges. Worn cylinder bearings.	Grind/recondition cylinder and bottom blade. Replace worn parts.

12.0 Specification

12.1 Base machine specification

Model name	C27
Cutting width	689mm (27")
Engine	Honda GX200
Engine fuel/oil capacity	3.1L Unleaded fuel, 0.6L oil SAE 10W-30
Power output (net)	4.1kW (5.5hp) @ 3,600rpm
Handlebar	Adjustable with anti-vibration mountings
Drive engagement	Handle mounted lever engaging V belt via cable
Cartridge engagement	Handle mounted lever engaging V belt via cable
Rear roller	Rubber covered, 2 piece steel roller with pre greased bevel gear differential
Front roller	Single piece steel roller on sealed bearings
Weight (without cartridge)	135kg
Dimensions (W x L x H)	1168mm x 969mm x 1020mm
Height of cut	8 – 55mm
Grassbox	Rotational moulded plastic
Machine options	Trailing seat

12.2 Base machine specification

Model name	C34
Cutting width	864mm (34")
Engine	Honda GX200
Engine fuel/oil capacity	3.1L Unleaded fuel, 0.6L oil SAE 10W-30
Power output (net)	4.1kW (5.5hp) @ 3,600rpm
Handlebar	Adjustable with anti-vibration mountings
Drive engagement	Handle mounted lever engaging V belt via cable
Cartridge engagement	Handle mounted lever engaging V belt via cable
Rear roller	Rubber covered, 3 piece steel roller with steel bevel gear differential
Front roller	Single piece steel roller on sealed bearings
Weight (without cartridge)	164kg
Dimensions (W x L x H)	1168mm x 1775mm x 1020mm
Height of cut	8 – 55mm
Grassbox	Rotational moulded plastic
Machine options	Trailing seat

12.2 C27 Cartridge specification

Cartridge type	Weight	Working width	Overall width
27" 8 blade cylinder	38kg	686mm	784mm
	125 cuts/metre (114 cuts/yard) irrespective of forward speed		
27" Scarifier	21kg	686mm	784mm
27" Verticutter	26kg	686mm	784mm
27" Brush	20kg	686mm	784mm
27" Sorrel roller	22kg	686mm	784mm
27" Turfrake	14kg	686mm	784mm

12.2 C34 Cartridge specification

Cartridge type	Weight	Working width	Overall width
34" 6 blade cylinder	43kg	863mm	978mm
	94 cuts/metre (86 cuts/yd) irrespective of forward speed		
34" 8 blade cylinder	45kg	863mm	978mm
	125 cuts/metre (114 cuts/yd) irrespective of forward speed		
34" Scarifier	29kg	863mm	978mm
34" Verticutter	30kg	863mm	978mm
34" Brush	25kg	863mm	978mm
34" Sorrel roller	33kg	863mm	978mm
34" Turfrake	18kg	863mm	978mm

13.0 Guarantee

Allett guarantees this product against manufacturing defects. We will repair (or replace at our option) if a manufacturing defect occurs within the guarantee period as long as it has not been subjected to rental/hire use. The engine fitted to this mower is covered by the engine manufacturer. See engine manuals for details.

The guarantee period is 2 years for parts and labour costs from the date of purchase. A 3rd year extended guarantee is available only if the lawnmower has been registered within in 90 days of purchase and is serviced annually by an authorised Allett service agent.

To obtain a repair under this guarantee:

- Take your lawnmower to an Allett approved service agent
- Show your dated proof of purchase
- Show the guarantee page

This guarantee does not apply if:

- The product has been resold by the original purchaser (this does not apply in the Republic of Ireland) or has been used under hire.
- The product has been modified to change the manufacturers specification, or if non-genuine spares have been fitted
- If any previous repair has been undertaken by anyone other than an Allett approved service agent
- The fault is due to maladjustment, abuse, neglect or accidental damage
- The fault is due to lack of lubrication or maintenance
- The failure is due to normal wear

The following parts are considered as wearing parts. Their life is dependent on regular servicing and they are not therefore normally considered by the guarantee:
Blades, drive chains, bearings, belts, rubber on the rear roller and cables.

The cost of routine maintenance of the product is not covered by the guarantee.

It is in your best interest to follow the operating instructions for your lawnmower as a properly cared for product should give many years of excellent service cutting grass.

Always insist on genuine Allett spares or parts. Any damage caused to the product through the fitting of parts not made or approved by Allett is not covered by the guarantee.

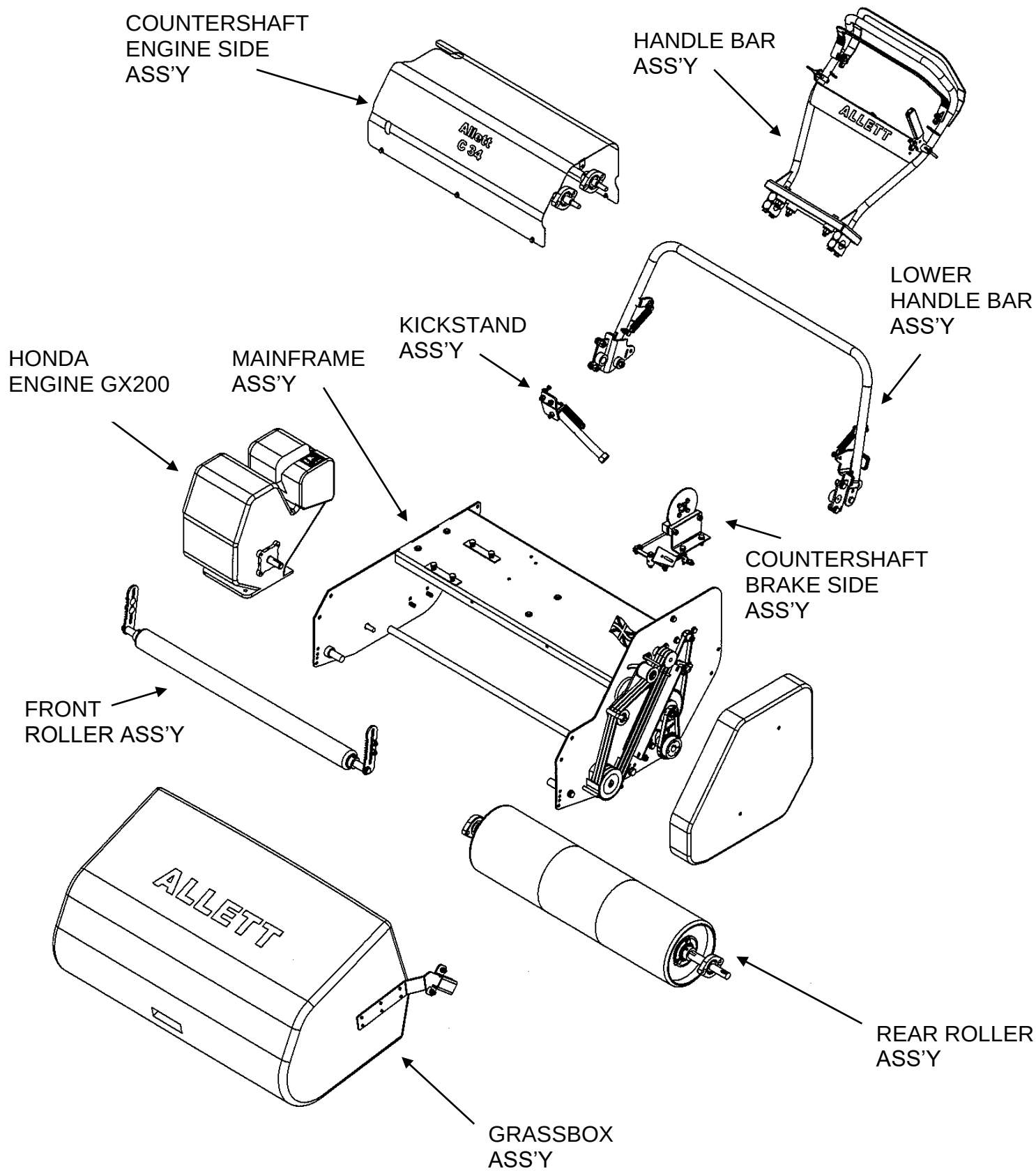
Your statutory rights are not affected by this guarantee.

When the time comes to dispose of this product please consider the environment and take it to a recognised recycling facility.

14.0 Parts section

C27 & C34/5

PARTS SECTION



Front Roller Assembly (FIG 1)

ITEM NUMBER	DESCRIPTION	Part No C27	Part No C34	USED
1	SCRAPER BAR C34	C2007	C1631	1
2	FRONT ROLLER SHAFT	C2008	C1582	1
3	BEARING 20mm 6304 2RS	AM81089	AM81089	2
4	C34 FRONT ROLLER BRACKET FAB	C335	C335	1
5	C34 FRONT ROLLER BRACKET FAB	C336	C336	1
6	LOCKING COLLAR	BG003	BG003	2
7	WASHER M6	WM6A	WM6A	2
8	SPRONG WASHER M6	SWM6	SWM6	2
9	SET SCREW M6x16	SM616	SM616	2
10	WASHER M10	WM10	WM10	4
11	SET SCREW M10x25	SM1025	SM1025	2
12	GRUB SCREW M8 x 8	ACGM8	ACGM8	2
13	BU/C34 FRONT ROLLER FAB	C359	BSG212	1
14	20 DIA BEARING GREASE SEAL	AM81596	AM81596	2
15	C34 ROLLER SEAL COLLAR	BSG1410	BSG1410	2

Front Roller Assembly

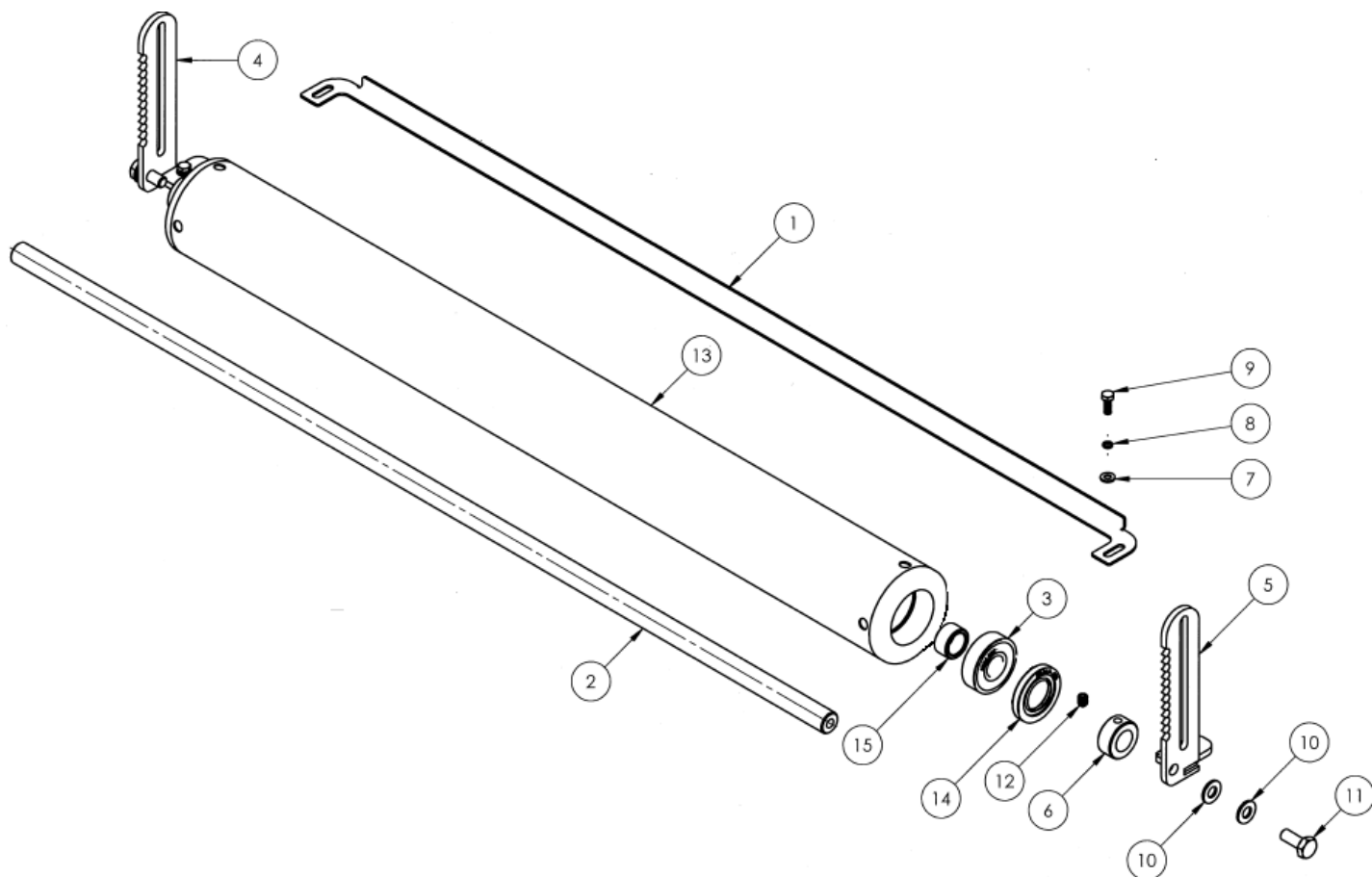


FIG 1

Grooved Front Roller Assembly (FIG 2)

ITEM NUMBER	DESCRIPTION	Part No C27	Part No C34	USED
1	FRONT ROLLER SHAFT	C2008	C1582	1
2	FRONT ROLLER BRACKET FAB RH	C335	C335	1
3	FRONT ROLLER BRACKET LH	C336	C336	1
4	80 DIA GROOVED F/ROLLER SECTION	C1722	C1722	5/7
5	20X28X25 OLITE BUSH	AM81527	AM81527	12/14
6	GROOVED SCRAPER BAR	C1745	C1723	1
7	80 DIA GROOVED F/ROLLER SECTION SHORT	C1746	-	1/0
8	M10 FLAT WASHER	WM10	WM10	2
9	M10 SPRING WASHER	SWM10	SWM10	2
10	M10 X 25 SET SCREW	SM1025	SM1025	2
11	WASHER M6 FORM G ZC	WM6G	WM6G	2
12	SPRING WASHER M6	SWM6G	SWM6G	2
13	SET SCREW M6X16	SM616	SM616	2
14	LOCKING COLLAR	BG003	BG003	2
15	GRUB SCREW M8 X 8	ACGM8	ACGM8	2
16	GREASE NIPPLE M6	GNM6	GNM6	6/7
CPL	CPL GROOVED ROLLER ASSY	C382	C354	1

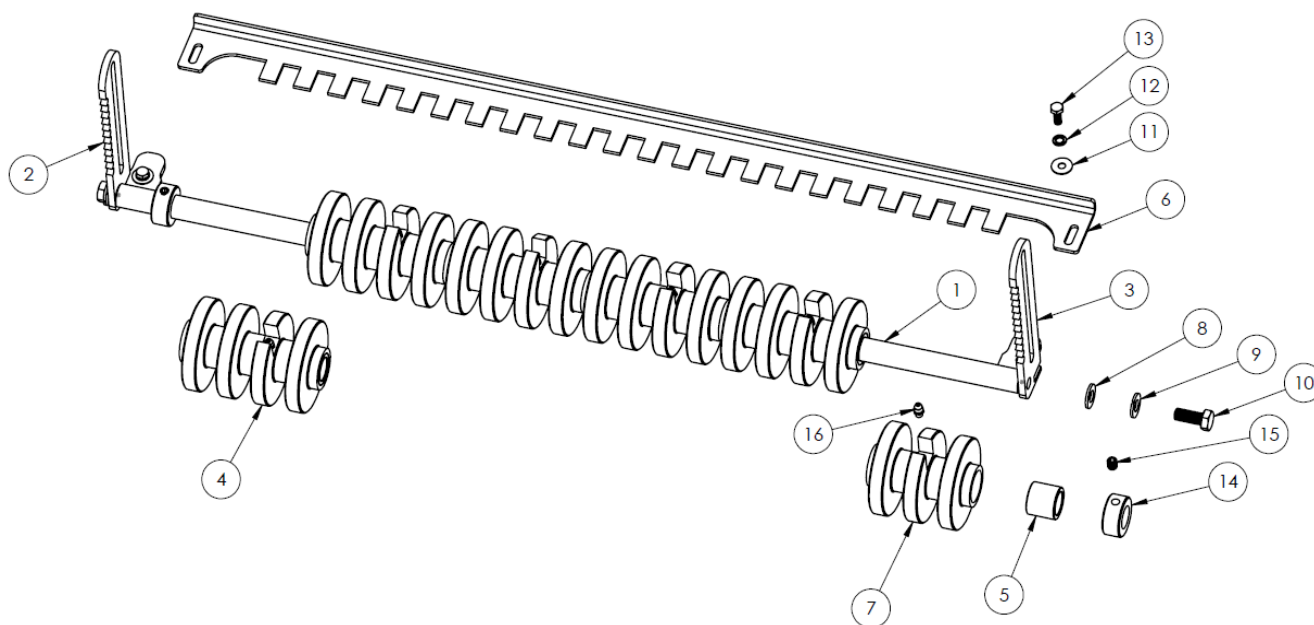


FIG 2

Grass Box Assembly (FIG 3)

ITEM NUMBER	DESCRIPTION	Part No C27	Part No C34	USED
1	GRASSBOX CARRIAGE FAB	C364	C337	1
2	GRASSBOX HANDLE STIFFNER	C1179	C1179	1
3	CUP SQUARE M8x25 GRADE 8.8	CSM825	CSM825	4
4	GRASSBOX BUFFER	C1733	F016W25222	2
5	NYLOC HALF NUT M8	NNHM8	NNHM8	2
6	FLAT WASHER M8 FORM C	WM8C	WM8C	6
7	NYLOC NUT M8	NNM8	NNM8	2
8	GRASSBOX	AM92510	C1556	1
9	FLAT WASHER M6 FORM G	WM6G	WM6G	2
10	SPRING WASHER M6	SWM6	SWM6	2
11	SET SCREW M6x16	SM616	SM616	2
12	SET SCREW M10X25	SM1025		2
13	M10 SPRING WASHER	SWM10		2
14	FLAT WASHER M10 FORM G	WM10G		2
15	POLYETHELYNE TUBE	C2030		2
16	GRASSBOX SWIVEL	C2029		2
17	CUTTING WIDTH DECAL	AM81580	AM81580	2
18	BLACK POP RIVET 4x12			4
19	DECAL – ALLETT LARGE	AM81620	AM81620	1
20	HANDLE	EL1086	EL1086	1
21	FLAT WASHER M4 FORM A	WM4A	WM4A	4

Grass Box Assembly

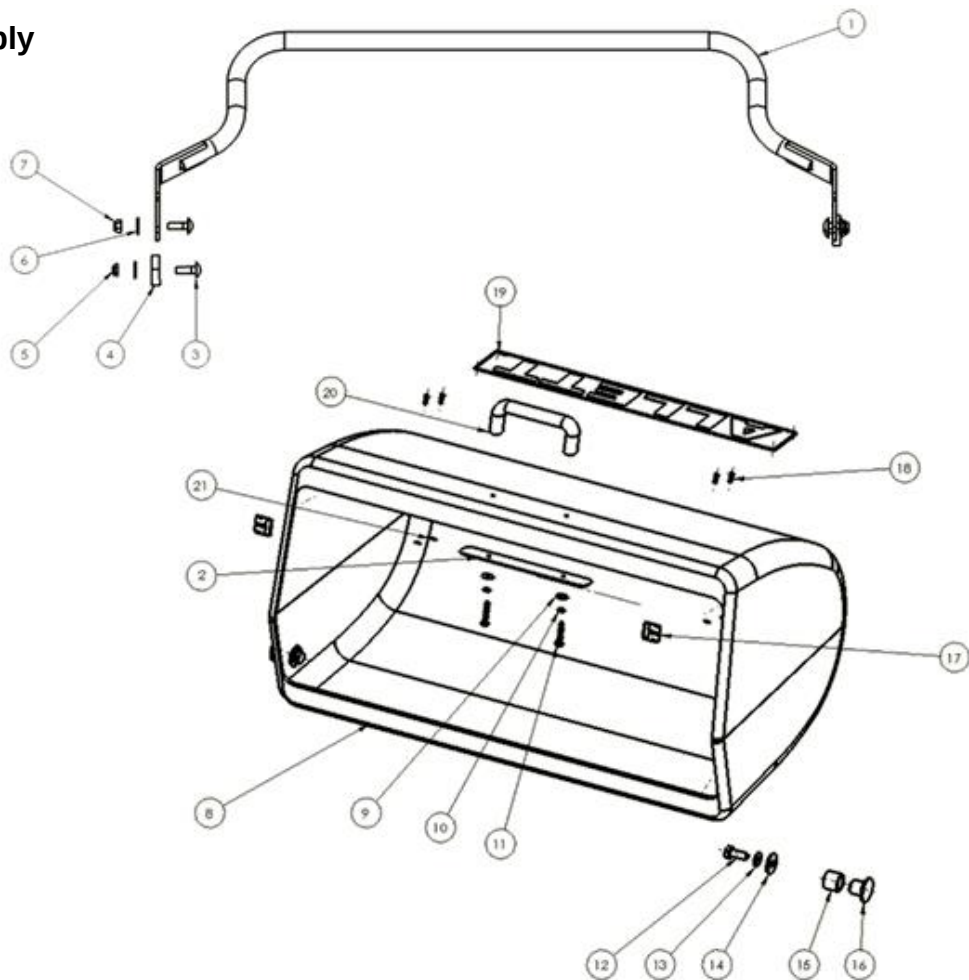
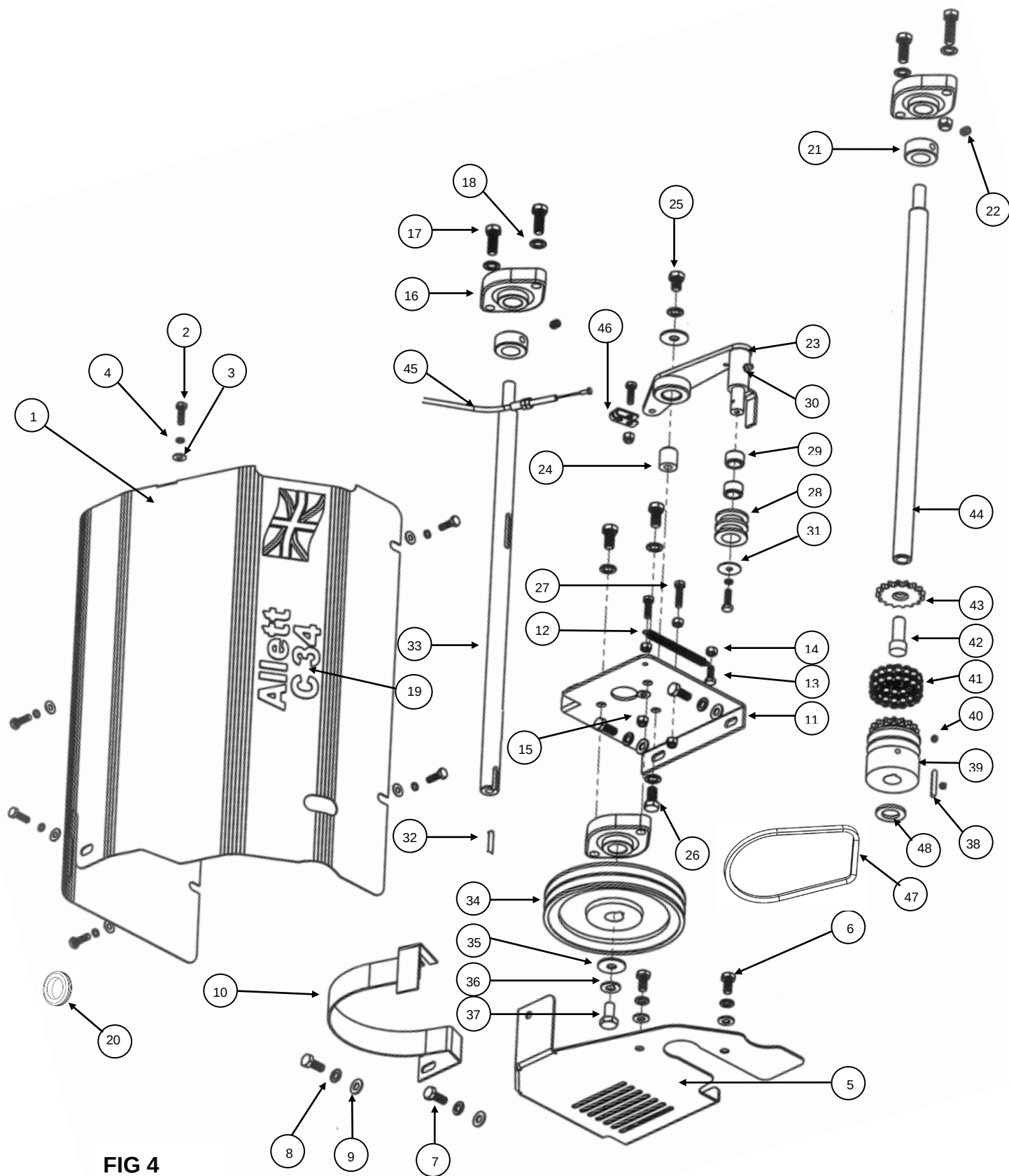


FIG 3

Countershaft Assembly Engine Side (FIG 4)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	TUNNEL GUARD	C2027	C1648	1
2	SET SCREW M6x25	SM625	SM625	1
3	WASHER M6 FORM G	WM6G	WM6G	6
4	SPRING WASHER M6	SWM6	SWM6	6
5	ENGINE PRESSING GUARD	C1632	C1632	1
6	SET SCREW 5/16"x3/4"	S11015	S11015	2
7	SET SCREW M8x20	SM820	SM820	2
8	SPRING WASHER M8	SWM8	SWM8	6
9	FLAT WASHER M8	WM8	WM8	6
10	PRIMARY BELT GUARD ASSEMBLY	S11015	BSG004	1
11	SHAFT RETAINING PLATE	BSG003	BSG003	1
12	SPRING	AM85343	AM85343	1
13	SET SCREW M6x12	SM612	SM612	1
14	PLAIN NUT M6	NM6	NM6	2
15	NYLOC NUT M6	NNM6	NNM6	2
16	BEARING 20MM FLANGED LFTCB11010	AM81008	AM81008	3
17	SET SCREW 3/8" UNFx1"	S11014	S11014	4
18	SPRING WASHER 3/8"	W11011	W11011	7
19	ALLETT DECAL	AM81643	AM81609	1
20	GROMMET	AM81264	AM81264	1
21	LOCKING COLLAR 20-20-EC	AM81000	AM81000	2
22	M6 x 6 GRUBSCREW	ACGM6x6	ACGM6x6	2
23	DRIVE CLUTCH ARM ASSY	BSG064	BSG064	1
24	DRIVE CLUTCH ARM SWIVEL	BSG017	BSG017	1
25	SET SCREW 3/8" UNF x 1/2"	S11073	S11073	1
26	SET SCREW 3/8" UNF x 3/4"	S11011	S11011	1
27	SET SCREW M6 x 25	SM625	SM625	1
28	2 GROOVE DRIVE CLUTCH	BSG098	BSG098	1
29	NEEDLE ROLLER HK1412	AM81002	AM81002	2
30	GREASE NIPPLE M6	GNM6	GNM6	1
31	MUD GUARD WASHER M6			1
32	KEY 1/4 x 26 LG FORM C	AM81055	AM81055	1
33	ROLLER DRIVE SHAFT	C2028	C1662	1
34	2 GROOVE PULLEY	AM81413	AM81413	1
35	FLAT WASHER M10 FORM G	WM10G	WM10G	2
36	SPRING WASHER 3/8"	SWM10	SWM10	1
37	SET SCREW	SM1020	SM1020	1
38	KEY 3/16 x 1.1/4 FORM C	AM83273	AM83273	1
39	2 GROOVE FLYWHEEL PULLEY SMALL	AM81412	AM81412	1
40	M6 x 12 GRUBSCREW	ACGM612	ACGM612	1
41	CHAIN 3/8 DUPLEX 16 LINKS	AM89475	AM89475	1
42	SCREW CAP HD 1/2" UNF x 3/4"	S11082	S11082	1
43	PLATEWHEEL 16T 3/8 MODIFIED	BSG1052	BSG1052	1
44	CYLINDER DRIVE SHAFT	C1063	C1661	1
45	ROLLER DRIVE CABLE	C1677	C1677	1
46	YOKE ANCHOR POINT	BSG1024	BSG1024	1
47	BELT ENGINE DRIVE BUFFALO	AM89482	AM89482	2
48	DISTANCE PIECE	SG1001	SG1001	1

Countershaft Assembly Engine Side



Countershaft Assembly Brake Side (FIG 4.1)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	R/ROLLER DRIVEN SPROCKET & T/LOCK	C1599	C1599	1
2	KEY TYPE AB	AM81463	AM81463	1
3	BRAKE BUSH FAB	C073	C073	1
4	SET SCREW M8X20	SM820	SM820	2
5	SPRING WASHER M8	SWM8	SWM8	2
6	FLAT WASHER M8 FORM C	WM8C	WM8C	2
7	BRAKE CABLE	BSG1077	BSG1077	1
8	SPRING	AM90519	AM90519	1
9	SET SCREW M6 x 20	SM620	SM620	1
10	YOKE ANCHOR POINT	BSG1024	BSG1024	1
11	NYLOC NUT M6	NNM6	NNM6	1
12	BRAKE BAR FAB	C074	C074	1

Counter Assembly Brake Side

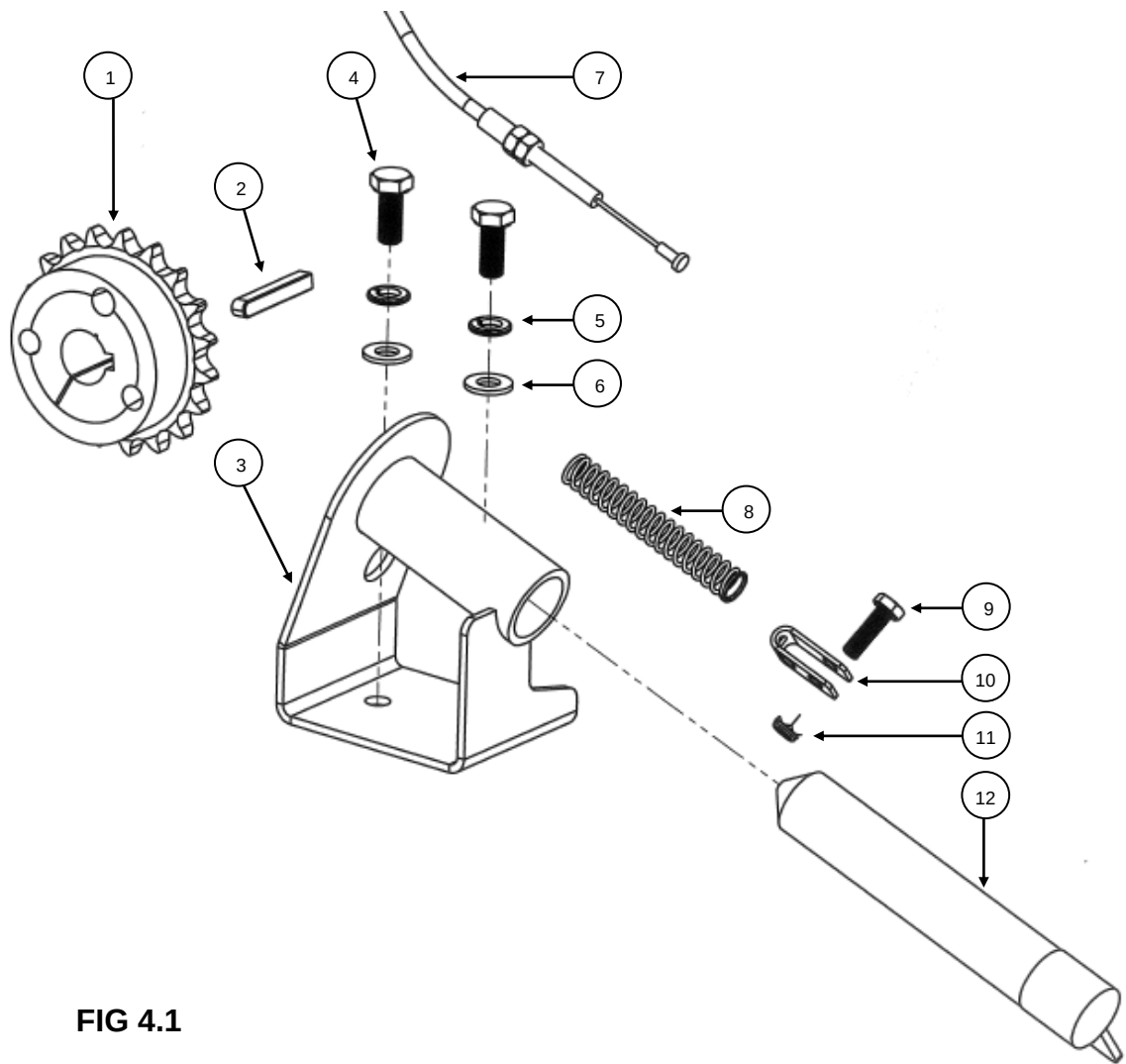


FIG 4.1

Kickstand Assembly (FIG 5)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	KICKSTAND	C1743	C1743	1
2	1/2" BELLEVILLE WASHER	AM81649	AM81649	2
3	SET SCREW M8 x 30	SM830	SM830	1
4	M8 PLAIN WASHER	WM8	WM8	3
5	NUT M8 NYLOC	NNM8	NNM8	4
6	M8 x 25 SOCKET CAP HD	F016J11400	F016J11400	1
7	SET SCREW M8 x 25	SM825	SM825	2
8	KICKSTAND SPACER	C1747	C1747	1
9	KICKSTAND BRACKET	C1741	C1741	1
	COMPLETE ASSEMBLY	C381		

Kickstand Assembly

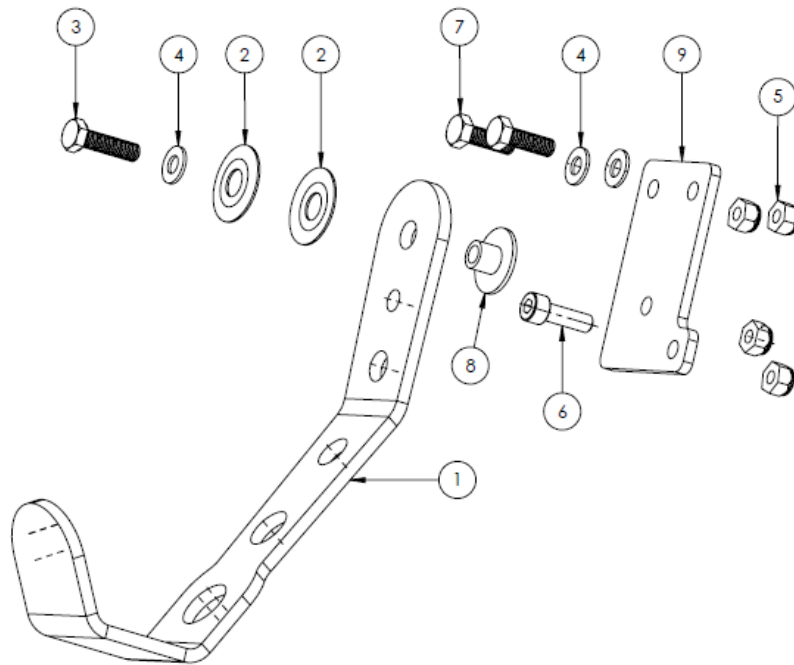


FIG 5

Handle Bar Assembly (FIG 6)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	TOP HANDLE ASSEMBLY	C340	C340	1
2	WIDER LOWER AV PLATE	C070	C070	1
3	CUTTER CLUTCH LEVER	C338	C338	1
4	ROLLER DRIVE LEVER FAB	C339	C339	1
5	THROTTLE LEVER RH	AM82177	AM82177	1
6	THROTTLE CABLE	AM81576	AM81576	1
7	ROLLER DRIVE CLUTCH	C1677	C1677	1
8	BRAKE LEVER FAB	BSG045	BSG045	1
9	CLUTCH CABLE	C1677	C1677	1
10	YOKE ANCHOR POINT	BSG1024	BSG1024	3
11	SCREWLOCK BODY FAB	BSG046	BSG046	1
12	SWITCH ON-OFF ROCKER	AM85043	AM85043	1
13	5/16 UNF x 2 1/4" BOLT	B11001	B11001	4
14	UNIVERSAL MOUNT	AM81320	AM81320	4
15	SPACER FOR AV MOUNTING	BSG1207	BSG1207	4
16	HANDLE BAR CLAMP	BSG1020	BSG1020	2
17	LEVER MOUNT SPIGOT	BSG1081	BSG1081	2
18	ON OFF SWITCH DECAL	AM81555	AM81555	1
19	ALLETT SMALL DECAL	AM81622	AM81622	1
20	SET SCREW M6 x 20	SM620	SM620	2
21	SET SCREW M6 x 20	SM620	SM620	6
22	SPRING WASHER M6	SWM6	SWM6	2
23	NYLOC NUT M6	NNM6	NNM6	6
24	3/8" x 2" UNF BOLT	S11031	S11031	4
25	FLAT WASHER M10 FORM A	WM10A	WM10A	4
26	FLAT WASHER M10 FORM G	WM10G	WM10G	4
27	3/8 UNF NYLOC			4
28	ANTI-VIBRATION WASHER	AM81640	AM81640	4

Handle Bar Assembly

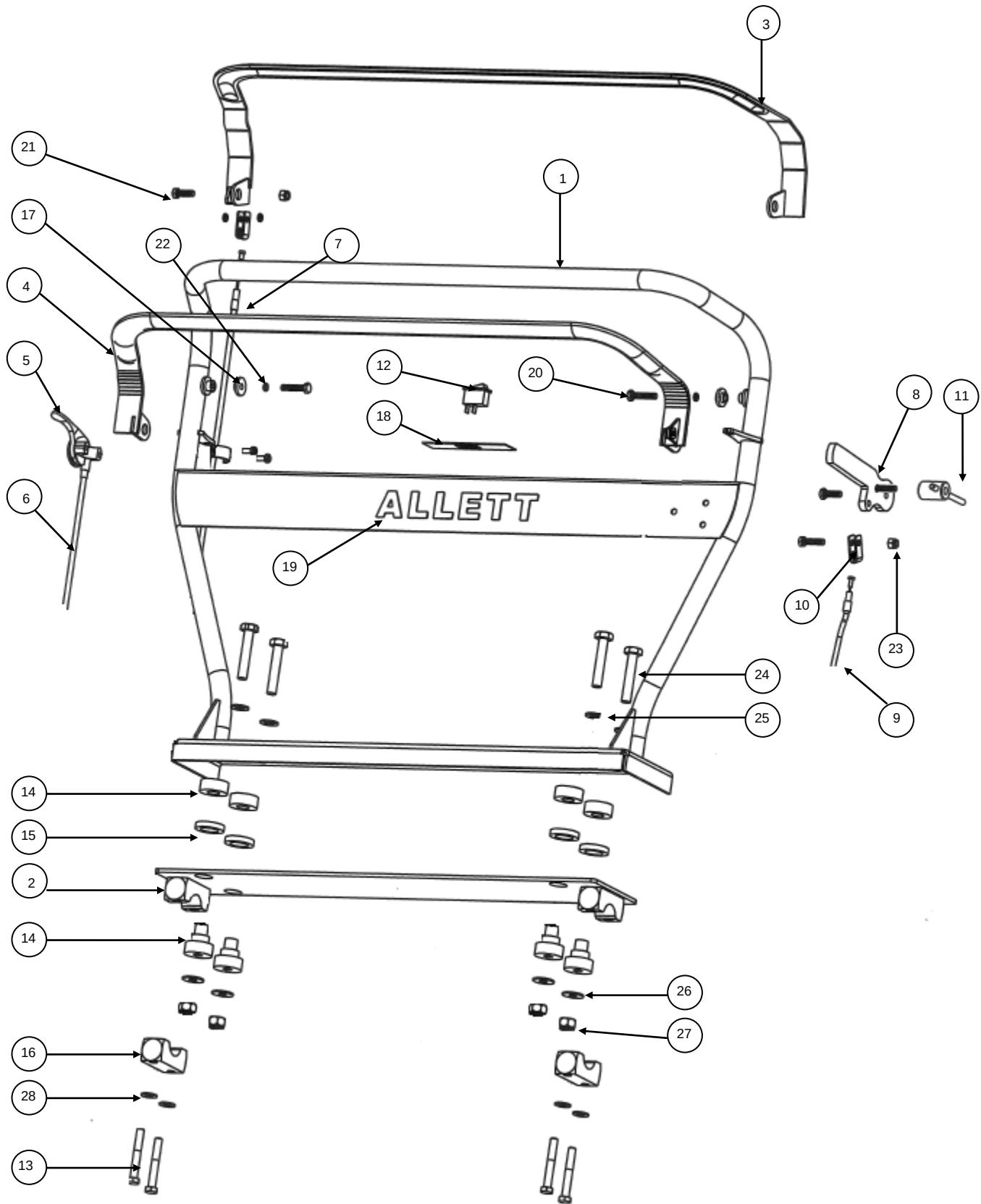


FIG 6

Over Centre Lever Assembly (FIG 7)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	OVER CENTRE LEVER HARNESS	C1730	C1730	1
2	OVER CENTRE CUTTER CLUTCH CABLE	C1731 / C2032 *	C1731 / C2032 *	1
3	BRAKE LEVER BACK PLATE	C1725	C725	1
4	BRACKET	C1734	C1734	1
5	RETURN SPRING BAR	C1727	C1727	2
6	SPRING MOUNTING BRACKET	C1729	C1729	1
7	COMPRESSION SPRING	FO16L08487	FO16L08487	1
8	OVER CENTRE LEVER CONTROLS COVER	C1736	C1736	1
9	STOP PLATE	C1728	C1728	1
10	M2 NUT	F016J10668	F016J10668	4
11	SET SCREW M2 X 12	SM212	SM212	2
12	CLUTCH SPRING	F016J11461	F016J11461	1
13	M6 X 12 CAP HEAD	SCM612	SCM612	1
14	SET SCREW M6 X 20	SM620	SM620	7
15	NUT M6 NYLOC	NNM6	NNM6	5
16	10mm P-CLIP	FO16J11509	FO16J11509	1
17	HALF NUT M6 NYLOC	NHM6	NHM6	3
18	WASHER M6	WM6	WM6	4
19	M6 PLAIN NUT	NM6	NM6	4
20	OVER CENTRE LEVER TRIM	C1740	C1740	1
21	CLUTCH LEVER BACK PLATE	C355	C355	1
22	SWITCH COVER	C1735	C1735	1
23	FLAT CAP	AM81140	AM81140	1
24	HANDLE BAR CLAMP	BSG1020	BSG1020	2
25	BOLT M8 X 50	BM850	BM850	4
26	M8 PLAIN WASHER	WM8	WM8	4
27	NUT M8 NYLOC	NNM8	NNM8	4
28	CYLINDER ENGAGEMENT LEVER	C365	C365	1
29	M8 (10mm) X 16 SOCKET SHOULDER SCREW	AM81632	AM81632	1

*C2032 Fits C34/5 with Serial No 1900391 onwards and C27/1 with Serial No 1900032 onwards

Over Centre Lever Assembly

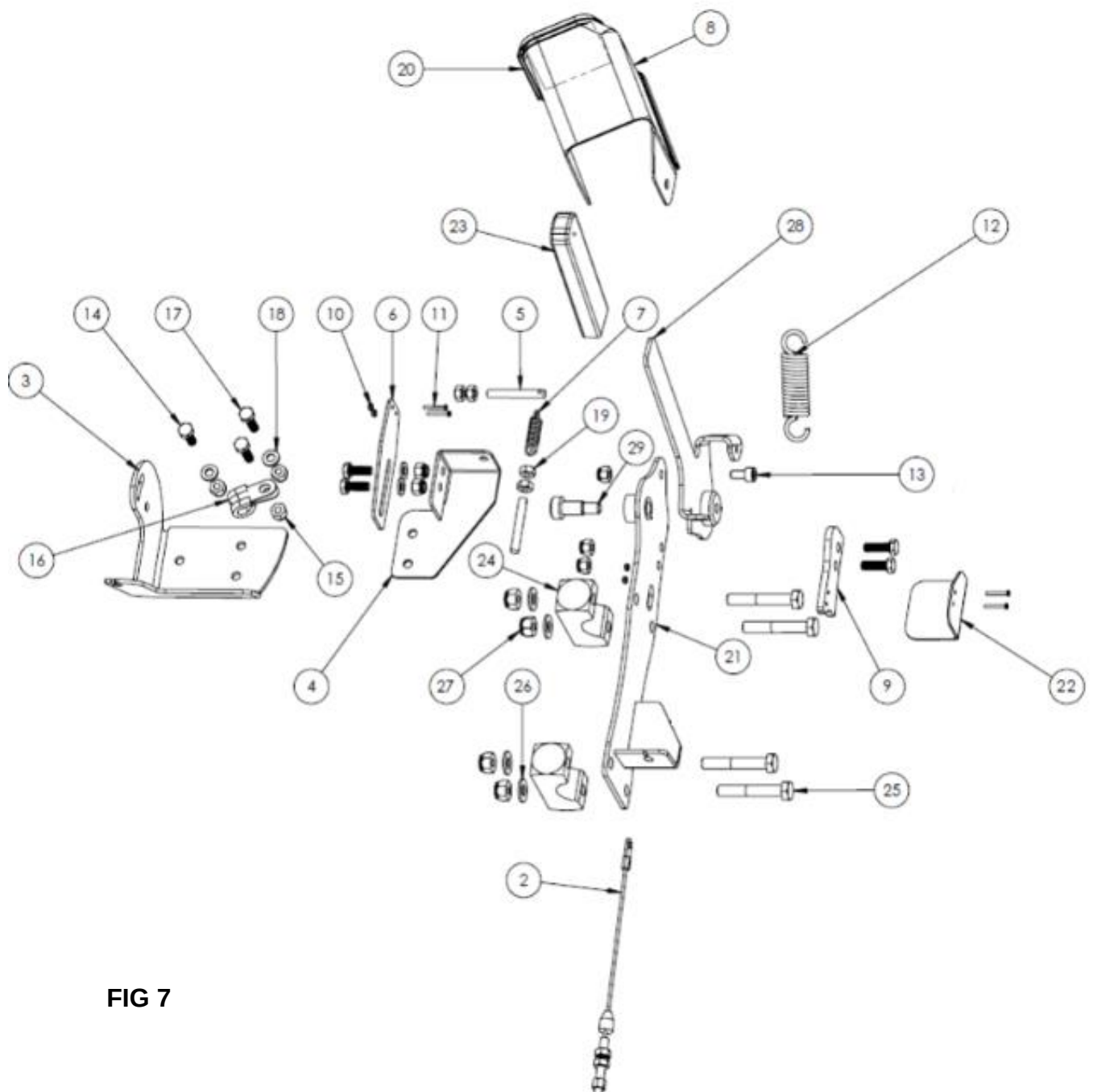
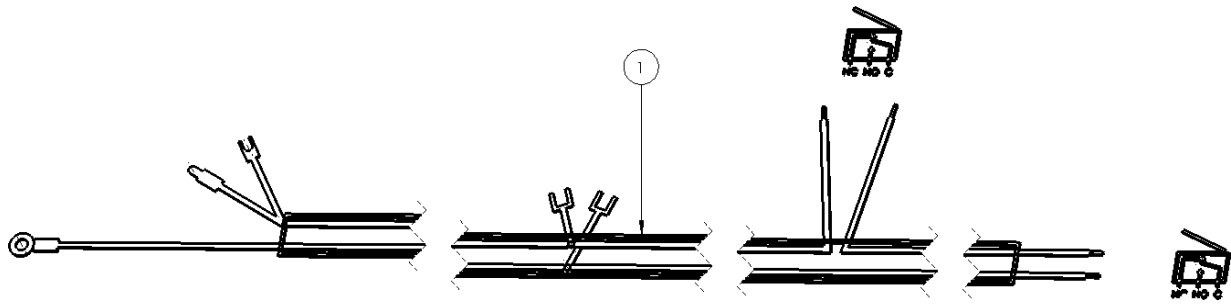


FIG 7

Lower Handle Bar Assembly (FIG 8)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	A/V BOTTOM HANDLE FAB	C361	C312	1
2	RH PIVOT BRACKET	BSG111	BSG111	1
3	LH PIVOT BRACKET	BSG110	BSG110	1
4	FLAT WASHER M10	WM10A	WM10A	4
5	SET SCREW M10 x 30	SM1030	SM1030	4
6	NYLOC NUT M10	NNM10	NNM10	8
7	SPACER HYDRI BOSS	AFK1132	AFK1132	2
8	UNIVERSAL MOUNT	AM81320	AM81320	2
9	WASHER 32x12.2x3mm	Ac4246	Ac4246	2
10	SET SCREW M10 x 60	SM1060	SM1060	2
11	FLAT WASHER M10	WM10G	WM10G	2
12	LOWER BUFFER	BSG1236	BSG1236	2
13	TOP BUFFER	BSG1235	BSG1235	2
14	SPRING	RT-00003098	RT-00003098	2
15	SET SCREW M10 x 20	SM1020	SM1020	2
16	PLAIN NUT M10	NM10	NM10	2
17	SPRING ANCHOR FAB	BSG109	BSG109	2
18	SET SCREW M8 x 16	SM816	SM816	2
19	PLAIN NUT M8	NM8	NM8	2

Lower Handle Bar Assembly

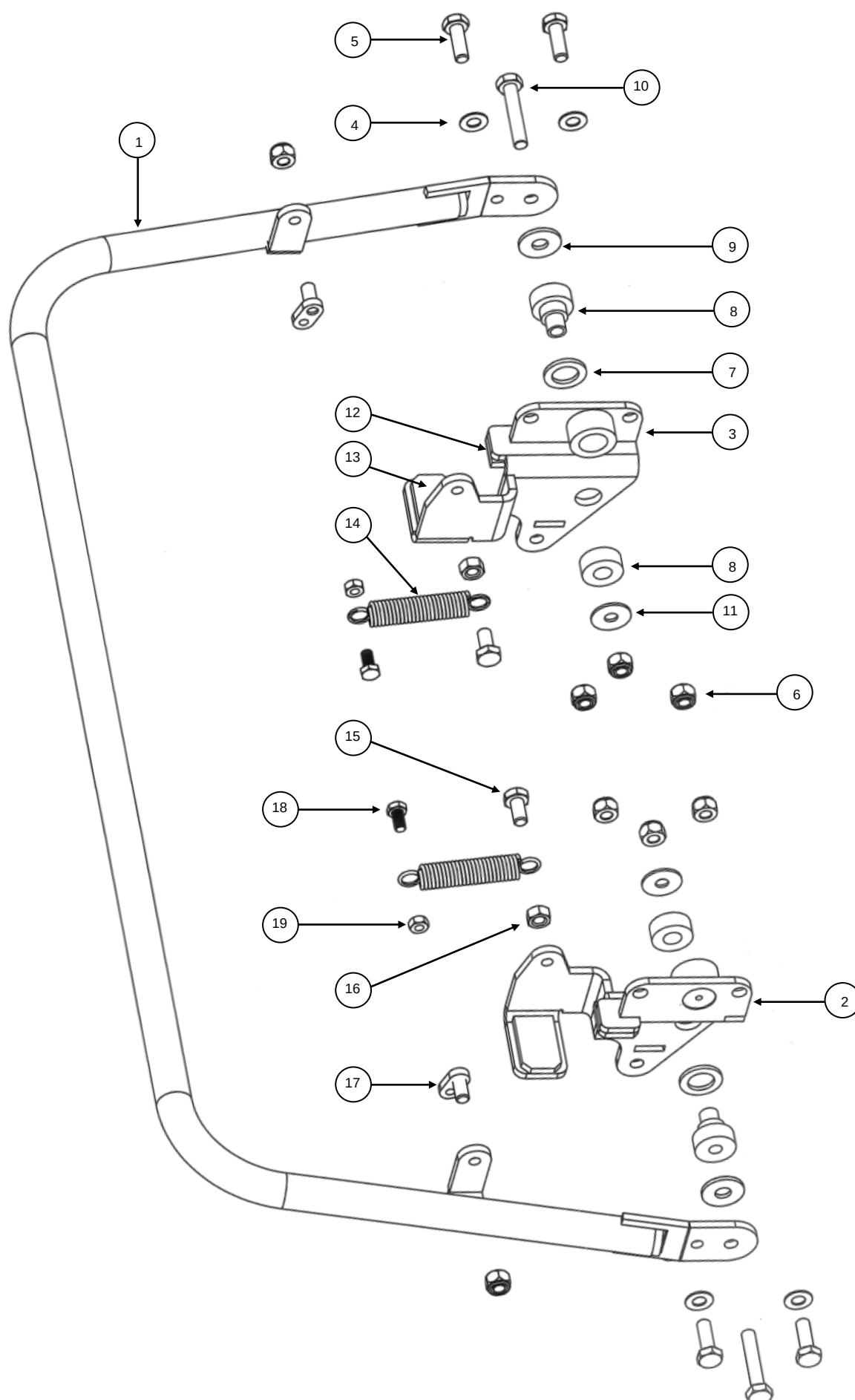


FIG 8

C27 Rear Roller Assembly (FIG 9)

ITEM NUMBER	DESCRIPTION	PART NO C27	USED
1	REAR ROLLER SHAFT C27	C2005	1
2	SET SCREW M8 x 25	SM825	6
3	REAR ROLLER TAB WASHER	BSG1320	2
4	BEARING – 25mm	AM81049	2
5	BLACK POP RIVET 4.8 x 20	RIVET 4.8	16
6	PVC TUBE – REAR ROLLER DIFF SHROUD	BSG1083	1
7	SPACER	BSG1046	2
8	DIFFERENTIAL CARRIER	BSG024	1
9	KEY 1/4" X 1.1/4" FORM A	AM92888	1
10	M8 PLAIN WASHER	WM8	6
11	SPRING WASHER M8	SWM8	8
12	GRUB SCREW M8 x 8	ACGM8	2
13	REAR ROLLER SEALING BAND	BSG1045	1
14	BRONZE BUSH	AM81143	2
15	OILITE BUSH	BSG1102	2
16	M8 FLAT WASHER FORM C	WM8C	2
17	PINION GEAR STEEL	BSG1101	2
18	BEVEL GEAR STEEL	BSG1100	2
19	SCREW GRUB 5/16 UNF x 3/8	S11053	1
20	REAR ROLLER 27"	BG024	2
21	SET SCREW 5-16 UNF x 3/4"	S11015	2
	COMPLETE REAR ROLLER ASSY	C357	

C27 REAR ROLLER ASSEMBLY

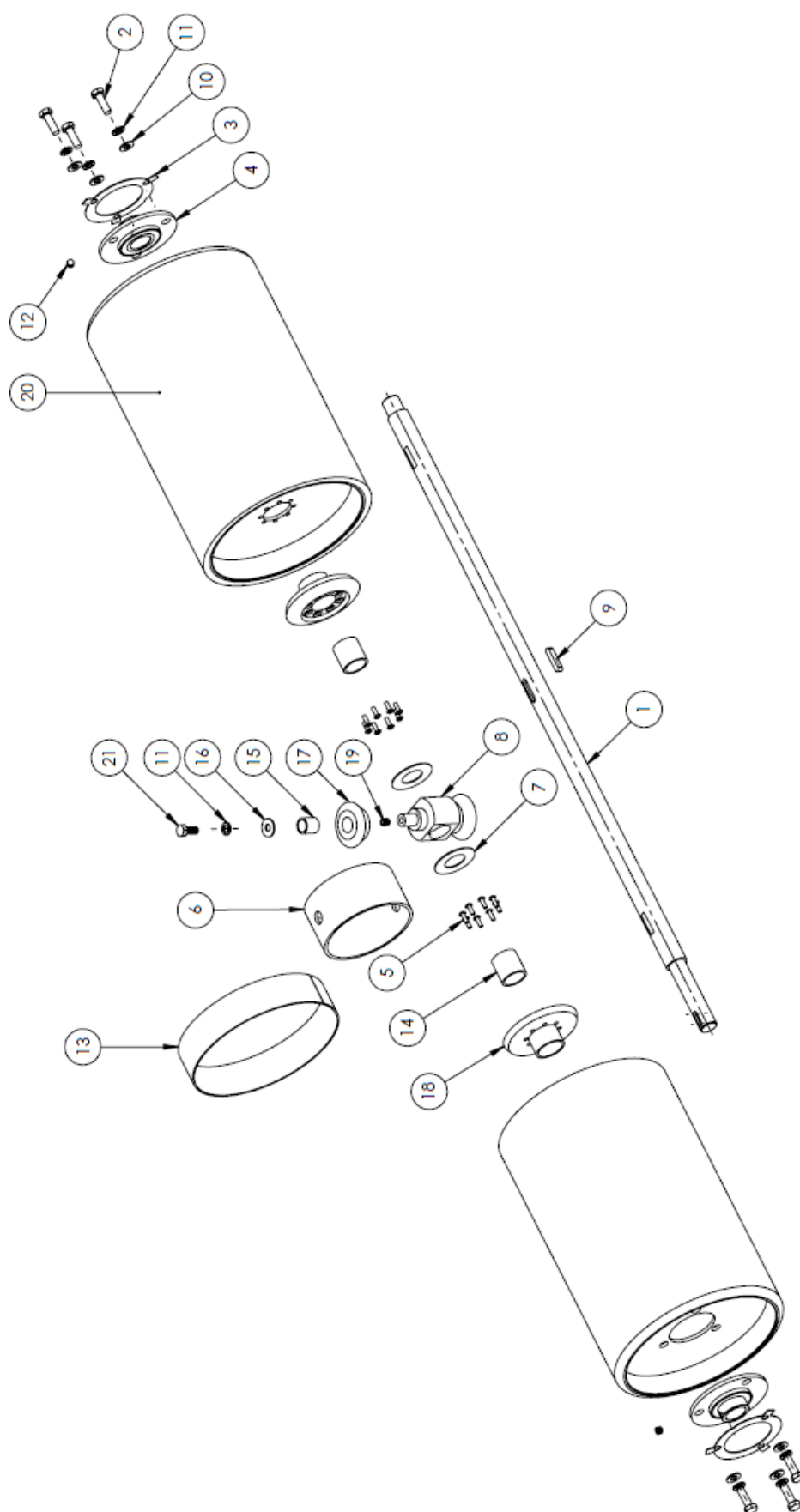


FIG 9

C34 Rear Roller Assembly (FIG 9.1)

ITEM NUMBER	DESCRIPTION	PART NO C34	USED
1	REAR ROLLER CENTRE FAB	AB053	1
2	Key 1/4" x 1.1/4" Form A	AM92888	2
3	REAR ROLLER SHAFT	C1581	1
4	BRONZE BUSH 3/4 x 7/8 x 3/4 LG	AM82654	4
5	DIFF. SHAFT FAB. -DUAL GEAR	AB056	1
6	DIFF. SHAFT FAB - SINGLE GEAR	AB055	1
7	SPACER DIFF.	AB1051	4
8	CIRCLIP, EXTERNAL S019M	AM81126	1
9	BAR- REAR ROLLER LOCKING COLLAR	BSG016	2
10	BEARING 20MM FLANGED LFTCB11010	AM81008	2
11	DIFF PINION - 12 TOOTH HUB	AB1053	1
12	PARALLEL KEY 5X5X25 FORM C	AM81125	1
13	SEALING BAND	AB1066	2
14	OIL SEAL HOUSING	AB1065	2
15	OIL SEAL 105 ID, 130 OD, 12W	AM81124	2
16	BEARING 25mm	AM85314	2
17	RING GEAR (28T)	AB1056	2
18	SET SCREW M6 X 45 ZC	SM645	8
19	SPRING WASHER M6	SWM6	8
20	MUDGAURD WASHER	WM6G	1
21	M6X20 SET SCREW	SM620	1
22	GRUB SCREW M8 x 8	ACGM8	5
23	SPRING WASHER	SWM8	15
24	SET SCREW 3-8 UNF x 1	S11014	3
25	3/8 WASHER	W11011	4
26	3/8 UNF x 1- 1/2"	S11011	1
27	BU/C34 ROLLER SEAL PLATE	AB1107	8
28	BOLT M8 x 80	BM880	8
29	BEARING - 25mm	AM81049	2
30	REAR ROLLER TAB WASHER	BSG1320	2
31	SET SCREW M8 x 25	SM825	6
32	C34 REAR ROLLER OUTER SECTION	C068	2
33	COMPLETE REAR ROLLER ASSY	C075	1

C34 REAR ROLLER ASSEMBLY

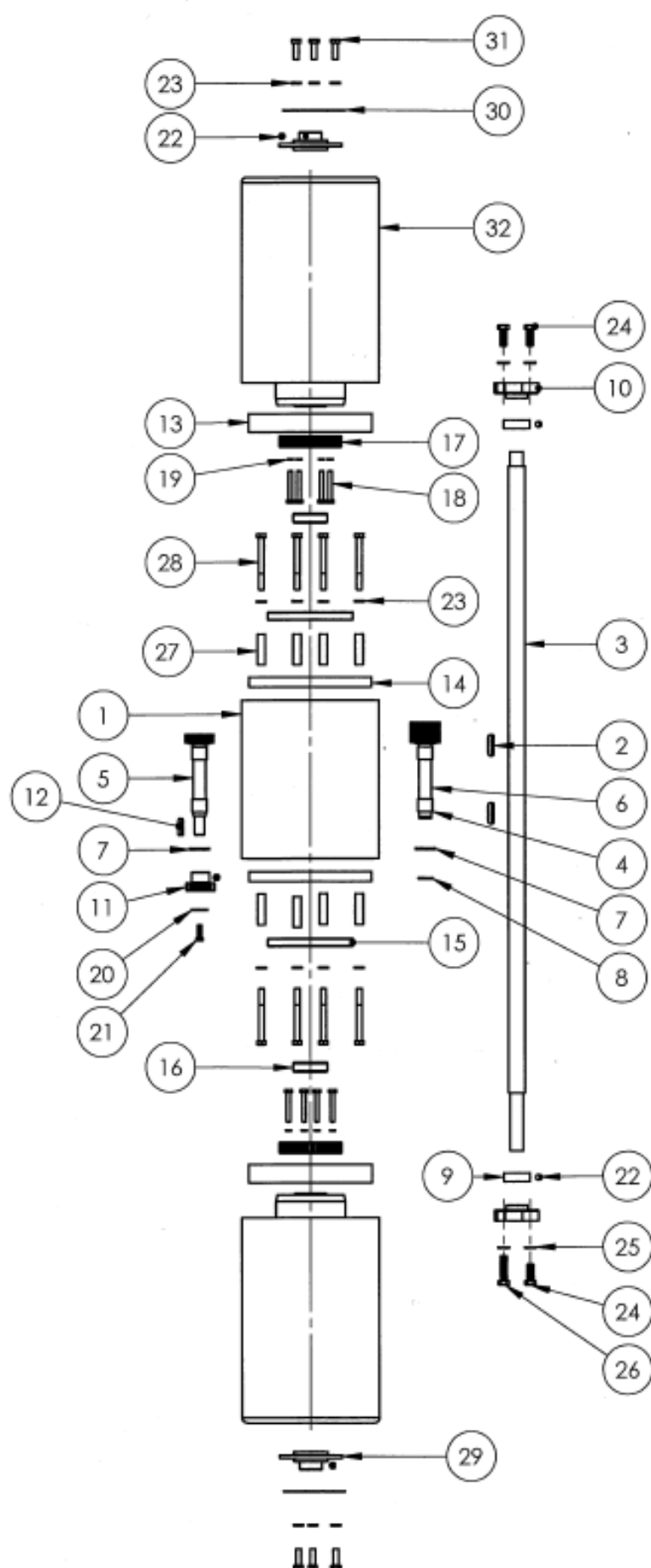


FIG 9.1

Main Frame Assembly (FIG 10)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	DRIVE GAURD	C1580	C1580	1
2	NYLOC NUT M8	NNM8	NNM8	2
3	FLAT WASHER M8 FORM A	WM8A	WM8A	2
4	CYLINDER PULLEY	C1594	C1594	1
5	BEARING HOUSING	C1045	C1045	1
6	DRIVE SPINDLE	C1528	C1528	1
7	BEARING ANGULAR	AM81436	AM81436	1
8	KEY 6x6x20 FORM A	AM81500	AM81500	1
9	SPRING WASHER 3/8"	W11011	W11011	2
10	SET SCREW 3/8" UNF x 1"	S11014	S11014	2
11	BOTTOM BELT GUIDE FAB	C319	C319	1
12	SPRING WASHER M6	SWM6	SWM6	2
13	BOLT M6 x 70	BM670	BM670	2
14	REAR ROLLER SORICKET	C1599	C1599	1
15	DISTANCE PIECE	C1748	C1748	1
16	KEY 6x6x20 FORM A	AM81500	AM81500	1
17	WASHER M8 FORM G	WM8G	WM8G	1
18	SPRING WASHER M8	SWM8	SWM8	1
19	SET SCREW M8 x 20	SM820	SM820	1
20	CHAIN 1/2" 29 PITCH	AM89436	AM89436	1
21	CHAIN 3/8" 80 PITCH	C1601	C1601	1
22	SPACER FLYWHEEL	AFK1201	AFK1201	1
23	SMALL COMPOUND	BSG025	BSG025	1
24	9mm BEARING	AM90513	AM90513	1
25	BEARING 20mm 6004 2RS	AM81007	AM81007	1
26	COMPOUND CENTRE	BSG1288	BSG1288	1
27	NYLOC NUT M10	NNM10	NNM10	1
28	NYLOC NUT M8	NNM8	NNM8	1
29	FLAT WASHER M8 FORM A	WM8A	WM8A	1
30	TOP SPROCKET	BSG022	BSG022	1
31	CHAIN TENSIONER ASSY	BSG178	BSG178	1
32	NYLOC NUT M10	NNM10	NNM10	1
33	PLAIN WASHER M10 FORM A	WM10A	WM10A	1
34	SET SCREW M10x45	SM1045	SM1045	1
35	PULLEY TRIPLE	AM94027	AM94027	1
36	TOP BELT GUIDE FAB	C318	C318	2
37	SET SCREW 3/8" UNF x 3/4"	S11011	S11011	2
38	NYLOC NUT 3/8" UNF	N11002	N11002	1
39	CABLE ANCHOR FAB	BSG012	BSG012	1
40	FLAT WASHER M6 FORM A	WM6A	WM6A	1
41	NYLOC NUT M6	NNM6	NNM6	1
42	CABLE RETAINING PLATE	AB008	AB008	1
43	SET SCREW M6 x 45	SM645	SM645	1
44	FLAT WASHER M6 FORM A	WM6	WM6	1
45	PLAIN NUT M6	NM6	NM6	1
46	CUTTER CLUTCH ASM'Y	BG005	BG005	1
47	CUTTER CLUTCH PIVOT	BSG1041	BSG1041	1
48	SET SCREW M10 x 40	SM1040	SM1040	1
49	NYLOC NUT M10	NNM10	NNM10	1
50	FLAT WASHER M10 FORM A	WM10A	WM10A	1
51	FLAT WASHER M10 FORM C	WM10C	WM10C	1
52	DRIVE PLATE FAB	C1815	C1815	1
53	GASKET DRIVE SHEET	C1820	C1820	1
54	CUTTER BELT C34	AM81499	AM81499	3

MAIN FRAME ASSEMBLY (FIG 10)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
55	SPRING	AM90519	AM90519	1
56	CHASSIS FAB	C356	C331	1
57	SUPPORT PIN	C1529	C1529	1
58	LOCATING STOP BOSS	C1154	C1154	1
59	SET SCREW M8 x 20	SM820	SM820	1
60	SPRING WASHER M8	SWM8	SWM8	1
61	M8 FLAT WASHER FORM A	WM8	WM8	1
62	STOP SPACER	C1651	C1651	1
63	SUPPORT TIE BAR	C2004	C1584	1
64	SET SCREW M12 x 25	SM1225	SM1225	2
65	SPRING WASHER M12	SWM12	SWM12	2
66	SUPPORT PIN-NON DRIVE	C1585	C1585	1
67	SET SCREW M0 x 25	SM1025	SM1025	2
68	SPRING WASHER M10	SWM10	SWM10	2
69	FLAT WASHER M10 FORM A	WM10A	WM10A	2
70	LOCATING BOSS WA	C238	C238	1
71	SET SCREW M6 x 20	SM620	SM620	2
72	M6 FLAT WASHER FORM A	WM6A	WM6A	2
73	NYLOC NUT M6	NNM6	NNM6	2
74	HANDLE WHEEL ASSM'Y	C217	C217	1
75	ENGINE SPACER 3mm	AB1091	AB1091	2
76	HONDA GX200	GX200	GX200	1
77	dB DECAL	AM81433	AM81434	1
78	SET SCREW M8 x 40	SM840	SM840	4
79	SPRING WASHER M8	SWM8	SWM8	4
80	FLAT WASHER M8 FORM A	WM8A	WM8A	4
81	DECK STIFFNER	C2003	C1579	1
82	BOLT M10 x 60	BM1060	BM1060	4
83	FLAT WASHER M10 FORM A	WM10A	WM10A	4
84	NYLOC NUT M10	NNM10	NNM10	4
85	SERIAL PLATE	T000333	T000333	1
86	CIRCLIP 20mm	F016A57758	F016A57758	1
87	FULL NUT ½" UNF	N11008	N11008	1
CPL	COMPOUND SPROCKET ASSY	BSG173	BSG173	1

MODEL C34:- Main Frame Assembly

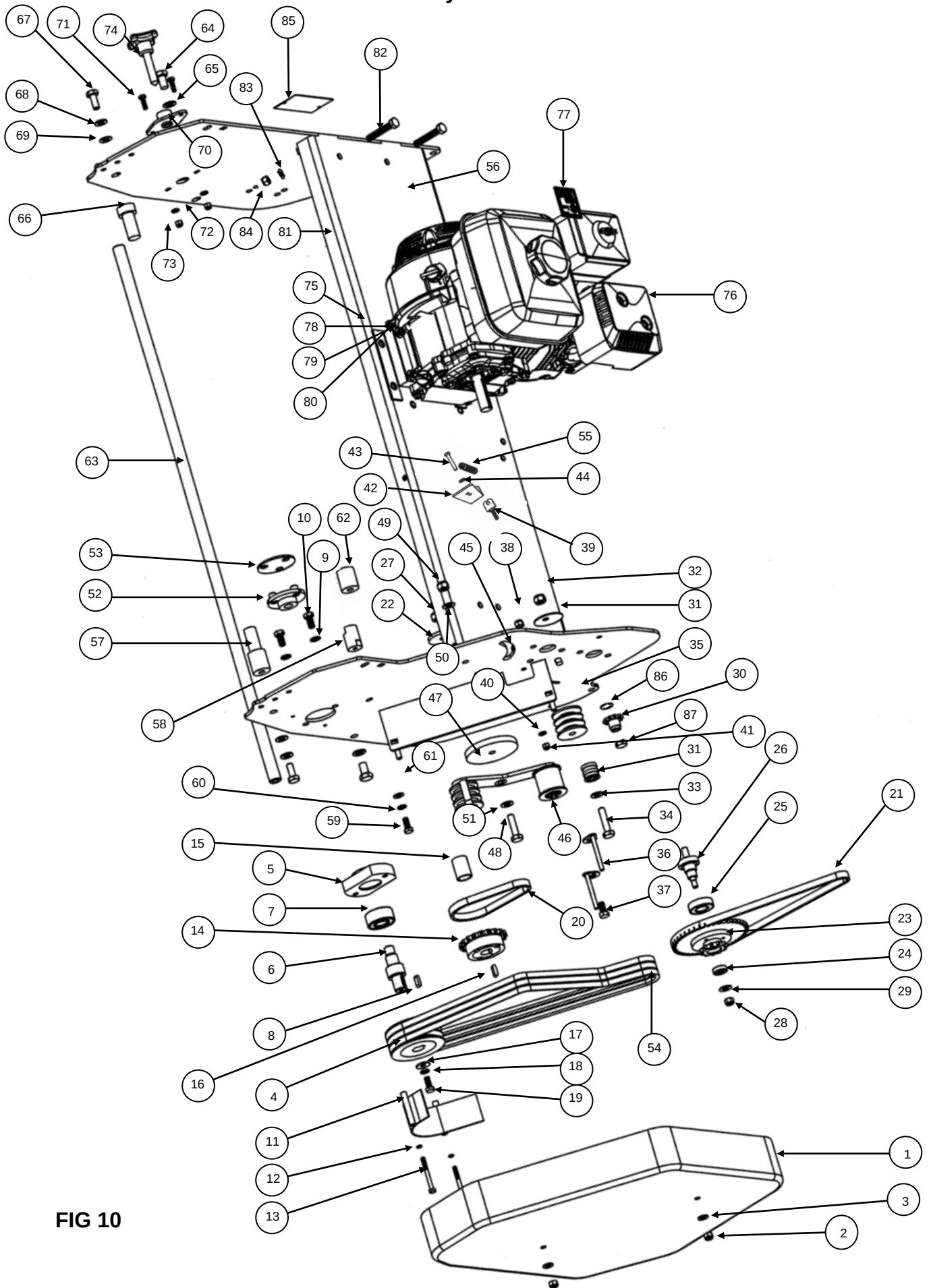


FIG 10

BRUSH CARTRIDGE (FIG 11)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	BRUSH	C375	C061	1
2	CARTRIDGE SUPPORT TIE BAR	C2015	C1532	2
3	BEARING 20MM FLANGED LFT	AM81008	AM81008	2
4	DRIVE SIDE PLATE	C328	C328	1
5	NON-DRIVE SIDE PLATE	C329	C329	1
6	WASHER M6 FORM A	WM6A	WM6A	8/9
7	SCREW M6 X 16 ROOFING BOLT	S11060	S11060	6/7
8	NUT M6 NYLOC	NNM6	NNM6	8/9
9	M12 BOLT/SET SCREW	SM1230	SM1230	8
10	SPRING WASHER M12 Z/C	SWM12	SWM12	4
11	WASHER M12	WM12	WM12	8
12	CARTRIDGE HANDLE BAR	C372	C324	1
13	SPRING WASHER 3/8"	W11011	W11011	4
14	SET SCREW 3/8 UNF x 1" ZC	S11014	S11014	4
15	NUT M12 NYLOC	NNM12	NNM12	4
16	M6X20 COUNTER SUNK SET	M6x20 CSK	M6x20 CSK	1
17	DRIVEN PLATE	C1815	C1815	1
18	CE PLATE	T000333	T000333	1
19	POP RIVET 4.8 X 20	RIVET 4.8 X 20	RIVET 4.8 X 20	2
20	M6 X 20 SET SCREW	SM620	SM620	1
21	ACCESSORY DEFLECTOR	C2024	C1613	1
22	CYLINDER BLADE CAUTION	AM81541	AM81541	1

BRUSH CARTRIDGE

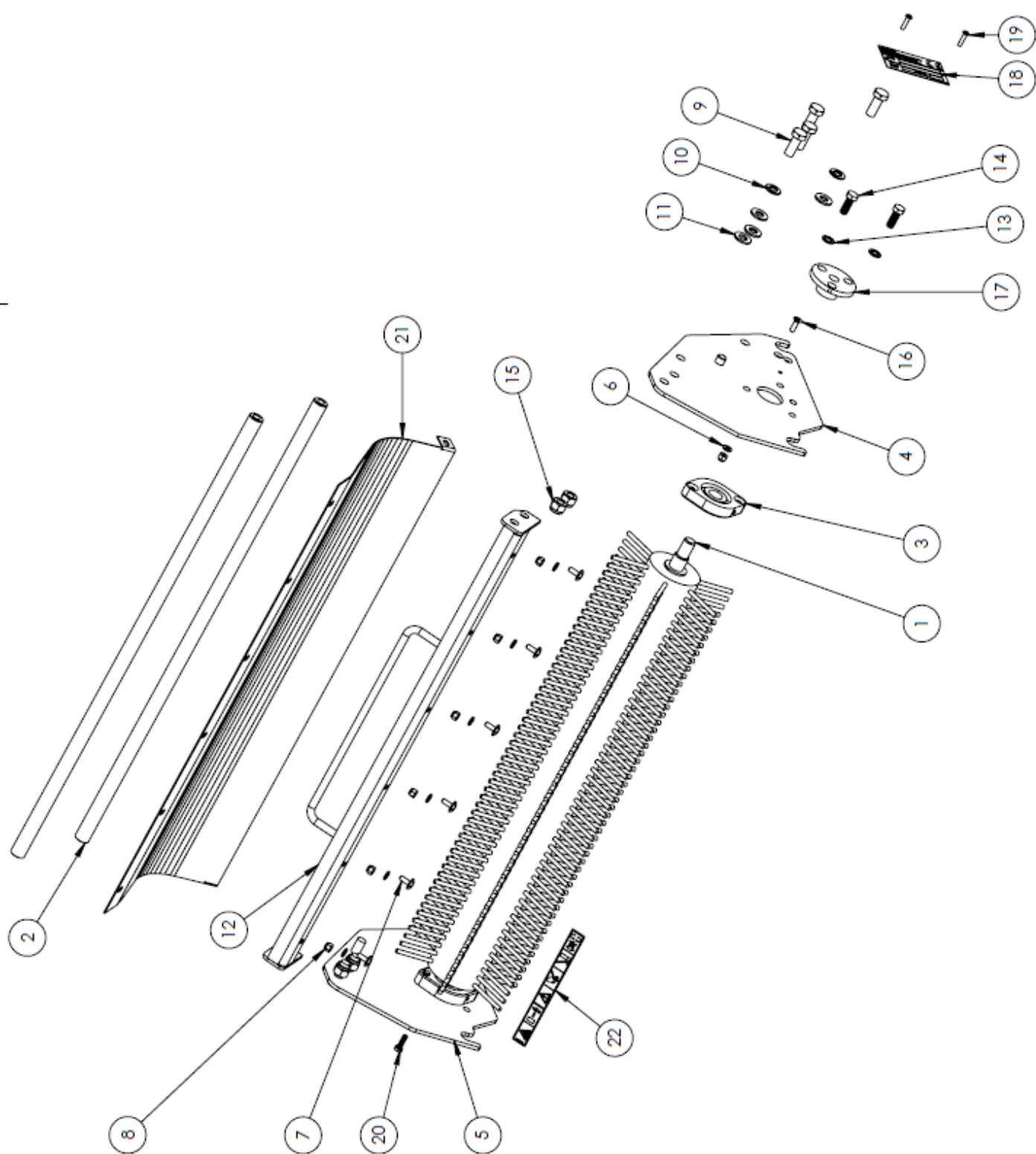


FIG 11

VERTICUTTER CARTRIDGE BOM (FIG 12)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	SCARIFIER BLADE	C1710	C1710	38/49
2	FAN BLADE	C1711	C1711	38/49
3	SPACER	C1131	C1131	39/50
4	WASHER PLAIN M24	WM24	WM24	1
5	M24 TOOTHED SHAKEPROOF	WM24TI	WM24TI	1
6	NUT HALF M24	NHM24	NHM24	1
7	SCARIFIER/VERTICUT SHAFT	C2025	C1542	1
8	BEARING 20mm FLANGED	AM81008	AM81008	2
9	DRIVE SIDE PLATE	C328	C328	1
10	WASHER SPRING 3-8	SW 3-8	SW 3-8	4
11	SCREW 3-8x1" UNF	S11014	S11014	4
12	DRIVEN PLATE	C1815	C1815	1
13	CE PLATE	T000333	T000333	1
14	POP RIVET 4.8 X 20	RIVET 4.8 X 20	RIVET 4.8 X 20	2
15	M6 X 20 COUNTER SUNK SET SCREW	M6X20 CSK	M6X20 CSK	1
16	SPRING WASHER M12	SWM12	SWM12	4
17	M12 SET SCREW	SM1230	SM1230	8
18	WASHER M12	WM12	WM12	8
19	SCREW M6 X 16 ROOFING BOLT	S11060	S11060	6/7
20	WASHER M6	WM6	WM6	8/9
21	CARTRIDGE SUPPORT TIE BAR	C2015	C1532	2
22	DEFLECTOR PLATE	C2024	C1613	1
23	CARTRIDGE HANDLE BAR	C372	C324	1
24	NUT M6 NYLOC	NNM6	NNM6	8/9
25	M6 X 20 SET SCREW	SM620	SM620	1
26	NUT M12 NYLOC	NNM12	NNM12	4
27	NON-DRIVE SIDE PLATE	C329	C329	1
28	CYLINDER BLADE CAUTION DECAL SMALL	AM81541	AM81541	1
29	SPACER	AZ1095	AZ1095	1
30	CIRCLIP EXTERNAL DOMED	AM81229	AM81229	1

VERTICUTTER CARTRIDGE

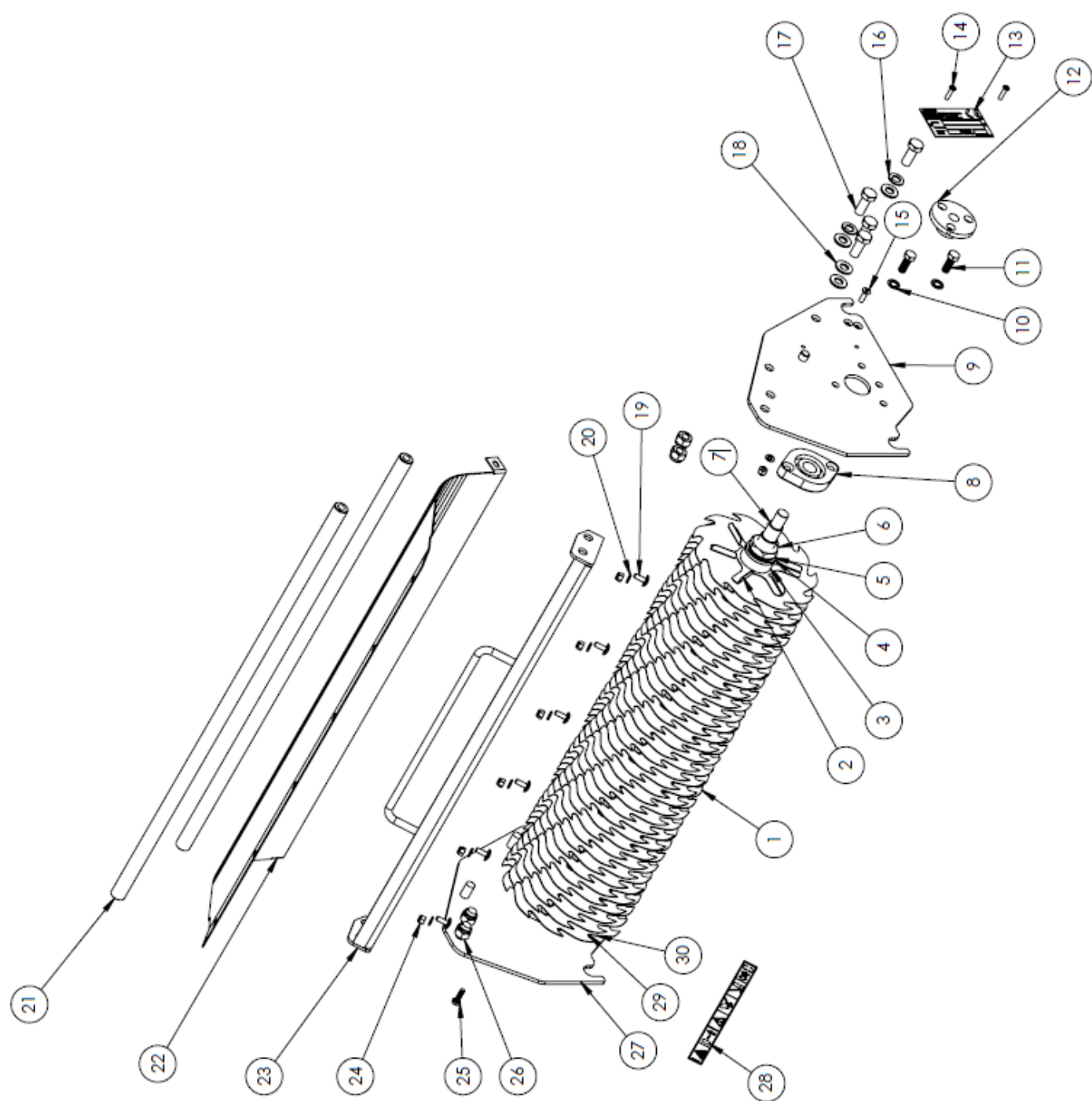


FIG 12

SCARIFIER CARTRIDGE BOM (FIG 13)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	SCARIFIER BLADE	AM81575	AM81575	38/49
Option	SCARIFIER BLADE Tungsten Tip	AM81506	AM81506	38/49
2	WASHER PLAIN M24	WM24	WM24	1
3	M24 TOOTHED SHAKEPROOF	WM24TI	WM24TI	1
4	NUT HALF M24	NHM24	NHM24	1
5	SCARIFIER/VERTICUT SHAFT	C2025	C1542	1
6	DRIVE SIDE PLATE	C328	C328	1
7	DRIVEN PLATE	C1815	C1815	1
8	WASHER SPRING 3-8	SW 3-8	SW 3-8	4
9	SCREW 3-8x1" UNF	S11014	S11014	4
10	POP RIVET 4.8 X 20	RIVET 4.8 X 20	RIVET 4.8 X 20	2
11	CE PLATE	T000333	T000333	1
12	M12 SET SCREW	SM1230	SM1230	8
13	WASHER M12	WM12	WM12	8
14	SPRING WASHER M12	SWM12	SWM12	4
15	M6 X 20 COUNTER SUNK SET SCREW	M6X20 CSK	M6X20 CSK	1
16	BEARING 20mm FLANGED	AM81008	AM81008	2
17	SPACER	C1131	C1131	39/50
18	NUT M12 NYLOC	NNM12	NNM12	4
19	CARTRIDGE SUPPORT TIE BAR	C2015	C1532	2
20	DEFLECTOR PLATE	C2024	C1613	1
21	CARTRIDGE HANDLE BAR	C372	C324	1
22	M6 X 20 SET SCREW	SM620	SM620	1
23	CIRCLIP EXTERNAL DOMED	AM81229	AM81229	1
24	SPACER	AZ1095	AZ1095	1
25	NON-DRIVE SIDE PLATE	C329	C329	1
26	CYLINDER BLADE CAUTION	AM81541	AM81541	1
27	SCREW M6 X 16 ROOFING BOLT	S11060	S11060	6/7
28	WASHER M6	WM6	WM6	8/9
29	NUT M6 NYLOC	NNM6	NNM6	8/9

SCARIFIER CARTRIDGE

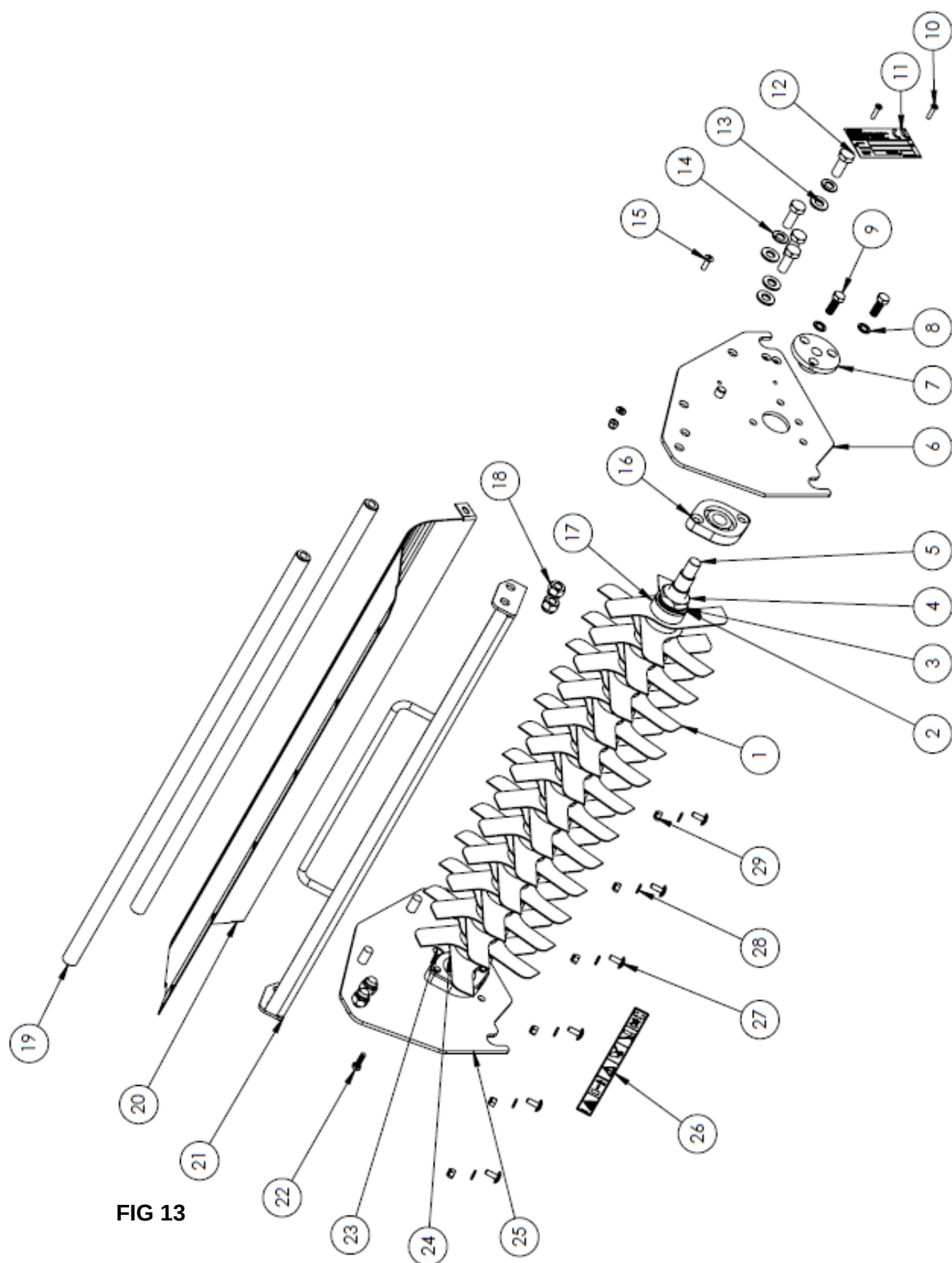


FIG 13

SORREL CARTRIDGE BOM (FIG 14)

ITEM NUMBER	DESCRIPTION	PART N0 C27	PART N0 C34	USED
1	SOLID SPIKE 37mm	RT-00001712	RT-00001712	72/92
2	SORRELL ROLLER TUBE	C373	C062	1
3	DRIVE SIDE PLATE	C328	C328	1
4	WASHER SPRING 3-8	SW 3-8	SW 3-8	4
5	SCREW 3-8x1" UNF	S11014	S11014	4
6	CE PLATE	T000333	T000333	1
7	POP RIVET 4.8 X 20	RIVET 4.8 X	RIVET 4.8 X	2
8	M12 SET SCREW	SM1230	SM1230	8
9	SPRING WASHER M12	SWM12	SWM12	4
10	WASHER M12	WM12	WM12	8
11	BEARING 20mm FLANGED	AM81008	AM81008	2
12	CARTRIDGE HANDLE BAR	C372	C324	1
13	CARTRIDGE SUPPORT TIE BAR	C2015	C1532	2
14	NUT M12 NYLOC	NNM12	NNM12	4
15	NON-DRIVE SIDE PLATE	C329	C329	1
16	CYLINDER BLADE CAUTION	AM81541	AM81541	1

SORREL ROLLER CARTRIDGE

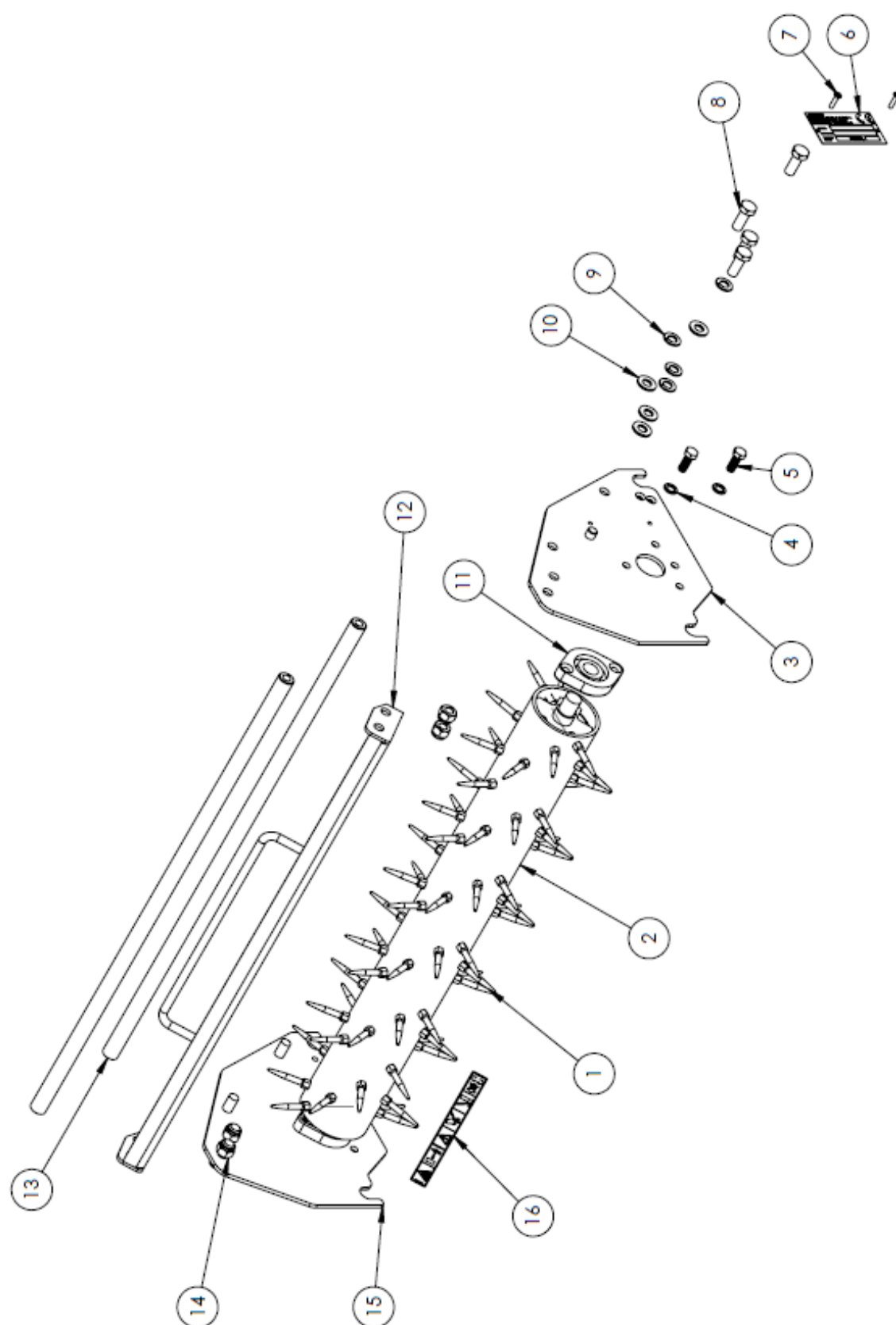


FIG 14

CUTTING CYLINDER – 6 & 8 BLADED FOOTBALL SPECIFICATION (FIG 15)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	QTY
1	6 BLADED CYLINDER	C390	C303-6	1
	8 BLADED CYLINDER	C368	C395	
2	TIE BAR	C2015	C1532	2
3	BEARING	AM81009	AM81009	2
4	DRIVEN PLATE	C1815	C1815	1
5	FOOTBALL LIFT BAR FAB	C371	C342	1
6	FOOTBALL GUIDE VEIN	C1668	C1668	6/7
7	THROW PLATE	C2017	C1704	1
8	NON-DRIVE SIDE PLATE FAB	C349	C349	1
9	CE PLATE	T000333	T000333	1
10	DRIVE SIDE PLATE FAB	C348	C348	1
11	BOTTOM BLADE ADJUSTMENT DECAL	AM81540	AM81540	2
12	CYLINDER BLADE CAUTION DECAL	AM81541	AM81541	1
14	NUT M12 NYLOC	NNM12	NNM12	4
15	POP RIVET 4.8 DIA X16mm STEEL	PR4820	PR4820	2
16	SET SCREW M6 x 16	SM616	SM616	4
17	NUT M6 NYLOC	NNM6	NNM6	10/11
18	3/8 SPRING WASHER	W11011	W11011	6
19	SET SCREW 3/8" UNC X 3/4"	S11073	S11073	2
20	M10 SPRING WASHER	SWM10	SWM10	2
21	SET SCREW M10 x 20	SM1020	SM1020	2
22	3/8" UNF x 1"	S11014	S11014	4
23	SPRING WASHER M12	SWM12	SWM12	4
25	SCREW M6 x 16 ROOFING BOLT	S11060	S11060	6/7
26	BOTTOM BLADE CARRIER FAB	C370	C351	1
27	ADJUSTER FORK	AB1004	AB1004	2
28	BOTTOM BLADE	AM92110	AB1062	1
29	ROLL PIN 10 x 30	AM89341	AM89341	2
30	ADJUSTER SCREW ASSEMBLY	BSG053	BSG053	2
31	BOTTOM BLADE SCREW 3-8 UNF BSF	S11032	S11032	11
32	SET SCREW M12 x 30	SM1230	SM1230	8
33	WASHER M10	WM10	WM10	8

CUTTING CYLINDER – 6/8BL CARTRIDGE

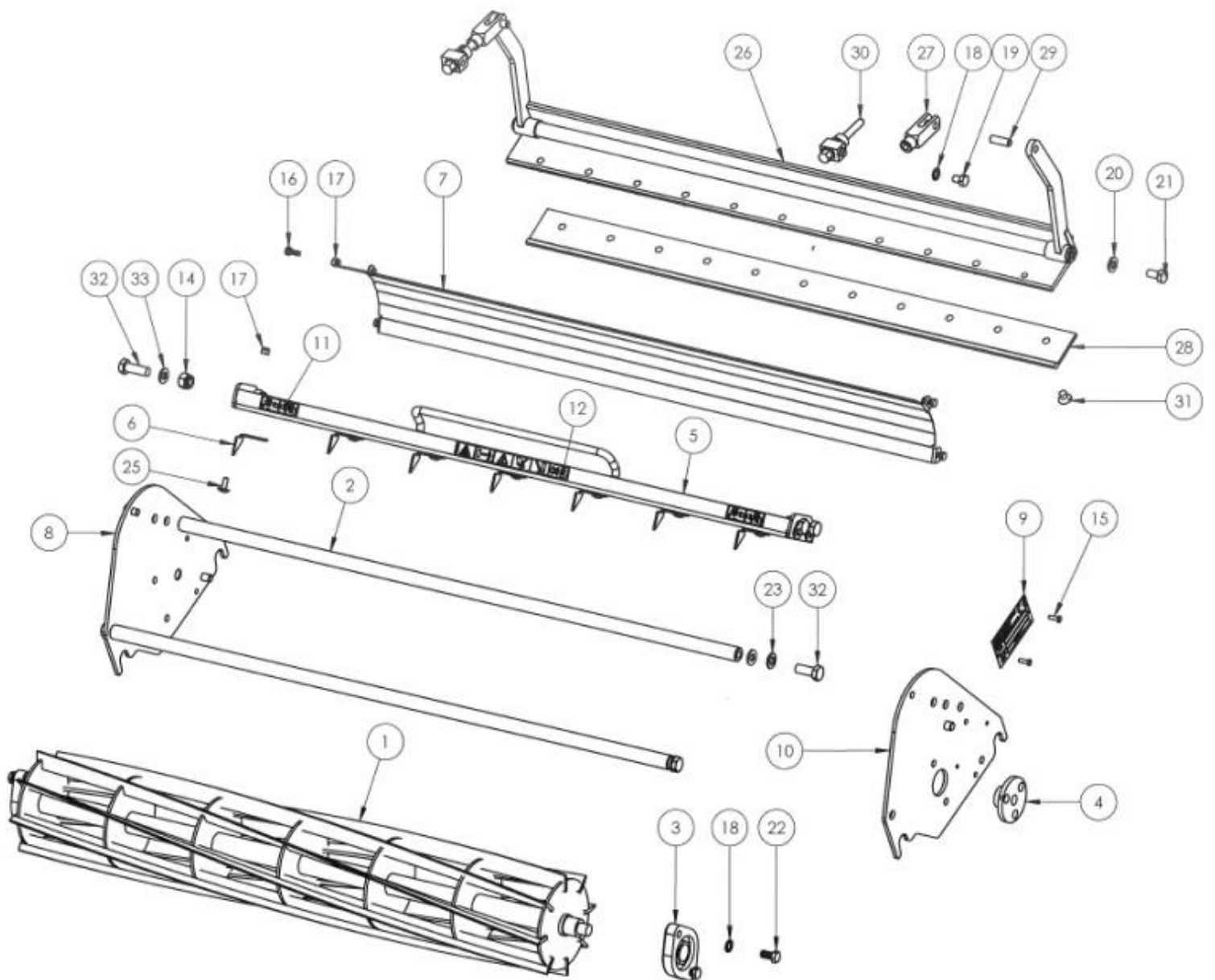


FIG 15

TURF RAKE CARTRIDGE (FIG16)

ITEM NUMBER	DESCRIPTION	PART NO C27	PART NO C34	USED
1	SUPPORT ANGLE FAB	C372	C324	1
2	C34TR DRIVE SIDE PLATE	C344	C344	1
3	C34TR NON DRIVE SIDE PLATE	C343	C343	1
4	DRIVEN PLATE	C1815	C1815	1
5	TIE BAR	C2015	C1532	1
6	SCREW M6 x 16 ROOFING BOLT	S11060	S11060	6/7
7	WASHER M6	WM6	WM6	8/9
8	NUT M6 NYLOC	NNM6	NNM6	8/9
9	M8x20 COUNTER SUNK SET SCREW	M6x20 CSK	M6x20 CSK	1
10	SET SCREWM6 x 20	SM620	SM620	1
11	SPRING WASHER M12	SWM12	SWM12	2
12	M12 X 30 BOLT/SET SCREW	SM1230	SM1230	6
13	WASHER M12	WM12	WM12	6
14	NUT M12 NYLOC	NNM12	NNM12	4
15	CYLINDER BLADE CAUTION DECAL	AM81541	AM81541	1
16	CE PLATE	T000333	T000333	1
17	16mm FLANGE BEARING	AM81597	AM81597	2
18	TURF RAKE BEARING SPACER	C1163	C1163	2
19	SPRING TINE SHAFT	C2018	C1162	1
20	16mm HEAVY DUTY EXTERNAL CIRCLIP	AM81598	AM81598	1
21	TINE CARRIER	F016A57926	F016A57926	18/23
22	WASHER M16 FORM C	WM16C	WM16C	1
23	RATCHET PLATE 16mm	F016A58860	F016A58860	1
24	SPRING – LONG	C1692	C1692	72/92
25	ACCESSORY DEFLECTOR PLATE	C2019	C1177	1
26	ROL PIN 5mm x 30	F016L36483	F016L36483	1
27	M6 GRUBSCREW	ACGM6	ACGM6	4
28	3/8 X 1-1/4" UNF SET SCREW	S11028	S11028	4
29	3/8 SPRING WASHER	W11011	W11011	4
30	POP RIVET 4.8 DIA X16mm STEEL	PR4820	PR4820	2

TURF RAKE CARTRIDGE

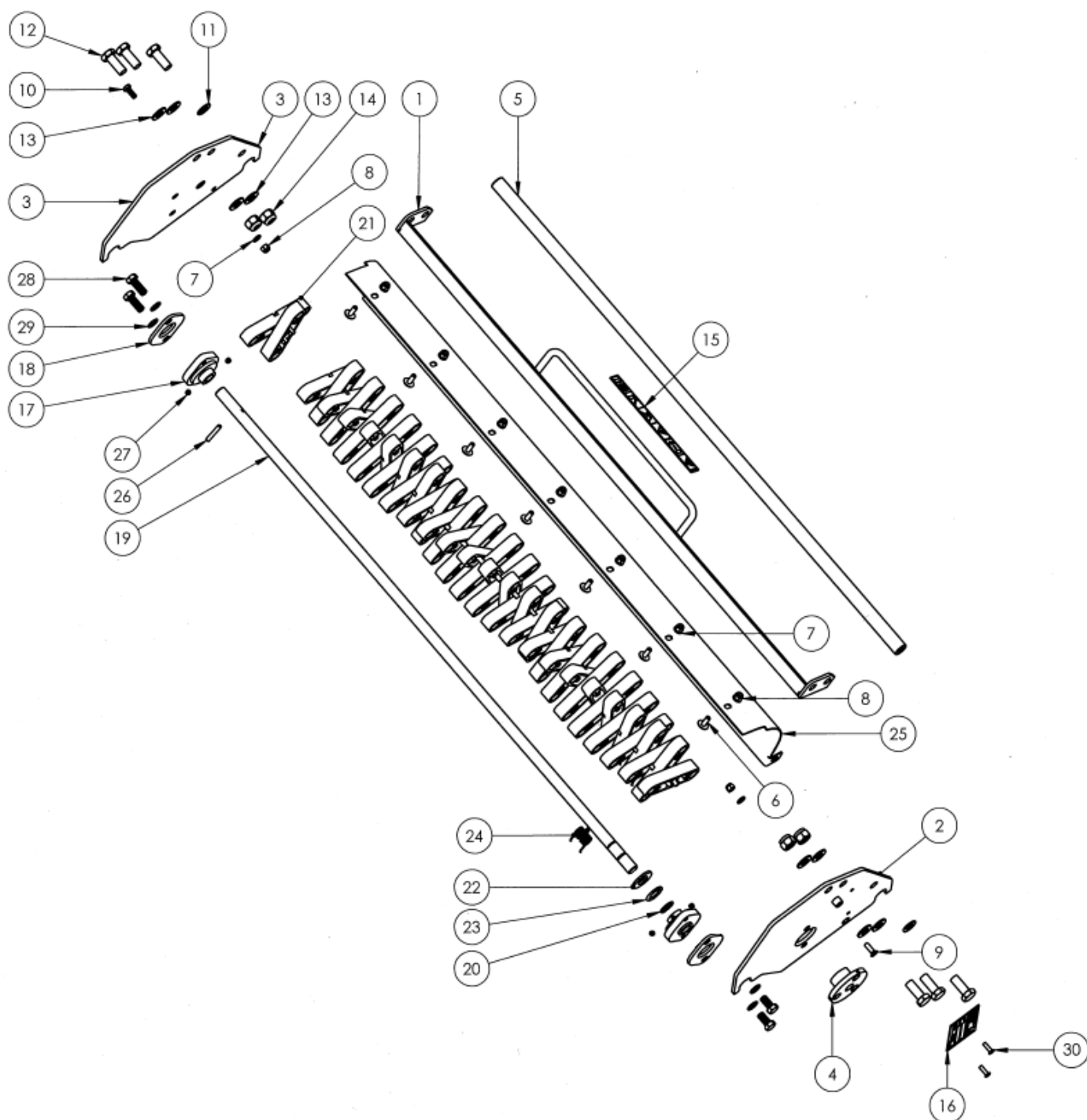


FIG 16

HEIGHT OF CUT BAR BOM (FIG 17)

ITEM NUMBER	DESCRIPTION	PART N0 C27	PART N0 C34	USED
1	SETTING BAR	C1598	C1598	1
2	SET PIN M6 X 60	SM660	SM660	1
3	M6 FULL NUT	NM6	NM6	1

HEIGHT OF CUT BAR

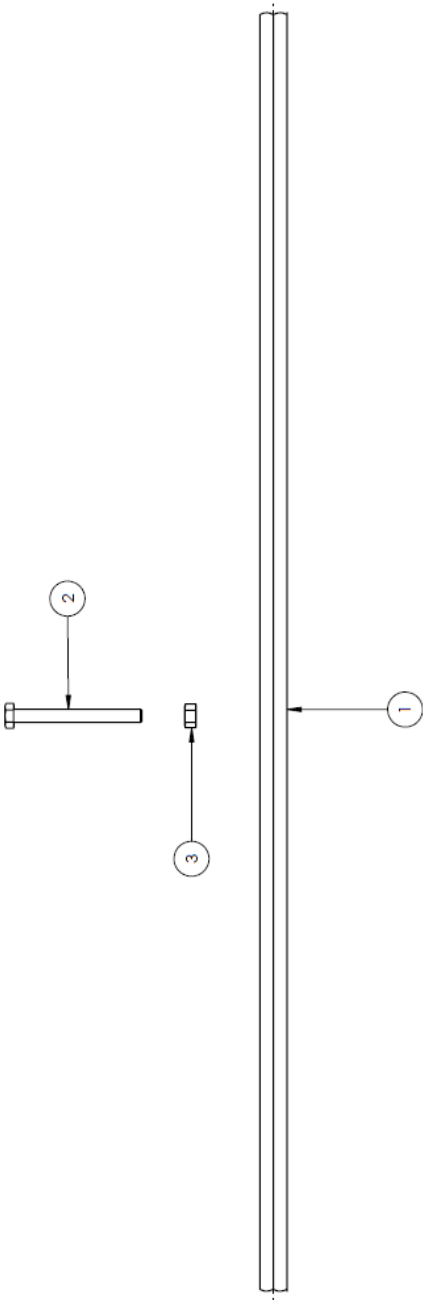


FIG 17

Notes