



SP 110

Greenfield

"Excellence through Innovation"

MODEL

EVOLUTION 2000 Mk IIA



16 OHV34

HONDA 13 OHV34



OWNER'S MANUAL

INSTRUCTIONS AND SPARE PARTS

Greenfield Products Pty Ltd
172 Ingram Rd, Acacia Ridge, Qld. Australia 4110
Fax (07) 3344 1161 Phone (07) 3345 6100

Contents

Safety Instructions	2
Operating Instructions	4
Differential Instructions	6
Maintenance	General 7
Maintenance	Blades and Belts 8
Maintenance	Chains and Steering and Parking Brake 12
Electrical Circuits	15
Spare Parts	Linkages 16
	Cutter, Clutch and Drive Clutch 16
	Linkages 17
	Brake, Height Adjust and Notch Bar 17
	Engine and Electrics 18
	Drive Clutch and Rear Axle 19
	Steering and Front Axle 20
	Cutter Deck 21
	Body Work and Seat 22
Service Record	23
Guarantee	24
Other Greenfield Products	25



Greenfield 
Australian Made Since 1966

© Greenfield Products Pty Ltd

All Details are correct at time of printing but are subject to change without notice
GF 20030 11 96

Evolution 2000

2

Thank you for buying an Australian made **Greenfield** mini tractor. Follow the manufacturer's operating and maintenance instructions and many years of excellent trouble free service can be expected.

Before operating the mower read the owners manual carefully. Do not allow children or any person unfamiliar with the safe operating procedure to operate this mower. Your Greenfield mower has been designed to meet stringent safety standards - but we remind you that a mower is a cutting device - **used incorrectly it could cause personal injury.** Remove the key when machine is not in use.

Safety Instructions

1. Do not carry passengers.
2. Know your controls. Read the operating instructions carefully. Learn how to stop the mower and the engine quickly in an emergency.
3. Do not mow whilst people, especially children or pets are in the mowing area.
4. Make sure the area to be mown is clear of sticks, stones, bottles, bones, wire and other debris which could be thrown by the blades.
5. Do not operate the machine without first inspecting the blades, blade bolts and blade holder for wear or damage. **Damaged blades and worn bolts are major hazards.** Always replace blades and blade bolts in sets to preserve balance. Replace worn or damaged parts with **genuine Greenfield** replacement parts only. N.B. Use of inferior non-genuine service parts on your Greenfield mower could result in costly damage and even personal injury. Refer "Maintenance Instructions", for replacement part numbers and fitting instructions.
6. Before using, check that the grass catcher, safety switches and guards provided by the manufacturer are operating properly and fitted securely. Regularly check all the components on the mower to ensure the machine is in a safe operating condition.
7. Never mow while barefoot or wearing open sandals or thongs. Wear long trousers and heavy shoes. It is also important to wear suitable eye protection.
8. A mower operator should be in good physical and mental health and not under the influence of any drug or alcohol which might impair vision, co-ordination or judgement.
9. Replace worn or faulty exhaust mufflers.
10. Keep the engine free of grass, leaves or excessive grease. These can be a fire hazard.
11. Refuel outdoors only. Do not smoke while fuelling engine. Never remove the cap of the fuel tank or add petrol while the engine is running or if the engine is hot, allow it to cool. Remove fuel cap slowly relieve any tank pressure. Do not overfill the fuel tank. If petrol is spilled do not attempt to start the engine but move the machine away from the area of the spill and avoid creating any source of ignition until petrol vapours have dissipated.
12. Check for fuel leaks, while refuelling or using the mower. If a fuel leak is detected, do not start the engine until the fuel leak is fixed and the spilled fuel is wiped away.
13. Do not operate the engine in a confined space where the poisonous exhaust fumes (carbon monoxide) can collect.
14. Always disengage the cutting blades from the operator's seat before starting or stopping the engine.
15. Always mount or dismount from the mower from the opposite side to the discharge chute. Always stop the engine before dismounting, keep feet and hands clear of the cutter deck.

16. Exercise extreme caution when mowing on slopes. Reduce speed particularly when making sharp turns to prevent overturning or loss of control. Do not stop or start suddenly when mowing uphill or downhill.
17. As a rough guide never operate a ride-on mower across a slope steeper than what you would comfortably drive a car across.
18. Stay alert for holes in the terrain and other hidden hazards.
19. Before crossing paths, driveways or any other area foreign to mowers, reduce engine speed disengage cutting blades and lift cutting attachment to maximum height. Do not drive over obstacles or gutters, this machine has a maximum 3½" (9cm) clearance only.
20. Watch out for traffic when crossing or operating the mower near roadways. Always mow with the safety grass deflector properly fitted.
21. When mowing, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
22. Before leaving the operator's position -
 - (A) Disengage the cutting blades.
 - (B) Apply the parking brake.
 - (C) Stop the engine and remove the starter key.
23. Disengage the drive to the cutting blades and stop the engine -
 - (A) Before refuelling
 - (B) Before removing grass catcher or any attachment.
 - (C) Before making a height adjustment unless adjustment is being made from the operator's position.
 - (D) Before clearing blockages.
 - (E) Before inspecting, cleaning or working on the mower.
 - (F) After striking a foreign object (inspect the mower for damage and make necessary repairs before restarting and operating the machine).
 - (G) If the machine starts to vibrate abnormally (check immediately).
24. Disengage drive to the cutting blades when not in use or in transporting.
25. Do not over-speed the engine or alter governor settings. Excessive speed is dangerous and shortens the mower's life.
26. Use care when pulling loads or using attachments.
 - (A) Use only the approved drawbar hitch point.
 - (B) Limit loads to those you can safely control.
 - (C) Do not turn sharply. Use care when backing up.
27. Store the mower in a well ventilated room away from naked flames such as may be found in some hot water heaters.
28. Do not lend or sell the mower without the owner's manual.
29. **Warning** - Remove spark plug lead to avoid accidental starting before attempting any maintenance or inspection of the mower.

Operating Instructions

Before Starting

Fuel

Top with clean regular **Unleaded** petrol only. **Don't Over Fill.** Make sure the petrol is free from impurities, particularly water. The petrol tank is located inside the engine compartment of your Greenfield. Raise the bonnet for access. Do not use stale petrol in your mower, add clean fresh fuel only.

Engine Oil

Check oil level by positioning the mower on level ground, remove the dipstick and wipe clean, replace the dipstick screwing correctly into position. Remove again and sight the oil level. Fill to the full mark. Do not Overfill. Dipstick must be firmly in place when the engine is running. Refer to the "CRANKCASE LUBRICATION" in the maintenance section of this manual for oil recommendations.

Tyres

Inflate to the correct pressures. 20 to 22 psi (140 to 154 KPa) in the front and 12 to 15 psi (84 to 105 KPa) in the back tyres. Do not over inflate. Over inflation will permanently change the shape of the tyre adversely affecting the cutter deck Trim & Tilt.

TO START

Apply park brake, disengage blade clutch (Cutters Out). Turn on fuel tap (if fitted). For cold starting set throttle control to "Choke". Turn starter key To start position for ten (10) seconds, maximum to avoid overheating of starter motor. If engine does not start it may be flooded. Set throttle control half way then attempt to start again. Make sure to return the key to the RUN position after the engine starts or each time you attempt to start it.

Do not allow children or any person unfamiliar with the safe operating procedure to use this mower. Know your controls. Read the following instructions carefully. Learn how to stop the mower and the engine quickly in an emergency.

Important - This Evolution Model Greenfield mower is fitted with a safety "cut-out" switch activated by the seat. The operator must be seated to start the engine and remain seated while operating the mower. If you don't remain seated the engine will stop. This safety switch must be kept functional for your protection. Adjustment is easily done if ever necessary.

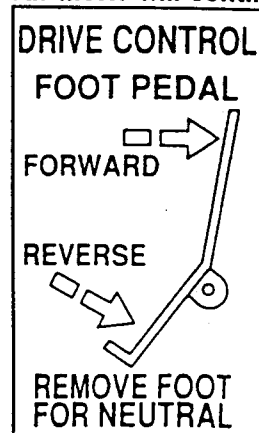
TO STOP

Reduce engine speed to idle on the throttle control, disengage cutter blades (cutters out). The cutter blades should come to a complete stop in approximately 7 seconds (refer Cutter Belt Adjustment). Apply the park brake and allow engine to cool down by idling approximately 20 seconds. Return key to "STOP" position to switch engine off. Then, and only then, dismount from the driver's seat. Turn fuel tap off (if fitted).

* It is a essential that the key is turned to the "STOP" position otherwise the hour meter will continue to run on.

TO OPERATE

A simple pivoted foot pedal controls forward, neutral and reverse. Apply toe pressure to move forward, heel pressure to move in reverse. Increased toe or heel pressure provides speed variation in forward or reverse respectively. Allow pedal to centralise for neutral. The drive pedal can also be used as a brake by applying toe or heel pressure opposite to the directional movement of the mower. Sudden or violent directional changes and/or wheel spinning must be avoided.



Cutting Height

The height adjustment lever located to the front right of the rear cover enables the operator to select the desired cutting height. To alter the cutting height move the lever to the right then shift upwards or downwards to select the setting then release to lock in position. An indicator panel displays the setting. Keep the indicator in the green band for maximum belt life.

5

Blade Clutch

The blade clutch lever is located on the deck alongside the right hand side running board. To engage the cutting blades, push this lever forward sufficient to release the tension on the latch, raise the release trigger on the lever with fingers and allow the lever to move slowly rearwards to the "ENGAGED" position. To disengage the cutter blades, push the lever fully forward into the locked "OUT" position.

To prolong cutter vee belt life, engage and disengage the clutch lever slowly.

NEVER USE WITHOUT SAFETY DEFLECTOR OR GRASS CATCHER FITTED.

DANGER Never attempt to dismount from the driver's seat while engine is running.

Seat

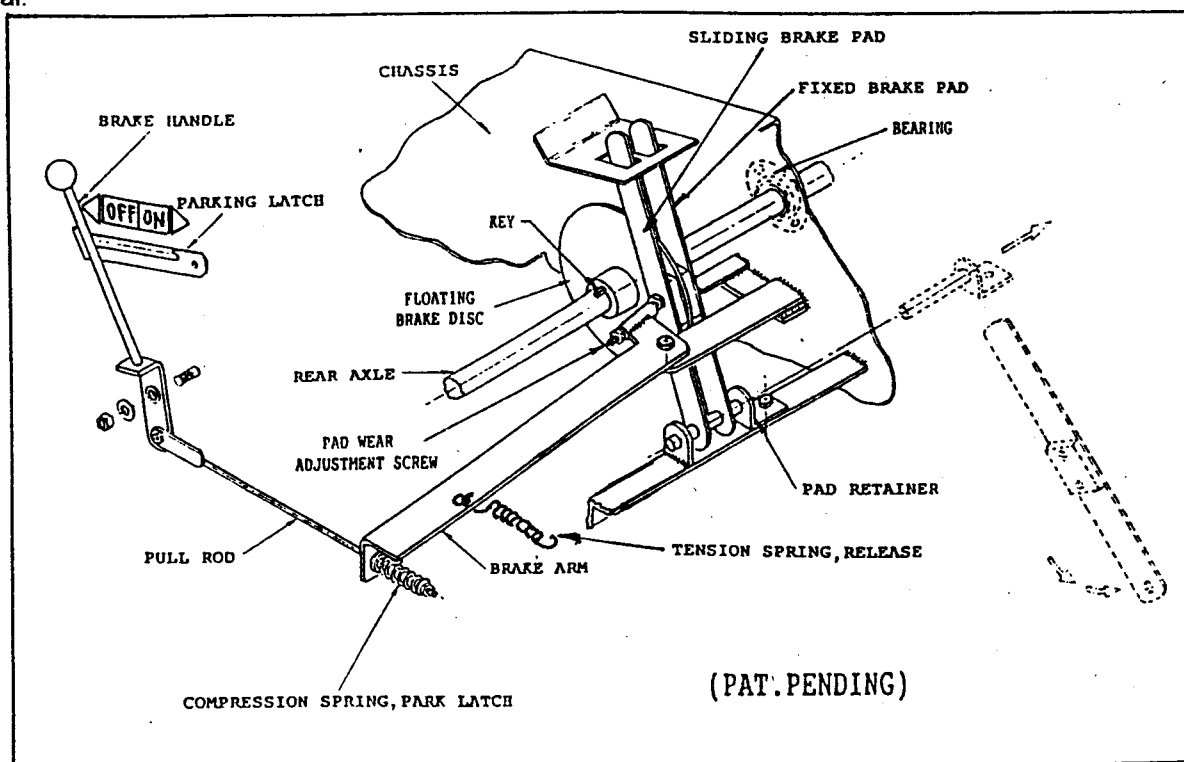
The operator's seat is adjustable front to rear. To adjust, hinge seat forward, loosen four seat securing bolts, move seat to position required and retighten bolts. Oil pivots occasionally.

Disc Brake

The park brake handle is located in front of the left side rear mudguard. This handle has two positions, "OFF" and "ON". To engage the park brake, lift the handle fully up and engage the handle into the parking latch. To disengage, lift the handle up and out of the parking latch and lower to the "OFF" position. This brake can also be used for stopping the mower in an emergency. **DO NOT DRIVE THE MOWER WITH THE BRAKE IN THE "ON" POSITION.**

Check effectiveness of the parking brake by its ability to stop the tractor mower by applying the brake to the "ON" position while it is rolling forward with the foot pedal in the neutral position.

Should the parking brake need adjusting, Refer to "BRAKE PAD WEAR ADJUSTMENT" on page 14 of this manual.



Greenfield Patent Differential

6

Instructions and Hints

The Greenfield Evolution mower features a unique and patented new type of differential. This differential offers the operator the option of the full differential action of the rear wheels for improved steering and a tight turning circle, whilst eliminating rear wheel scuffing on fine lawns. Most people will run their Greenfield with the differential operating all the time. This is the preferred method of operation and is accomplished by keeping the handle hooked over the end of the rear axle (see "A" below).

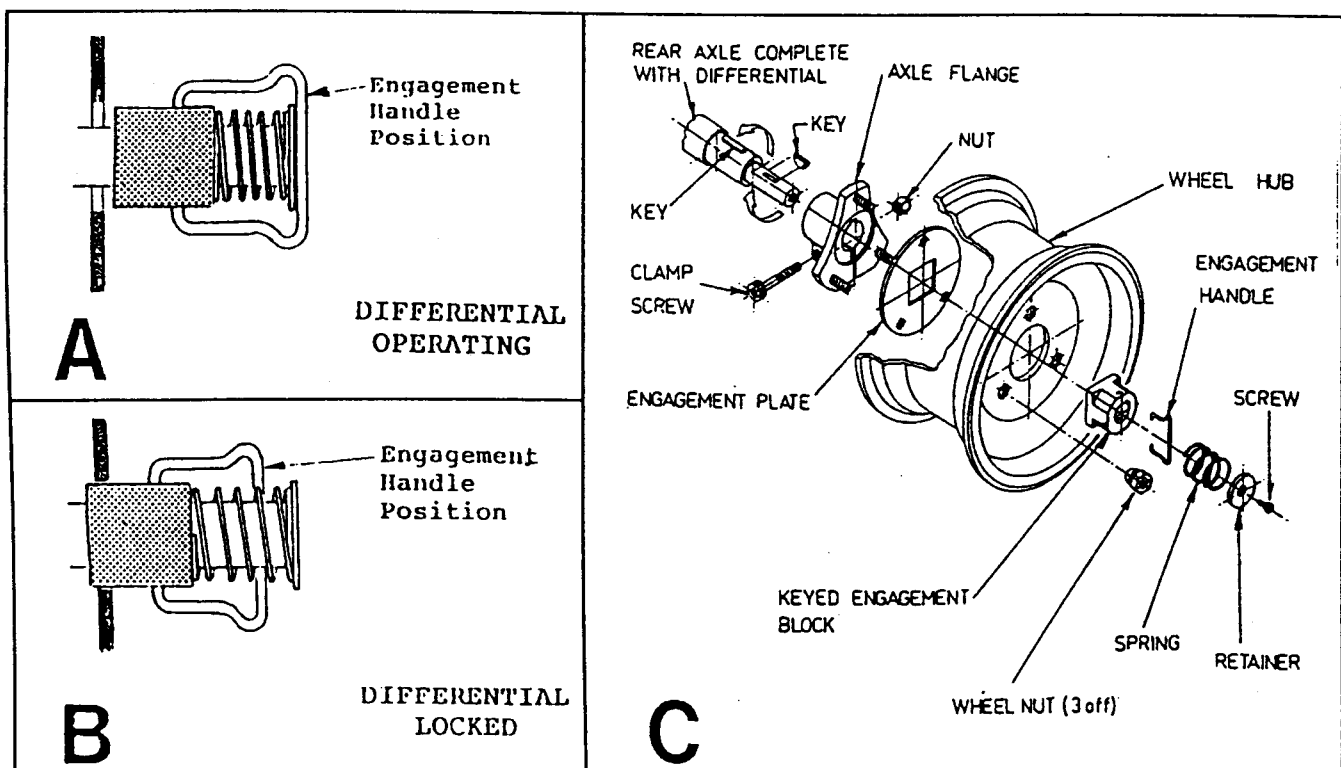
Important: Do not attempt to engage or disengage the differential lock from the operator's seat or while the engine is running.

In some situations, such as extremely wet areas or if hill climbing, you may choose to lock out the differential action for improved traction. You accomplish this by simply releasing the handle from the end of the rear axle. The lock will automatically engage when released (See "B" below).

To return the differential to the operating position (See "A" below) turn the steering wheel either to the left or right; then rock the mower back and forth while simultaneously pulling out on the engagement handle and hook it over the end of the rear axle. Lubricate if necessary.

If the left side rear wheel is removed, make sure the keyed engagement block slides freely into the engagement plate square before the final tightening of the wheel nuts.

Greenfield differentials are fully lubricated and sealed for life at the factory. If the unlikely event that your differential needs service, it must be returned to Greenfield intact. **Differentials that have been tampered with or dismantled will NOT be considered for warranty.** Normal warranty is 12 months for private use and 3 months for commercial use. Extended warranty is available for up to 3 years for private use or 6 months for commercial use. See your Greenfield dealer for details. Service and spares for the differential are only available through the factory during the warranty period. The factory gives a same day service if a differential is returned.



MAINTENANCE

Warning: Remove the spark plug lead to avoid accidental starting BEFORE attempting any maintenance or inspection of the mower.

Crankcase Lubrication

Change engine oil after the first 5 hours of operation then every 6 months or 25 working hours, whichever comes first. Change more often in heavy work or dusty conditions. Drain engine oil whilst engine is warm then replace with a high quality detergent oil classified for service SF/CC by the A.P.I. such as Briggs & Stratton "Warranty Certified" SAE 30 oil, available from Briggs & Stratton Service Dealers.

Fill to full mark indicated on the dipstick. Do not overfill. To check oil level, position the mower on level ground. Remove the dipstick and wipe clean. Replace dipstick screwing correctly into position. Remove again and sight the oil level. The dipstick must be firmly in place when the engine is running. Refer to the engine manufacturers operating booklet for oil recommendations.

Air Filter

Service the air filter as per the engine manufacturers booklet. Clean or replace more often in dusty conditions. Never operate the engine without the air filter correctly and securely fitted - rapid and expensive wear will occur. Because the air cleaner is in a clean air zone, less servicing is required.

Cooling System

Remove the blower housing and clean out the grass and debris to prevent engine overheating. Refer to engine manufacturer's booklet.

Battery

Top with distilled water to correct level as required. If externally charging, care is needed. TRICKLE CHARGE ONLY to avoid battery damage. The maximum charge is 2 AMPS per hour.

Warning: Do not let the battery discharge during winter. Trickle charge regularly or use the mower at least once a month to avoid damage to the plates.

Wheels

The rear wheel nuts should be re-tensioned after the first 5 hours of operation to 44 Nm (33 ft.lbs) then regularly with your preventative maintenance checks.

Tyres

Inflate to the correct pressures. 20 to 22 psi (140 to 154 KPa) in the front and 12 to 15 psi (84 to 105 KPa) in the back tyres. Do not over inflate.

Cleaning

Never wash your Greenfield with a high pressure wash gun. You could blast water and dirt past the seals in the bearings causing premature bearing failures and rusted pivot points.

- * Never wash your Greenfield immediately after use. The quenching contraction effect from hosing off the machine when it's at operating temperature could also draw water and dirt into the bearings and cause premature bearing failures.
- * The best way to clean your Greenfield is to use an air hose to blow the loose grass, etc. from around pulleys, belts and the top of the cutter deck. Wash the exterior with a sponge and bucket, then rinse off with a hose and wipe it down the same as you would your car. For maximum machine life, do not spray water on the pulley's and bearings. Recoil all pivots after wash.
- * Allow your Greenfield to cool after use then clean off all grass and other debris before storing. Sticks, stones or an accumulation of grass and other debris will damage belts and fracture pulleys if they go through between the pulley and belt. So keep the cutter deck clear.

Chassis Lubrication

Your Evolution 2000 Greenfield mower has 3 greasing point. A grease nipple is fitted to each king pin housing in the front axle beam, the third grease nipple is fitted to the steering link idler which is located in the centre of the machine close behind the front axle beam and accessible from under the chassis. Grease these locations every 6 months or 50 operating hours with a quality No 2 lithium base grease or equivalent. It is recommended your grease gun be fitted with a flexible hose. All other exposed pivoting joints, lever points and slides are to be lubricated with engine oil.

BLADES AND BELTS

Belts

Greenfield "V" belts are self-adjusting although the cutter belt may need occasional adjustment within it's tensioning range (see page 11) Inspect the "V" belts regularly and replace if damaged. Part Number for V belts are -

Drive V Belts GT 20005

Cutter V Belt GT 18005

Important - For long service life, use only Genuine Greenfield branded V belts, refuse substitutes. **Non Genuine V Belts may render the clutch ineffective, even dangerous.**

Blades

Check condition of blades, blade bolts and blade holder. Replace if damaged or worn. Worn or damaged blades and bolts are major hazards. Always replace worn or damaged blades and bolts in sets to preserve balance. Use only Genuine Greenfield branded replacement parts. Use of inferior non-genuine replacement parts on your Greenfield could result in costly damage or even personal injury. Part Numbers for Blades and Bolts are:

Cutter Blade and Bolt Set GT 2139

Cutter Blade and Nut Set GT 2138

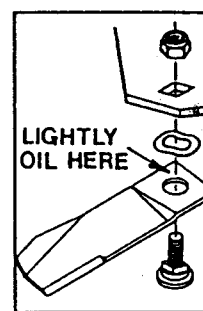
Bolt and Nut Set GT 2110

To fit new blades refer to illustration A.

Tighten the blade bolt nuts firmly. Correct torque is 44Nm. (32ft.lbs). Blades must be free to move but not loose. Lightly oil the blade pivot point before fitting.

Warning: Always remove the spark plug lead to avoid accidental starting.

Illustration A

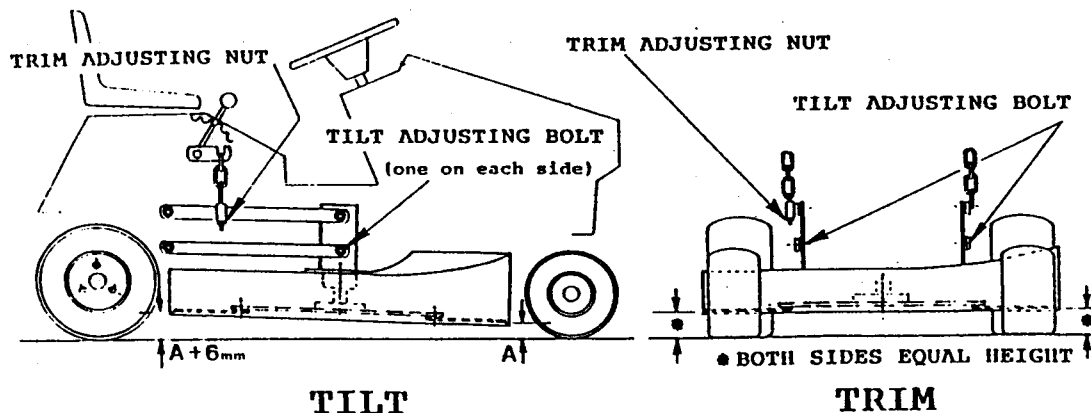


Cutter Deck Adjustments

Before checking "TILT" which is the forward slant on the cutter deck front to rear or "Trim" which hold the cutter deck level side to side first check the tyres are inflated to the correct pressures, the front axle beam is level in the chassis, the rear axle is adjusted correctly, parallel in the chassis and the entire machine including all four wheels are on the same level flat surface.

1. Remove spark plug lead to prevent accidental starting.
2. Disengage blade clutch (Cutter Out)
3. Set the "Trim" by raising or lowering the right hand side of the cutter deck by means of the adjusting nut on the support chain.
4. Set the "Tilt" by loosening the tilt adjusting bolts which connect the bottom link to the cutter deck side plates on each side. Set the deck to the correct tilt (minimum 6mm lower at the front) then retighten both bolts. See Illustration B

Illustration B



TO REMOVE DRIVE BELT

1. Remove the spark plug lead to prevent accidental starting.
2. Lift up the seat and disconnect the wire to the seat cut out switch by pulling apart the spade connector on the blue wire near the top of the battery. Remove the rear cover by undoing the star knob under the seat and removing the rear cover and seat assembly.
3. Set the blade height to the "LOW" position.
4. Swing back the steady bracket supporting the rear clutch link (refer illustration C).
5. Remove the split pin from the back end of the clutch yoke. Lift off the rear clutch link and swing rearward (refer illustration D).
6. With the spring release hook tool provided (see illustration E), remove the tension spring from the idler pulley notch bar.
7. Release the notch bar leaf spring by inserting a flat screwdriver through the slot in the bracket above the leaf spring. Lever the leaf spring clear of the notch bar and hold in a released position allowing the idler pulley to slide freely rearward to permit belt removal. (refer illustration E).
8. To remove the drive V belt from the engine pulley the cutter V belt must first be removed. Follow steps No. 1, 2, 3, 4 and 5 of "To remove cutter V belt " instructions. Now remove the drive V belt from the engine pulley.
9. Lift the drive V belt off both flat idler pulleys and remove the belt through the opening at the rear clutch link.

Illustration C

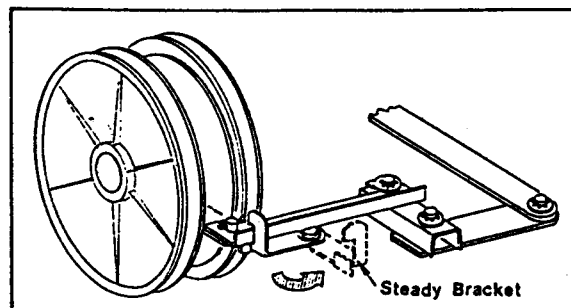


Illustration D

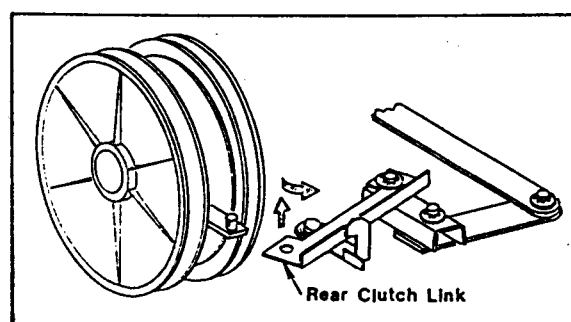
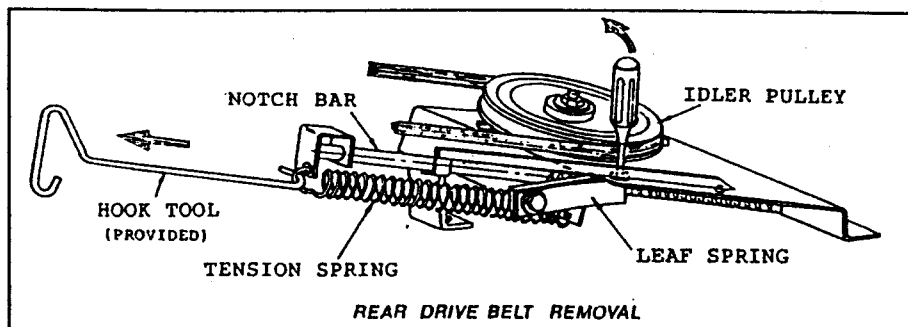


Illustration E



TO REPLACE DRIVE V BELT

1. Feed the belt down the back of the clutch pulleys around the flat and "V" alignment pulleys and onto the top groove of the engine pulley. If the cutter V belt is in position on the engine pulley, remove the belt by following steps No 1, 2, 3, 4 and 5 of "To remove cutter V belt" instructions.
2. Fit the belt into both clutch pulleys then into the idler pulley on the notch bar. This pulley will need to be in the fully rearward position. Lubricate the slide with grease.
3. Fit the belt over both flat idler pulleys. The back of the belt runs on the pulleys.
4. Replace the notch bar tension spring using the hook tool.
5. Replace the rear clutch link and the split pin.

6. Swing the steady bracket forward to support the rear clutch link.
7. Refit the cutter V belt into the bottom groove of the engine pulley by following step No.6 ,7 ,8 & 9 of "To replace cutter V belt" instructions.
8. Replace the rear cover and reconnect the wire to the seat safety cut out switch.
9. Replace the spark plug lead.

To Remove Cutter V Belt

1. Remove the spark plug lead to prevent accidental starting.
2. Lower the blade height to the "LOW" position and engage the cutters, blade clutch "IN".
3. Working at the back of the mower between the rear wheels, unhook the cutter belt tension spring from the bracket on the rear of the cutter deck using the hook tool provided
4. Disengage the cutters, Blade clutch "OUT".
5. Remove the V belt from the engine pulley by manoeuvring the belt down between the pulley and the belt guide pins.
6. Remove the V belt from the fixed clutch pulley and the sliding clutch pulley by manoeuvring the belt between the pulleys and belt guides.
7. Remove the V belt from the cutter pulley by manoeuvring the belt up between the pulley and the cutter brake, the pulley and the belt guide leaf spring and guide pin. Remove the belt from the machine.

To Replace Cutter V Belt

1. Remove the spark plug lead to prevent accidental starting.
2. Lower the blade height to the "LOW" position and engage the cutters, blade clutch "IN".
3. Working at the back of the mower between the rear wheels, unhook the cutter belt tension spring from the bracket on the rear of the cutter deck using the hook tool provided.
4. Fit the V belt to the cutter pulley by manoeuvring the belt down between the cutter brake and pulley, the front leaf spring and pulley and the guide pin and pulley.
5. Fit the belt to the fixed clutch pulley and the sliding clutch pulley by manoeuvring the belt between the guide pins and into the vee pulleys.
6. Fit the belt to the engine pulley by manoeuvring the belt up between the belt guides and into the bottom groove of the engine pulley.
7. Using the hook tool, replace the cutter belt tension spring onto the anchor bolt located in the forward hole in the bracket on the rear of the cutter deck.
8. Disengage the cutters, Blade clutch "OUT".
9. Replace the spark plug lead.

From the operator's seat, run the engine and engage the cutters to check V belt operation. (refer cutter belt adjustment page 11).

Note - A belt run-in period is required as follows. With the height adjusting lever in the green band (mid height position) engage cutter blades and run for a minimum of ten minutes at medium engine speed. Ideally, a total run-in time would be approximately one hour, during which time you can cut grass, on a mid height position.

Cutter Belt Adjustment

11

Warning: Remove the spark plug lead to avoid accidental starting **BEFORE** attempting any maintenance or inspection of the mower.

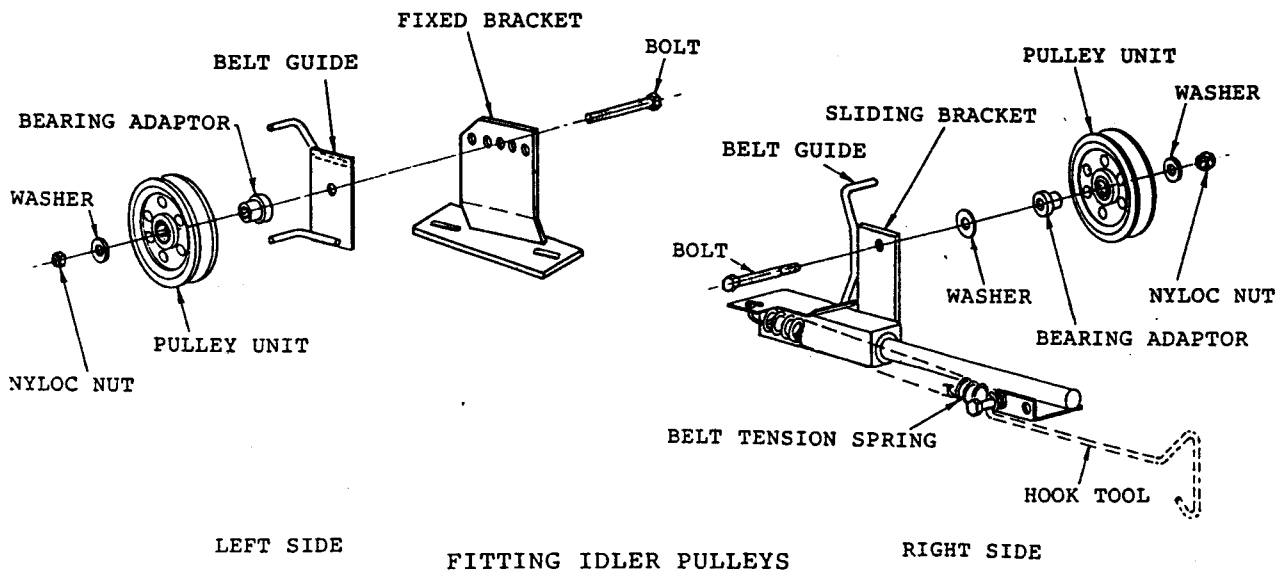
With the cutter clutch lever in the "OUT" position (disengaged) the cutter belt should be sufficiently disengaged to allow the cutter blades to come to a complete stop in approximately 7 seconds. The correct amount of belt slack and the efficient operation of the cutter brake control this stopping time. The spring loaded clutch idler pulley maintains the correct belt tension when the blade clutch lever is in the "Engaged" position.

The patented self adjusting cutter clutch will automatically adjust to compensate for normal wear and stretch of the vee belt during it's working lifetime.

Should some extraordinary belt stretch occur further manual belt adjustment is available by either loosening the two nyloc nuts on the left side pulley bracket base and sliding bracket rearwards, then retighten nuts, or relocating the pulley to the next rearward hole.

The manufacturer recommends all Greenfields be returned to your authorised Greenfield dealer for normal servicing i.e. oil changes, air filters etc. at the times indicated in the maintenance section and by the engine manufacturer. The manufacturer also recommends a maintenance and safety inspection be performed every 6 months or every 50 working hours by your authorised Greenfield dealer to comply with the conditions for both standard and extended warranty offered by the manufacturer. Refer to warranty leaflet.

Illustration F



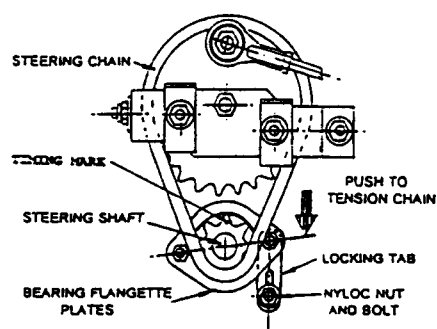
CHAINS AND BRAKES

Steering Chain Adjustment

12

1. Remove the spark plug lead to prevent accidental starting.
2. Lower the cutter deck to "LOW" position.
3. Working from under the bonnet at the rear of the engine from the right hand side, Loosen both nyloc nuts on the steering shaft bearing flangette plates and the nyloc nut on the locking tab. See illustration "G"
4. With fingers only, push the steering shaft to the left side of the machine to tighten the steering chain, remove all slackness from the chain. Do not overtighten
5. Re-tension the two nuts on the bearing plate and the nut on the locking tab.
6. Replace the spark plug lead.

Illustration G



Steering Chain Adjustment
(VIEWED FROM UNDERSIDE OF MACHINE)

Illustration H

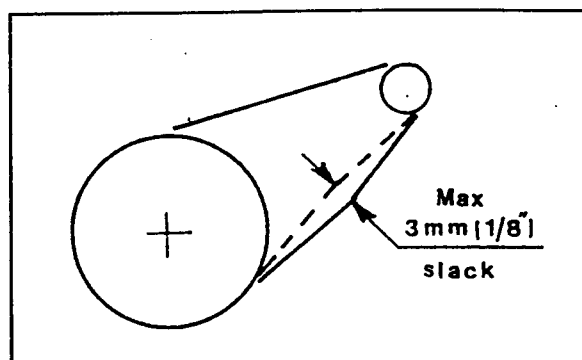
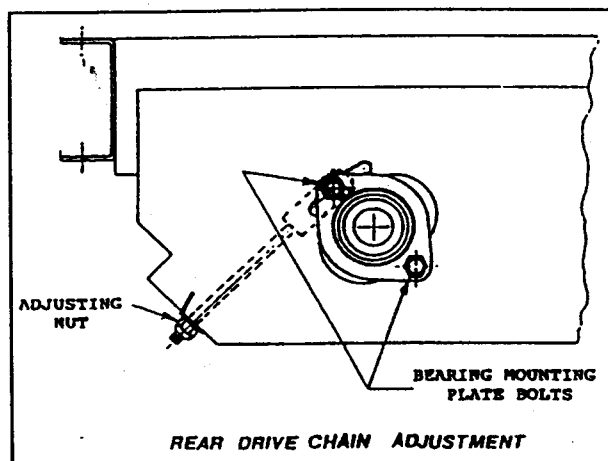


Illustration J



REAR DRIVE CHAIN ADJUSTMENT

1. Remove the spark plug lead to prevent accidental starting.
2. Lift up seat and disconnect the wire to the seat cut out switch by pulling apart the spade connector on the blue wire near the top of the battery. Remove the rear cover by undoing the star knob under the seat base and removing the rear cover and seat assembly.
3. Raise and block up the rear of the mower. Remove the rear wheels for access to the flange bearings.
4. Loosen the two bearing mounting plates on each side. See illustration "J"
5. Adjust the chain by turning the adjusting nuts positioned at the bottom of the rear axle side plates clockwise to tighten the chain. It is very important to adjust each side evenly so the rear axle remains parallel to the mower chassis and the sprockets are in alignment. It is suggested that you turn each nut no more than a quarter of a turn at a time alternating between the two until the chain has 3mm slack as shown in illustration "H". Do not overtighten the chain.
6. Re-tension the rear axle flange bearing mounting plate bolts.
7. Re-fit and tension the rear wheels to 44 Nm (33 ft.lbs)
8. Replace rear cover, and reconnect the blue wire to the safety switch and replace the spark plug lead.

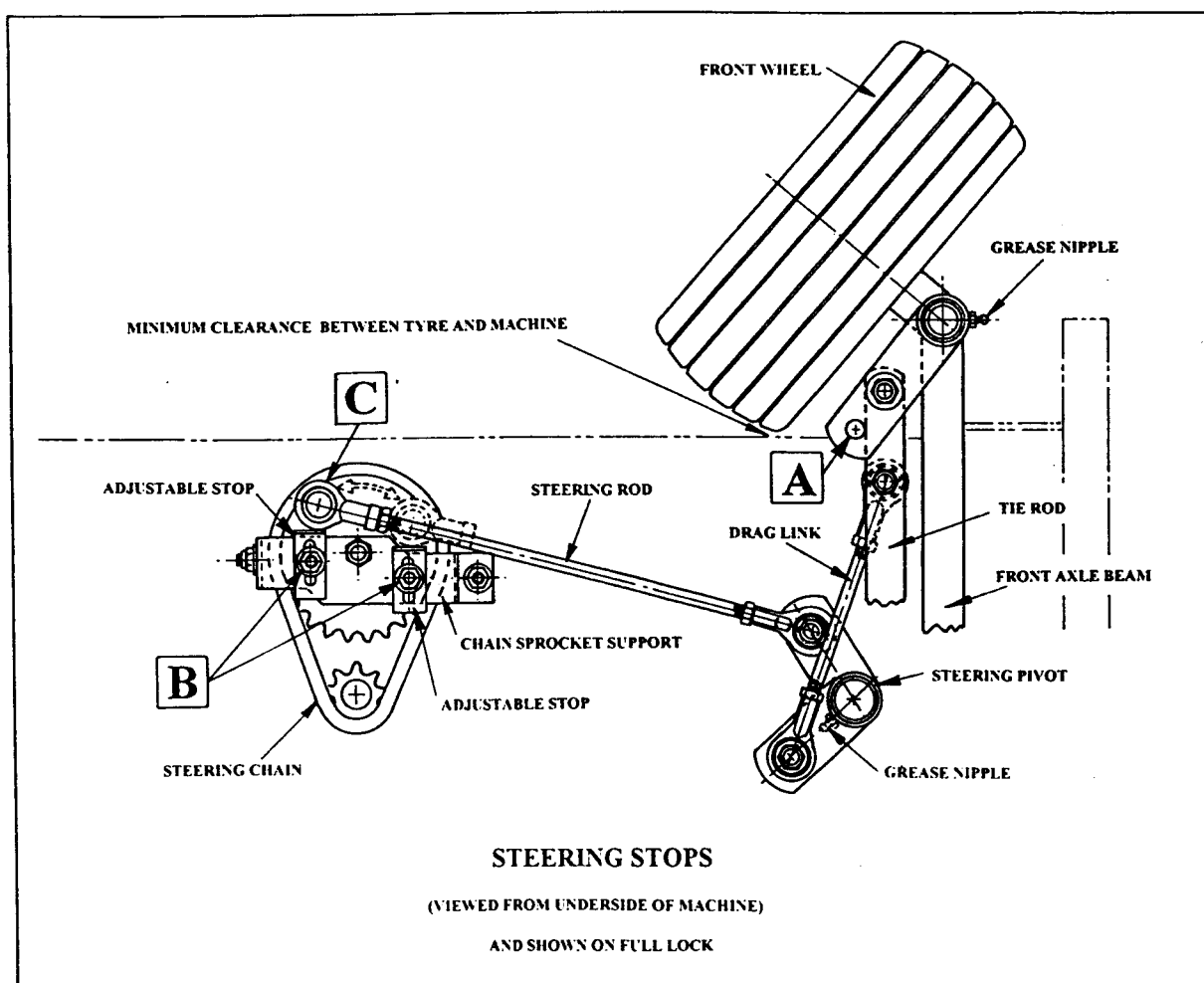
Note: The rear drive chain should be removed, thoroughly cleaned in kerosene and soaked in a quality chain oil every 50 operating hours, more often if hosed. Refit drive chain and adjust as described in "REAR DRIVE CHAIN ADJUSTMENT". If the rear drive chain is cleaned and oiled regularly, a much longer service life can be expected from the chain and sprockets.

STEERING STOP ADJUSTMENT

The steering stops "B" are readily seen and accessible from under the right hand side of the chassis with the cutter deck in the "LOW" position. Adjustments should not be necessary, unless the steering has been damaged.

1. Remove the spark plug lead to prevent accidental starting.
2. Check the front wheel alignment has 0-1.5mm toe-in. Correct if necessary by resetting the adjustable tie rod. Toe-in must be correct before any adjustments are made.
3. Loosen the nuts retaining the two steering stops on the chain sprocket support (refer illustration K, item B).
4. Turn the steering wheel full lock to the right till the right hand king pin is hard against the fixed stop "A".
5. Slide the right side stop on the chain wheel support until it hits against the tie rod end "C". Retighten the locking nut "B".
6. Turn the steering wheel full lock to the left then repeat step 5 listed above.
7. To check your adjustments are correct, turn the steering wheel to either lock, noting stops "A" and "B" make contact at the same moment. This will ensure the smallest turning circle without unnecessary strain on the steering component.
8. Replace the spark plug lead.

Illustration K



Park Brake Adjustment

Check effectiveness of the parking brake by its ability to stop the tractor mower by applying the brake to the "IN" position while it is rolling forward with the foot pedal in the neutral position.

BRAKE PAD WEAR ADJUSTMENT

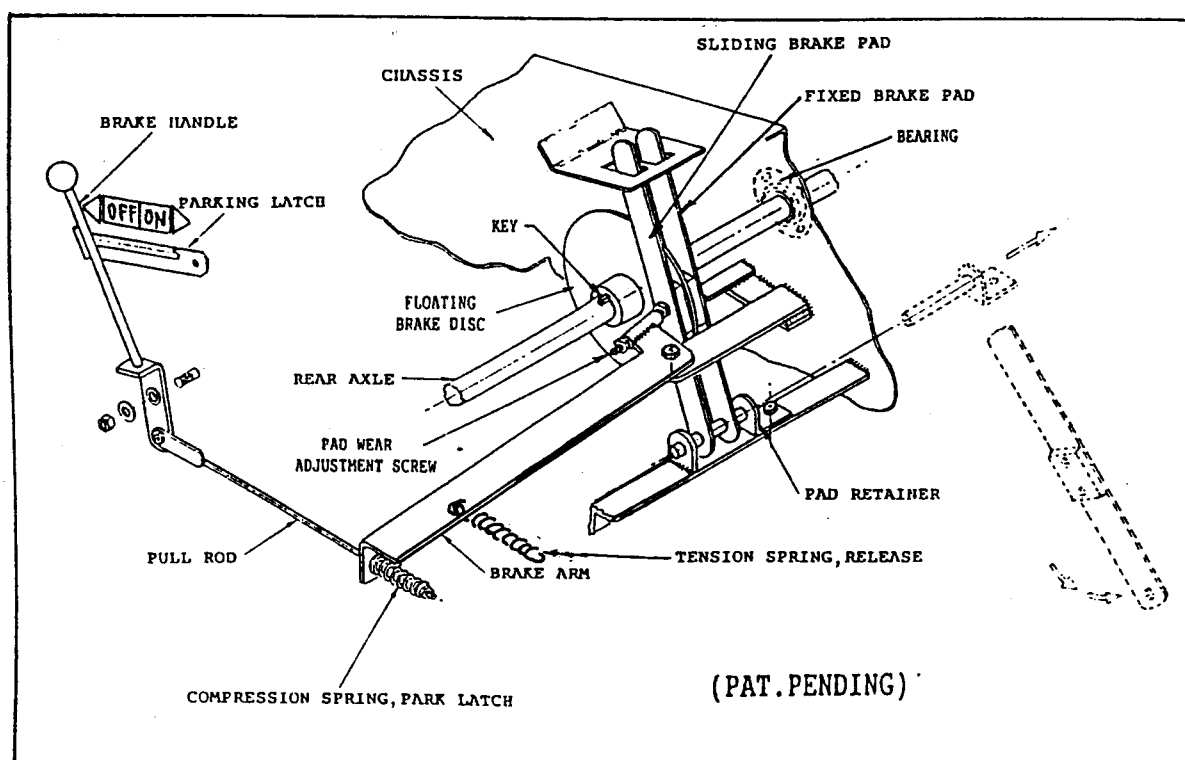
The adjusting screw is located on the brake arm and bears against the sliding brake pad. As the brake pads wear, the brake disc is free to slide along the axle against the fixed pad. This adjusting screw compensates for wear on both pads and at times will need to be adjusted as described below.

- (A) Remove the spark plug lead to prevent accidental starting.
- (B) Place the brake handle in the "OFF" position.
- (C) Loosen the locknut and screw out the adjusting screw until both pads are just lightly touching the brake disc and not binding
- (D) Tighten locknut while holding adjusting screw stationary.
- (E) Check that the brake disc rotates freely between the pads and replace the spark plug lead.

PAD REPLACEMENT

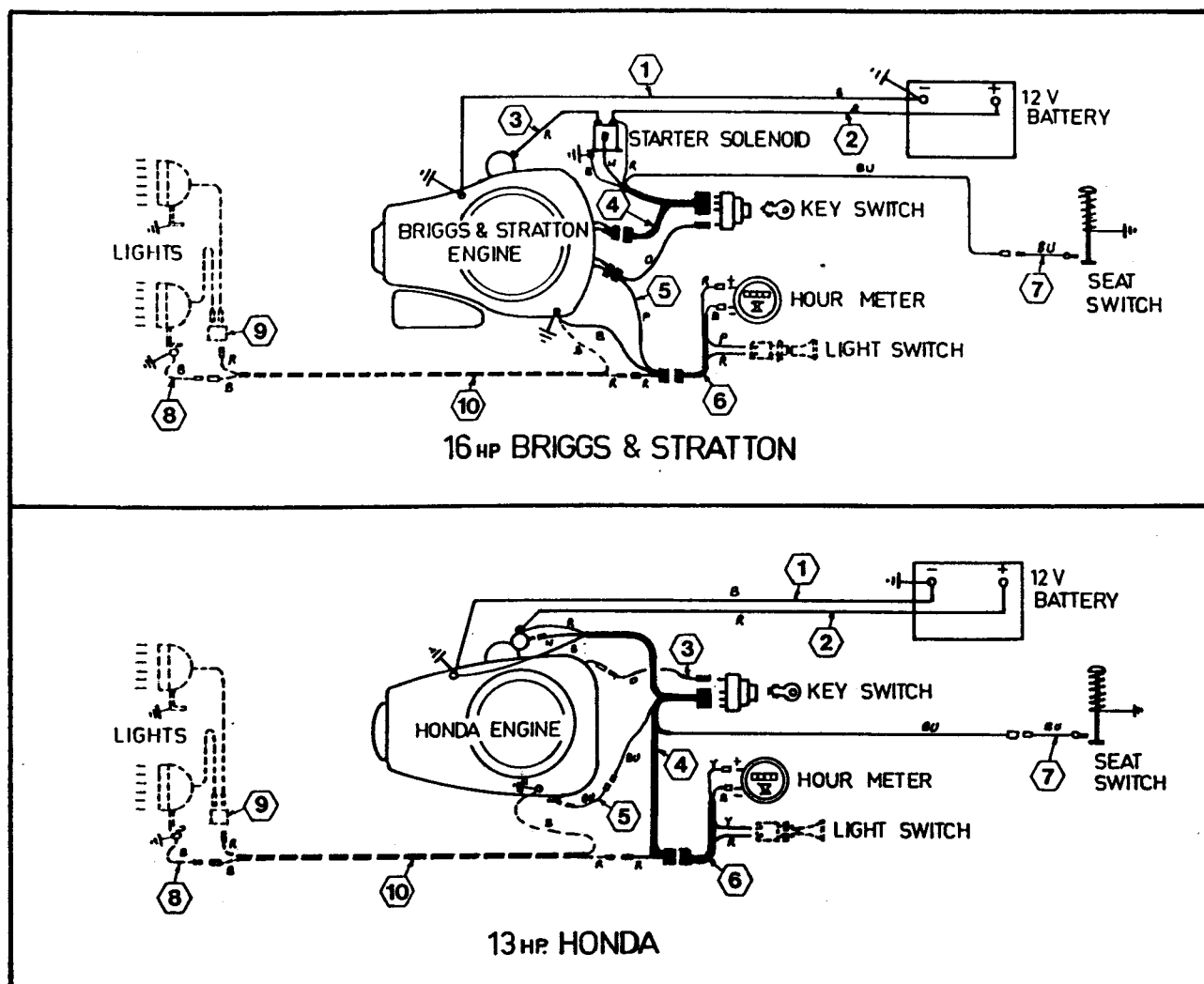
- (A) Remove the spark plug lead to prevent accidental starting.
- (B) Remove the pad retainer.
- (C) Remove both brake pads.
- (D) Loosen the locknut on the adjusting screw and screw in the adjusting screw. The new pads will be thicker.
- (E) Fit the two new brake pads.
- (F) Refit the pad retainer.
- (G) Re adjust the adjusting screw following steps "A" to "E" of "PARK BRAKE ADJUSTMENT". See illustration "L"
- (H) Oil all pivots, **DO NOT OIL BRAKE PADS OR DISC**

Illustration L



Electrical Circuits

15



16 HP Briggs & Stratton

13 HP Honda

INDEX	PART NO.	DESCRIPTION	INDEX	PART NO.	DESCRIPTION
1.	GT 14370	Black Cable - Batt.To Engine Ground	1.	GT 14370	Black Cable - Batt.To Engine Ground
2.	GT 6129	Red Cable + Batt.To Solenoid	2.	GT 20159	Red Cable + Batt.To Solenoid
3.	GT 14364	Red Cable Solenoid To Starter	3.	GT 14381	Orange Wire - Charging
4.	GT 20158	Harness - Key Switch	4.	GT 14382	Harness - Key Switch
5.	GT 14374	Harness - Charge And Ac Power	5.	GT 6142	Blue Wire - Engine Cut Out
6.	GT 14361	Harness - Cowl Instruments	6.	GT 14383	Harness - Cowl Instrument
7.	GT 12066	Blue Wire - Seat Switch	7.	GT 12066	Blue Wire - Seat Switch
8.	GT 6132	Black Wire	NOTE These wires are supplied with the Head Light Kit Part N° GT 15841		
9.	GT 6167	Connector			
10.	GT 14395	Harness			

COLOUR LEGEND

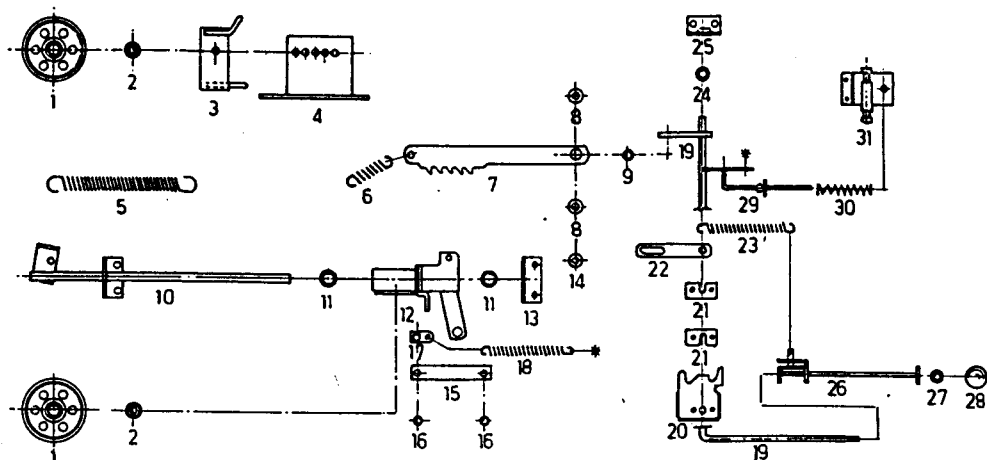
B - Black
 O - Orange
 P - Purple
 R - Red
 W - White
 Y - Yellow
 BU - Blue

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
STANDARD HARDWARE ITEMS ARE NOT SHOWN.

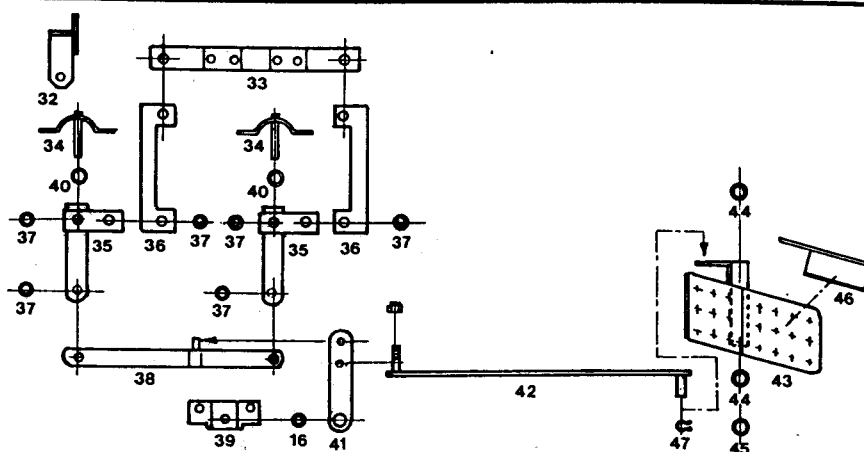
Linkages

16

CUTTER CLUTCH



DRIVE CLUTCH



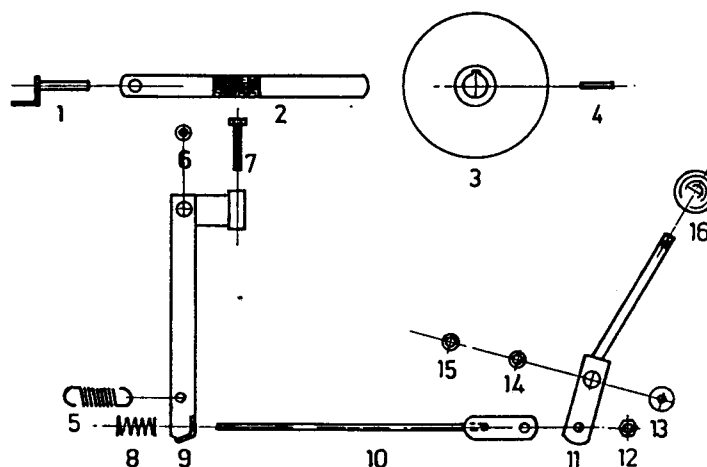
INDEX PART NO. DESCRIPTION

INDEX PART NO. DESCRIPTION

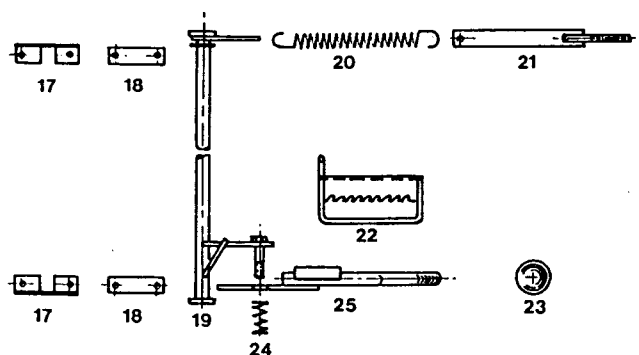
1.	GT 6901	V Pulley & Bearing Complete	25.	GT 12305	Bracket
2.	GT 6018	Bearing Adaptor	26.	GT 20420	Clutch Release Handle
3.	GT 20380	L.H. Belt Guide	27.	GD 5526	Bush
4.	GT 18855	Fixed Pulley Bracket Assembly	28.	GT 1565	Knob
5.	GT 20006	Spring - Belt Tension	29.	GT 18303	Cutter Brake
6.	GT 20012	Spring - Clutch Arm	30.	GT 12032	Spring - Compression
7.	GT 20375	Clutch Arm	31.	GT 19801	Cutter Brake Unit
8.	GT 2483	Brass Washer	32.	GT 18860	Steady - Clutch Yoke
9.	GT 20007	Brass Bush	33.	GT 13833	Yoke Unit
10.	GT 20365	Slide Rail Assembly	34.	GT 20395	Pivot Pin Assembly
11.	GT 1179	Bush	35.	GT 20405	Pivot Arm Assembly
12.	GT 20385	Sliding Bracket Assembly	36.	GT 14309	Clutch Link
13.	GT 20164	Bracket	37.	GT 2057	Retainer
14.	GT 1012	Washer	38.	GT 18785	F - R Link
15.	GT 14318	Bar (2 Required)	39.	GT 18337	Pivot Bracket
16.	GT 730	Bush	40.	GT 6061	Washer
17.	GT 5056	Tab - Spring	41.	GT 18318	Link
18.	GT 21004	Spring - Clutch Shaft Return	42.	GT 20390	FR Control
19.	GT 20425	Clutch Shaft Assembly	43.	GT 18945	Foot Pedal
20.	GT 20415	Latch - Cutter Clutch	44.	GT 12394	Bush
21.	GT 20427	Bearing Plate	45.	GT 580	Retainer (2 Required)
22.	GT 20428	Retainer	46.	GT 18328	Heat Shield
23.	GT 20015	Spring - Tension	47.	GT 137	Circlip
24.	GD 5525	Bush			

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
STANDARD HARDWARE ITEMS ARE NOT SHOWN.

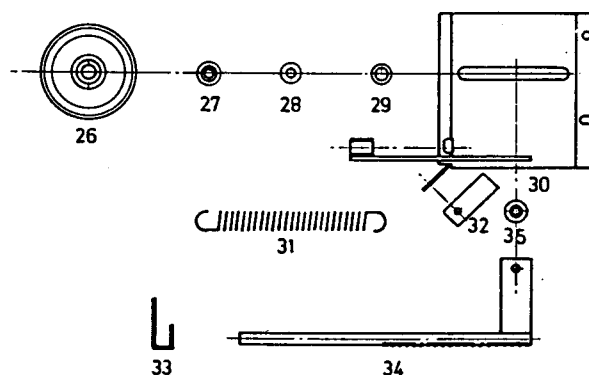
PARK EMERGENCY BRAKE



CUTTER HEIGHT



NOTCH BAR

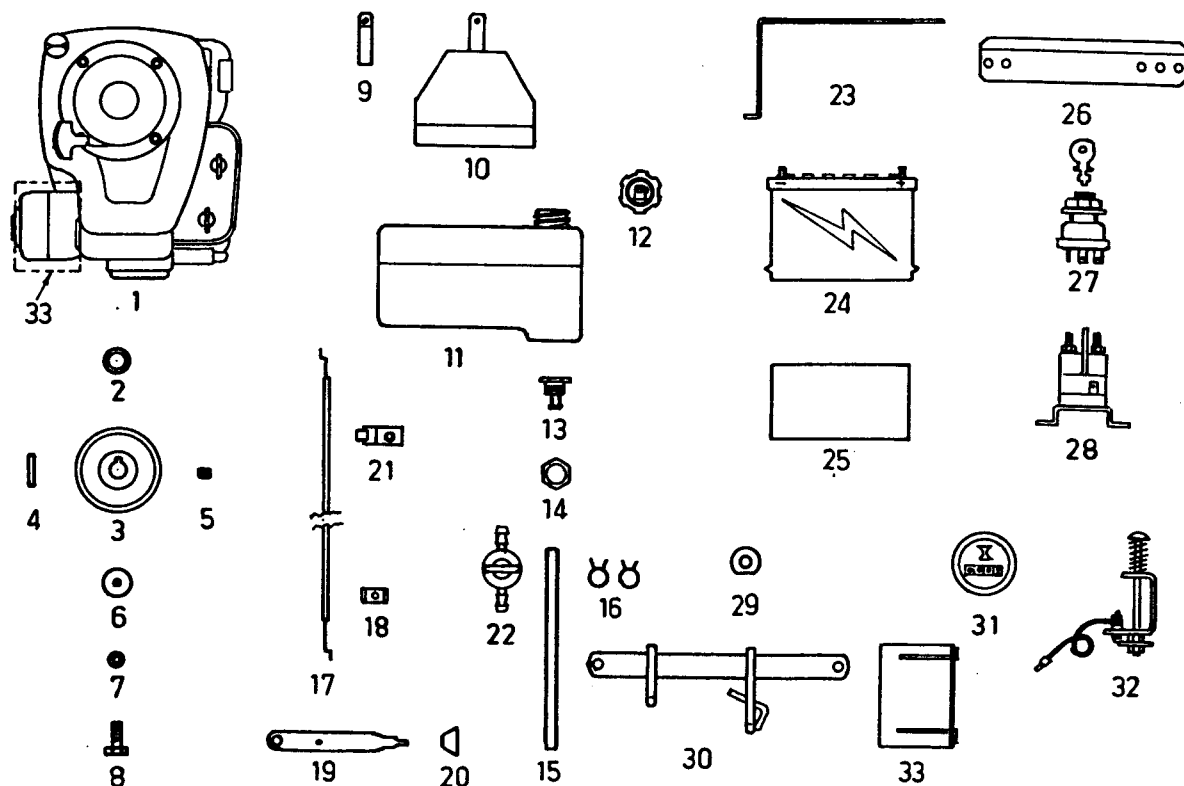


INDEX	PART NO.	DESCRIPTION	INDEX	PART NO.	DESCRIPTION
1.	GT 15270	Anchor - Brake Pads	19.	GT 18820	Height Adjust Shaft
2.	GT 19805	Brake Pad Unit	20.	GT 6030	Spring Tension
3.	GT 18660	Brake Disc	21.	GT 18775	Tensioner
4.	GT 12093	Key	22.	GT 18995	Height Adjust Rack
5.	GT 20009	Spring - Tension	23.	GT 1565	Knob
6.	GT 1851	Pivot Bush	24.	GT 7071	Spring - Compression
7.	GT 1137	Adjusting Screw	25.	GT 18705	Handle
8.	GT 18048	Spring - Compression	26.	GT 7965	Vee Pulley Complete
9.	GT 19005	Brake Arm	27.	GT 610	Bearing Adaptor
10.	GT 18805	Brake Rod	28.	GT 579	Wave Washer
11.	GT 18980	Brake Handle	29.	GT 18322	Washer
12.	GT 2466	Nyloc Nut	30.	GT 18760	Bracket
13.	GT 579	Wave Washer	31.	GT 1554	Spring - Tension
14.	GT 730	Pivot Bush	32.	GT 14023	Leaf Spring
15.	GT 14341	Washer	33.	GT 7308	Anchor - Spring
16.	GT 1565	Knob	34.	GT 18765	Notch Bar
17.	GT 18313	Pivot Bracket	35.	GT 608	Slide Bush
18.	GT 18314	Packer			

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
STANDARD HARDWARE ITEMS ARE NOT SHOWN.

Engine & Electrical

18



INDEX PART NO. DESCRIPTION

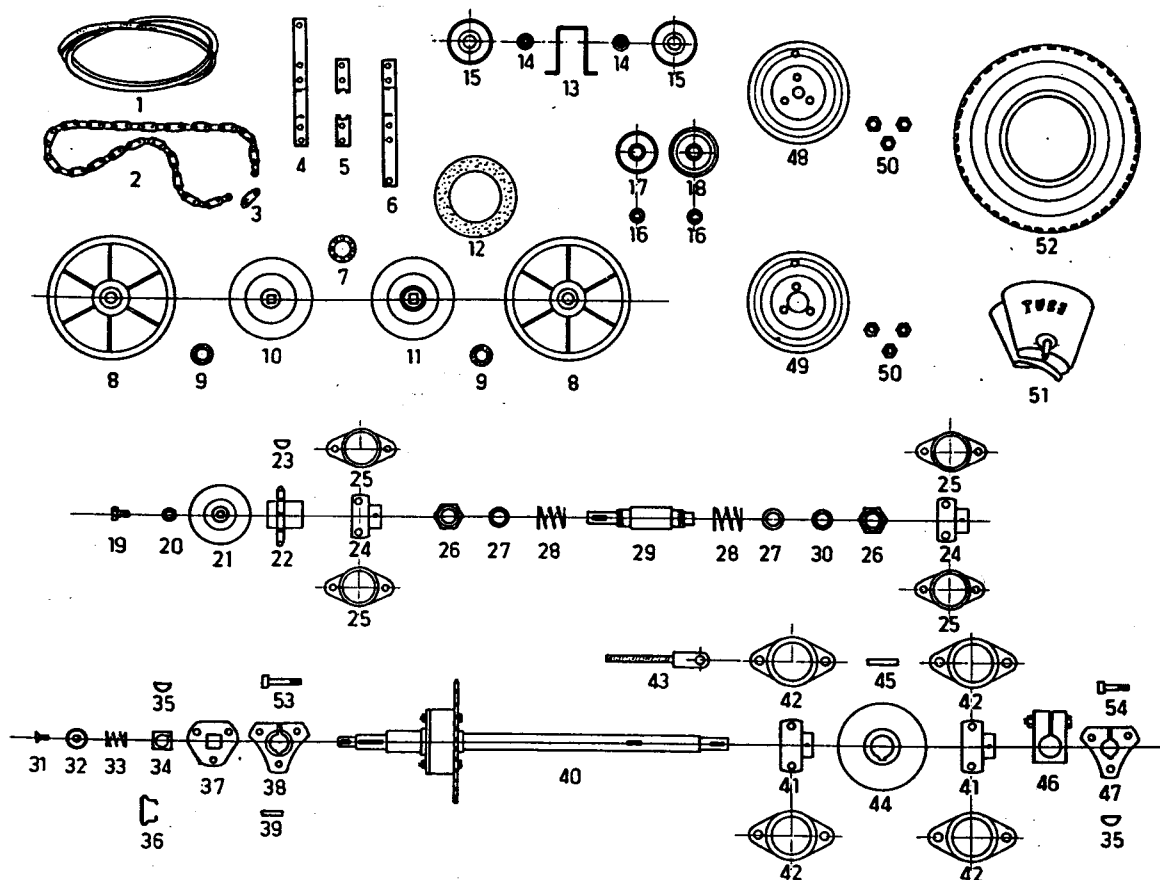
INDEX PART NO. DESCRIPTION

1.		Engine 16 HP OHV Briggs & Stratton	17.	GT 15817	Throttle Cable Unit Honda
1.		Engine 13 HP OHV Honda	18.	GT 1252	Cable Clamp
2.	GT 18047	Spacer - Crankshaft	19.	GT 20169	Throttle Lever
3.	GT 20003	Pulley - Engine	20.	GT 2025	Throttle Knob
4.	GT 14037	Key	21.	GT 14359	Bracket - Throttle Cable Honda Only
5.	GT 520	Grub Screw	22.	GT 2215	Fuel Tap - When Fitted
6.	GT 1750	Washer	23.	GT 14350	Battery Clamp
7.	GT 2021	Spring Washer	24.	GT 1914	Battery
8.	GT 1069	Bolt	25.	GT 14336	Rubber Mat - Battery
9.	GT 14323	Clamp - Fuel Tank	26.	GT 18321	Support - Electric Harness
10.	GT 18870	Support - Fuel Tank	27.	GT 2219	Off-On-Start. Key Switch
11.	GT 14001	Fuel Tank - Bare	28.	GT 2220	Starter Solenoid B&S only
12.	GT 6031	Cap - Fuel Tank	29.	GT 12345	Insulator + Positive Pole
13.	GT 10043	Hose Tail	30.	GT 20280	Belt Guide - Engine Pulley
14.	GT 10044	Nut - Hose Tail	31.	GT 6084	Hour Meter
15.	GT 14324	Fuel Hose	32.	GT 13831	Seat Safety Switch Unit
16.	GT 2024	Hose Clip	33.	GT 15180	Heat Shield 16 HP Only
17.	GT 20913	Throttle Cable Unit B&S			

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
STANDARD HARDWARE ITEMS ARE NOT SHOWN.

Drive Clutch & Rear Axle

19



INDEX PART NO. DESCRIPTION

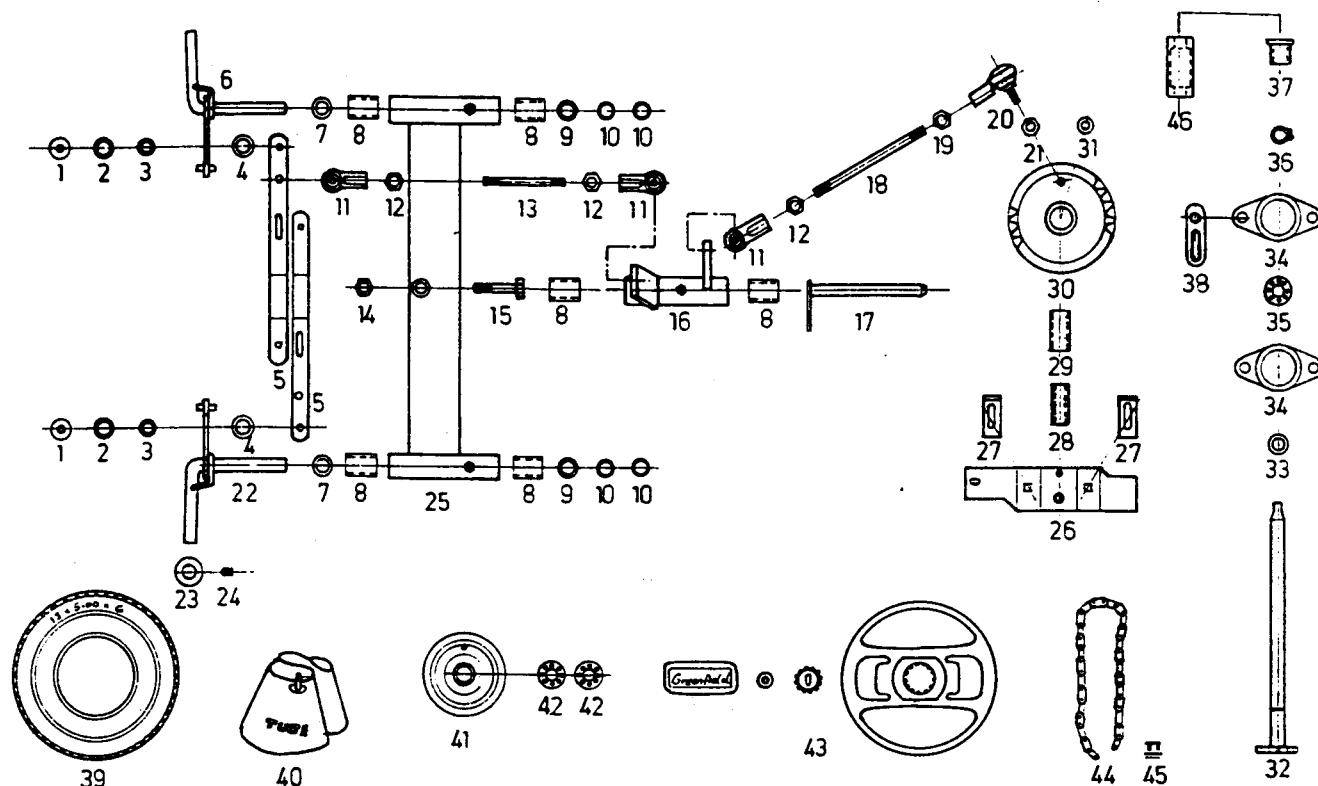
INDEX PART NO. DESCRIPTION

1.	GT 20005	V Belt - Drive	28.	GT 357	Spring
2.	GT 18006	Roller Chain	29.	GT 18031	Drive Shaft
3.	GT 501	Connecting Link	30.	GT 539	Shim
4.	GT 10620	Yoke Top Half	31.	GT 2425	Screw
5.	GT 12364	Retainer	32.	GT 10488	Spring Retainer
6.	GT 10630	Yoke Bottom Half	33.	GT 2958	Spring
7.	GT 855	Ball Bearing - Drive Plate	34.	GT 2956	Engagement Block
8.	GT 920	Clutch Pulley Complete	35.	GT 516	Key
9.	GT 2206	Ball Bearing - Clutch Pulley	36.	GT 2957	Handle
10.	GT 6855	L.H. Drive Plate (Reverse)	37.	GT 2955	Engagement Plate
11.	GT 6856	R.H. Drive Plate (Forward)	38.	GT 2954	Wheel Flange (Differential Side)
12.	GT 6012	Clutch Lining	39.	GT 2995	Key
13.	GT 18312	Bracket	40.	GT 2850	Rear Axle & Differential Unit
14.	GT 18050	Bearing Adaptor	41.	GT 390	Ball Bearing
15.	GT 1009	Flat Idler Pulley Unit (Metal)	42.	GT 7083	Flangette Plate
16.	GT 20004	Bearing Adaptor	43.	GT 18865	Chain Adjuster
17.	GT 6171	Flat Idler Pulley Unit (Poly)	44.	GT 18660	Brake Disc
18.	GT 14002	V Idler Pulley Unit (Poly)	45.	GT 12093	Key
19.	GT 1455	Set Screw	46.	GT 7032	Clamp
20.	GT 2052	Spring Washer	47.	GT 1625	Wheel Flange
21.	GT 18334	Disc - Chain Guard	48.	GT 1624	Wheel Hub Right Side
22.	GT 12111	11 Tooth Sprocket	49.	GT 2929	Wheel Hub Left Side
23.	GT 517	Key	50.	GT 2011	Wheel Nut
24.	GT 392	Ball Bearing	51.	GT 1535	Tube
25.	GT 7017	Flangette Plate	52.	GT 1203	Tyre
26.	GT 347	Nut	53.	GT 2478	Cap Screw H.T.
27.	GT 7303	Washer	54.	GT 2015	Cap Screw H.T.

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
STANDARD HARDWARE ITEMS ARE NOT SHOWN.

Steering & Front Axle

20



INDEX PART NO. DESCRIPTION

INDEX PART NO. DESCRIPTION

1.	GT 10488	Cup
2.	GT 534	Felt Seal
3.	GT 10037	Pivot Bush
4.	GT 10038	Nylon Washer
5.	GT 18323	Tie Rod
6.	GT 18920	R.H. King Pin
7.	GT 2018	Washer
8.	GT 12394	Bush
9.	GT 7304	Washer
10.	GT 580	Retainer
11.	GT 1626	Tie Rod End
12.	GT 78	Lock Nut
13.	GT 18055	Rod - Drag Link
14.	GT 2042	Nut
15.	GT 2476	Bolt
16.	GT 18990	Steering Crank
17.	GT 18645	Pivot Pin
18.	GT 20010	Rod - Steering Link
19.	GT 2406	Lock Nut
20.	GT 6044	Tie Rod End
21.	GT 2090	Nyloc Nut
22.	GT 18925	L.H. King Pin
23.	GT 7009	Collar
24.	GT 520	Grub Screw

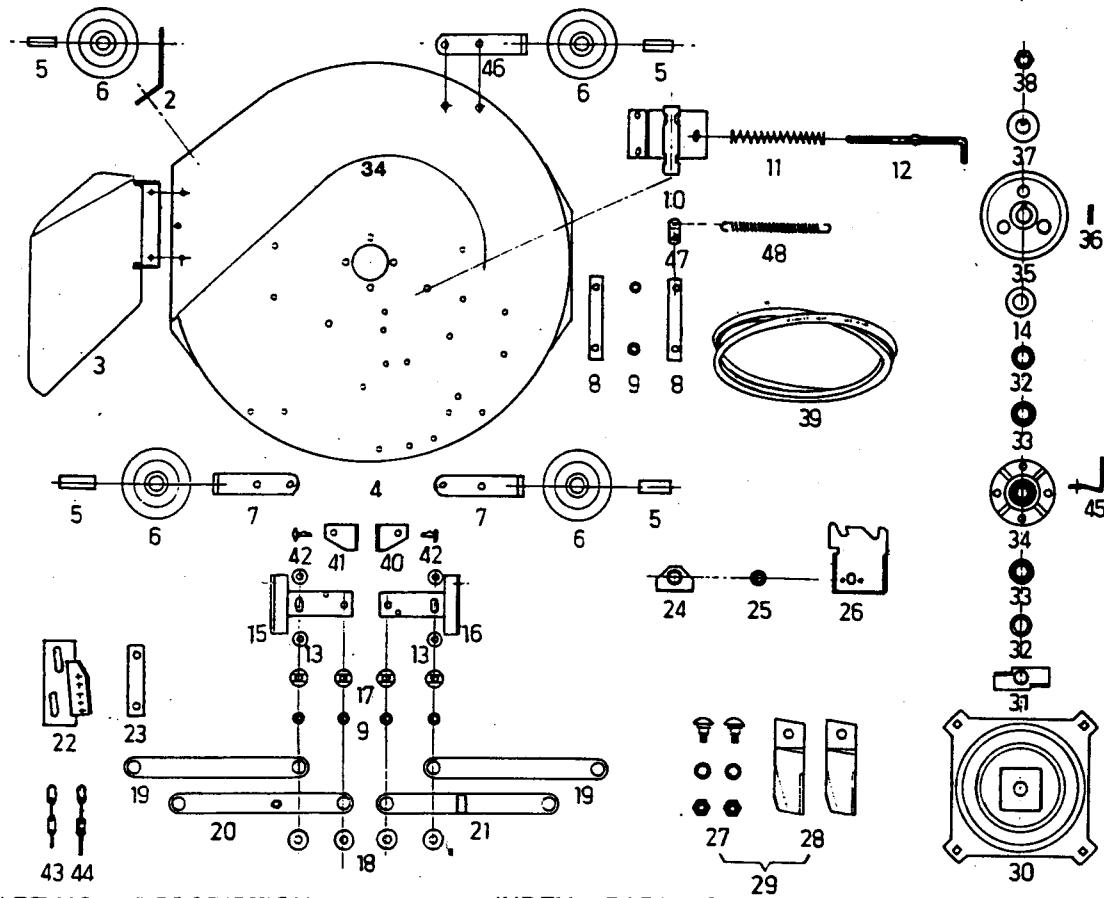
25.	GT 18750	Front Axle Beam
26.	GT 18316	Support
27.	GT 18317	Stops - Adjustable
28.	GT 12110	Sleeve
29.	GT 12407	Bush
30.	GT 13265	Chain Wheel
31.	GT 2483	Brass Washer (Each Side of Chain Wheel)
32.	GT 18880	Steering Shaft
33.	GT 18037	Spacer
34.	GT 7017	Flangette Plate
35.	GT 7010	Ball Bearing
36.	GT 2470	Circlip
37.	GT 1766	Bush
38.	GT 18324	Locking Tab
39.	GT 455	Tyre
40.	GT 456	Tube
41.	GT 7007	Wheel
42.	GT 396	Ball Bearing
43.	GT 2212	Steering Wheel Complete
44.	GT 13813	Roller Chain Complete
45.	GT 504	Connecting Link
46.	GT 20918	Cover - Steering Shaft

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

STANDARD HARDWARE ITEMS ARE NOT SHOWN.

Cutter Deck 34"

21



INDEX PART NO. DESCRIPTION

INDEX PART NO. DESCRIPTION

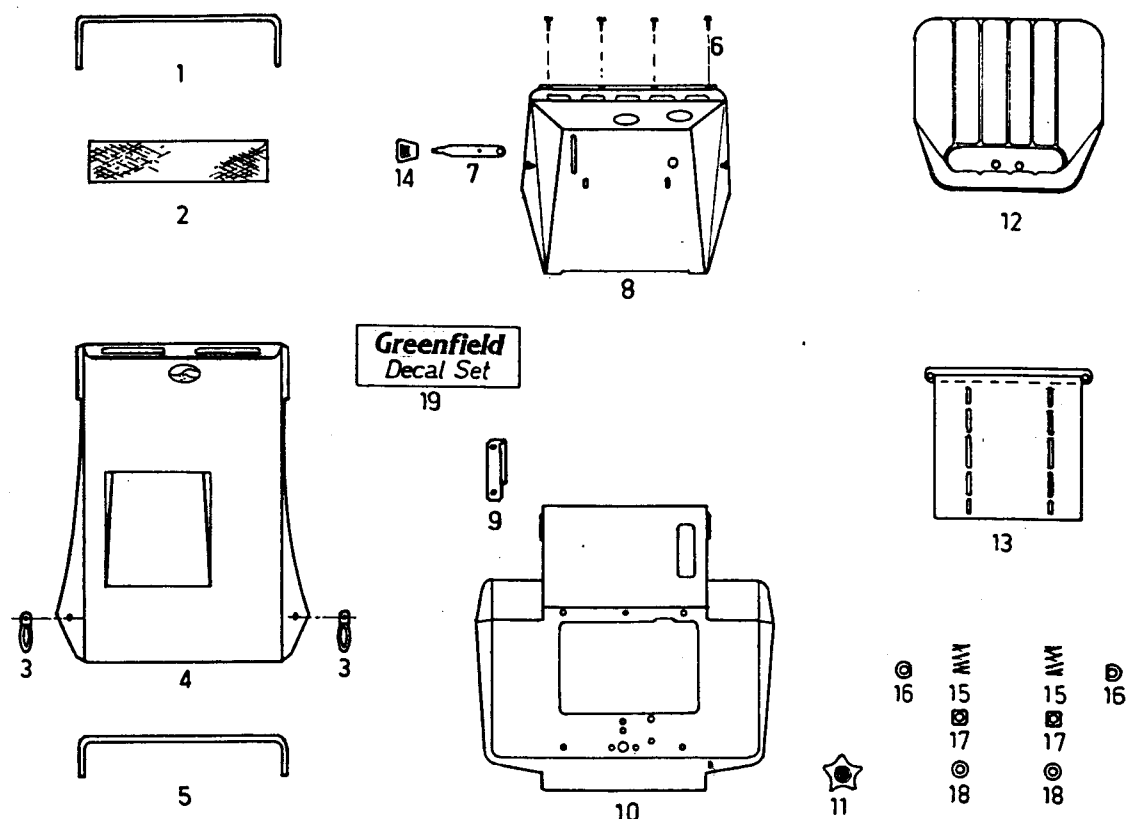
1.	GT 20916	Cutter Deck Unit Complete *	25.	GD 5525	Bush
2.	GT 20165	Bracket	26.	GT 20415	Latch - Cutter Clutch
3.	GT 20410	Stone Guard	27.	GT 2110	Blade Bolt Set
4.	GT 20162	Cutter Deck 34"	28.	GT 2138	Blade Set
5.	GT 8501	Bush	29.	GT 2139	Blade And Bolt Set
6.	GT 12010	Jockey Wheel	30.	GT 20285	Disc & Spindle
7.	GT 12362	Bracket	31.	GT 8205	Bearing Protector
8.	GT 14318	Bar	32.	GT 635	Spacer
9.	GT 730	Bush	33.	GT 589	Shield
10.	GT 19801	Cutter Brake Unit	34.	GT 13815	Spindle Housing Unit Complete
11.	GT 12032	Spring - Compression	35.	GT 14044	Pulley
12.	GT 18303	Cutter Brake Rod	36.	GT 14047	Key
13.	GT 1567	Spring Washer	37.	GT 14390	Tab Washer
14.	GT 7303	Washer	38.	GT 2003	Nut M20 L.H.
15.	GT 18955	L.H. Side Plate	39.	GT 18005	V-Belt Cutters
16.	GT 18955	R.H. Side Plate	40.	GT 7115	R.H. Bracket
17.	GT 579	Wave Washer	41.	GT 7114	L.H. Bracket
18.	GT 1012	Washer	42.	GT 1760	Nylon Button
19.	GT 18966	Bottom Link	43.	GT 12346	L.H. Lifting Chain
20.	GT 18835	L.H. Top Link	44.	GT 18975	R.H. Lifting Chain
21.	GT 18965	R.H. Top Link	45.	GT 18054	Belt Guide
22.	GT 18855	Fixed Bracket	46.	GT 20166	Bracket
23.	GT 13280	Bolt Retainer	47.	GT 5056	Tab - Spring
24.	GT 12305	Bracket	48.	GT 21004	Spring - Tension

* GT 20916 Cutter Deck Unit. This unit consist of all items show on this sheet with the exception of items #39, 40, 41 and 42 assembled and bolted onto the cutter deck and includes cutter clutch items shown on page 14.

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
STANDARD HARDWARE ITEMS ARE NOT SHOWN

Body Work & Seat

22



INDEX	PART NO.	DESCRIPTION	INDEX	PART NO.	DESCRIPTION
1.	GT 20160	Pinchweld Front	11.	GD 5545	Knob - Rear Cover
2.	GT 20155	Grille	12.	GT 8064	Seat
3.	GT 7015	Strap - Bonnet hold down	13.	GT 13480	Hinged Seat Base
4.	GT 20350	Bonnet	14.	GT 2025	Knob - Throttle
5.	GT 20161	Pinchweld Rear	15.	GT 14050	Spring
6.	GT 6094	Buffer Grommet	16.	GT 10452	Clamp
7.	GT 20169	Throttle Lever	17.	GT 10451	Locating Block
8.	GT 20310	Steering Cowl	18.	GT 1660	Washer
9.	GT 18336	Latch - Park Brake	19.	GT 20910	Decal Set Briggs & Stratton
10.	GT 18670	Rear Cover		GT 20911	Decal Set Honda

NOTE BODY PANELS ARE BARE ITEMS PAINTED.

PARTS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

STANDARD HARDWARE ITEMS ARE NOT SHOWN.

GUARANTEE

Greenfield Products Pty Ltd the manufacturer guarantee their product free of faulty workmanship and material for a period of 12 months for domestic use, 3 months for commercial use. Engines and batteries used on Greenfield mowers carry the respective manufacturers warranty.

For details of the special Greenfield 3 year extended warranty plan ask your Greenfield Dealer.

This Guarantee will not apply to:

- * Fair wear and tear, V Belts, Tyres, Tubes, Blades and Blade Bolts, blade holder, and damage caused by misuse, neglect and accidents.
- * Repairs rendered necessary or arising from use of other than genuine Greenfield parts, or the relevant genuine engine manufacturers parts.
- * Any work performed by other than an authorised Greenfield dealer, or damages arising therefrom or parts that have been tampered with or dismantled.

Products or parts considered faulty should be returned intact to the authorised Greenfield dealer, or direct to Greenfield with all necessary information, freight paid for inspection. In all warranty claims the manufacturers decision is final and binding.

The benefits conferred by the above guarantee are in addition to all other rights and remedies in respect of the product which the consumer has under existing laws in Australia and New Zealand.

Greenfield Products Pty Ltd, the manufacturer reserves the right to change parts and specifications without notice.

Guarantee Registration Details

Owner _____

Address _____

Postcode _____

Purchase Date _____ Model _____

Chassis No. _____ Engine No. _____

Dealer Name _____

Dealer Signature _____

Please complete this record which should be held by the purchaser and presented should service under guarantee be required. To register your guarantee please complete the enclosed guarantee card and return to Greenfield Products.

Greenfield Products Pty Ltd
172 Ingram Rd, Acacia Ridge, Qld 4110
P.O. Box 155 Archerfield Qld Australia 4108
Fax (07)3344 1161 Phone (07)3345 6100