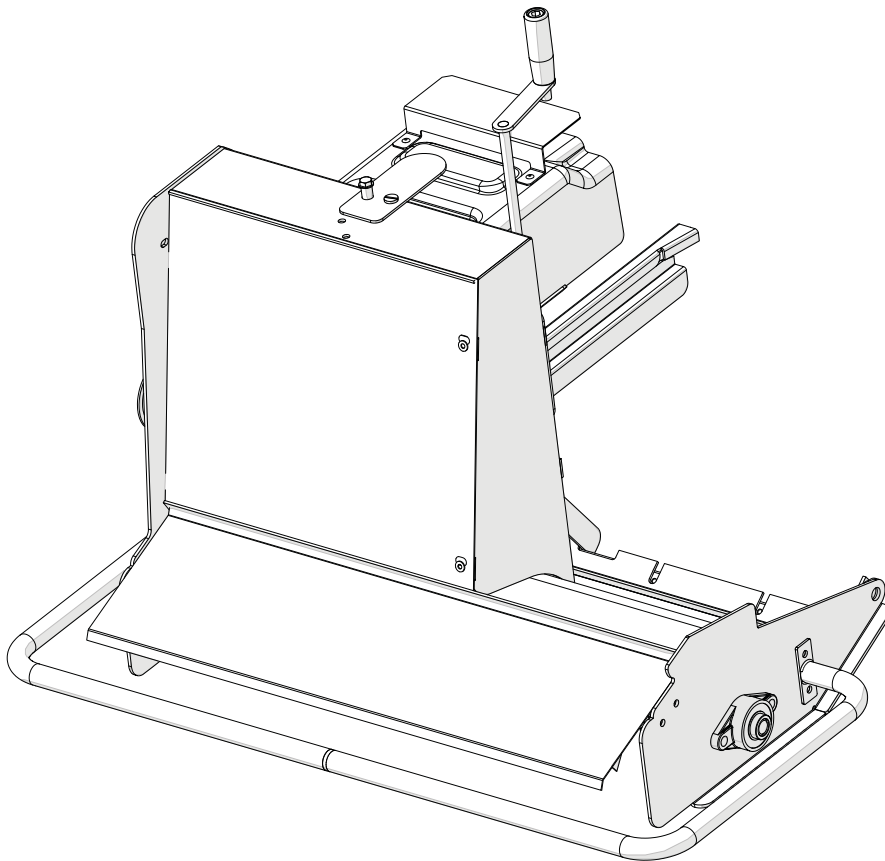


Operator's Manual

Powered Lawn Scarifier



Safety Instructions & Information – Powered Scarifier

Certificate of Conformity

The manufacturer, herewith declares the product conforms with the standards shown within.

POWERED SCARIFIER

Conforms to Article 8 of Machinery Directive 98/37/EC. The manufacturer declares that this machine conforms to EC Essential Health and Safety Requirements.

Manufacturer: Ariens Company Ltd

Address: Countax House, Hasely Trading Estate, Great Hasely, Oxon, OX44 7PF

Date of Declaration: 13.04.15

YOU MUST FULLY READ THESE SAFETY INSTRUCTIONS INCLUDED IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE THIS POWERED SCARIFIER. WE WILL ACCEPT NO RESPONSIBILITY FOR LOSS OR DAMAGE RESULTING FROM THE IMPROPER USE OF THIS MACHINE. CARELESS OR IMPROPER USE MAY CAUSE SERIOUS OR EVEN FATAL INJURY.

Mandatory safety instructions for the use of the Powered Scarifier

1. Read the instructions carefully. Be familiar with the controls and use of the equipment.
2. Never allow children or people unfamiliar with these instructions to operate the machine.
3. Never scarify while people, especially children or pets are nearby.
4. The operator or user is responsible for accidents or hazards occurring to other people or their property.
5. Remove the key to the tractor and keep safe when working or connecting the Powered Scarifier.

Operation

1. When operating the machine, always wear substantial footwear and long trousers.

2. Thoroughly inspect the area to be scarified and remove all stones, sticks, wires, bones and any other foreign objects.
3. Before using, always check the Scarifier for any loose nuts or bolts and check that the machine is in a safe working condition.
4. **ALWAYS OPERATE WITH THE SAFETY FRAME SECURELY ATTACHED TO THE SCARIFIER.**
5. Do not attempt to use the Scarifier on a steep slope.
6. Always run the Scarifier with the Tractor's engine set to maximum revs.
7. Before leaving the operators position.
 - Disengage the PTO drive to the Scarifier.
 - Stop the Tractor and apply the Parking Brake.
 - Stop the engine and remove the ignition key.
8. Disengage drive to the Scarifier when not in use.
9. Never work on the Scarifier when the Tractor is still running and the Scarifier is still attached.

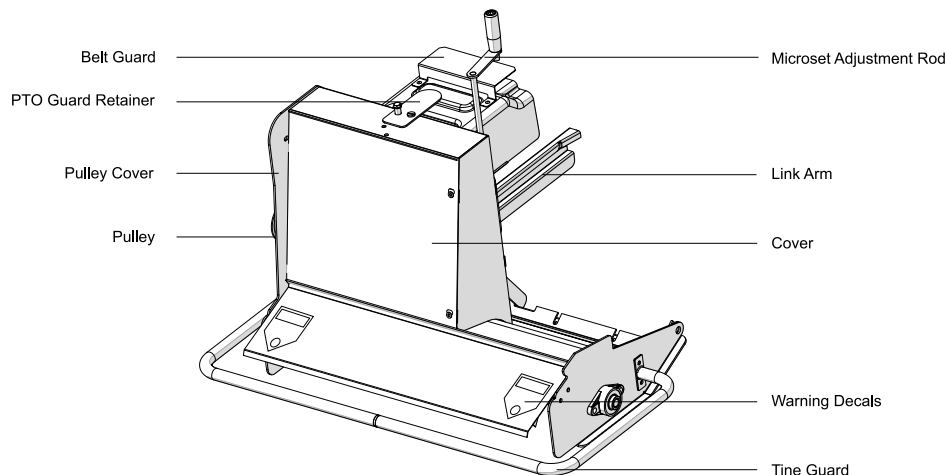
Your Powered Scarifier is built to a similar specification to that of very expensive professional units and should therefore be used with care. For best results after scarification re-fit the Powered Sweeper to collect the resultant thatch from your lawn.

Why scarify?

Scarifying and aeration are among the most important factors in lawn-care and are pre-requisites for the promotion of a healthy lawn. Within a season a lawn will develop a thatch from dead growth, residual cut grass and even from some types of grass flat growth shoots. The thatch becomes thick enough to prevent nutrients, water and oxygen reaching the grass roots. The results are noticeable in the appearance of a brownish coloured lawn, a weak root system, poor growth and the lack of ability to withstand disease, drought and the onslaught of weeds.

When to scarify

Your lawn can basically be scarified any time during the lawn grooming season (March to October) depending on weather conditions. During this period the grass plants are growing vigorously and able to re-generate quickly, thus covering any bare patches. Ideally the lawn surface should be dry for scarifying, and the lawn should be cut prior to treatment. Late scarifying helps avoid disease setting in the lawn over the winter months.



Assembly – Powered Scarifier

Please Note:

Your Scarifier top shaft assembly is pre-set for Countax C Series and Westwood S and T Series tractors*. Refer to separate section below for fitting to an A20/50, Diesel or K18/50 tractor.

* only fits post December 2000 Westwood tractors

Assembly

Although most assembly has been done at the factory, your Powered Scarifier requires minor assembly before it can be used. Use proper hand tools for assembling the unit. Never use tools such as adjustable open-end spanners or grips that can slip off.

Countax Assembly

Your Powered Scarifier is designed to fit all models of Countax tractors (excludes Rider models). The machine is supplied with the drive shaft assembly in the lower position, correct for fitting to C Series tractors

For connection to C Series and pre-2000 K Series tractors:

You will find enclosed 2x link arm assemblies together with 4x bolts.

- For tractors built before November 1996, these arm assemblies need to be located so that the rotating arm locks face outwards (see fig 1).
- For post November 1996 tractors, the arms locks must be facing inwards. To achieve this, simply swap the arms from left to right or vice versa.
- Remove the rear cover to gain entrance to the inside shaft housing.
- Secure arm assemblies in the lower set of holes using the nuts and bolts provided.
- Replace the rear cover.

For connection to A20/50, D18/50 and K18/50 tractors:

You will find enclosed 2x link arm assemblies together with 4x bolts.

- These arms locks must be facing inwards. To achieve this, simply swap the arms from left to right or vice versa.
- Remove the rear cover to gain entrance to the inside shaft housing.
- Secure arm assemblies in the higher position using the nuts and bolts provided.

You will now need to change the height of the drive shaft from the lower set of holes to the higher set.

- Remove the belt cover by accessing the bolt from the inside of the drive housing (fig 7).
- With the belt guard removed, slacken the idler pulley assembly and slip the belt off (the present belt size A38, this must be replaced with a A43 – obtained from your supplying dealer).
- Unbolt the shaft support blocks (fig 6), and relocate them in the upper holes.
- Fit the new belt over the pulleys and tension the belt by positioning the pulley appropriately and tighten (fig 7).
- With the unit off the ground, ensure that the assembly rotates freely.
- Re-fit the belt guard and drive housing housing (fig 7).
- Replace the rear cover.

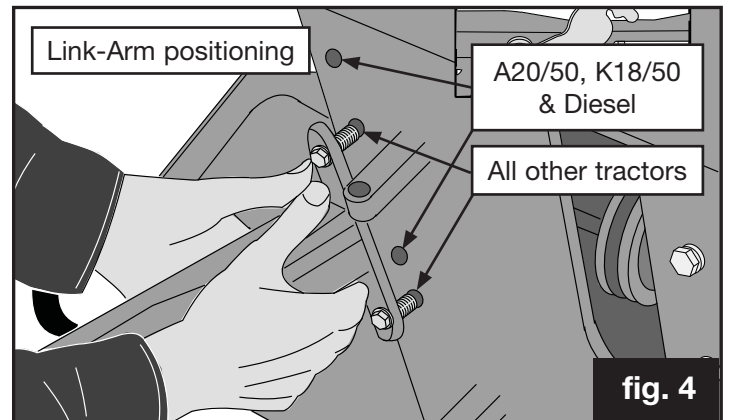
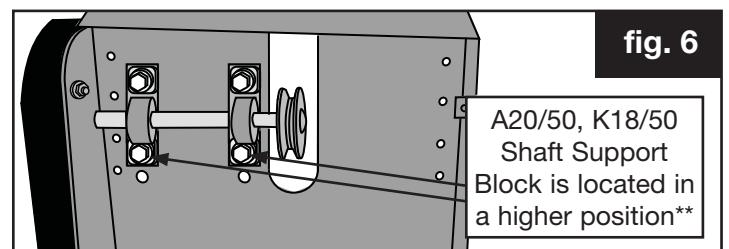
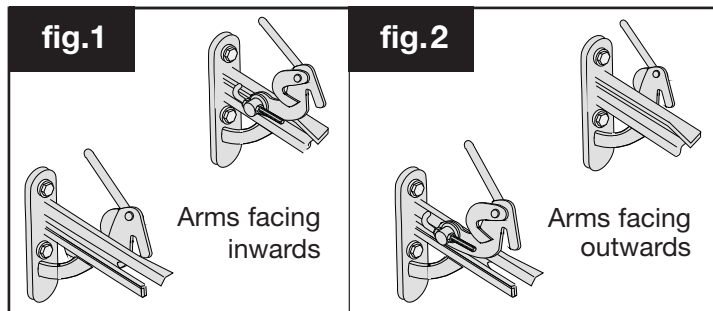
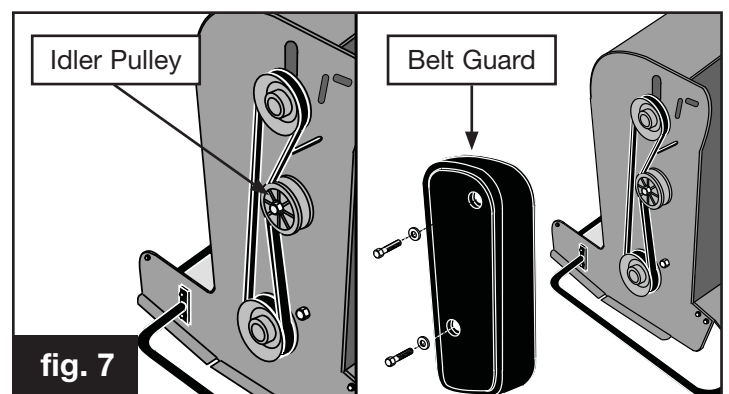
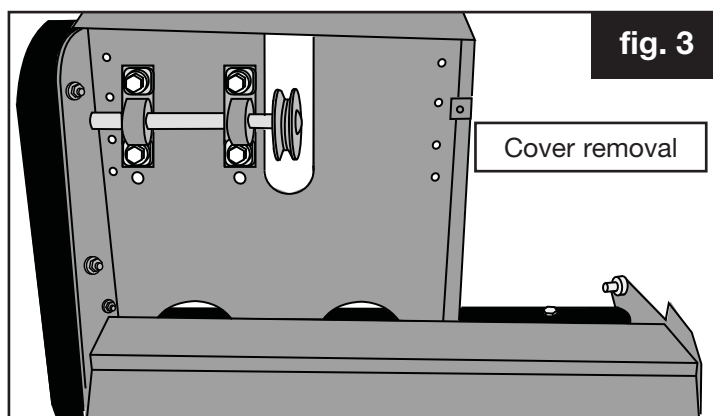


fig. 4



** C Series and Westwood S and T series shaft support block is located in the lower position



Assembly – Powered Scarifier

Westwood Assembly

Your Powered Scarifier is designed to fit all models of Westwood tractors built after December 2000. The Scarifier will NOT fit models built prior to this date. For connection to S and T Series tractors:

You will find enclosed 2x link arm assemblies together with 4x bolts.

- These arm assemblies need to be located so that the rotating arm locks face outwards (see figure 1).
- Remove the rear cover to gain entrance to the inside shaft housing (fig 3).
- Secure arm assemblies in the lower set of holes using the nuts and bolts provided (fig 4).
- Replace the rear cover.

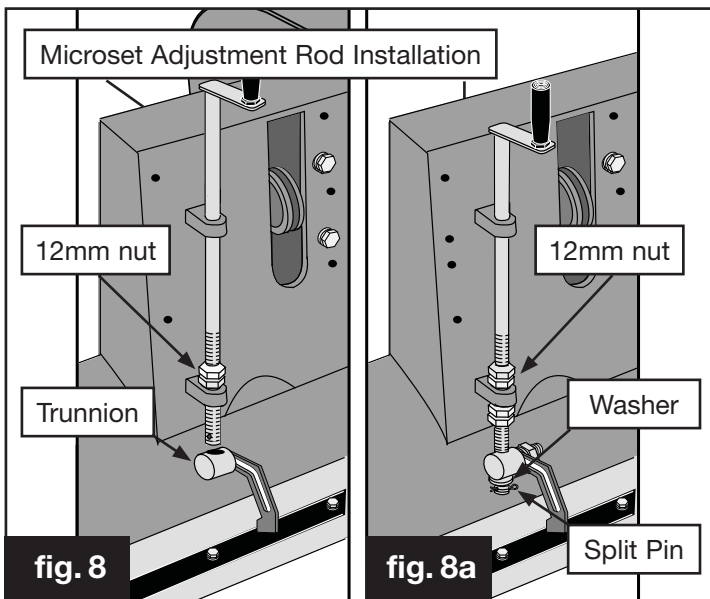
For connection to V20/50 tractor: (non HE models)

Repeat instructions above, but exchange the Scarifier to tractor drive belt to a A60 belt.

Microset Adjustment Rod (fig 8)

Now fit the Microset Rod as illustrated in figures 8 and 8a.

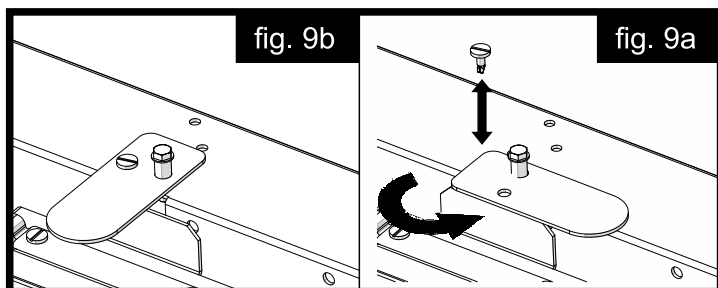
- First pass the rod through the securing bracket.
- Wind on two 12mm nuts onto the thread of the bar.
- Pass the rod through the adjustment Trunnion, winding the handle until the bar is visible from the underside of the Trunnion.
- Place a washer on the rod and secure using a split pin.
- Tighten up the four nuts.



PTO Guard Retainer (only for A&D Series)

*Remove the guard retainer for use with C, S & T, Series.

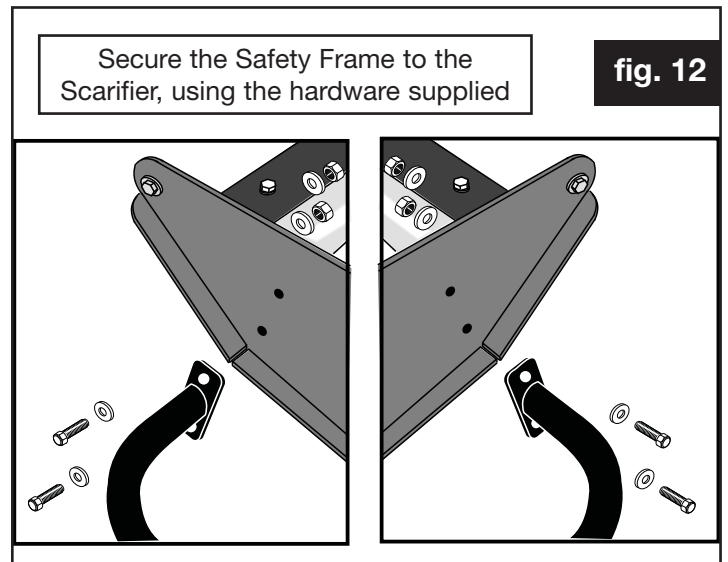
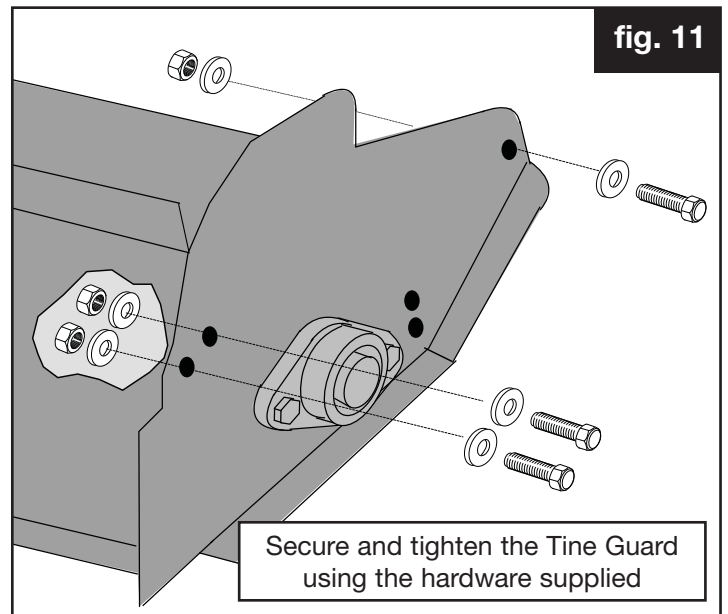
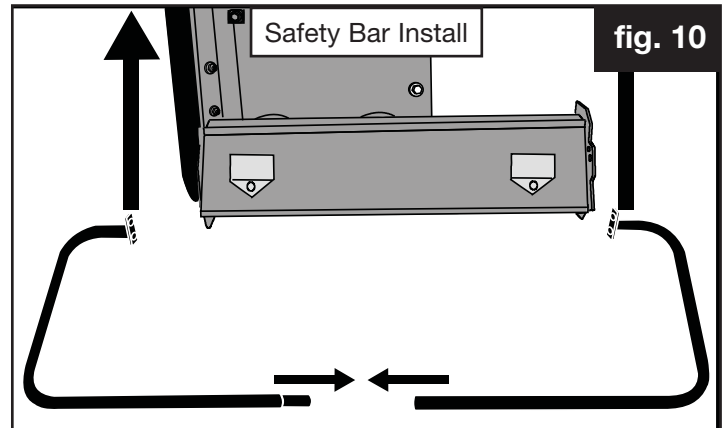
1. Remove 1/4 turn screw Turn guard retainer 90 degrees.(fig.9a).
2. Drop the tractor PTO plastic guard. 3. Return Guard retainer to original position and fasten the 1/4 turn. (fig.9b)



Assembly of the Safety Frame (fig 10)

Before attempting to use your Powered Scarifier, please be sure to fit the two piece safety bar to your machine.

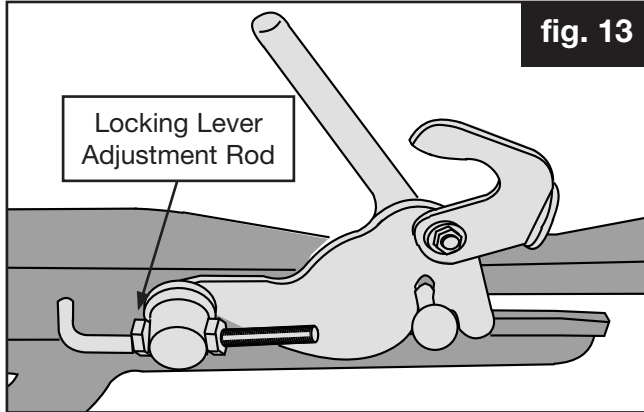
First remove the two nuts from the bolts installed in the end of the frame bracket (fig 11), locate the bolts into the side frame of the Scarifier and refit washers and nuts (leave loose at this time). Remove nuts and washers to the second section and before locating them; push the tube into the end of the one already fitted (fig 12). Then locate the bolts into the side frame, fit nuts and this time tighten all four.



Connecting to your tractor – Powered Scarifier

Connecting to your tractor (fig 13)

To connect your Powered Scarifier to the Tractor, ensure both are on an even surface with the locking levers facing the Tractor's trailing arms. The trailing arms should be in the lowest position. At the end of each trailing arm you will find a locating lug. Slide the channels on either side of the Powered Scarifier over the lugs but do not engage the locking lever.



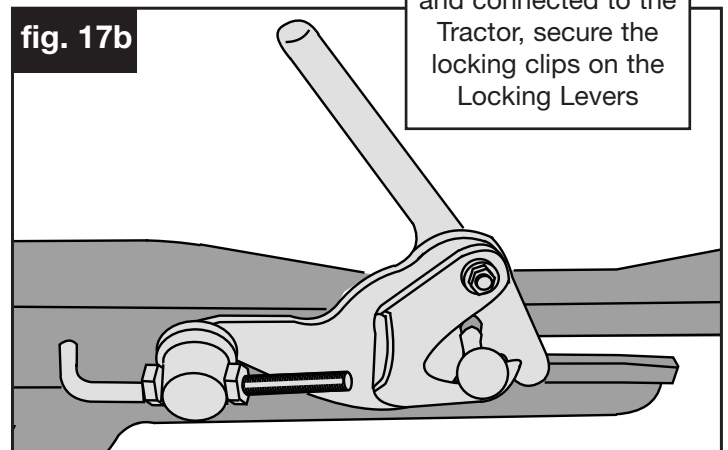
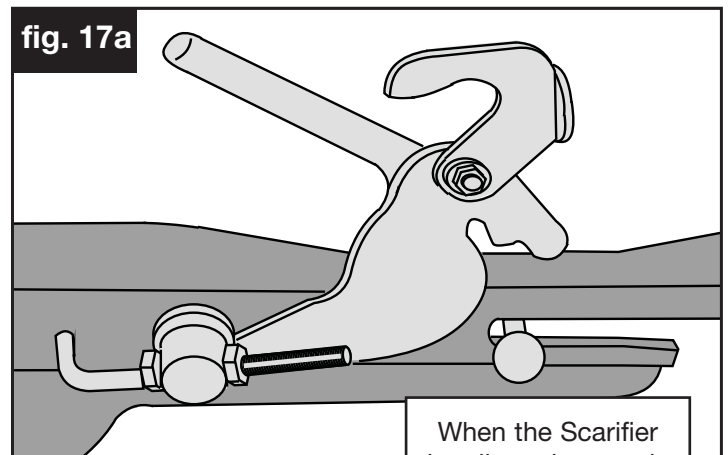
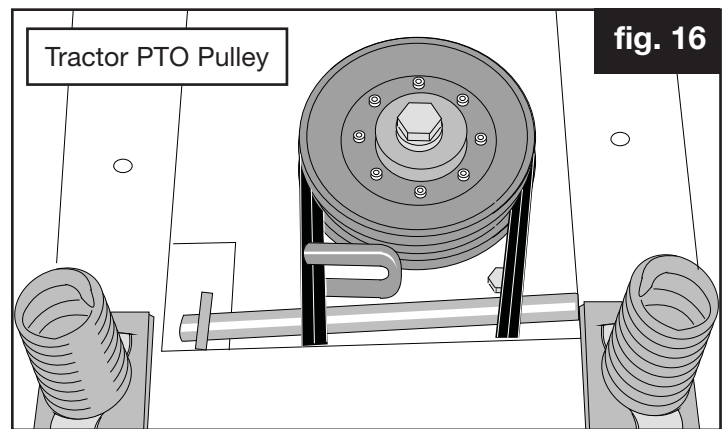
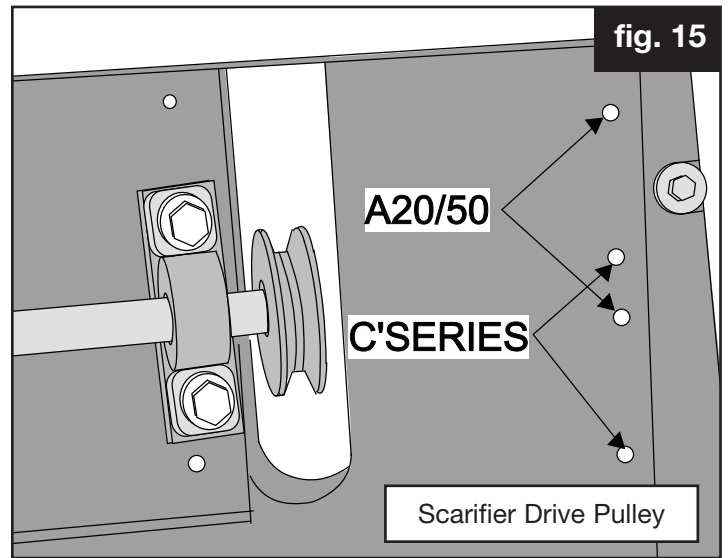
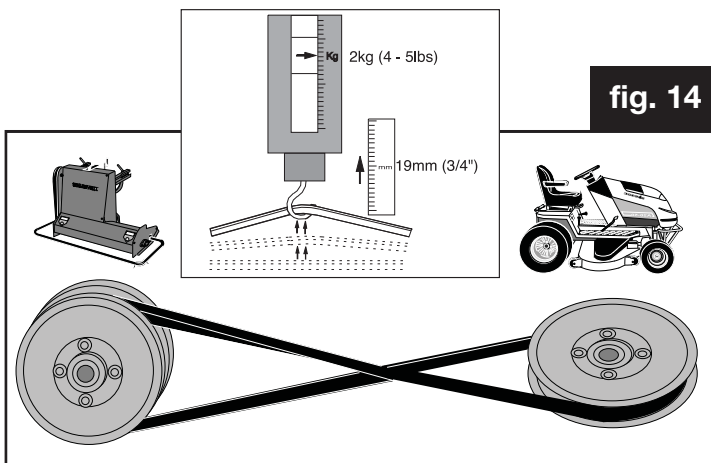
Installing the Drive Belt

Place the Drive Belt (A56 belt for MK4 C Series, S and T Series, A230D & A25-50 models, or A60 for A20/50, V20/50 non HE. A55 belt for MK3 C,S,& T series) over the PTO pulley. Both A55 & A56 are compatible with A25-50 and A230D models

Please Note:

On older Countax Models, the existing PTO Pulley will need replacing with an A5 Pulley and Sweeper modification kit, please contact your supplying dealer if so required.

When Scarifier is in the up position, install the belt as shown in fig 14, 15, and 16. Be sure it is fitted the right way round, as the Scarifier will become ineffectual. To tension the drive belt, engage the locating levers and check the tension of the drive belt. There should be 19mm (3/4") deflection with light finger pressure 2kgs (4-5lbs) at a midpoint between the Tractor pulley and the Scarifier pulley (see fig 14). To adjust the belt tension, slacken the nuts on the locking lever adjuster rods. Adjust as required by either turning the rear nuts anti-clockwise and then the forward nut to tighten, or vice-versa (fig 13).



Operation – Powered Scarifier

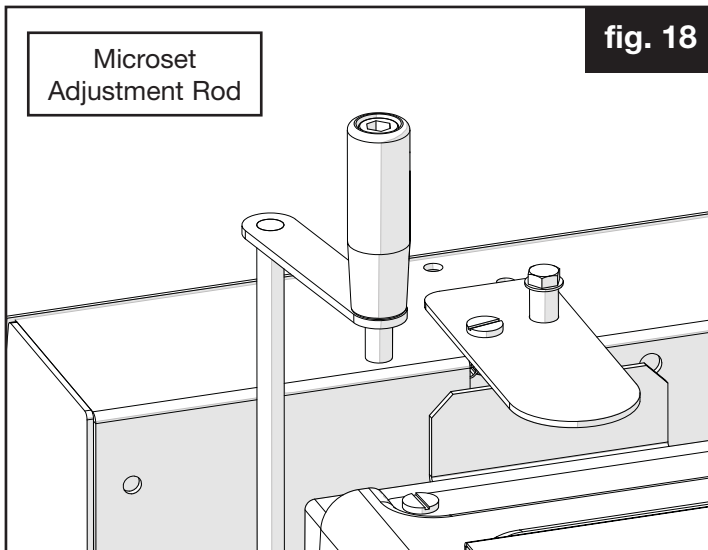
Operation

Ideally, carry out scarification in dry conditions and after the grass has been recently cut and collected.

Before you use your Powered Scarifier, first clear the lawn area to be treated, of debris, large stones, hoses and dog bones etc. Also note the position of immovable objects such as surface tree roots, drain covers etc.

You will note that your Scarifier unlike the Sweeper is offset, this allows you to scarify to the edge of the lawn and around flowerbeds. Before use, determine the most convenient direction in which to operate the unit.

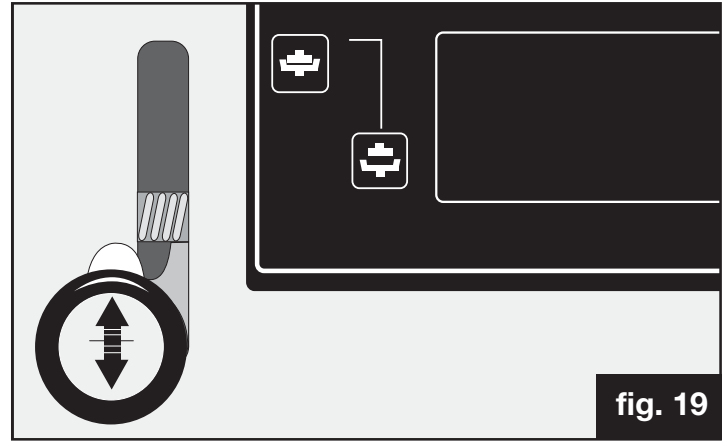
With the Scarifier in the transport position, lower the Scarifier's front roller by means of turning the microset adjuster rod anti-clockwise. This achieved, engage the tractor's PTO lever and lower the Scarifier blade height by turning the adjuster rod clockwise until you feel the blade making contact with the thatch.



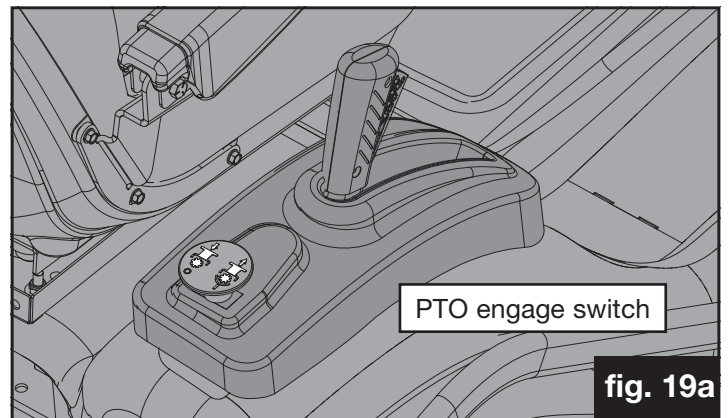
Do not be tempted to lower the unit into the ground as far as it will go, it is quite permissible on a good lawn for you to see evidence of tines JUST cutting into the ground.

Please Note:

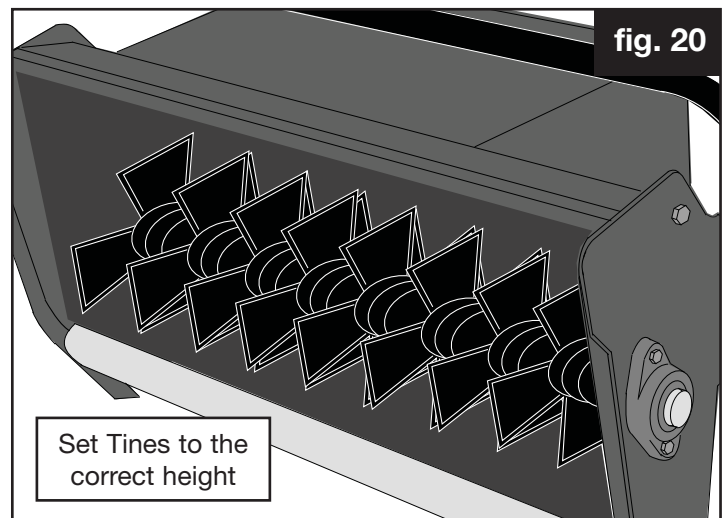
This unit is NOT a Powered Slitter and should not be permitted to operate as such. To do so may cause damage to both the Scarifier and the Tractor PTO thus invalidating the warranty.



(fig. 19) PTO engage switch for MK3 tractors



(fig. 19a) PTO engage switch for MK4 tractors



With the Scarifier set at the correct height, slowly pull away in a straight line, but do not be tempted to travel at high speed, for maximum effect the Scarifier needs to be able to rotate its tines as many times as possible over a given area. At the end of each pass raise the unit into the travel position, turn the Tractor around, lower the unit and travel down the opposite side of the lawn. Continue in this manner until you have covered the whole area.

Please Note:

ALWAYS REMEMBER to remove the key to the tractor and keep safe BEFORE attempting to work on or connect the Powered Scarifier.

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