

Operating Instructions

STIHL "Supercut 40-2"
(STIHL "Supercut 1")
**FS 160, 180, 220, 280, 300,
350, 400, 450 clearing saws**

STIHL "Supercut 2-2"
for **FS 66, 80 (1996->), 81, 85,
86, 88, 96, 106, 108, 120, 200,
FR 106, 108, 350, 450
brushcutters**

Warning!

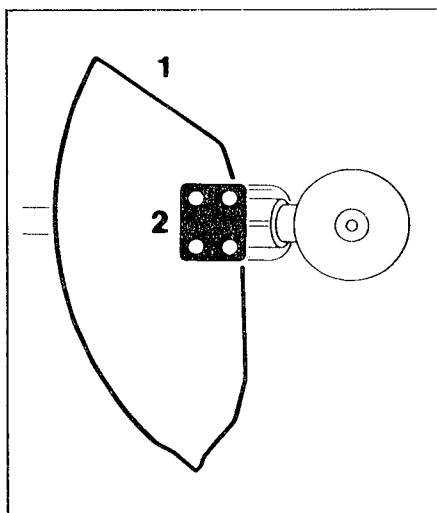
Follow all safety precautions in your brush-cutter owner's manual – improper use can cause serious or fatal injury.

Objects may be thrown or ricochet in all directions. To reduce the risk of sight loss, always wear eye protection when using the machine.

STIHL cutting tools may be used only on STIHL brushcutters and clearing saws.

The mowing head features automatic line feed and may be used only in combination with the following parts:

Deflector 4119 710 8101
Skirt 4119 716 3200
Blade 4119 710 6000

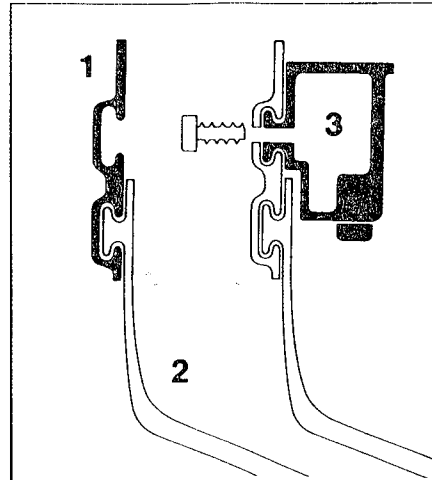


Fitting deflector

Place deflector (1) on gearhead flange. Fit backing plate (2) and line up – insert screws and tighten down.

Fitting skirt and blade

Slide skirt's (1) lower guide slot



onto the deflector (2) so that it engages in position.

Slide blade (3) into upper guide slot and line it up with first hole – insert screw and tighten down.

Fitting mowing head

Follow instructions for "STIHL Polymatic" mowing head in owners manual but:

FS 66, 81, 86 (new), 106, FR 106

- Do not use thrust washer or plain washer

FS 86 (old) and FS 96

- Fit stud 4125 713 6600 (STIHL dealer)
- Do not use thrust washer or plain washer

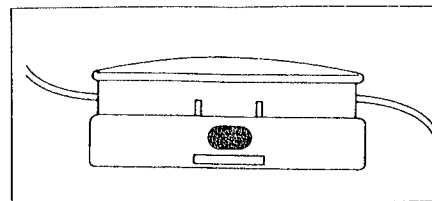
FS 160, 180, 220, 280

- Large guard ring (76 mm/3") must be fitted
- Small guard ring (65 mm/2 1/2") must not be used
- Recommended: Fit grass deflector kit 4119 007 1021.

Adjusting mowing head to suit brushcutter

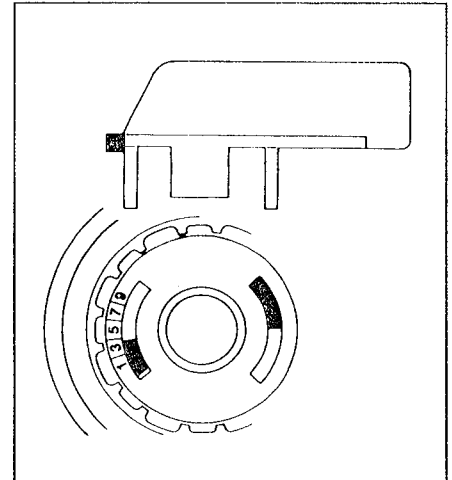
Opening mowing head

- Press the two tabs inwards (either side of head)
- and pull cover off upwards



Fitting special wrench

- Pointer facing scale
- Lugs in recesses



- **Press special wrench firmly downward**

- Spring force will turn the wrench clockwise to 9 on the scale – or it is already on 9
- Withdraw the special wrench

Checking length of lines

- Pull ends of lines firmly outward –
- If length is more than 5 cm/2": cut to size
- If length is less than 5 cm/2": Lift spool slightly so that it can be rotated. Pull out nylon line – push spool in again and turn back and forth to engage.

Closing mowing head

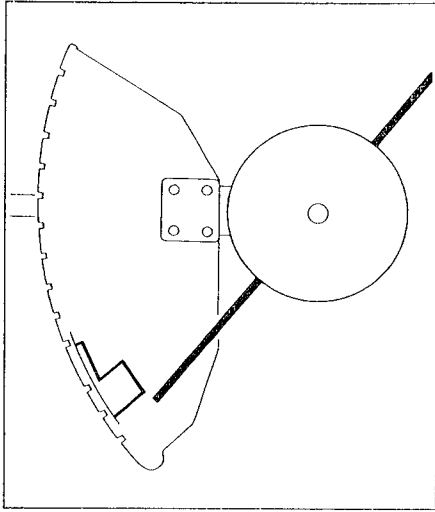
- Insert tabs in slots
- Press cover down and check that it is tight

Obtaining correct length of nylon lines with automatic feed mechanism

- Start your brushcutter
- Hold the mowing head horizontally over a clear, flat surface
- Run engine at full throttle until its speed remains constant, i.e. steady engine note. Nylon lines are adjusted automatically.
- Let go of throttle trigger and wait for engine to return to idle speed. Nylon lines will be adjusted again to final length of approx. 12–14 cm (4 3/4"–5 1/2") You may hear a brief knocking sound during this adjustment – a slight jerk will be felt.
- Repeat the above procedure a few times
- Switch off the engine and wait for mowing head to come to a complete stop

Checking lengths of lines

- Lines almost reach blade – length between 12 and 14 cm (4¾" and 5½"): Adjustment is OK.



- If lines extend right up to blade and have been cut off several times (watch for pieces of nylon line on ground), proceed as follows:

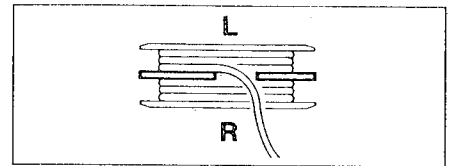
Check length of nylon lines and change mowing head adjustment until lines are the right length.

The Nylon Lines are Adjusted Automatically

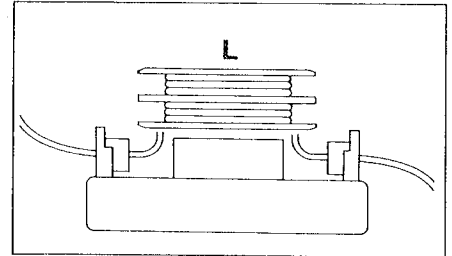
First stage of automatic line feed: Nylon line becomes shorter due to normal wear during cutting – engine speed rises. A short length of line is fed when engine speed exceeds a predetermined limit.

Second stage of automatic line feed: Nylon line is fed to final length when engine drops to idle speed and below a predetermined limit.

Mow at **full throttle** until you notice a definite increase in engine speed: Cutting performance gets poorer. Keep the engine at full throttle and lift the head out of the cut. Wait for first stage of line feed (you will hear a click). Allow engine to return to idle speed. Wait for second stage of line feed (another click) and then continue mowing at full throttle.



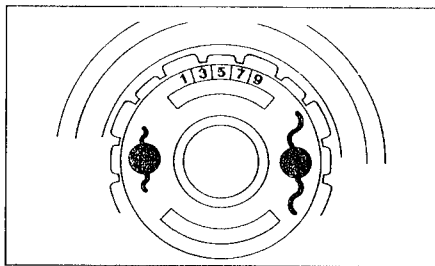
- Attach the ends of the lines to the slots



- Thread the ends of the lines through the sleeves
- Refit the spool and hold it steady
- Pull the ends of the lines one at a time until they slip out of the slots
- Engage spool in position – turn it back and forth – pulling the ends of the lines may have engaged the spool already
- Trim ends of lines to 5 cm (2")
- Refit cover and check that it is tight

Changing adjustment of mowing head

- Open the mowing head
- Insert special wrench – check reading on scale
- Press wrench firmly down and turn it one graduation in direction of "shorter



line" (counterclockwise) – allow it to come up again and check reading on scale.

- Withdraw special wrench
- Close the mowing head – check that cover is tight

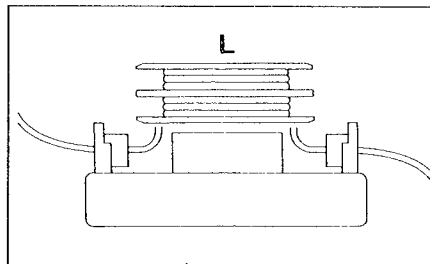
Now check automatic line feed again:

- Start brushcutter
- Full throttle
- Idle speed
- Repeat procedure several times
- Switch off engine

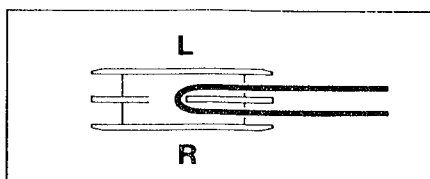
Replacing nylon line

Use only genuine STIHL 2.4 mm/0.095" dia. nylon line.

- Open mowing head
- Pull spool upward to remove



- Cut max. 7.5 m (25 ft) nylon line from reel
- fold it in half and pinch the loop
- Hold spool so that side marked "L" is upward



- Hook the loop to the spool and wind the line tightly around the spool – one line in each groove

Troubleshooting

Automatic line feed does not operate:

- One stage of line feed has not taken place: Return to idle speed. Run engine at full throttle until its speed remains constant. Return to idle speed again, then continue mowing.
- No nylon line in spool: Refill with fresh line.
- Line is too loose on spool: Rewind the line.
- Line is stuck in spool: Remove spool, rewind line.
- Lines are shorter than 5 cm (2"): Lift spool and rotate it until lines are longer than 5 cm (2") – engage spool in position.
- Automatic line feed mechanism not properly adjusted: see "Changing adjustment of mowing head".

Lines are constantly trimmed to length by blade:

- Automatic line feed mechanism not properly adjusted: see "Changing adjustment of mowing head".

If you have difficulties, please contact your STIHL dealer.