

## 036 QS Chainsaws - Series 1125

### 1. Rear handle brake (separate system)

#### 1.1 Method of Operation

The STIHL 036 QS chainsaw is equipped with an additional chain braking system.

As before, the chain brake is activated by the mass moment of inertia of the front hand guard in certain situations if kickback is severe enough and can also be activated manually by pushing the front hand guard forward in the direction of the bar nose. In both these cases the movement of the saw chain is stopped within a fraction of a second.

In addition to these functions, the new system brings the saw chain to a standstill in less than a second after the operator lets go of the chainsaw's rear handle. Similarly, the locked saw chain is not released until the operator presses down the throttle trigger interlock lever to operate the throttle.

The saw chain can be braked in three different ways:

#### Quickstop

- By the inertia of the front hand guard if the kickback force is high enough
- Manually via the front hand guard

#### STIHL Rear handle brake

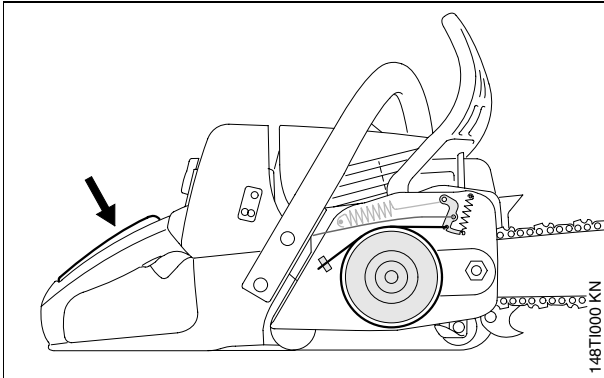
- Manually via the rear handle - new function

The STIHL Rear handle brake activating mechanism is integrated in the throttle trigger interlock (rear handle). The saw chain is automatically locked in position when the rear handle is released (e.g. when carrying the running saw).

#### Warning!

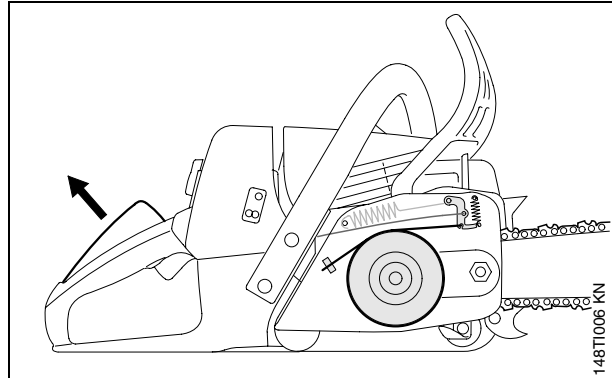
To help avoid personal injury or damage during cutting it is important to note the characteristics that make the STIHL 036 QS different from chainsaws that do not have such a braking system. Before operating the 036 QS for the first time, the user should make himself familiar with how the QS system works. Special attention should be paid to the chapters "Chain Brake" and "Starting" in the owner's manual.

### Operation of rear handle brake with Quickstop brake disengaged



Brake deactivated

- Press down the throttle trigger interlock lever
- Brake band releases clutch drum and allows saw chain to rotate



Brake activated

- Let go of the rear handle
- Rear handle brake stops chain rotation in less than one second

### Chain Lubrication

A quality chain lubricant must be used in the 036 QS to ensure reliable operation. If a biological chain lubricant is preferred, we recommend the use of STIHL Bioplus. This also applies to the maintenance of moving parts of the system (see 1.3.1). Unsuitable oils may result in premature failure of the chain brake due a buildup of resin.

### 1.2 Specifications

With the exception of the machine's weight, up from 5.7 kg to 5.8 kg (12.6 lb to 12.8 lb), the specifications of the 036 QS are exactly the same as those of the standard 036.

### Main changes to existing components

- Strengthened chain sprocket bearing
- Ceramic coated brake band

### 1.3 Repairs

If the unit is started up in the course of repairs or maintenance work it is essential to observe all local safety regulations and the safety precautions outlined in the owner's manual.

#### 1.3.1 Service Notes

Inspections, maintenance repairs must be performed by properly trained and authorized personnel.

#### Checking function of rear handle brake (with bar and chain fitted)

- Activate the throttle to wide open
- Let go of the rear handle
- The saw chain must come to a standstill in less than one second

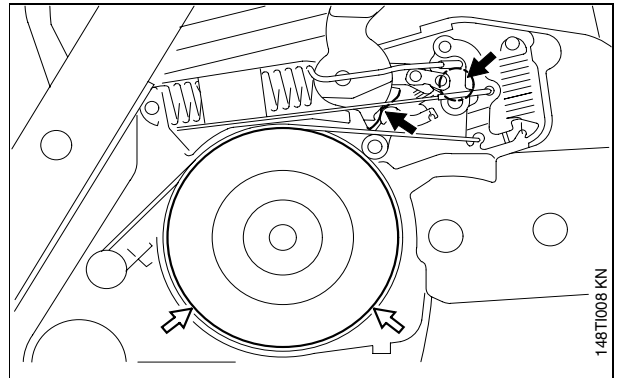
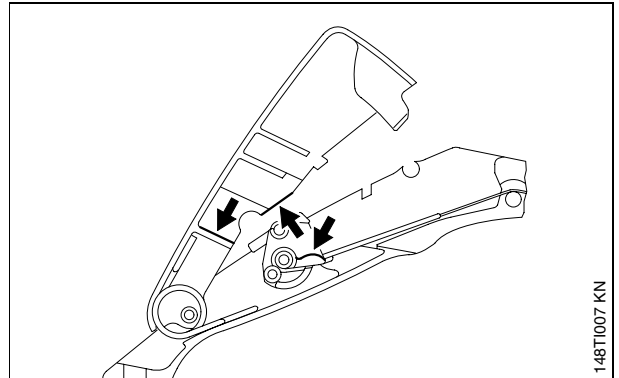
If the brake does not function properly, the sliding and pivot points shown in the illustrations must be serviced as follows:

#### In case of slight contamination:

- Use a suitable brush and mineral spirit to clean all parts

#### If heavily contaminated or clogged with resin:

- Disassemble the parts and clean with mineral spirit or a resin solvent
- Replace any worn or damaged parts
- Clean housing recesses before reinstalling parts



#### In both cases:

- ➔ Lubricate with Mobilplex 0781 120 1111
- ⇒ Coat with chain lubricant\* (circumference of clutch drum)

#### \* Important:

If a biological chain lubricant is preferred, we recommend the use of STIHL Bioplus. To ensure correct operation, use only original STIHL replacement parts as shown in the current parts list.

### 1.3.2 Tightening Torques

Self tapping (DG) screws are used in polymer components. These screws form a permanent thread when they are installed for the first time. They can be removed and installed as often as necessary without detrimentally affecting the strength of the screwed assembly, providing the specified tightening torque is observed. For this reason it is essential to use a torque wrench.

Fastener	Thread size	For component	Torque Nm (lbf.ft)	Rem.
Torx	M8 x 22	Brake band mounting/crankcase	10 (7.5)	1)

All other parts as before

Use the following procedure to fit a DG screw in an existing thread:

- Position the screw in the hole and rotate it counterclockwise until it drops down slightly.
- Tighten the screw clockwise to the specified torque.  
This procedure ensures that the screw engages properly in the existing thread and does not form a new thread which would weaken the assembly.

#### Remarks

1) Screw must be secured with adhesive 0786 111 2101 (LOCTITE 242)

Note: Screws installed with adhesive are easier to release if the area they heated first with a hot air blower (hair dryer). Take care not to overheat polymer components.


### 1.3.3 Repair Times

The specified repair times assume that the work is performed by trained personnel in a properly equipped service workshop. The repair times are given in tenths of an hour (0.1 = 6 minutes).

**Note:** The repair times table for the 036 QS can be used to supplement the STIHL repair times table (either cut along the line and paste it in or transfer the data by hand).

### 1.4 Spare Parts

A separate illustrated parts list is available for model 036 QS.

Code	Type of Repair	036 QS
1	Crankcase, Crankshaft, Crank Bearings, Crankcase Gasket	2.3
2	Cylinder Shroud	0.3
3	Anti-Vibration Buffers	0.7
4	Crankshaft Seals	1.0
5	Cylinder and/or Piston	1.3
6	Ignition Module	0.5
7	Fule Hose	0.5
8	Carb Flange or Connector	0.7
9	Repair/Rebuild Carburetor	0.8
10	Replace Carburetor, Carburetor Jet (if tried to repair use code 9)	0.4
11	Oil Pump, Oil Line	0.7
12	Recoil Starter	0.5
13	Clutch	0.5
14	Chain Brake	0.9
15	Muffler	0.4
16	Air Filter, Filter Cover, Tank Cap, Tank Vent, Fuel Filter, Oil Filter, Spark Plug, Deco Valve, Cutting Attachment	
	Misc. Minor Repairs	0.3
17	Stop Switch, Control Lever	0.5
18	Fuel Tank/Handle Assy	0.8
20	All Other Repairs 	0.5

Last Technical Information on model 036 QS: 33.97