

# Technical Information

45.95

## New STIHL 036 QS "Quickstop Super" Chainsaw - Series 1125



As the innovator of the chain brake, STIHL is now launching a more advanced chain braking system in the 036 QS.

The STIHL 036 QS is a newly developed chainsaw with enhanced active safety. As before, the chain brake can be activated via the front hand guard or by inertia in certain kickback situations. In addition, the QS braking system is now activated via the interlock lever.

The chain is brought to a complete standstill within fractions of a second as soon as the operator completely releases the rear handle and trigger. This system is a world first in gasoline chainsaws.

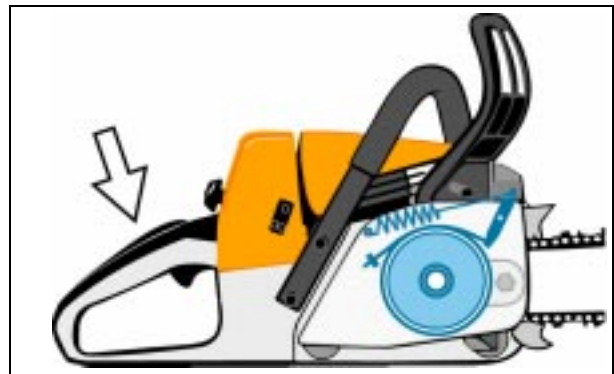
No additional controls are necessary. The throttle trigger interlock lever has been ergonomically shaped to ensure reliable activation of the braking system in almost all situations.

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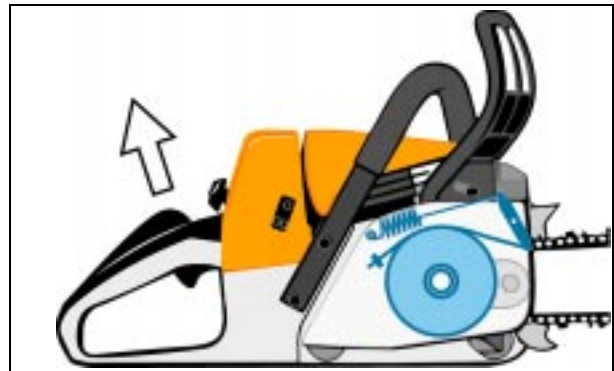
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### 1. Description of operation

- Throttle trigger interlock lever doubles as the activating lever for the QS system
- Brake band releases clutch drum whenever interlock lever is pressed while engine is running - the saw chain can then rotate
- When interlock lever and trigger is released, brake band tightens around clutch drum - saw chain stops within fractions of a second
- After the chain brake has been activated (either by inertia or manually) the rear handle has to be released (throttle trigger and interlock lever) to reset the chain braking system
- Braking system can be activated in three ways, i.e.
  - by the inertia of the front hand guard (in certain kickback situations)
  - or
  - by the user's hand contacting the front hand guard
  - or
  - by releasing the rear handle (QS), i.e. the interlock lever and trigger.



Disengage brake



Engage brake

### Note on chain lubrication

The STIHL 036 QS must be run with a quality chain lubricant to guarantee dependable operation. The only biological chain oil that can be recommended is **STIHL Bioplus**. This also applies to the lubrication of sliding and pivot points (see also 3.1). Unsuitable lubricants may result in a build up of resin and premature failure of the chain brake.

## **2. Specifications**

The specifications of the STIHL 036 QS are exactly the same as those of the STIHL 036. Only its weight has increased slightly from 5.7 kg (12.6 lb) to 6.0 kg (13.2 lb).

### **Main changes to existing components**

- Oil pump housing serves as support for parts of braking system (modular construction)
- Bigger chain sprocket bearing
- Better dust seal
- Ceramic coated brake band
- Oil pump controlled by position of brake band
- Chain brake is engaged by cam mounted to crankshaft

## **3. Repairs**

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

### **3.1 Service notes**

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

#### **Checking operation of chain brake (with bar and chain fitted):**

- Open throttle wide
- Release rear handle interlock lever and throttle trigger
- The chain must come to a stop within fractions of a second!

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

**If lightly contaminated:**

- Clean all parts with a brush and white spirit

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

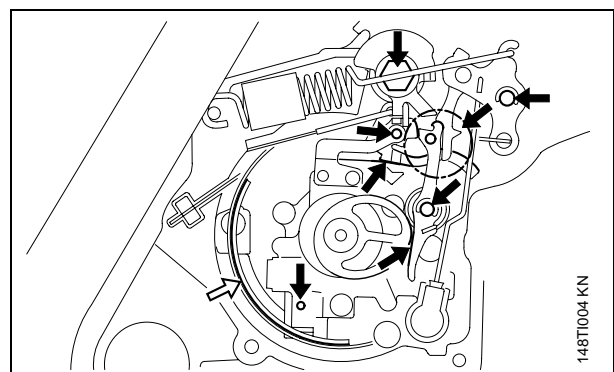
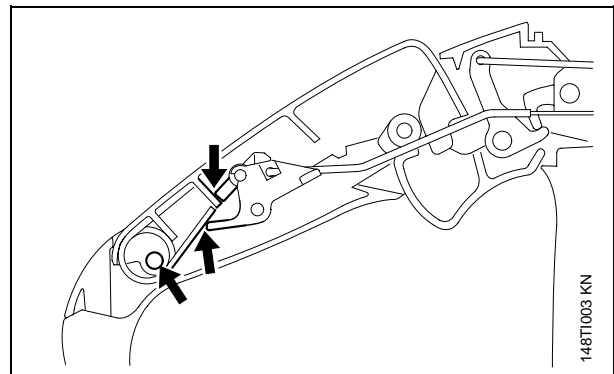
- Remove parts concerned and clean with white spirit or resin solvent
- Replace worn or damaged parts
- Before re-installing parts, clean machine recesses and seats

**In both cases:**

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

**\* Important!**

The only biological chain oil that can be recommended is STIHL Bioplus!  
To guarantee reliable operation, use only original STIHL replacement parts as per the latest parts list.



### 3.2 Tightening torques

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 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.
Spline screw	IS-DG 4x12	Oil pump/crankcase	3.5	2.6	
Spline screw	IS-DG 5x30	Handschutzhebel/hand guard	7.0	5.2	1)
Hex. head screw	M 6x20	Hand guard/crankcase	6.5	4.8	2)
Pin	M 7x0.75	Pin/oil pump	7.0	5.2	2)

All other parts as 036

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

- Place the screw in the hole and rotate it counterclockwise until it drops down slightly.
- Now 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 and weaken the screwed assembly.

#### Remarks

- 1) Screw must be secured with adhesive 0786 111 1117 (LOCTITE 648).
- 2) Screw must be secured with adhesive 0786 111 1101 (LOCTITE 242).

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

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### 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 minutes.

Note: This table for the STIHL 036 QS can be added to the STIHL repair times table (page 3) (cut out along the line and stick in place or enter the times by hand).

### 4. Spare parts

A separate illustrated parts list is available for the STIHL 036 QS.

Last Technical Information on model 036:

No.	Repair procedure	036 QS 1125
1	Crankcase, engine pan, pressure test*	140
2	Engine housing	—
3	Crankshaft, bearings, pressure test*	130
4	Sealing rings, pressure test*	70
5	Crankcase leakage test, test run	25
6	Cylinder, piston, pressure test*	45
7	Ignition system, contact*	25
8	Fuel supply, tank vent, test run	15
9	Manifold or flange, pressure test	20
10	Carburetor, check*	25
11	Tank housing with test run	40
12	Oil supply	—
13	Oil pump, test run	30
14	Handle frame, front handle, handle housing, shroud, each with test run	40
15	Rewind starter with test run	20
16	Clutch, test run	20
17	Chain brake, test run, check operation with cutting attachment	35
18	Muffler	10
19	Air filter	5
20	Stop switch	10
* test run under load		

