

STIHL[®]

STIHL TS 700, 800

Instruction Manual



Minimize Wear and Avoid Damage

Observing the instructions in this manual helps reduce the risk of unnecessary wear and damage to the power tool.

The power tool must be operated, maintained and stored with the due care and attention described in this owner's manual.

The user is responsible for all damage caused by non-observance of the safety precautions, operating and maintenance instructions in this manual. This includes in particular:

- Alterations or modifications to the product not approved by STIHL.
- Using tools or accessories which are neither approved or suitable for the product or are of a poor quality.
- Using the product for purposes for which it was not designed.
- Using the product for sports or competitive events.
- Consequential damage caused by continuing to use the product with defective components.

Maintenance Work

All the operations described in the "Maintenance Chart" must be performed on a regular basis. If these maintenance operations cannot be performed by the owner, they should be performed by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL

servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

If these maintenance operations are not carried out as specified, the user assumes responsibility for any damage that may occur. Among other parts, this includes:

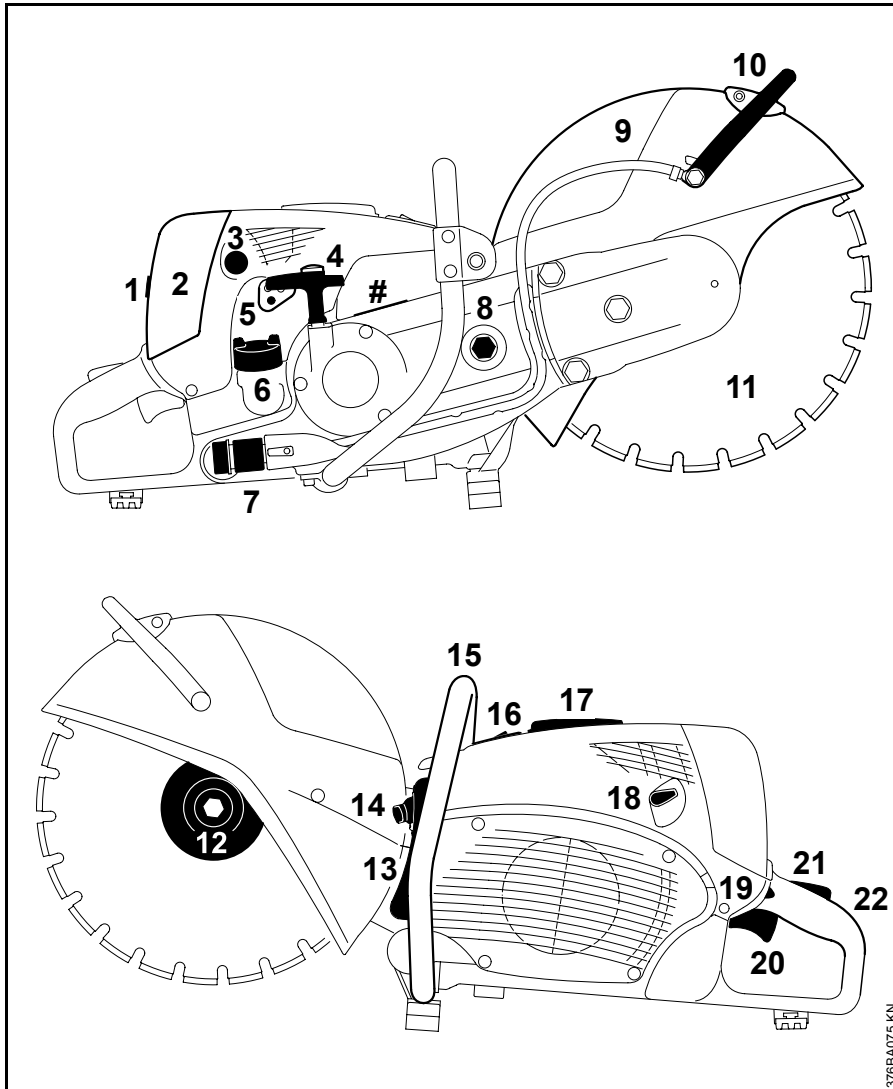
- Damage to the engine due to neglect or deficient maintenance (e.g. air and fuel filters), incorrect carburetor adjustment or inadequate cleaning of cooling air inlets (intake ports, cylinder fins).
- Corrosion and other consequential damage resulting from improper storage.
- Damage to the machine resulting from the use of poor quality replacement parts.

Wear parts

Some parts of the machine are subject to normal wear and tear even when the machine is used in conformity with its intended use. These parts must be replaced in due time, depending on the nature and duration of use. These include, among others:

- Clutch, V-belt
- Abrasive wheels (all types)
- Filters (air, fuel)
- Rewind starter
- Spark plug
- Components of anti-vibration system

Main Parts

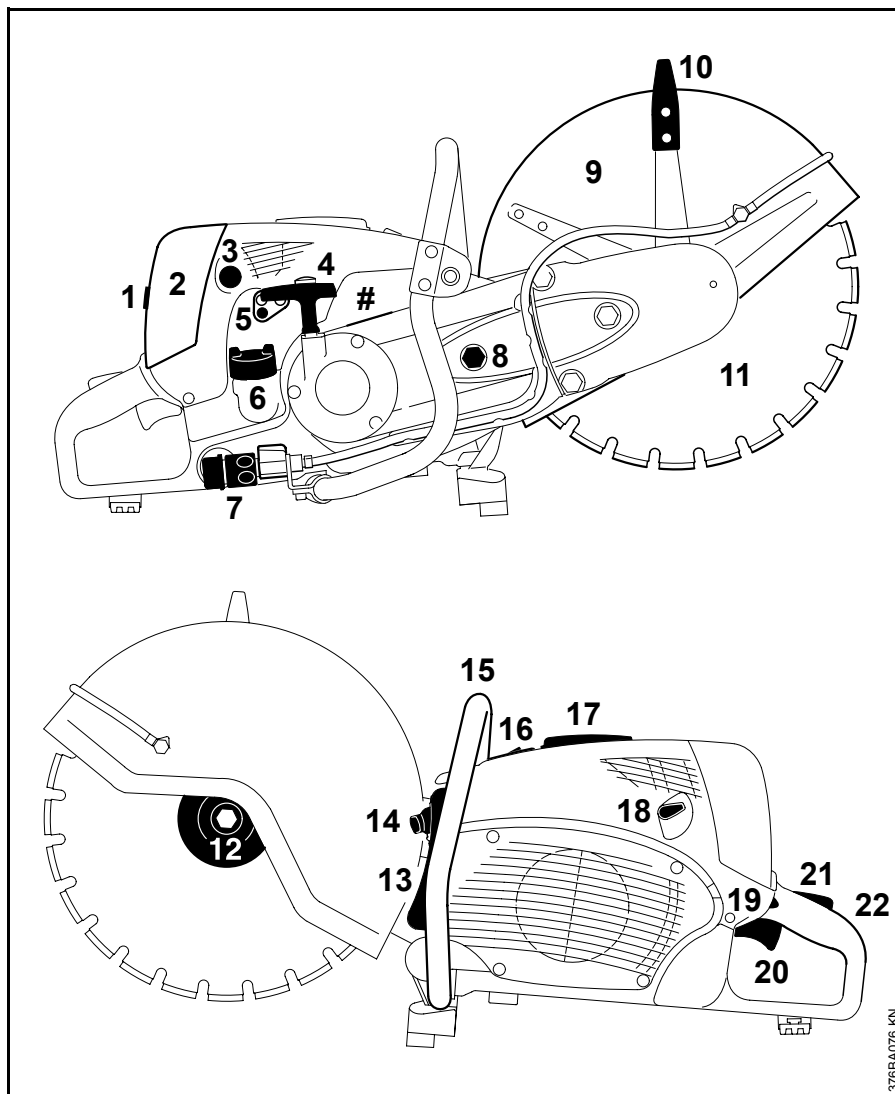


The different versions (A, B) vary in the form of the deflector and the adjusting lever.

Version A

- 1 Screw plug
- 2 Filter cover
- 3 Fuel pump
- 4 Starter grip
- 5 Carburetor adjusting screws
- 6 Filler cap
- 7 Water attachment
- 8 Tensioning nut
- 9 Deflector
- 10 Adjusting lever
- 11 Cutting wheel
- 12 Front thrust washer
- 13 Muffer
- 14 Spark arresting screen (present only in some countries)
- 15 Handlebar
- 16 Decompression valve
- 17 Cap for spark plug boot
- 18 Choke lever
- 19 Master Control lever
- 20 Throttle trigger
- 21 Throttle trigger interlock
- 22 Rear handle
- # Serial number

Version B



- 1 Screw plug
- 2 Filter cover
- 3 Fuel pump
- 4 Starter grip
- 5 Carburetor adjusting screws
- 6 Filler cap
- 7 Water attachment
- 8 Tensioning nut
- 9 Deflector
- 10 Adjusting lever
- 11 Cutting wheel
- 12 Front thrust washer
- 13 Muffler
- 14 Spark arresting screen (present only in some countries)
- 15 Handlebar
- 16 Decompression valve
- 17 Cap for spark plug boot
- 18 Choke lever
- 19 Master Control lever
- 20 Throttle trigger
- 21 Throttle trigger interlock
- 22 Rear handle
- # Serial number

376BA076 KN

Specifications

Engine

STIHL single cylinder two-stroke engine

TS 700

Displacement:	98.5 cm ³
Bore:	56 mm
Stroke:	40 mm
Engine power to ISO 7293:	5.0 kW (6.8 HP) at 9300 rpm
Idle speed:	2200 rpm
Max. spindle speed to ISO 19432:	5080 rpm

TS 800

Displacement:	98.5 cm ³
Bore:	56 mm
Stroke:	40 mm
Engine power to ISO 7293:	5.0 kW (6.8 HP) at 9300 rpm
Idle speed:	2200 rpm
Max. spindle speed to ISO 19432:	4290 rpm

Ignition system

Electronic magneto ignition

Spark plug (suppressed):	Bosch WSR 6 F, NGK BPMR 7 A
Electrode gap:	0.5 mm

Fuel system

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 1.2 l

Air filter

Main filter (paper filter) and flocked wire mesh auxiliary filter

Weight

Empty weight without cutting wheel, with water attachment, without fuel	
TS 700:	11.6 kg
TS 800:	13.0 kg

Cutting wheels

The quoted maximum permissible operating speed of the cutting wheel must be greater than or equal to the maximum spindle speed of the cut-off machine used.

Cutting wheels (TS 700)

Outside diameter:	350 mm
Hole diameter/spindle diameter:	20 mm
Tightening torque:	30 Nm

Composite resin cutting wheels

Minimum outside diameter of front thrust washer: ^{1) 2)}	103 mm
Max. depth of cut: ³⁾	125 mm

- 1) For Japan 118 mm
- 2) For Australia 118 mm
- 3) When using thrust washers with an outer diameter of 118 mm, the maximum cutting depth is reduced to 116 mm

Diamond cutting wheels

Minimum outside diameter of front thrust washer: ¹⁾	103 mm
Max. depth of cut: ³⁾	125 mm

- 1) For Japan 118 mm
- 3) When using thrust washers with an outer diameter of 118 mm, the maximum cutting depth is reduced to 116 mm

Cutting wheels (TS 800)

Outside diameter:	400 mm
Hole diameter/spindle diameter:	20 mm
Tightening torque:	30 Nm

Composite resin cutting wheels

Minimum outside diameter of front thrust washer: ^{1) 2)}	103 mm
Max. depth of cut: ³⁾	145 mm

- 1) For Japan 140 mm
- 2) For Australia 140 mm
- 3) When using thrust washers with an outer diameter of 140 mm, the maximum cutting depth is reduced to 130 mm

Diamond cutting wheels

Minimum outside diameter of front thrust washer: ¹⁾ 103 mm
Max. depth of cut: ³⁾ 145 mm

1) For Japan 140 mm

3) When using thrust washers with an outer diameter of 140 mm, the maximum cutting depth is reduced to 130 mm

Sound and vibration levels

When determining sound and vibration levels, idling and full load are taken into account in a ratio of 1:6.

For further details concerning compliance with the employers' Directive on vibration 2002/44/EEC, see www.stihl.com/vib/

Sound pressure level L_{peq} to EN ISO 11201

TS 700: 101 dB(A)
TS 800: 100 dB(A)

Sound pressure level L_{weq} to ISO 3744

TS 700: 113 dB(A)
TS 800: 113 dB(A)

Vibration acceleration $a_{hv,eq}$ to ISO 19432

	Handle,	Handle, left right
TS 700:	6.6 m/s ²	4.5 m/s ²
TS 800:	6.5 m/s ²	3.9 m/s ²

The K-value in accordance with Directive 2006/42/EC is 2.5 dB(A) for the sound pressure level and sound

power level; the K-value in accordance with Directive 2006/42/EC is 2.0 m/s² for the vibration measurement.

REACH

REACH is an EC regulation and stands for the Registration, Evaluation, Authorisation and Restriction of Chemical substances.

For information on compliance with the REACH regulation (EC) No. 1907/2006 see www.stihl.com/reach.

Special Accessories

- Set of tools
- STIHL cut-off machine cart FW 20
- Attachment kit for cut-off machine FW 20
- Water tank mounting kit
- Pressurized water tank mounting kit
- Cutting direction indicator
- Set of wheels

Ask your STIHL dealer for current information on this and other special accessories.


Maintenance and Repairs

Users of this machine may only carry out the maintenance and service work described in this user manual. All other repairs must be carried out by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

When repairing the machine, only use replacement parts which have been approved by STIHL for this power tool or are technically identical. Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the machine.

STIHL recommends the use of original STIHL replacement parts.

Original STIHL parts can be identified by the STIHL part number, the **STIHL** logo and the STIHL parts symbol  (the symbol may appear alone on small parts).

EC Declaration of Conformity

ANDREAS STIHL AG & Co. KG
Badstr. 115
D-71336 Waiblingen

hereby confirms that

Model:	Cut-off machine
Make:	STIHL
Type:	TS 700 TS 800
Serial identification number:	4224
Displacement:	98.5 cm ³

conforms to the specifications of Directives 98/37/EC (until 12/28/09), 2006/42/EC (starting 12/29/09), 2004/108/EC and 2000/14/EC and has been developed and built in compliance with the following standards:

EN ISO 19432, EN 55012,
EN 61000-6-1

The measured and guaranteed equivalent sound power level has been determined in accordance with Directive 2000/14/EC, Annex V, and standard ISO 3744.

Measured sound power level

TS 700:	115 dB(A)
TS 800:	115 dB(A)

Guaranteed sound power level

TS 700:	117 dB(A)
TS 800:	117 dB(A)

The technical documentation has been retained by:

ANDREAS STIHL AG & Co. KG
Produktzulassung

The year of construction and the serial number are shown on the machine.

Waiblingen, 30.03.2009

ANDREAS STIHL AG & Co. KG
pp.



Elsner

Head of Product Group Management

Quality Certification



All STIHL products comply with the highest quality standards.

An independent organization has certified that all products manufactured by STIHL meet the strict requirements of the ISO 9001 standard for quality management systems in terms of product development, materials purchasing, production, assembly, documentation and customer service.

0458-376-0121-B

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