



MTA 36

OPERATING INSTRUCTIONS AND SPARE PARTS LIST



Declaration of conformity

The undersigned manufacturer:

SAINT - GOBAIN ABRASIVES S.A.
190, BD J.F. KENNEDY
L- 4930 BASCHARAGE

Declares that this product:

Power Float: **MTA 36 P5.5 HONDA**
MTA 36.303

Code: **70184614008**
70184613921

is in conformity with the following Directives:

- ***European Machinery Directive 2006/42/EC***
- ***Electromagnetic Compatibility Directive 2004/108/EC***

A handwritten signature in grey ink, appearing to read "P. Mersch", is positioned above the printed name.

Pierre Mersch
Business Manager Machines Europe

MTA36

OPERATING INSTRUCTIONS AND SPARE PARTS LIST

1	Basic Safety Instructions	6
1.1	<i>Symbols</i>	6
1.2	<i>Machine plate</i>	7
1.3	<i>Safety instructions for particular operating phases</i>	7
2	Machine description	7
2.1	<i>Short description</i>	7
2.2	<i>Purpose of use</i>	8
2.3	<i>Layout</i>	8
2.4	<i>Technical Data</i>	9
3	Assembly and commissioning	9
3.1	<i>Safety guard ring and handle</i>	9
3.2	<i>Tool assembly</i>	9
3.3	<i>Starting the machine</i>	10
4	Transport and storing	11
4.1	<i>Securing for transport</i>	11
4.2	<i>Transport procedure</i>	11
4.3	<i>Long period of inactivity</i>	11
5	Operating the machine	11
5.1	<i>Site of work</i>	11
5.2	<i>Preparing the site</i>	11
5.3	<i>Floating and finishing operation</i>	11
6	Maintenance and servicing	12
6.1	<i>Maintenance of the machine</i>	12
6.2	<i>Maintenance of the engine</i>	13
7	Faults: causes and cures	16
7.1	<i>Fault-finding procedures</i>	16
7.2	<i>Trouble-shooting guide</i>	16
7.3	<i>Customer service</i>	16
8	Appendix	18
8.1	<i>Spare parts list</i>	18
8.2	<i>Exploded parts drawing</i>	19

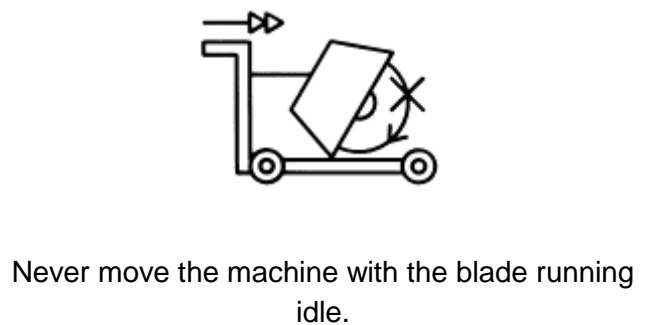
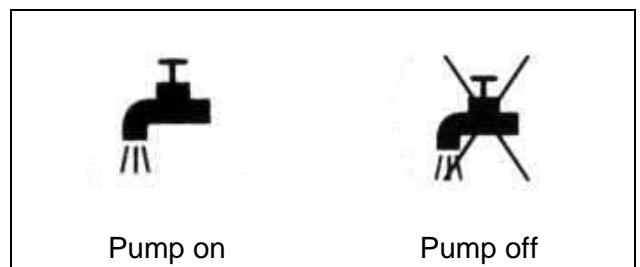
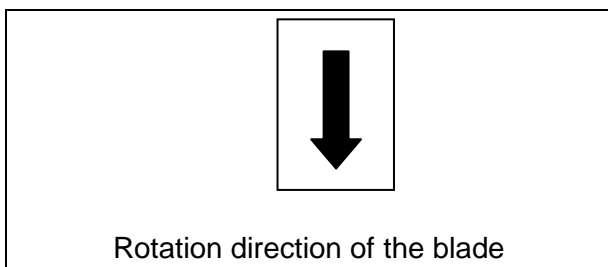
1 Basic Safety Instructions

The MTA36 is exclusively designed for the finishing of wet concrete floors mainly on construction sites.

Uses other than the manufacturer's instructions shall be considered as contravening the regulations. The manufacturer shall not be held responsible for any resulting damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

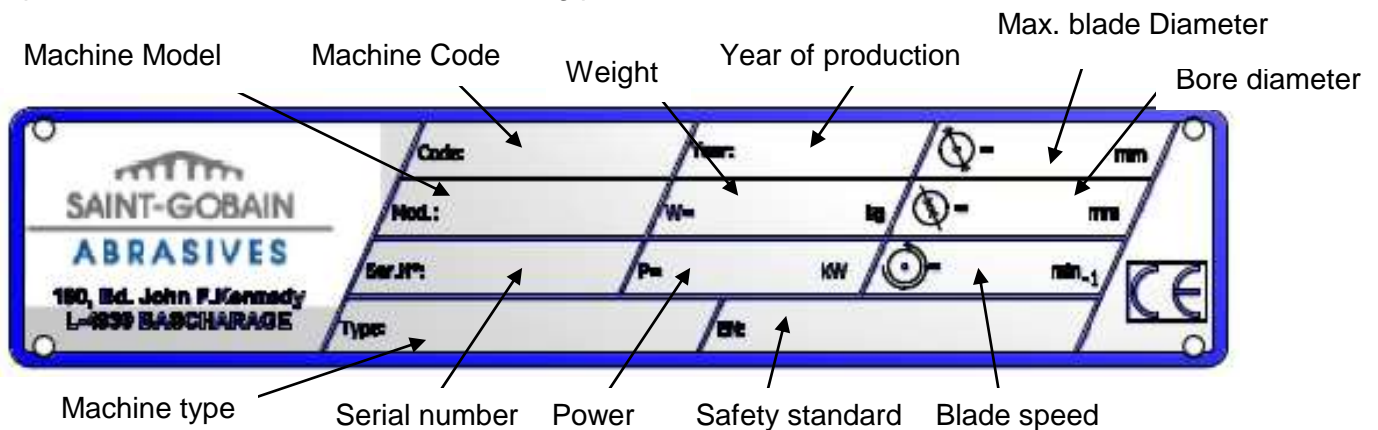
1.1 Symbols

Important warnings and pieces of advice are indicated on the machine using symbols. The following symbols are used on the machine:



1.2 Machine plate

Important data can be found on the following plate located on the machine:



1.3 Safety instructions for particular operating phases

Before commencing work

- Before commencing work, make yourself familiar with the working environment at the place of use. The working environment includes: obstacles in the area of work and manoeuvre, the firmness of the floor, necessary protection at the site relating to public thoroughfares and the availability of help in the event of accidents.
- Check for correct mounting of the tool regularly.
- Immediately remove damaged or badly worn tools, as they endanger the operator whilst rotating.
- Always cut with the safety guard ring in position.
- Only fit NORTON blades or plates to the machine! The use of other tools can damage the machine!
- Attention is drawn to the use of BS2092 safety goggles in conformity with specified Processes No.8 of the Protection of Eyes Regulation 1974, Regulation 2(2) Part 1.

Petrol powered machines:

- Always use the fuel advised.
- In confined areas, exhaust gases should be evacuated and the job site properly aerated.
- Petrol machines, which by their nature emit toxic exhaust gases, must not be used in places prohibited by the Health at Work etc. Act 1974 or which are prohibited by Factory Inspectors or Safety Officers.
- Fuel is flammable. Before filling the tank, shut down the engine, extinguish all open flames and do not smoke. Take care that no petrol is spilled on any motor part. Always wipe up spilled fuel.

2 Machine description

Any modification, which could lead to a change in the original characteristics of the machine, may be done only by Saint-Gobain Abrasives who shall confirm that the machine is still in conformity with the safety regulations.

2.1 Short description

The Clipper Mechanical Trowel MTA36 is designed for durability and high performance for onsite finishing operations on wet concrete floors. As with all other NORTON products, the operator will immediately appreciate the attention given to detail and quality of materials used in construction.

The machine and its component parts are assembled to high standards assuring long life and minimum maintenance.

2.2 Purpose of use

The Clipper Mechanical Trowel MTA36 is designed for onsite finishing operations on wet concrete floors. It is not designed for any other purpose.

2.3 Layout



Handle (1)

Jig welded steel construction including 2 rubber grips. A dead-man handle (2) allows the operator to work safely and to stop the machine at any moment. The angle of the machine arm can be adjusted to operate the machine comfortably.

Pitch of the blades (3)

The pitch of the blades is controlled over a hydraulic pump on the handle.

Belt drive and belt cover (4)

A centrifugal clutch inside the motor pulley drives the gear shaft through a V-Belt. It allows to gradually engage the tool rotation. The drive assembly is enclosed in a metal guard.

Safety guard ring (5)

A safety guard ring protects the operator from the rotation of the tool while offering an optimum view of the working progress.

Thermal Engine (6)

The machine has a GX200 Honda engine, with 4,7kW. An emergency shut down switch near the operator allows an immediate stop of the machine in case of danger.

2.4 Technical Data

Engine	Honda GX200, 4 strokes, 1 cylinder, 6,5HP (4kW)
Filter	Dual Filter
Fuel	Regular unleaded
Oil	Honda 4-Stroke, or equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirement for service classification SG, SF. (SG, SF designated on the oil container). SAE 10W-30 recommended
Starter	Manual pull chord
Typ of spark plug	CR5HSB (NGK) U16FSR-UB (DENSO)
Type of tool	Blade or plate
Max. tool diameter	865 mm
Blade shaft speed	91 min-1
Machine dimensions	1790x915x790 mm
Max. operating weight	80 kg
Sound pressure level	85 dB (A) (ISO EN 11201)
Sound energy level	94 dB (A) (ISO EN 3744)

3 Assembly and commissioning

The machine is delivered fully equipped. It is ready for operation after assembly of the tool and adjustment of the machine arm, and after connection to the appropriate power supply.

3.1 Safety guard ring and handle

To avoid the guard ring to be damaged during the transportation, it is transported disassembled from the machine. To assemble it, follow these points:

- Fit the section of the guard ring with the large welded plate at the front side of the reducer (with M10 screws and the 17mm wrench).
- Fit the two small plates of the guard ring on the right and left side of the handle (with M10 screws and the 17mm wrench).
- Fit also the second locking screw of the belt guard (with M8 screws and the 13mm wrench).

Unlock the locking lever of the handle. To adjust the height of the rubber grips to the operator's size, move the handle backwards. Fix the handle on the desired position by tightening the locking lever.

3.2 Tool assembly

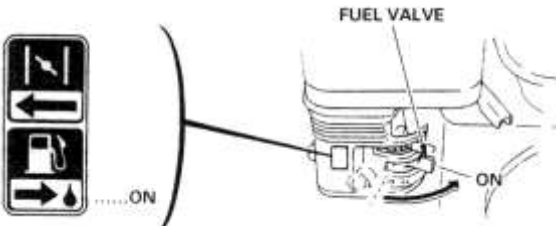
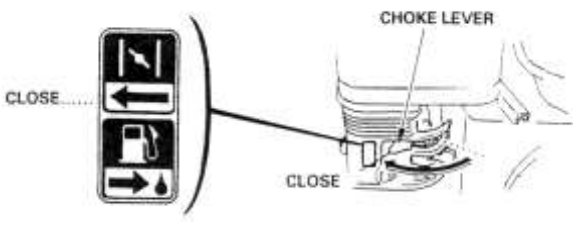

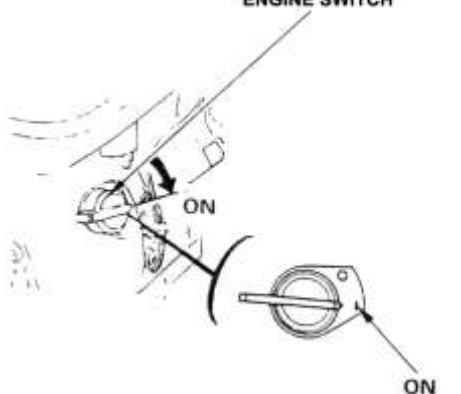
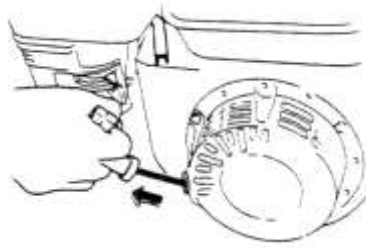
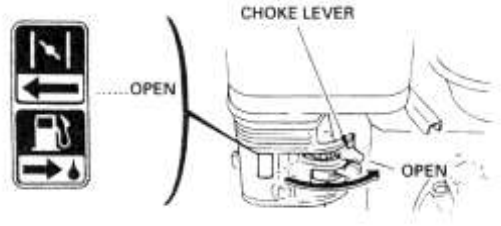
Only NORTON blades or plate with a maximum diameter of 865 mm can be used with the MTA36.

Before mounting a new tool into the machine, switch off the machine.

Screw the 2 M8-screws per blade using a 13mm wrench to assemble the blade on the arm. To

assemble a plate, place the machine with the blades assembled on the plate, and turn it until the blades are located in the hooks on the plate.

3.3 Starting the machine

	
<p>Turn the fuel valve to the ON position. Make sure the throttle handle is on the intermediate position.</p>	<p>Move the choke lever to the CLOSED position. NOTE: do not use the choke if the engine is warm or the air temperature is high.</p>
	
<p>Move the throttle control lever slightly to the left.</p>	<p>Put the engine switch on ON, and make sure the emergency switch on the board of the machine is in the correct position.</p>
	
<p>Pull the starter grip lightly until you feel resistance, then pull briskly. CAUTION: Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.</p>	<p>As the engine warms up, gradually move the choke lever to the OPEN position. Position the throttle control lever for the maximum engine speed.</p>

To stop the engine, move the throttle control lever fully to the right, then turn the engine switch to the OFF position. Turn the fuel valve to the OFF position.

4 Transport and storing

4.1 Securing for transport

Before transporting the machine, always remove the tool.

4.2 Transport procedure

Two people are necessary to move the machine. The machine does not have lifting hooks.

4.3 Long period of inactivity

- If the machine is not going to be used for a long period, completely clean the machine and disassemble the tool. Untighten the belts and change the engine oil. The storage site must be clean, dry and at a constant temperature.

5 Operating the machine

5.1 Site of work

- Remove from the site anything, which might hinder the working procedure!
- Make sure the site is sufficiently well lit!
- Make sure you have a continual adequate view of the working area so you can intervene in the working process at any time!
- Keep other staff out of the area, so you can work securely.

5.2 Preparing the site

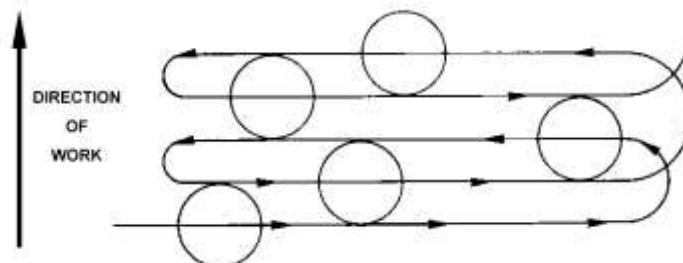
Prepare the concrete as for manual trowelling. Assure a well levelled surface (we recommend the use of a beam or better a vibrating screeder). When slab has set sufficiently firm so that the operator can walk on it, leaving only a slight impression (approx.3mm), it is ready for the floating operation.

5.3 Floating and finishing operation

To use the machine correctly, you must face it with the two hands on the handle.

Handling the machine

Operate the machine from right to left as shown in the following drawing:



To move the machine to the right, pull up the handle, to move the machine to the left, push down the handle.

Tilting the blades

Floating the slab is done with the blades nearly flat on the surface of the concrete; however it is recommended that the blades are just slightly tilted to avoid the suction and drag created in normal

operation of float blades on wet concrete. For the finishing operation, tilt the blades. Start with a small pitch of 4 to 6 mm. After each finishing pass, continue to tilt blades.

Depression or high spot

To fill a depression or cut down a high spot, simply move the machine back and forward over the area until the desired surface is obtained.

IMPORTANT: Do not allow the machine to stand in one spot on wet concrete – remove the machine from the slab when it is not used.

6 Maintenance and servicing

6.1 Maintenance of the machine

To ensure a long-term quality from the cutting with the MTA36, please follow the maintenance plan below:

		Begin of the day	During the changing of tool	End of the day or more often if required	Every week	After a fault	After a damage
Whole machine	Visual control (general aspect, watertightness)						
	Clean						
Surface of blades or plate	Clean						
Tension of the blade	Check						
Motor housing	Clean						
Reachable nuts and screws	Tighten up						

Maintenance of the machine

Always perform the maintenance of the machine with the machine switched off.

Lubrication

The MTA36 uses life-lubricated bearings. Therefore, you don't need to lubricate the machine at all.

Control and change of the belt

To change the belt, open the belt guard, and disassemble the reduction gear. Set the new belt on the pulleys, and reassemble the reduction gear and the belt guard.

Cleaning of the machine

Your machine will last longer if you clean it thoroughly after each day of work, especially motor and blades or pan.

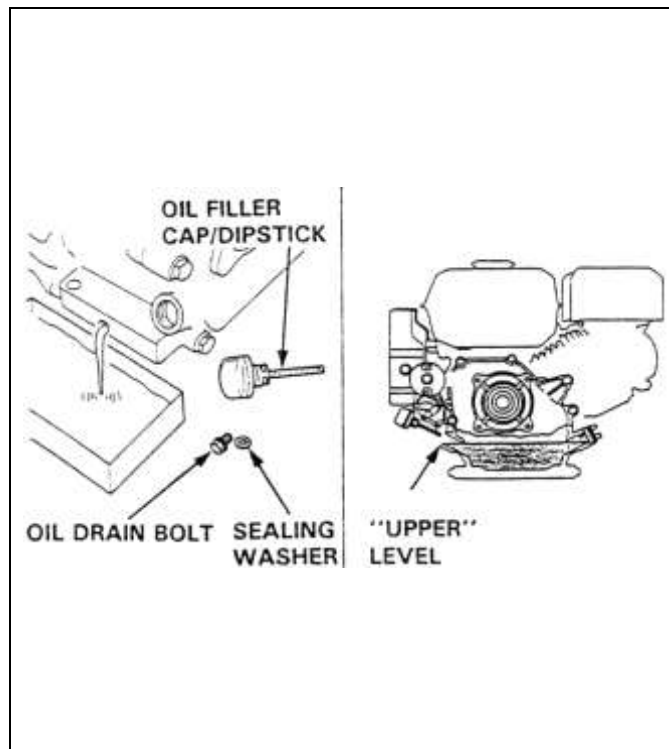
6.2 Maintenance of the engine

		Each use	First month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours
Regular service period Perform at every indicated month or operating hour interval, whichever comes first →					
Engine oil	Check level				
	Change				
Air cleaner filter	Check				
	Clean				
Fuel strainer cup	Clean				
Spark plug	Check-Clean				
Fuel line	Check (Replace if necessary)	Every 2 years			

Engine oil

To change the oil,

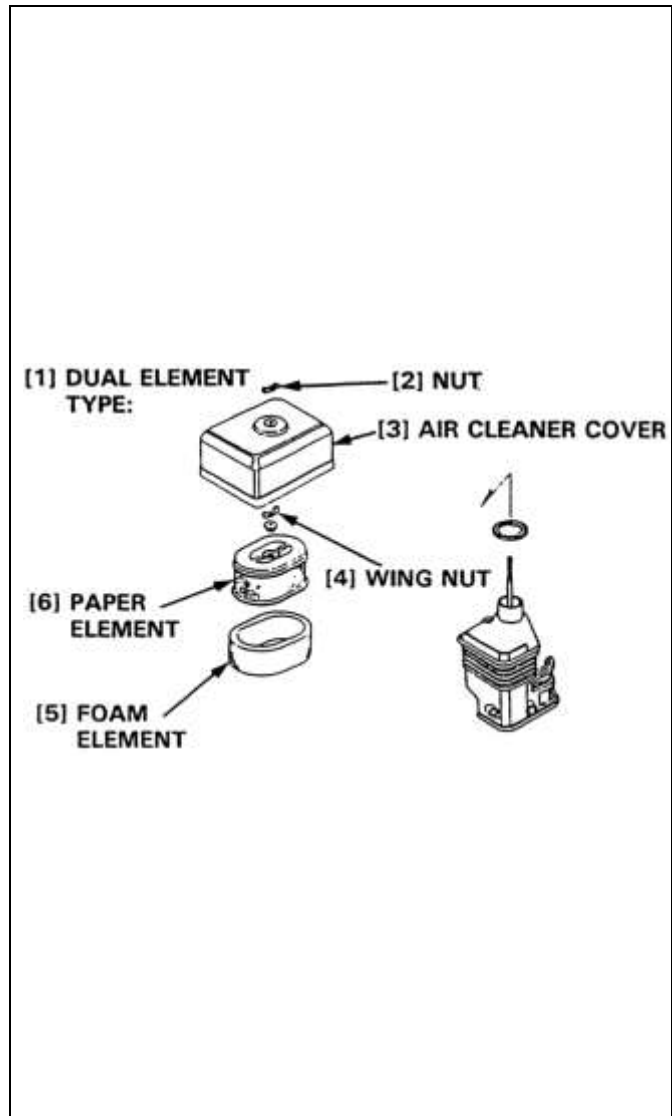
- Remove the oil filler cap/dipstick and drain bolt.
- Allow the oil to drain completely.
- Dispose of used motor oil in a manner that is compatible with the environment. We suggest you to take used oil in a sealed container to your local recycling centre or service station for reclamation. Do not throw it in the trash, pour it on the ground or down in a drain.
- Reinstall the drain bolt, and tighten it to 18 N.m.
- Fill the crankcase with the engine oil to the outer edge of the oil filler neck.
- Reinstall the filler cap/dipstick.



Air cleaner

To service the air cleaner filter, follow these instructions:

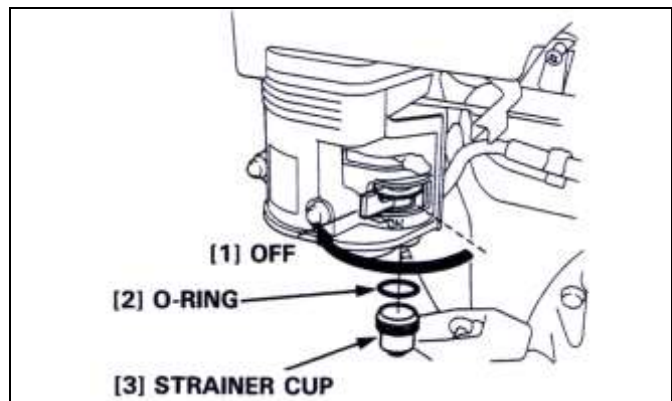
- Remove the nut, air cleaner cover and wing nut.
- Remove the pre air cleaner elements and separate them.
- Carefully check both elements for holes or tears and replace if damaged.
- **Paper element:** tap element lightly several times on a hard surface to remove excess dirt or blow compressed air lightly through the filter from the inside out. Never brush the dirt off; brushing will force dirt into the fibres.
- **Foam element:** clean in warm soapy water, rinse and allow to dry thoroughly. Dip the element in clean engine oil and squeeze out all the excess. The engine will smoke during initial start-up if too much oil is left in the foam.
- Shine a light through the elements, and inspect them carefully. Reinstall the elements if they are free of holes and tears.



Fuel strainer cup

To service fuel strainer cup, follow these instructions:

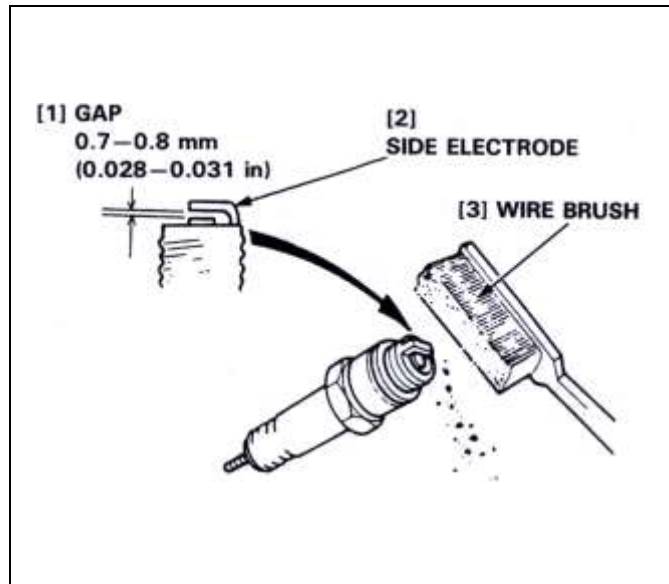
- Turn off the fuel valve and remove the strainer cup.
- Clean the strainer cup with solvent.
- Install the O-ring and strainer cup.
- Tighten the strainer cup to 4N.m.



Spark plug

To service the spark plug, follow these instructions:

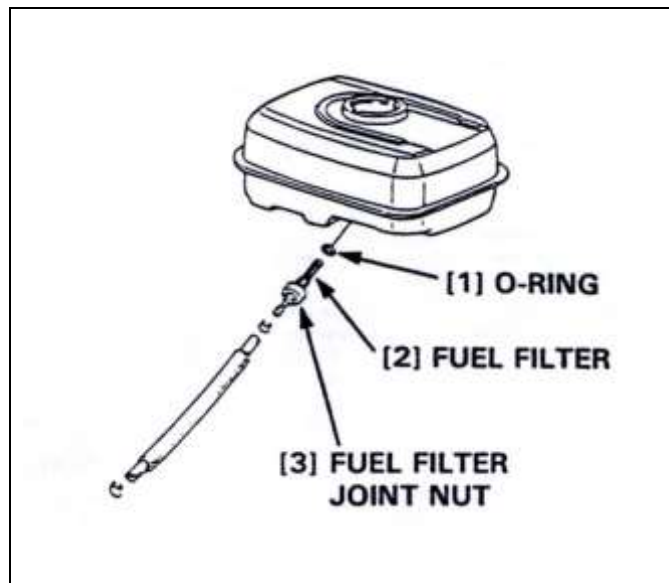
- Visually inspect the spark plug. Discard the plug if the insulator is cracked or chipped.
- Remove carbon or other deposits with a stiff wire brush.
- Measure the plug gap with a wire-type feeler gauge. If necessary, adjust the gap by bending the side electrode.
- Make sure the sealing washer is in good condition; replace the plug if necessary.
- Install the plug fingertight to seat the washer, then tighten with a plug wrench (an additional $\frac{1}{2}$ turn if a new plug) to compress the sealing washer. If you are reusing a plug, tighten $\frac{1}{8}$ - $\frac{1}{4}$ turn after the plug seats.



Fuel line

To service the fuel line, follow these instructions:

- Drain the fuel into a suitable container, and remove the fuel tank.
- Disconnect the fuel line, and unscrew the fuel filter from the tank.
- Clean the filter with solvent, and check, that the filter screen is undamaged.
- Place the O-ring on the filter and reinstall. Tighten the filter to 2N.m. After reassembly, check for fuel leaks.



Further maintenance

For further maintenance, please contact the nearest engine maintenance centre.

7 Faults: causes and cures

7.1 Fault-finding procedures

Should any fault occur during the use of the machine, turn it off.

7.2 Trouble-shooting guide

Trouble	Possible source	Resolution
Hard starting	Not enough fuel	Fill fuel tank
	Fuel filter clogged	Clean fuel filter
	Spark plug faulty	Inspect spark plug
	Stronger fault	Contact nearest engine maintenance centre
Engine lacks power	Air filter restricted	Clean or replace air filter
	Stronger fault	Contact nearest engine maintenance centre

7.3 Customer service

When ordering spare parts, please mention:

- The serial number (7 digits).
- The code of the part.
- The exact denomination.
- The number of parts required.
- The delivery address.
- Please indicate clearly the means of transportation required such as "express" or "by air". Without specific instructions, we will forward the parts through the means which seem appropriate to us --- but which is not always the quickest way.

Clear instructions will avoid problems and faulty deliveries.

If not sure, please send us the defective part.

In the case of a warranty claim, the part must always be returned for evaluation.

Spare parts for the motor can be ordered with the manufacturer of the motor or with their dealer, which is often quicker and cheaper.

This machine has been manufactured by Saint-Gobain Abrasives S.A.

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<http://www.construction.norton.eu>

e-mail: sales.nlx@saint-gobain.com

Guarantee can be claimed and technical support obtained from your local distributor where machines, spare parts and consumables can be ordered as well:

Benelux and France:

From Saint-Gobain Abrasives
in the Grand-Duché de Luxembourg

Free telephone numbers:

Belgium : 0 800 18951

France: 0 800 90 69 03

Holland: 0 8000 22 02 70

e-mail: sales.nlx@saint-gobain.com

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Tel: 0048 22 868 29 36

Tel/Fax: 0048 22 868 29 27

e-mail: norton-diamond@wp.pl

8 Appendix

8.1 Spare parts list

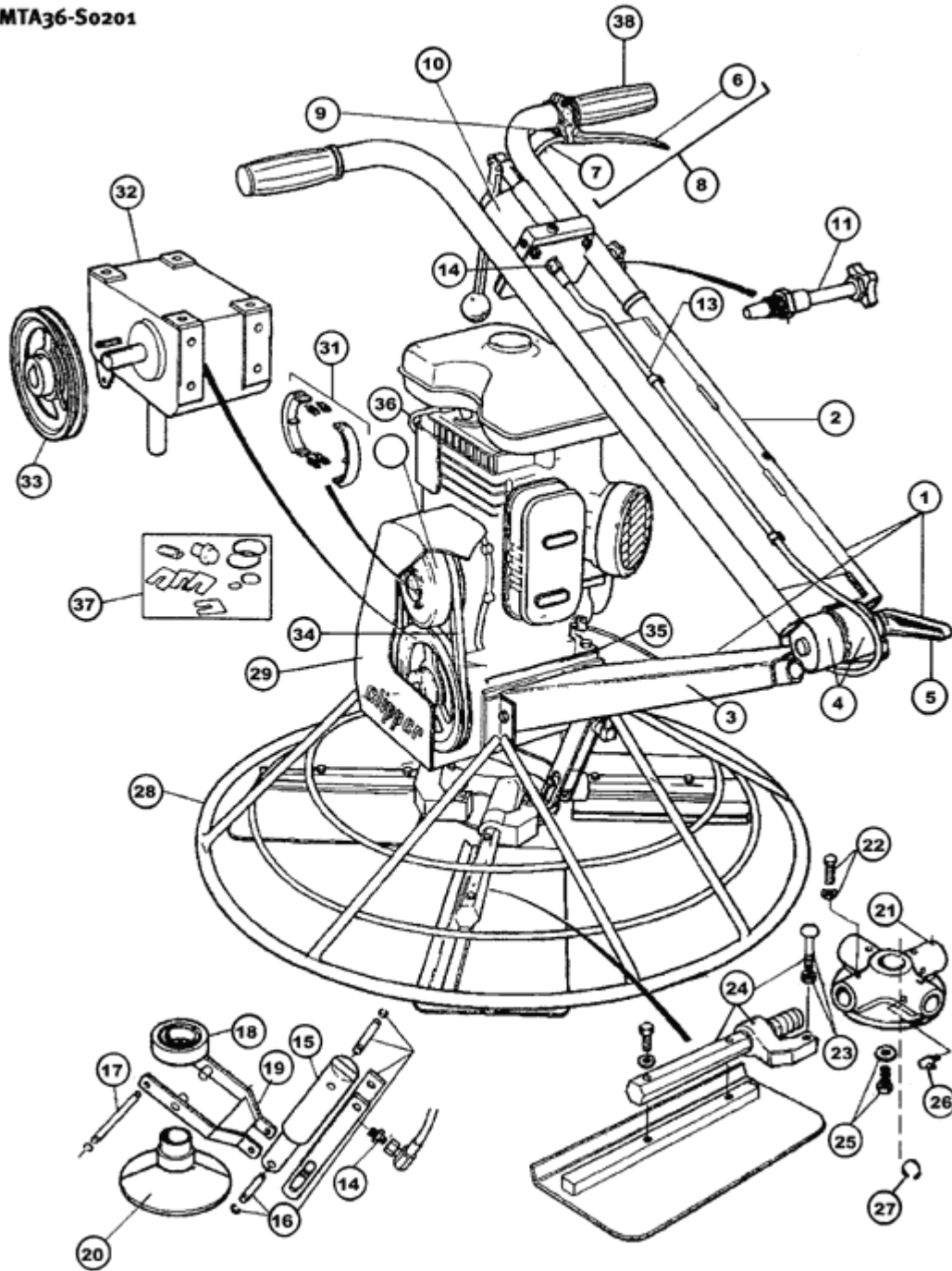
POS.	ART.NUMB.	DENOMINATION	TYPE (*)	REMARKS
1	00310004667	Handle compl.	S	
2	00310004985	Top handle	S	
3	00310004984	Bellow handle	S	
4	00310003986	Handle joint	S	
5	00310004733	Handle blocking bolt assy	S	
6	00310002089	Dead man handle	S	
7	00310004748	Throttle cable	W	
8				
9	00310004029	Dead man handle switch	W	
10	00310004635	Hydraulic pump	W	
11	00310004698	Belief valve	W	
12				
13	00310004718	Hydraulic tube	W	
14	00310004530	Reduction pin	W	
15	00310004691	Ram	W	
16	00310004726	Thrust flanges	S	
17	00310004402	Retaining ring	S	
18	00310004156	Thrust bearing	W	
19	00310004637	Thrust fork	S	
20	00310004202	Collar	S	
21	00310004636	Spider	S	
22	00310004715	Fixing screw for arm	S	
23	00310004737	Adjusting bolt	S	
24	00310004630	Cam and arm assy	S	
25	00310002137	Fixing screw	S	
26	00310004166	Grease cup	S	
27	00310004402	Retaining ring	S	
28	00310004744	Guard ring	S	
29	00310004375	Belt guard	S	
30	00310004272	Clutch	W	
31	00310004352	Clutch shoes (set of 2)	W	
32	00310004370	Reducer	S	
33	00310004275	Pulley reducer	S	
34	00310004367	V-Belt	W	
35	00310004668	Engine support	S	
36	00310004391	Engine Honda GX 160	S	
37	00310004692	Kit spare parts	S	
38	00310004193	Rubber grip	S	

(*): S = Spare part, W = Wear part

Wear parts are worn out through normal use of the machine. The wear period depends a lot on the intensity of use of the machine. Wear parts must be serviced, used and eventually changed following the indications of the manufacturer. Any wear due to normal use of the machine will not be considered as a case of warranty. Genuine Clipper replacement parts should always be used.

8.2 Exploded parts drawing

MTA36-S0201





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