

FB5 SCABBLER

Instructions and Spare Parts List

The MACDONALD Model FB5 SCABBLER is a leap forward in Scabbling Technology. The scabblers block floats between guides and is therefore independent of the handle and frame. This means that no vibration is transmitted to the operator and in fact it is possible for the machine to be moved around using only one hand when cutting. The powerful new cylinder units provide 20% more work output for 20% less air consumed. Bit replacement costs are minimised by the new swap lok bits and noise is reduced by the new cover.



Specifications

| | |
|------------------|---|
| Length | 52in. (1308mm) |
| Width | 18 in. (438mm) |
| Height (Working) | 36in. (890mm) |
| Weight | 286lbs (130kg) |
| Supply Hose | 1in. (25.4mm) |
| Consumption | 91 C.F.M. @90 p.s.i. (43L/Sec. @ 6 bar) |

 **Macdonald**

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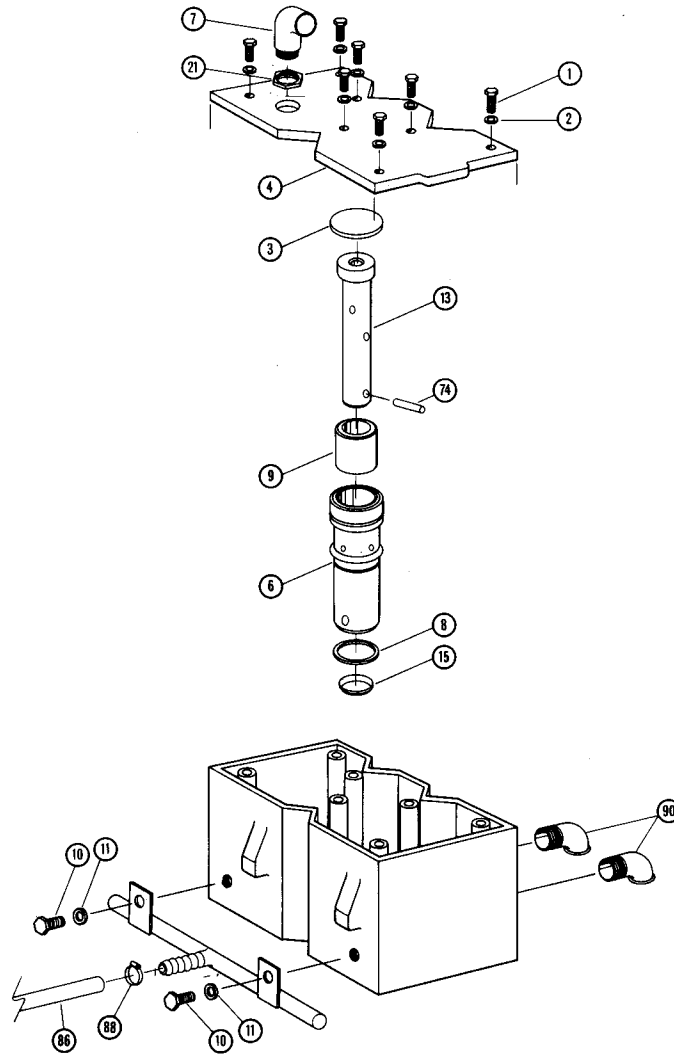
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Specifications

Length
Width
Height (Working)
Weight
Supply Hose
Consumption

CYLINDER BLOCK ASSEMBLY



Spare Parts List Issue 3 1/8/90 Us

| Illn. No. | Part No. | Description | No. Off Per Tool |
|-----------|----------|--------------------------------|------------------|
| 1 | 242044 | Setscrew | 8 |
| 2 | 203026 | Lockwasher | 14 |
| 3 | 242095 | Top Cap | 5 |
| 4 | 242146 | Top Plate | 1 |
| 5 | 242138 | Block | 1 |
| 6 | 242003 | Cylinder | 5 |
| 7 | 242153 | Elbow | 1 |
| 8 | 007006 | Seal | 5 |
| 9 | 242004 | Liner | 5 |
| 10 | 242157 | Setscrew | 2 |
| 11 | 209012 | Washer | 2 |
| 13 | 242005 | Piston | 5 |
| 15 | 242038 | Wiper Ring | 5 |
| 21 | 203066 | Locknut | 2 |
| 22 | 242057 | Castor | 1 |
| 23 | 242854 | Castor Leg | 1 |
| 24 | 242848 | Location Tube | 1 |
| 25 | 242133 | Eyebolt | 1 |
| 26 | 242037 | Cover Bush | 1 |
| 27 | 242032 | Top Cover (Reinforced Plastic) | 1 |
| 28 | 242880 | Cover | 1 |
| 29 | 242149 | Cover Support | 1 |
| 33 | 242844 | Handle (Upper) | 1 |
| 34 | 242820 | Handle (Lower) | 1 |
| 40 | 242850 | Air Pipe Fabrication | 1 |
| 41 | 203044 | Wheel | 2 |
| 42 | 242121 | Setscrew | 2 |
| 43 | 203052 | Lockwasher | 2 |
| 46 | 242137 | Main Frame | 1 |
| 47 | 242878 | Cover Backplate | 1 |
| 48 | 203067 | Control Valve | 1 |
| 49 | 906001 | Hose Clip | 2 |
| 50 | 242155 | Air Hose | 2 |
| 51 | 025121 | Split Pin | 2 |
| 52 | 242156 | Axle Washer | 2 |
| 53 | 242134 | Air Hose Sleeve | 1 |

Not Shown

| | | |
|--------|----------------------------|---|
| 810074 | Lock Shaft (19mm) See note | 5 |
| 810075 | 64mm 6pt Anvil See note | 5 |
| 810076 | 64mm Cross Anvil See note | 5 |

Sub-Assemblies

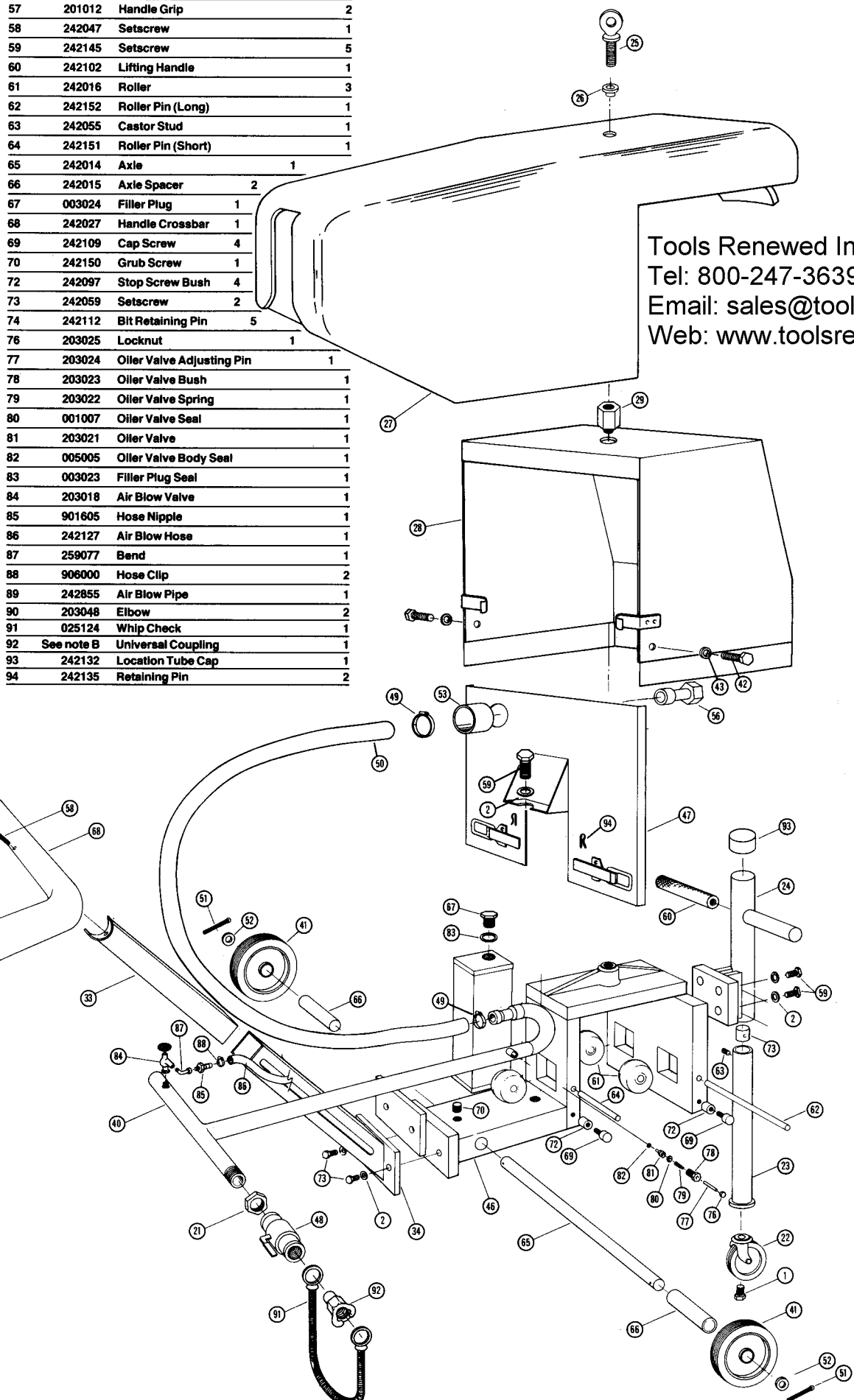
| | |
|--------|---|
| 242604 | Cylinder only with liner fitted includes Part Nos. 242003, 242004, 242038, 001082, 007006 |
| 242603 | Cylinder Unit complete includes Part Nos. 242003, 242004, 242005, 242095, 001082, 007006, 242038. |

Notes

- A The lever for Control Valve 203067 can be supplied separately, the Part Number is 203062.
- B Universal coupling
908302 Double lock - Standard
904502 Claw type - America

HANDLE/MAINFRAME ASSEMBLY

| Illn. No. | Part No. | Description | No. Off Per Tool |
|-----------|------------|---------------------------|------------------|
| 56 | 242086 | Hose Connector | 1 |
| 57 | 201012 | Handle Grip | 2 |
| 58 | 242047 | Setscrew | 1 |
| 59 | 242145 | Setscrew | 5 |
| 60 | 242102 | Lifting Handle | 1 |
| 61 | 242016 | Roller | 3 |
| 62 | 242152 | Roller Pin (Long) | 1 |
| 63 | 242055 | Castor Stud | 1 |
| 64 | 242151 | Roller Pin (Short) | 1 |
| 65 | 242014 | Axle | 1 |
| 66 | 242015 | Axle Spacer | 2 |
| 67 | 003024 | Filler Plug | 1 |
| 68 | 242027 | Handle Crossbar | 1 |
| 69 | 242109 | Cap Screw | 4 |
| 70 | 242150 | Grub Screw | 1 |
| 72 | 242097 | Stop Screw Bush | 4 |
| 73 | 242059 | Setscrew | 2 |
| 74 | 242112 | Bit Retaining Pin | 5 |
| 76 | 203025 | Locknut | 1 |
| 77 | 203024 | Oiler Valve Adjusting Pin | 1 |
| 78 | 203023 | Oiler Valve Bush | 1 |
| 79 | 203022 | Oiler Valve Spring | 1 |
| 80 | 001007 | Oiler Valve Seal | 1 |
| 81 | 203021 | Oiler Valve | 1 |
| 82 | 005005 | Oiler Valve Body Seal | 1 |
| 83 | 003023 | Filler Plug Seal | 1 |
| 84 | 203018 | Air Blow Valve | 1 |
| 85 | 901605 | Hose Nipple | 1 |
| 86 | 242127 | Air Blow Hose | 1 |
| 87 | 259077 | Bend | 1 |
| 88 | 906000 | Hose Clip | 2 |
| 89 | 242855 | Air Blow Pipe | 1 |
| 90 | 203048 | Elbow | 2 |
| 91 | 025124 | Whip Check | 1 |
| 92 | See note B | Universal Coupling | 1 |
| 93 | 242132 | Location Tube Cap | 1 |
| 94 | 242135 | Retaining Pin | 2 |



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Maintenance and Operating Instructions

Lubrication

Automatic Lubrication while operating is provided by an automatic Oiler Valve connected to the Oil Reservoir. Correct lubrication is most important and the oil reservoir must be filled daily with the correct grade of oil as shown on the Lubricant Selection Chart. The Oiler Valve is pre-set before leaving the factory for the correct flow of oil but adjustment of flow can be achieved by re-setting the adjusting screw as outlined in the Lubricator Adjustment Section.

Lubricator Adjustment

1. Refer to the Main Frame/Handle Illustration.
2. Slacken Lock Nut, Illustration 76.
3. Turn Adjusting Screw, Illustration 77, Clockwise to decrease flow or Anti-Clockwise to increase flow.
4. Re-tighten Lock Nut.

Wiper Rings

The Piston Wiper Rings, Illustration Number 15, should be examined frequently and replaced if showing any sign of wear. These rings protect the Pistons and Cylinders from the ingress of dirt and grit, so if they are allowed to deteriorate, the wear on the Pistons and Cylinders will be very much accelerated.

Lubricant Selection

Use a solvent refined parafinic mineral oil, preferably with emulsifying, anti-wear, anti-rust and adhesive type additives. The viscosity should be I.S.O. viscosity grade 40 for low ambient temperatures and I.S.O. viscosity grade 100 for high ambient temperature applications. Some suitable oils are listed in the table below.

Lubrication Chart

| Ambient Temps °C(°F) | TEXACO | MOBIL | GULF | ELF | SHELL | B.P. | BURMAH CASTROL | ESSO |
|----------------------|------------|----------------|----------------------|------------|-----------------|----------------------|-----------------------|-----------|
| Below 4(40) | Capella AA | Mobil DTE11 | Gulf Eskimo 36 | Capella AA | Shell Clavus 17 | B.P. Energol HLP50 | Castrol Hyspin AWS 10 | Zerice 46 |
| 4(40) to 32(90) | Capella B | Mobil Almo 525 | Gulf Eskimo 45 or 47 | Capella B | Shell Clavus 25 | B.P. Energol LPT 80 | Castrol Hyspin AWS 32 | Zerice 46 |
| Above 32(90) | Capella D | Mobil Almo 527 | Gulf Eskimo 48 or 49 | Capella D | Shell Clavus 33 | B.P. Energol LPT 100 | Castrol Hyspin AWS 68 | Zerice 68 |

Bits

Two different types of Swop-lok bits are available, viz
 a) Cross bits for deep jobs and square edges.
 b) 6 Point Bits for surfacing and moderately deep jobs on which square edges are not essential.

A set of lockshafts should outlive three sets of bits and the average bit life should be 80 hours.

To change the bits, simply turn the machine on its side, and using a suitably sized punch drive out the bit retaining pin. It should now be possible to remove the bit from the piston.

When installing new bits, always coat the bore of the piston with a silicon grease to facilitate subsequent removal by preventing corrosion.

Operation

With the Front Castor, Illustration 22, in its uppermost position, the machine can be manipulated easily either with a back and forward motion or a side to side motion.

With the Front Castor in its lower position, the machine is in the transport mode and the piston units should not be operated.

Air is provided to operate the pistons by simply opening the Control Valve, Illustration 48, and for blowing away debris by opening the Air Blow Valve, Illustration 84.

A sound proofing cover, Illustration 28, provides noise attenuation and protection of the operator from flying particles of concrete but where noise is not important and some other means of protection can be provided for the operator and others, e.g. screens and protective clothing, the machine can be operated with the sound proofing cover removed, and with the streamlining Top Cover, Illustration 27, removed.

An Eyebolt, Illustration 25, provides a simple means of lifting the machine on to the back of a pickup truck or trailer.