

FB5 SCABBLER

Instructions and Spare Parts List

The MACDONALD Model FB5 SCABBLER is a leap forward in Scabbling Technology. The scabbler 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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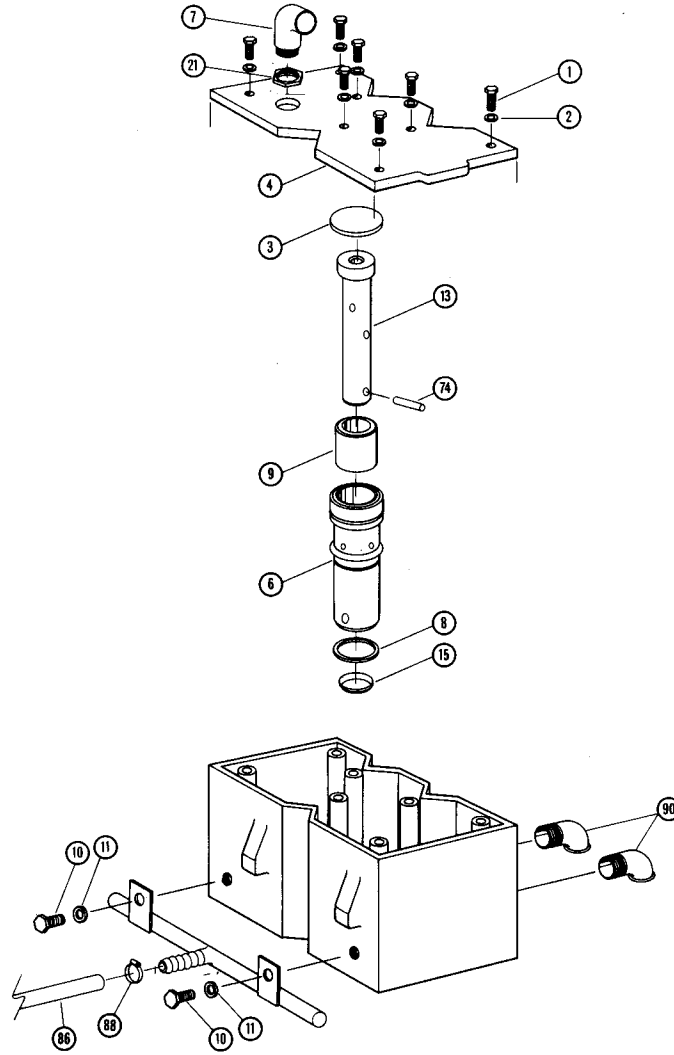
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Specifications

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

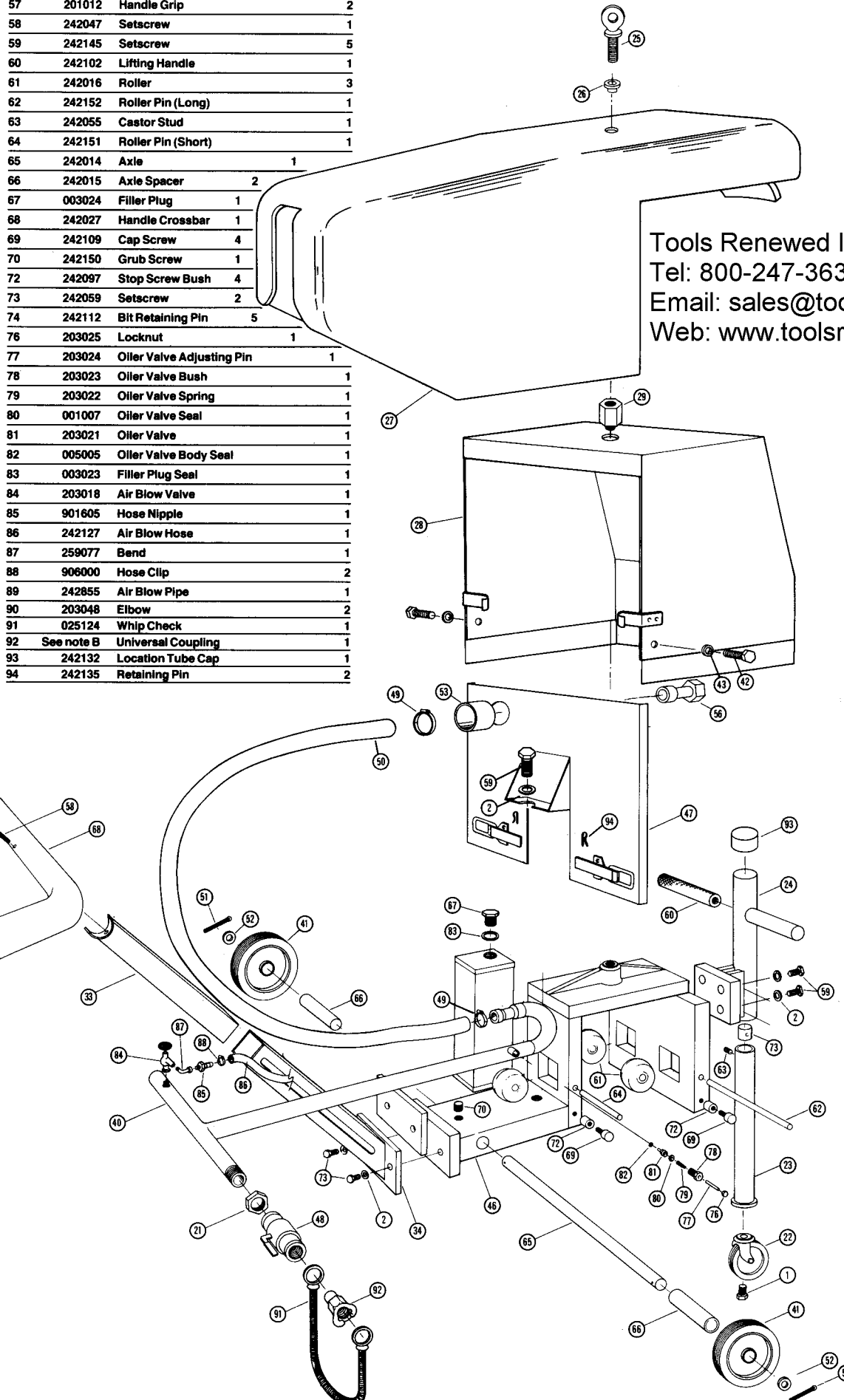
242604	Cylinder only with liner fitted includes Part Nos. 242003, 242004, 242038, 001082, 007006
242603	Cylinder Unit complete includes Part Nos. 242003, 242004, 242005, 242095, 001082, 007006, 242038.

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.