

Specifications:

model	HEADS		WEIGHT		LENGTH		WIDTH		HEIGHT		WRKG WIDTH		AIR CONS		REC.WRKG	HOSE FITTING
	QTY	lbs	kg	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	cfm	L/sec	psi
FB5-VR	5	298	135	52	1308	18	438	36	890	12..25	312	95	46	90	6	3/4"NPT

Pneumatic Tool Test Results : Model FB5-VR ROCK DRILL

Total Acceleration Level a + K = Guaranteed Maximum 3.24 0.11 3.35 m/sec/sec - 3-Axes Vector sum re: ISOEN 28662/1/3/5		Sound Power Level (dB(A)) a + K= Guaranteed Maximum 104 1 105 re:2000/14/EC	
Maximum Total Vibration level transmitted to trained operator under actual working conditions		= 5 m/s/s	
Minimum Total Vibration level transmitted to trained operator under actual working conditions		= 2.8 m/s/s	
Average Total Vibration level transmitted to trained operator under actual working conditions		= 3.8 m/s/s	
EC DECLARATION OF CONFORMITY: Machinery Safety			
We Macdonald Air Tools Ltd., East Kilbride , Scotland declare under our sole responsibility that the product to which this declaration relates, conforms to the requirements of the Council Directive of 23rd July 1998 on the approximation of the laws of the Member States relating to the Machinery Directive 98/37/EC and any subsequent amendments. Other Applicable Directives:84/537/EEC, 79/113/EEC,2000/14/EC, 2002/44/EC Applicable Standards:ISOEN 28662/1/2/3/5, 792-4:2000,ENISO 3744:1995, ENISO 3746:1995, ENISO 12096			
Product Name: Vibration Reduced Pole Scabbler		Model : FB5-VR	Serial Number:
Signature of Certifier: <i>E.J.Van der Stighelen</i>		(EJ Van der Stighelen - Engineering Manager)	
Date & Place of issue: / / EAST KILBRIDE			

The Macdonald Model FB5-VR 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 less vibration is transmitted to the operator.



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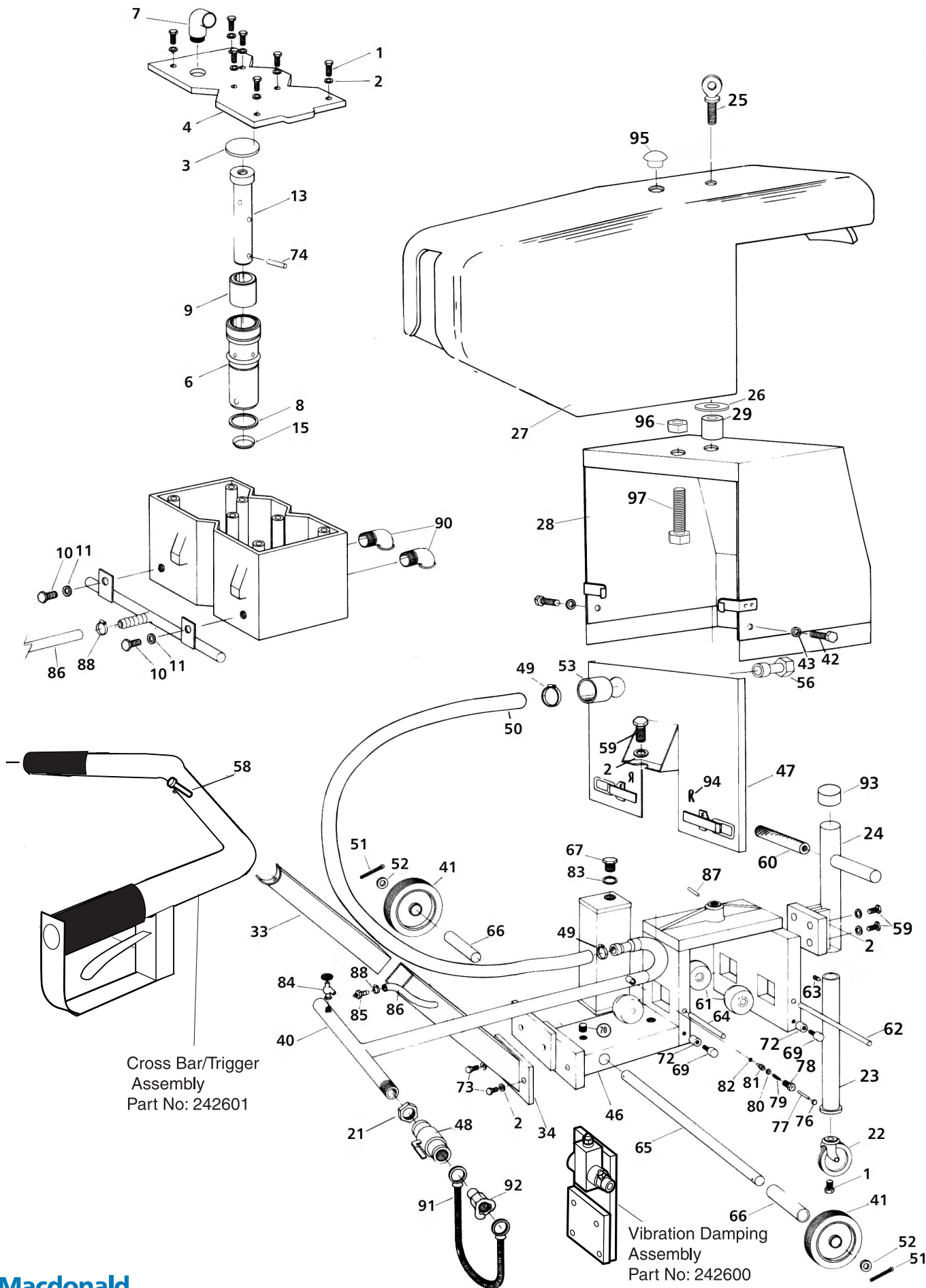
Specification & Parts List

FB5-VR
Vibration Reduced Trolley Scabbler

Macdonald

GENUINE SPARE PARTS

FB5-VR FLOOR SCABBLER



ILL	PART NO.	DESCRIPTION	QTY
1	242044	Setscrew	a
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	246001	Piston	5
15	242038	Wiper Ring	5
21	203066	Locknut	1
22	242057	Castor	1
23	242854	Castor Leg	1
24	242848	Location Tube	1
25	242162	Eyebolt	1
26	242165	Washer	1
27	242032	Top Cover (Reinforced Plastic)	1
28	242880	Cover	1
29	242164	Spacer	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	Spilt Pin	2
52	242156	Axle Washer	2
53	242134	Air Hose Sleeve	1
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	242601	Crossbar/ Trigger Assembly	1
69	242109	Cap Screw	4
70	242150	Grub Screw	1
72	242097	Stop Screw Bush	4
73	242059	Setscrew	2
74	203037	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	242163	Locking Pin	1
88	906000	Hose Clip	2
89	242855	Air Blow Pipe	1
90	203048	Elbow	2
91	025124	Whip Check	1
92	908302	Universal Coupling	1
93	242132	Location Tube Cap	1
94	242135	Retaining Pin	2
95	242168	Handknob	1
96	242167	Locknut	1
97	242166	Setscrew	1

Not Shown
 * 810025 5 Point Bit
 * 810019 9 Point Bit
 * 810009 Cross Bit
 *Alternatives

MAINTENANCE & 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 paraffinic 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.

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.

Lubrication Chart

Ambient Temps 0 C (0 F)	TEXACO		MOBIL		GULF		ELF		SHELL		B. P.		BURMAH		CASTROL		ESSO	
	Capelia AA	Mobil DTEII	Gulf Eskimo 525	Capelia AA 36	Shell Clavus 17	B.P. Energol HLP50	Castrol Hyspin AWS 10	Zerice 46										
Below 4(40)																		
4(40) to 32(90)	Capelia B	Mobil Almo	Gulf Eskimo 525	Capelia B 45 or 47	Shell Clavus 25	B. P. Energol LPT 80	Castrol Hyspin AWS 32	Zerice 46										
Above 32(90)	Capelia D	Mobil Almo 527	Gulf Eskimo	Capelia D 48 or IQ	Shell Clavus 33	B. P. Energol LPT100	Castrol Hyspin AWS	Zerice 68										