

Specifications:

model	QTY	WEIGHT		LENGTH		WIDTH		HEIGHT		WRKG WIDTH		AIR CONS		REC.WRKG		HOSE FITTING
		lbs	kg	ins	mm	ins	mm	ins	mm	ins	mm	cfm	L/sec	psi	bar	
U11	11	308	140	50	1270	33	838	33	838	19	483	300	142	90	6	1" NPT
U7	7	266	121	50	1270	30	762	33	838	15.3/4	400	200	95	90	6	1" NPT
U5	5	214	97	50	1270	25	635	33	838	11.1/4	286	150	70	90	6	1" NPT
U3	3	125	57	50	1270	25	635	33	838	5.5/8	143	100	48	90	6	1" NPT

Pneumatic Tool Test Results:

MODEL	WEIGHT		WEIGHTED ACCELERATION LEVEL M/sec/sec	ACCELERATION LEVEL "db"	NOISE LEVEL PRESSURE db(A)	NOISE LEVEL POWER db(A)
	kg	lbs				
U11	140	308	15.60	143.86	90	110
U7	121	266	24.22	147.68	88	108
U5	97	214	17.9	145.06	86	106
U3	57	125	13.90	150.08	85	105

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 the 23rd July 1998 on the approximation of the laws of the Member States relating to the Machinery (98/37/EC) and any subsequent amendments.
Other Applicable Directives : 84/537/EEC, 79/113/EEC - Applicable Standards : EN 28662-5, 28662-2, 28662-3, 792-4:2000

Product Name: "u tYPE tROLLEY sCABBLER" Model : Serial Number :
Signature of Certifier : (E J Van Der Stighelen - Engineering Manager) Date & Place of issue : / / East Kilbride

Manufactured By:



MACDONALD AIR TOOLS LIMITED

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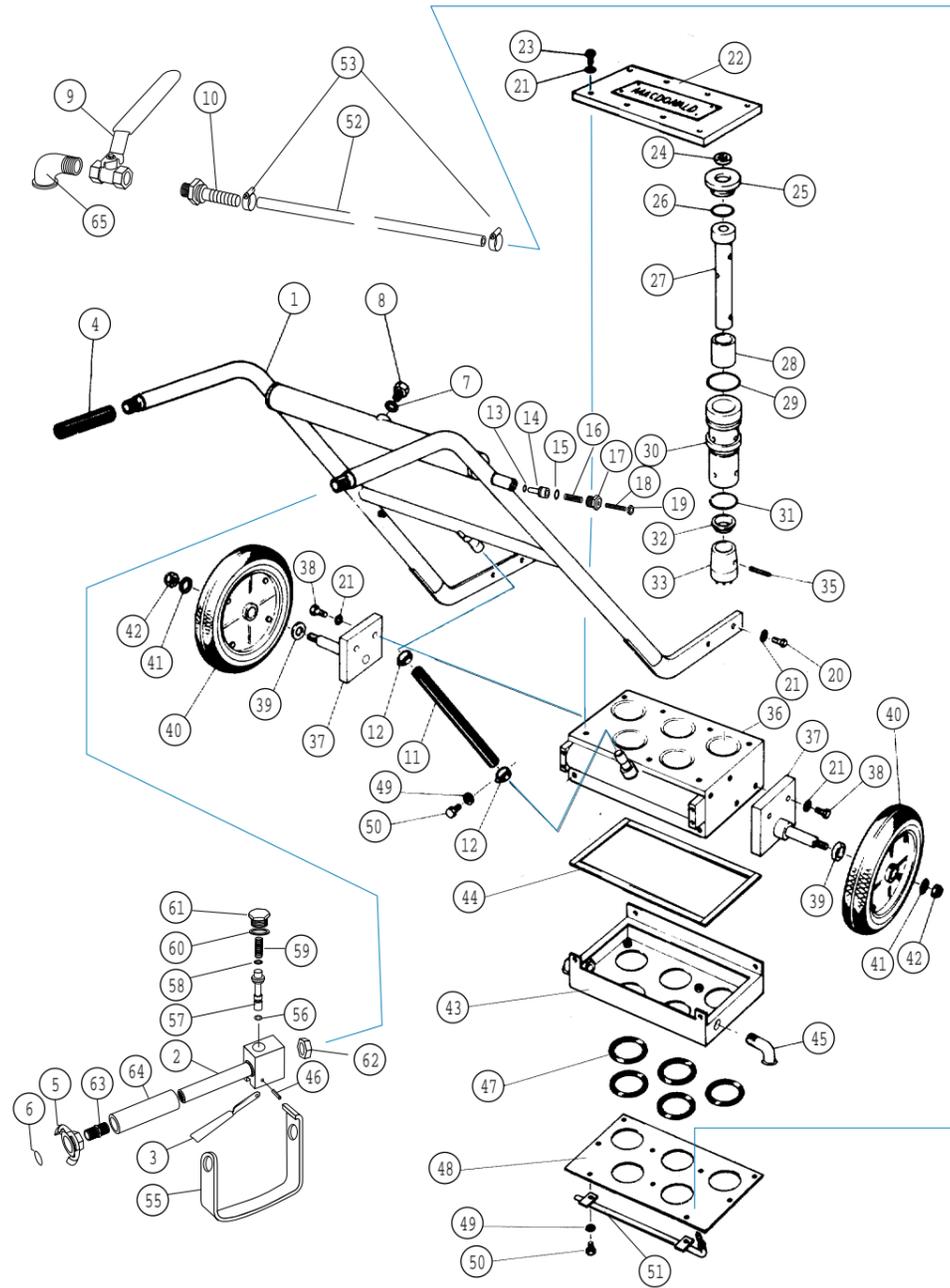
Pneumatic Scabbling Tools are specifically designed for all types of surface work on concrete where it is necessary to carry out surface hammering without in any way damaging the basic concrete.

Specification & Parts List

U-Type
Multi-Scabblers



U-Type Scabblers



Macdonald GENUINE SPARE PARTS

U-TYPE MULTI SCABLERS

#	Tool	Part #.	Description	Qty
1	U3	201801	Handle Frame	1
	U5	202801	Handle Frame	1
	U7	203801	Handle Frame	1
	U11	204801	Handle Frame	1
2	U3,U5,U7,U11	207810	Throttle Valve Body	1
3	U3,U5,U7,U11	109031	Throttle Lever	1
4	U3	201012	Handle Grip	1
	U5,U7,U11	203017	Handle Grip	1
5	U3	904400	Universal Coupling	1
	U5,U7,U11	904401	Universal Coupling	1

#	Tool	Part #.	Description	Qty
6	U3,U5,U7,U11	908001	Universal Coupling gasket	1
7	U3,U5,U7,U11	003023	Oil Reservoir Plug Gasket	1
8	U3,U5,U7,U11	003024	Oil Reservoir Plug	1
9	U3,U5,U7,U11	203075	Control Valve (Air Blow)	1
10	U3,U5,U7,U11	901605	Hose Nipple	1
11	U3	201013	Main Air Hose	1
	U5,U7,U11	203019	Main Air hose	1
12	U3	906101	Hose Clips	2
	U5,U7,U11	906001	Hose Clips	2
13	U3,U5,U7,U11	005005	Oiler Valve Body Seal	1
14	U3,U5,U7,U11	203021	Oiler Valve	1

#	Tool	Part #.	Description	Qty
15	U3,U5,U7,U11	001007	Oiler Valve seal	1
16	U3,U5,U7,U11	203022	Oiler Valve Spring	1
17	U3,U5,U7,U11	203023	Oiler Valve Bush	1
18	U3,U5,U7,U11	203024	Oiler Valve Adjusting Pin	1
19	U3,U5,U7,U11	203025	Adjusting Pin Locknut	1
20	U3,U5,U7,U11	912507	Handle Set Screw	4
21	U3,U5,U7,U11	203026	Lock Washer	13,15,17,21
22	U3	201015	Top Plate	1
	U5	202004	Top Plate	1
	U7	203027	Top Plate	1
	U11	204004	Top Plate	1
23	U3,U5,U7,U11	912507	Top Plate Set Screw	5,7,9,13
24	U3,U5,U7,U11	203028	Top Cap Insert	3,5,7,11
25	U3,U5,U7,U11	203029	Top Cap	3,5,7,11
26	U3,U5,U7,U11	203030	Top Cap Seal	3,5,7,11
27	U3,U5,U7,U11	203031	Piston	3,5,7,11
28	U3,U5,U7,U11	203032	Cylinder Liner	3,5,7,11
29	U3,U5,U7,U11	203033	Cylinder Top Seal	3,5,7,11
30	U3,U5,U7,U11	203034	Cylinder	3,5,7,11
31	U3,U5,U7,U11	203035	Cylinder Bottom Seal	3,5,7,11
32	U3,U5,U7,U11	203036	Wiper Ring	3,5,7,11
33	U3,U5,U7,U11	810019	Piston Bit-9 point (note A)	3,5,7,11
33	U3,U5,U7,U11	810019	Piston Bit-5 point (note A)	3,5,7,11
33	U3,U5,U7,U11	810009	Piston Bit-cross (note A)	3,5,7,11
35	U3,U5,U7,U11	203037	Piston Bit Pin	3,5,7,11
36	U3	201816	Cylinder Block	1
	U5	202805	Cylinder Block	1
	U7	203838	Cylinder Block	1
	U11	204805	Cylinder Block	1
37	U3	201819	Axle Block	2
	U5,U7,U11	203841	Axle Block	2
38	U3	912507	Axle Block Set Screw	4
	U5,U7,U11	912510	Axle Block set screw	4
39	U3,U5,U7,U11	203043	Wheel Distance Piece	4
40	U3	201020	Wheel 8" dia	2
	U5,U7,U11	203044	Wheel 10" dia	2
41	U3,U5,U7,U11	203045	Wheel Washer	2
42	U3,U5,U7,U11	002008	Wheel Locknut	2
43	U3	201821	Shroud Body	1
	U5	202807	Shroud Body	1
	U7	203846	Shroud Body	1
	U11	204807	Shroud Body	1
44	U3	201022	Shroud Sealing Strip	1
	U5	202008	Shroud Sealing Strip	1
	U7	203047	Shroud Sealing Strip	1
	U11	204008	Shroud Sealing Strip	1
45	U3,U5,U7,U11	203048	Exhaust Elbow Outlet	2
46	U3,U5,U7,U11	109036	Throttle Lever Pivot Pin	1
47	U3,U5,U7,U11	203050	Shroud Sealing Ring	3,5,7,11
48	U3	201023	Shroud Plate	1
	U5	202009	Shroud Plate	1
	U7	203051	Shroud Plate	1
	U11	204009	Shroud Plate	1
49	U3,U5,U7,U11	203052	Lock Washer	12,15,16,20
50	U3,U5,U7,U11	912103	Shroud Set Screws	12,15,16,20
51	U3	201824	Air Blow Pipe	1
	U5	202810	Air Blow Pipe	1
	U7	203853	Air Blow Pipe	1
	U11	204810	Air Blow Pipe	1
52	U3,U5,U7,U11	203055	Air Blow Hose	1
53	U3,U5,U7,U11	906000	Hose Clip	2
54	U3,U5,U7,U11	615012	Wheel Dust seal (not illustrated)	4
55	U3,U5,U7,U11	207016	Trigger Guard	1
56	U3,U5,U7,U11	005007	Throttle Valve Stem Seal	1
57	U3,U5,U7,U11	109046	Throttle Valve Stem	1
58	U3,U5,U7,U11	109039	Throttle Valve Seal	1
59	U3,U5,U7,U11	023046	Throttle Valve Spring	1
60	U3,U5,U7,U11	109043	Seal	1
61	U3,U5,U7,U11	109033	Throttle Valve Plug	1
62	U3,U5,U7,U11	203049	Lock Nut	1
63	U3,U5,U7,U11	901007	Nipple	1
64	U3,U5,U7,U11	007005	Handgrip	1
65	U3,U5,U7,U11	203074	Elbow Connection	1

Note A

The Piston Bits, 9 Point (810019), 5 Point (810025) and Cross (810009) are alternatives to each other.

MAINTENANCE AND REPAIR

Attention to a few fundamental points will prolong the life of the tool, keep it in service and ensure maximum working efficiency. Ensure that the operator reads and understands what he is required to do to comply with these points prior to using the tool. Ensure also that he carries out his part of the instructions.

1. Ensure the machine is disconnected from air supply before doing any work on it.
2. Ensure the machine is held firmly in a vice or fixture for dismantling.
3. Correct tools for dismantling and assembling must be used.
4. When using a solvent or cleaner, follow the manufacturer's instructions.
5. Before clearing the machine for use, ensure that all the connections and joints are tight, looseness causes air losses, vibration and general inefficiency.
6. Always blow out the hose before connecting to the tool to prevent dirt or other foreign matters being carried into the working parts of the tool.

Lubrication

All pneumatic tools require regular and adequate lubrication to prevent excessive wear and ensure efficient operation. Particular attention should be paid to lubrication during the initial running in period of a new tool. The tool works at top speed and full power right from the start, so lack of lubrication during this period, before the tool is loosened, can lead to excessive wear on all working parts. Where an oil reservoir is incorporated in the tool it should be filled daily. Before starting work each day, pour a small quantity of the correct grade of oil into the air inlet and blow out the hose to ensure no dirt or moisture is lying in the hose. Couple the hose to the tool and give the tool a short burst. Care must be taken not to over-oil the tool to avoid excess oil blowing from the tool and damaging the working surface. Only clean oil of the correct grade, as stated, should be used for lubrication. A heavy or dirty oil is useless as it will only serve to "gum up" the tool.

Recommended Oil :

The following oils are recommended for use with Macdonald Tools and these or their equivalents should be used in normal conditions. For abnormal conditions e.g. extreme heat, consult the oil company.

SHELL	Clavus 25
BP	Energol LPT 80
ESSO	Zerice 46
MOBIL	Almo 525

Air Supply

Always ensure that an adequate supply of compressed air at a pressure of 6 bar (90 p.s.i.g.) minimum is available to the tool. Reduced air pressure will affect the performance of the tool adversely.

Use the shortest length of hose possible between the compressor and the tool to avoid undue pressure drop through the hose.

General

The tools require adequate flows of compressed air at around 6 bar pressure for efficient operation. Always blow out the hose carefully before coupling to the tool in case dirt or foreign matter is carried into the tool in the air stream. If the tool sticks completely, the most likely cause is dirt or improper or insufficient lubrication. If this happens the tool should be dismantled by a competent engineer, the parts should be thoroughly cleaned in a suitable solvent, lightly oiled and re-assembled. Keep the tool tight, do not allow any fasteners or connections to become loose because this can lead to air losses, vibration, excessive wear and inefficiency. Always use sharp mills and chisels or spades because dull cutting edges cause the tool to absorb the blow instead of cutting through the workpiece. This results in operator fatigue, chisel breakages and poor productivity.

SAFETY AND OPERATING INSTRUCTIONS (General)

1. Never exceed the maximum air pressure recommended for the machine, usually this is 7.5 bar (110 p.s.i.g.) for hand held machines.
2. Do not use damaged, frayed or deteriorated hoses and fittings. Always store hoses properly after use away from heat sources or sunlight. A hose failure can cause injury.
3. When blowing out a hose or air line, ensure the open end is held securely, a free end will whip and can cause injury. Open the supply air cock carefully and ensure that any particles are ejected safely. A blocked air hose can become a compressed air gun.
4. Close the air cock at the compressor or the supply line and release the line pressure before disconnecting the hose. The air cock should be within easy reach of the work area.
5. Personal protection such as safety glasses, gloves and safety footwear should be worn by the operator and other personnel where work operation or regulations require their use. Ear defenders should be worn.
6. Depending on the material being worked on, precautions may be required against the generated dust.
7. Do not use in an explosive atmosphere where an accidental spark could create a hazard.

USE OF THE MACHINE

1. Use only approved inserted tools, Scabblers / Scaler cutting bits, Rammer / Tamper butts or needles.
2. Worn Inserted Tools, Cutting bits / butts or needles can promote breakage, reduce work rate and increase vibration. An inserted tool Cutting bit / butt or needle which breaks can cause injury.
3. Do not use frozen tools. In freezing conditions, store tools undercover, preferably in a warm building, Freezing conditions can make hardened steels brittle and cause breakage.
4. A proper working position should be adopted to ensure stability in the event of a breakage of an inserted tool, Cutting bit/butt or needle.
5. Always turn off compressed air supply and release the air pressure in the hose before changing the Inserted Tool, Cutting bit / butt or needles or before disconnecting the hose.
6. Always present the tool as squarely as possible to the working surface to minimise the effects of side loading on the Inserted tool, Cutting bit / butt or needles.
7. Do not use in circumstances where the tool may strike a live but possibly concealed electric cable.
8. If the compressed air supply stops during operation of the machine the throttle lever should be released immediately.
9. Never hold onto the inserted tool, Cutting bit / butt or needles whilst operating a Machine.

Warning

NEVER ATTEMPT TO CHANGE A CHISEL, MOIL, ASPHALT CUTTER OR OTHER ACCESSORY ON A PNEUMATIC TOOL UNLESS THE TOOL HAS BEEN COMPLETELY DISCONNECTED FROM THE AIR SUPPLY.

THE CYLINDER OF THIS TOOL IS HARDENED AND SHOULD NOT BE WELDED UNDER ANY CIRCUMSTANCES. WELDING CAN CAUSE LOCAL SOFTENING.