



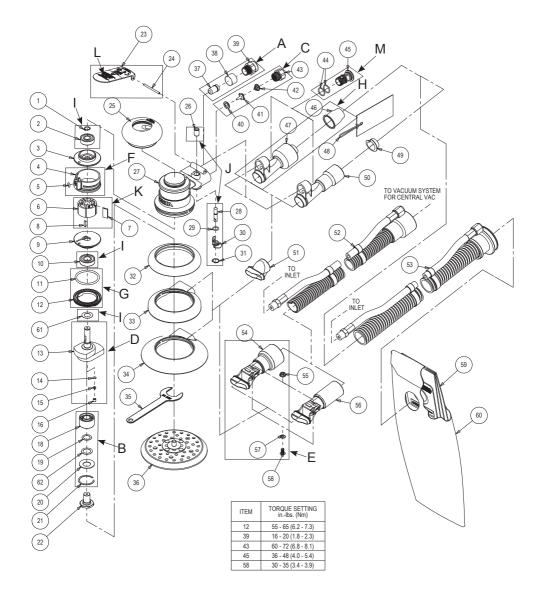
Mirka® ROS

125 mm (5") • 150 mm (6")





Parts Page



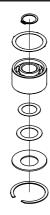
Parts List

Item 1	D/N	Description	Otro			
	P/N MPAGGAG	Description RETAINING RING	Qty.			
2	MPA0021		1			
3		REAR ENDPLATE				
4		CYLINDER ASSEMBLY				
5	MPA0042		1			
6	MPB0005		1			
7	MPA0010		5			
8	MPA0041		1			
9		FRONT ENDPLATE	1			
10	MPA0019	BEARING	1			
11	MPA0045		1			
12	MPA0001	LOCK RING	1			
	MPB0277	7 5 mm (3/16 in.) ORBIT AirSHIELD™ SHAFT BALANCER FOR 125 mm (5 in.) PADS				
12	MPB0278	5 mm (3/16 in.) ORBIT AirSHIELD™ SHAFT BALANCER FOR 150 mm (6 in.) PADS	1			
13	MPB0279	2.5 mm (3/32 in.) ORBIT AirSHIELD™ SHAFT BALANCER FOR 125 mm (5 in.) PADS	1			
	MPB0280	2.5 mm (3/32 in.) ORBIT AirSHIELD™ SHAFT BALANCER FOR 150 mm (6 in.) PADS	1			
14	MPA0122		1			
15		CHECK VALVE	1			
16	MPA0120	RETAINER	1			
17	N/A					
18		DOUBLE ROW BEARING	1			
19	MPA0016		1			
20	MPA0017		1			
21	MPA0018	RETAINING RING	1			
22	MPB0018	SPINDLE	1			
23	MPA1699	LEVER FOR 12,000 rpm, 125 mm (5 in.) / 150 mm (6 in.) PADS 5 mm (3/16 in.) ORBIT MACHINES	1			
		LEVER FOR 12,000 rpm, 125 mm (5 in.) / 150 mm (6 in.) PADS 2.5 mm (3/32 in.) ORBIT MACHINES	1			
24	MPA0031		1			
25		65 mm (2 1/2 in.) GRIP (Optional)	OPTIONAL			
		70 mm (2 3/4 in.) GRIP (Optional)	OPTIONAL			
26	MPA0290 MPA0015	75 mm (3 in.) GRIP (Standard))	1			
			-			
27 28		HOUSING VALVE STEM ASSEMBLY	1			
	MPA0043		-			
29 30		SPEED CONTROL	1 1			
31		RETAINING RING	1			
32		125/150 mm (5/6 in.) NON-VACUUM SHROUD	1			
33		SuperVAC™ SHROUD for 125 mm (5 in.) Delta, TE, LP and Screen Abrasive pads	1			
34		SuperVAC™ SHROUD for 150 mm (6 in.) Screen Abrasive and LP Pads	1			
35		24 mm PAD WRENCH (supplied with each tool)	1			
36	NA NA	SEE LITERATURE FOR PADS (type/size determined by model)	1			
37	MPA0062		1			
38		MUFFLER INSERT(for 12,000 rpm Machines)	1			
39		MUFFLER HOUSING	1			
40	MPA0009		1			
41	MPA0007		1			
42		VALVE SPRING	1			
43		INLET BUSHING	1			
44	MPA0044		2			
45		DB RETAINER	1			
46		28mm (1 in.) HOSE SEAL	1			
47		28 mm (1 in.) HOSE SuperVAC™ DB SWIVEL EXHAUST ASSEMBLY (Standard for DB))	1			
		19mm (3/4 in.) HOSE SEAL TAG	OPTIONAL			
48		28mm (1 in.) HOSE SEAL TAG	1			
49		19mm (3/4 in.) HOSE SEAL	OPTIONAL			
50	MPA0409		OPTIONAL			
51		SuperVAC™ DB EXHAUST ADAPTER (for use with SuperVAC™ Shroud)	1			
		Ø 19 mm (¾ in.) VAC HOSE TO Ø 19 mm (¾ in.) x Ø 28 mm (1 in.) HOSE ADAPTER COUPLING AND AIRLINE	OPTIONAL			
I	MPA0300	ASSEMBLY INCLUDES: MPA0200 Ø 19 mm (% in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0088 19 mm (% in.) Hose x				
I	IVII AUSUU	28 mm (1 in.) Hose Adapter, MPA0302 Ø 6.3 mm (1/4 in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø				
52		6.3 mm (¼ in.) Airline & Ø 19 mm (¾ in.) Vacuum Hose (5)				
32		Ø 28 mm (1 in.) VAC HOSE TO Ø 28 mm (1 in.) x Ø 38 mm (1 ½ in.) FRICTION FIT ADAPTER AND AIRLINE	OPTIONAL			
I	MPA0392	ASSY. (Optional) INCLUDES: MPA0034 Ø 28 mm (1 in.) x 1.8 m (6 ft.) Vacuum Hose, MPB0092 Ø 28 mm (1 in.)				
I		Hose Thread x Ø 38 mm (1 ½ in.) Friction Fit Adapter, MPA0033 Ø 6.3 mm (¼ in.) x 1.8 m (6 ft.) Airline with Fittings,				
—	+	MPA0027 Bungee for Ø 6.3 mm (¼ in.) Airline & Ø 28 mm (1 in.) Vacuum Hose (5)				
I	MPA0412	Ø 28 mm (1 in.) VAC HOSE TO Ø 28 mm (1 in.) DOUBLE BAG FITTING AND AIRLINE ASSY. (Standard for DB)	1			
1		INCLUDES: MPA0034 Ø 28 mm (1 in.) x 1.8 m (6 ft.) Vacuum Hose, MPB0123 Ø 28 mm (1 in.) Hose to Double Bag Vacuum Fitting, MPA0033 Ø 6.3 mm (¼ in.) x 1.8 m (6 ft.) Airline with Fittings, MPA0027 Bungee for Ø 6.3 mm (¼				
		in.) Airline & Ø 28 mm (1 in.) Vacuum Hose (5)				
1		MI Allille & Ø 28 mm (1 m.) vacuum Hose (5) Ø 19 mm (¾ in.) VAC HOSE TO Ø 19 mm (¾ in.) DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (Optional	OPTIONAL			
53						
53						
53	MPA0411	for DB) INCLUDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To				
53	MPA0411	for DB) INCLUDES: MPA0200 Ø 19 mm (% in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (% in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (% in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø				
		for DB) INCLUDES: MPA0200 Ø 19 mm (½ in.) ½ 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (½ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (½ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø (6.3 mm (½ in.) Airline & Ø 19 mm (½ in.) Vacuum Hose (5)	1			
54	MPA0099	for DB) INCLUDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (¼ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (¼ in.) Airline & Ø 19 mm (¾ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV)	1 1			
54 55	MPA0099 MPA0048	for DB) INCL UDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (¼ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (¼ in.) Airline å Ø 19 mm (¼ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV) NUT	1			
54 55 56	MPA0099 MPA0048 MPA0205	for DB) INCLUDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (¼ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (¼ in.) Airline & Ø 19 mm (¾ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV)	1 OPTIONAL			
54 55	MPA0099 MPA0048	for DB) INCLUDES: MPA0200 Ø 19 mm (½ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (½ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (½ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (½ in.) Airline & Ø 19 mm (½ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV) NUT SuperVAC™ CV 19 mm (½ in.) SWIVEL EXHAUST ASSEMBLY (Optional for CV)	1			
54 55 56 57	MPA0099 MPA0048 MPA0205 MPA0047 MPA0769	for DB) INCLUDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (¼ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (¼ in.) Airline & Ø 19 mm (¾ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV) NUT SuperVAC™ CV 19 mm (¾ in.) SWIVEL EXHAUST ASSEMBLY (Optional for CV) WASHER SCREW	1 OPTIONAL 1			
54 55 56 57 58	MPA0099 MPA0048 MPA0205 MPA0047	for DB) INCLUDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (¼ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (¼ in.) Airline & Ø 19 mm (¾ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV) NUT SuperVAC™ CV 19 mm (¾ in.) SWIVEL EXHAUST ASSEMBLY (Optional for CV) WASHER	1 OPTIONAL 1			
54 55 56 57 58 59	MPA0099 MPA0048 MPA0205 MPA0047 MPA0769 MPA0465	for DB) INCL UDES: MPA0200 Ø 19 mm (¾ in.) x 1.5 m (5 ft.) Vacuum Hose, MPB0133 Ø 19 mm (¾ in.) Hose To Double Bag Vacuum Fitting, MPA0302 Ø 6.3 mm (¼ in.) x 1.5 m (5 ft.) Airline with Fittings, MPA0301 Bungee for Ø 6.3 mm (¼ in.) Airline & Ø 19 mm (½ in.) Vacuum Hose (5) SuperVAC™ CV 28 mm (1 in.) SWIVEL EXHAUST ASSEMBLY (Standard for CV) NUT SuperVAC™ CV 19 mm (¾ in.) SWIVEL EXHAUST ASSEMBLY (Optional for CV) WASHER SCREW 10 PACK OF VACUUM BAG INSERTS VACUUM BAG	1 OPTIONAL 1 1			

Sander Spare Parts Kits



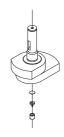
A MPA0797 12,000 rpm Muffler Kit Code: 8993017311



B MPA0802 ROS Spindle Bearing Kit Code: 8993019711



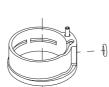
C MPA0798 Air Inlet Kit Code: 8993018811



D MPA0980 Shaft Balancer Kit 150mm/5,0 Kit Code: 8993010611 MPA1670 Shaft Balancer Kit 150mm/2,5 Kit Code: 8993013711



E MPA0988 CV Swivel Fitting Kit Code: 8993006611



F MPA0994 Cylinder & O-ring Kit Code: 8993009211



G MPA0993 Lock Ring & O-ring Kit Code: 8993007911



H MPA0932 DB Swivel Fitting Kit Code: 8993011311



MPA0799 Endplate Bearing Kit Code: 8993019811



J MPA0800 Speed Valve Kit Code: 8993019011



K MPA0801 Rotor, Vanes & Key Kit Code: 8993017711



L MPA0983 Lever Kit 5.0 mm orbit Code: 8993010811 MPA0984 Lever Kit 2.5 mm orbit Code: 8993010911

M MPA2551 DB Retainer Kit Code: 8993018911



Mirka 12,000 rpm 125 mm (5 in.) & 150 mm (6 in.) RANDOM ORBITAL SANDERS

Declaration of conformity

KWH Mirka Ltd. 66850 Jeppo, Finland

66850 Jeppo, Finland declare on our sole responsibility that the products

125 mm (5 in.) and 150 mm (6 in.) 12,000 rpm Random Orbital Sanders (see "Product Configuration/Specifications" Table for particular model) to which this declaration relates are in conformity with the following standard(s) or other normative document(s): EN ISO 15744:2008. Following the provisions of 89/392/EEC as amended by 91/368/EEC & 93/44/EEC 93/68/EEC Directives and consolidating Directive 2006/42/EC

Jeppo 09.03.2016

MIRKE

Company

Stefan Sjöberg, CEO

Operator Instructions

Includes – Please Read and Comply, Proper Use of Tool, Work Stations, Putting the Tool Into Service, Operating Instructions, Product Configuration/Specifications Tables, Parts Page, Parts List, Sander Spare Parts Kits, Trouble Shooting Guide

Important

Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible location.

CE

Manufacturer/Supplier

KWH Mirka Ltd. 66850 Jeppo, Finland Tel: + 358 20 760 2111 Fax: +358 20 760 2290

Required Personal Safety Equipment

Safety Glasses Breathing Masks

Safety Gloves Ear Protection

Recommended Airline Size - Minimum

10 mm 3/8 in

Recommended Maximum Hose Length

8 meters 25 feet

Air Pressure

Maximum Working Pressure 6.2 bar 90 psig Recommended Minimum NA NA

Please Read and Comply with

- General Industry Safety & Health Regulations, Part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- Safety Code for Portable Air Tools, ANSI B186.1 available from: American National Standards Institute, Inc.; 1430 Broadway; New York, New York 10018
- 3) State and Local Regulations.

Proper Use of Tool

This sander is designed for sanding all types of materials i.e. metals, wood, stone, plastics, etc. using abrasive designed for this purpose. Do not use this sander for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier. Do not use back-up pads that have a working speed less than 12,000 rpm free speed.

Work Stations

The tool is intended to be operated as a hand-held tool. It is always recommended that the tool be used when standing on a solid floor. It can be used in any position but before any such use, the operator must be in a secure position and have a firm grip and footing, and be aware that the sander can develop a torque reaction. See the section "Operating Instructions".

Putting the Tool into Service

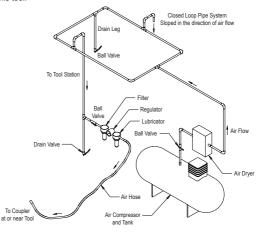
Use a clean lubricated air supply that will give a measured air pressure at the tool of 6.2 bar (90 psig) bar when the tool is running with the lever fully depressed. It is recommended to use an approved 10 mm (3/8 in.) x 8 m (25 ft) maximum length airline. It is recommended that the tool be connected to the air supply as shown in Figure 1.

Do not connect the tool to the airline system without incorporating an easy to reach and operate air shuft-off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator and lubricator (FRL) be used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used then the tool should be manually lubricated

To manually lubricate the tool, disconnect the airline and put 2 to 3 drops of suitable pneumatic motor lubricating oil such as Fuji Kosan FK-20, Mobil ALMO 525 or Shell TORCULA® 32 into the hose end (inlet) of the machine. Reconnect the tool to the air supply and run the tool slowly for a few seconds to allow air to circulate the oil. If the tool is used frequently, lubricate it on a daily basis or lubricate it if the tool starts to slow or lose power. It is recommended that the air pressure at the tool is 6.2 bar (90 psig) while the tool is running. The tool can run at lower pressures but never higher than 6.2 bar (90 psig).

Operating Instructions

- Read all instructions before using this tool. All operators must be fully trained in its use and be aware of these safety rules. All servicing and repairs must be carried out by trained personnel.
- Make sure the tool is disconnected from the air supply. Select a suitable abrasive and secure it to the back-up pad. Take care to center the abrasive on the back-up pad.
- 3) Always wear the required safety equipment when using this tool.
- 4) When sanding always place the tool on the work then start the tool. Always remove the tool from the work before stopping. This will prevent gouging of the work due to excess speed of the abrasive.
- Always disconnect the air supply from the sander before fitting, adjusting or removing the abrasive or back-up pad.
- Always adopt a firm footing and/or position and be aware of torque reaction developed by the sander.
- 7) Use only correct spare parts.
- Always ensure that the material to be sanded is firmly fixed to prevent its movement.
- 9) Check hose and fittings regularly for wear. Do not carry the tool by its hose; always be careful to prevent the tool from being started when carrying the tool with the air supply connected.
- 10) Dust can be highly combustible. The vacuum dust collection bag should be cleaned or replaced daily. Cleaning or replacement of the bag also assures optimum performance.
- Do not exceed the maximum recommended air pressure. Use safety equipment as recommended.
- 12) The tool is not electrically insulated. Do not use where there is a possibility of coming into contact with live electricity, gas pipes, water pipes, etc. Check the working area before operation.
- 13) Take care to avoid entanglement of the moving parts of the tool with clothing, ties, hair, cleaning rags, etc. If entangled, it will cause the body to be pulled towards the work and moving parts of the machine and can be very dangerous.
- 14) Keep hands clear of the spinning pad during use.
- 15) If the tool appears to malfunction, remove from use immediately and arrange for servicing and repair.
- 16) Do not allow the tool to free-speed without taking precautions to protect any persons or objects from the loss of the abrasive or pad.



Product Configuration/Specifications: 12,000 rpm Random Orbital Sander												
Orbit	Vacuum Type	Pad Size mm (inch)	Model Number	Product Net Weight kg (pounds)	Height mm (inch)	Length mm (inch)	*Noise Level dBA	Power watts (HP)	Air Con LPM	sumption (scfm)	*Vibration Level m/s2	*Uncertainty K m/s ²
	Non-Vacuum	125 (5)	ROS525NV	0.72 (1.59)	82.9 (3.26)	148.4 (5.84)	79.0	209 (0.28)	481	(17)	2.10	1.10
		150 (6)	ROS625NV	0.76 (1.68)	82.9 (3.26)	161.1 (6.34)	83.0	209 (0.28)	481	(17)	3.30	1.70
2.5 mm	Central Vacuum	125 (5)	ROS525CV	0.78 (1.72)	87.7 (3.45)	148.4 (5.84)	78.0	209 (0.28)	481	(17)	2.29	0.72
(3/32 in.)		150 (6)	ROS625CV	0.85 (1.87)	82.9 (3.26)	161.1 (6.34)	79.0	209 (0.28)	481	(17)	2.14	0.71
	Shrouded Self-Gen. Vacuum	150 (6)	ROS625DB	0.85 (1.87)	82.9 (3.26)	164.1 (6.46)	84.0	209 (0.28)	481	(17)	2.11	0.70
	Non-Vacuum	125 (5)	ROS550NV	0.75 (1.65)	82.9 (3.26)	149.6 (5.89)	80.0	209 (0.28)	481	(17)	2.60	1.30
		150 (6)	ROS650NV	0.79 (1.74)	82.9 (3.26)	162.3 (6.39)	79.0	209 (0.28)	481	(17)	3.70	1.90
5.0 mm	Central Vacuum	125 (5)	ROS550CV	0.81 (1.79)	87.7 (3.45)	149.6 (5.89)	75.5	209 (0.28)	481	(17)	2.77	0.77
(3/16 in.)		150 (6)	ROS650CV	0.85 (1.87)	82.9 (3.26)	162.3 (6.39)	78.0	209 (0.28)	481	(17)	2.48	0.74
	Shrouded Self-Gen. Vacuum	125 (5)	ROS550DB	0.83 (1.83)	87.7 (3.45)	152.6 (6.01)	83.0	209 (0.28)	481	(17)	2.11	0.70
		150 (6)	ROS650DB	0.88 (1.94)	82.9 (3.26)	165.3 (6.51)	83.0	209 (0.28)	481	(17)	2.00	0.69

The noise test is carried out in accordance with EN ISO 15744:2008 - Hand-held non-electric power tools -- Noise measurement code -- Engineering method (grade 2) and EN ISO 11203:2009 Acoustics-Noise emitted by machinery and equipment-Determination of emission sound pressure levels at a work station and other specified positions from the sound power level.

The vibration test is carried out in accordance with EN ISO 28927-3, Hand-held portable power tools – Test method for evaluation of vibration emission – Part 3: Polishers and rotary, orbital and random orbital sanders.

Specifications subject to change without prior notice.

*The values stated in the table are from laboratory testing in conformity with stated codes and standards and are not sufficient for risk evaluation. Values measured in a particular work place may be higher than the declared values. The actual exposure values and amount of risk or harm experienced to an individual are unique to each situation and depend upon the surrounding environment, the way in which the individual works, the particular material being worked, work station design as well as upon the exposure time and the physical condition of the user. KWH Mirka, Ltd. cannot be held responsible for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

Further occupational health and safety information can be obtained from the following websites: https://osha.europa.eu/en (Europe) http://www.osha.gov (USA)

Troubleshooting Guiide

Symptom	Possible Cause	Solution				
	Insufficient air pressure.	Check air line pressure at the Inlet of the Sander while the tool is running at free speed. It must be 6.2 Bar (90 psig/620 kPa).				
	Clogged Muffler(s).	See the "Housing Disassembly" section for Muffler removal. The Item 37 Muffler can be back flushed with a clean, suitable cleaning solution until all contaminates and obstructions have been removed. If the Muffler can not be properly cleaned then replace it. Replace Item 38, Muffler Insert (See the "Housing Assembly" Section).				
	Plugged Inlet Screen.	Clean the Inlet Screen with a clean, suitable cleaning solution. If the Screen cannot be cleaned, replace it.				
Low power and/or low free speed.	One or more worn or Broken Vanes.	Install a complete set of new Vanes (all vanes must be replaced for proper operation). Coat all vanes with quality pneumatic tool oil. See "Motor Disassembly" and "Motor Assembly".				
	Internal air leakage in the Motor Housing indicated by higher than normal air consumption and lower than normal speed.	Check for proper Motor alignment and Lock Ring engagement. Check for damaged O-Ring in Lock Ring groove. Remove Motor Assembly and reinstall the Motor Assembly. See "Motor Disassembly" and "Motor Assembly".				
	Motor parts worn.	Overhaul Motor. Contact authorized Mirka Service Center.				
	Worn or broken Spindle Bearings	Replace the worn or broken Bearings. See "Shaft Balancer and Spindle Disassembly" and "Spindle Bearings, AirSHIELD™ and Shaft Balancer Assembly".				
Air leakage through the Speed Control and/or Valve Stem.	Dirty, broken or bent Valve Spring, Valve or Valve Seat.	Disassemble, inspect and replace worn or damaged parts. See steps 2 and 3 in "Housing Disassembly" and steps 2 and 3 in "Housing Assembly".				
	Incorrect Pad.	Only use Pad sizes and weights designed for the machine.				
	Addition of interface pad or other material.	Only use abrasive and/or interface designed for the machine. Do not attach anything to the Sanders Pad face that was not specifically designed to be used with the Pad and Sander.				
Vibration/rough operation.	Improper lubrication or buildup of foreign debris.	Disassemble the Sander and clean in a suitable cleaning solution. Assemble the Sander. (See "Service Manual".)				
	Worn or broken Rear or Front Motor Bearing(s).	Replace the worn or broken Bearings. See "Motor Disassembly" and "Motor Assembly".				
	For vacuum machines it is possible to have too much vacuum while sanding on a flat surface causing the pad to stick to the sanding surface.	For DB machines add extra washer(s) to the pad spindle to increase the gap between the pad and shroud. For CV machines reduce vacuum through the vacuum system and/or add extra washer(s) to the pad.				

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