

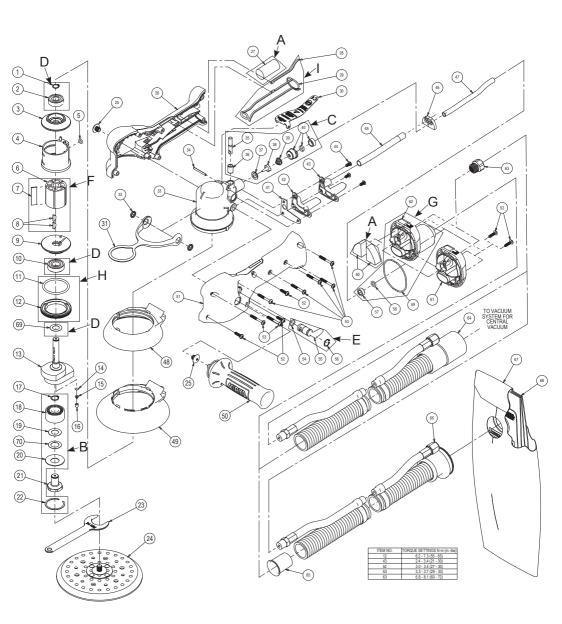
# Mirka® ROS2

150 mm (6") • 125 mm (5")



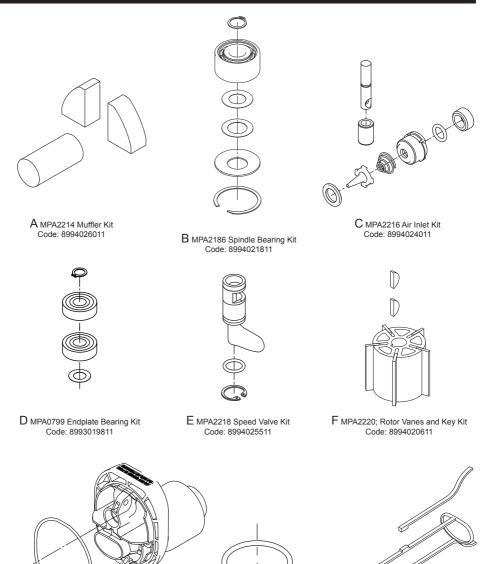


# Parts Page



New No.   Part No.   Description   Cly.			Parts List	
2 MPA0021 BEARING	Item No.			Qty.
MF80017   REAR ENDPLATE				1
4 MPA041 CYLINDER ASSEMBLY 5 MPA042 O-RING 6 MPB0118 ROTOR 1 1 6 MPB0118 ROTOR 1 1 7 MPB0118 ROTOR 1 1 8 MPB0118 ROTOR 1 1 9 MPB0118 ROTOR 1 1 1 MPB0016 REROW ENDPLATE 9 MPB010 REROW ENDPLATE 9 MPB010 REROW ENDPLATE 1 MPB0016 REROW ENDPLATE 1 MPB0016 REROW ENDPLATE 1 MPB0016 REROW ENDPLATE 1 MPB0017 LOCK RING 1 1 1 MPB0045 D-RING 1 1 1 MPB0045 D-RING 1 1 1 MPB0018 128 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 129 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 129 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 120 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0181 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 x 10 mm (8 x 3/16 m) ORBIT SHAFT BALANCER 1 MPB0180 130 N RETAWNISH RINGER 1 MPB0180 140 N RETAWNISH RINGER 1 MPB0180 1				
5				
6 MPB0118 ROTOR				
7 MPA0445 (VANE				
MPB0016   FRONT ENDPLATE		MPA0445	VANE	
10				
11		MPB0016	FRONT ENDPLATE	
1				
MPB0207   125 x 5 0 mm (s x 3/16 in.) ORBIT SHAFT BALANCER				
MPB0189   125 x 10 mm (6 x 3/6 in ) ORBIT SHAFT BALANCER				
MP-8012   100 X 30 mm (b X 39 in ) OKBIT SHAFT BALANCER	13	MPB0189	125 x 10 mm (5 x 3/8 in.) ORBIT SHAFT BALANCER	
14	13			
15	1.4			
16				
17				
19				
20	18	MPA0751	DOUBLE ROW BEARING	1
21				
22		MPA1024	BELLEVILLE WASHER	
MPA0022   PAD WRENCH				
1				
25				
27	25			
28				
1980   MPB0299   MOTOR HOUSING SEAL   1				
MPA2088   5.0 mm (3/16 in.) ORBIT THROTTLE LEVER				
MPA2069   10.0 mm (3/8 in.) ORBIT THROTTLE LEVER   1   1   1   1   1   1   1   1   1				
31   MPB0420   HANGER - BLACK   1   2   2   33   MPB0356   MOTOR HOUSING   1   34   MPA0004   CYLINDER SPRING   1   1   35   MPA0055   VALVE STEM ASSEMBLY   1   1   36   MPA0055   VALVE STEM ASSEMBLY   1   1   37   MPA0065   VALVE STEM ASSEMBLY   1   1   38   MPA0005   VALVE STEM ASSEMBLY   1   1   38   MPA0007   VALVE STEM ASSEMBLY   1   1   39   MPA0009   VALVE STEM ASSEMBLY   1   1   40   MPA0019   VALVE STEM ASSEMBLY   1   1   40   MPA0010   VALVE STEM ASSEMBLY   1   1   41   MPA0010   VALVE STEM ASSEMBLY   1   1   41   MPA0010   VALVE STEM ASSEMBLY   1   1   1   41   MPA0500   EXHAUST GASKET   1   1   1   1   1   1   1   1   1	30	MPA2069	10.0 mm (3/8 in.) ORBIT THROTTLE LEVER	
33   MPB0356   MOTOR HOUSING   1   34   MPA0004   CYLINDER SPRING PIN   1   1   35   MPA0655   VALVE STEM ASSEMBLY   1   1   36   MPA0065   VALVE STEM ASSEMBLY   1   1   37   MPA0069   VALVE SLEVE   1   1   38   MPA0009   VALVE SLEVE   1   1   38   MPA0009   VALVE SEAT   1   1   38   MPA0007   VALVE SEAT   1   1   39   MPA0014   VALVE SPRING   1   1   40   MPA0730   AIRLINE SEAL ASSEMBLY   1   1   41   MPA0500   EXHAUST SASEMBLY   1   1   41   MPA0500   EXHAUST SASEMBLY   1   1   1   1   1   1   1   1   1	31	MPB0420	HANGER - BLACK	
34		MPA1865	SPACER RING	
35				
36				
37				
38				
40		MPA0007	VALVE	1
41         MPA0500         EXHAUST GASKET         1           42         MPB0181         DB EXHAUST NOZZLE (DB machines)         1           43         MPB0182         NV/CV EXHAUST NOZZLE (NV & CV machines)         1           44         MPA0664         SCREW         3           45         MPA0517         EXHAUST TUBING (NV & CV machines)         1           46         MPA0516         TUBING CLAMP (NV & CV machines)         1           47         MPA0511         INLET TUBING         1           48         MPC0153         125/150 mm (5/6 in.) BUFFER/NV SHROUD         1           49         MPC0145         125 mm (5/6 in.) BULTH-HOLE/LP SHROUD         1           50         MPA1981         150 EM (6 in.) MULTH-HOLE/LP SHROUD         1           51         MPA0394         LH HOUSING         1           51         MPA0398         SCREW         5           53         MPA1439         SCREW         5           54         MPA0043         O-RING         1           55         MPA0510         INLET CAPTIVE RING         1           57         MPA0510         INLET CAPTIVE RING         1           58         MPA0520         O-RING (NV & CV machines)<				
42         MPB0181         DB EXHAUST NOZZLE (DB machines)         1           43         MPB0182         NV/CV EXHAUST NOZZLE (NV & CV machines)         1           44         MPA0564         SCREW         3           45         MPA0517         EXHAUST TUBING (NV & CV machines)         1           46         MPA0516         TUBING CLAMP (NV & CV machines)         1           47         MPA0511         INLET TUBING         1           48         MPC0153         125/150 mm (5/6 in.) BUFFERNV SHROUD         1           49         MPC0145         125 mm (5 in.) MULTI-HOLE/LP SHROUD         1           49         MPC0143         150 mm (6 in.) MULTI-HOLE/LP SHROUD         1           50         MPA1981         ISIDE HANDLE - Mirka         1           51         MPA1981         ISIDE HANDLE - Mirka         1           52         MPA1398         SCREW         5           53         MPA1430         SCREW         5           54         MPA0043         O-RING         1           55         MPB0183         SPEED VALVE         1           56         MPB0183         SPEED VALVE         1           56         MPB0509         O-RING         1 </td <td></td> <td></td> <td></td> <td></td>				
43         MPB0182         NV/CV EXHAUST NOZZLE (NV & CV machines)         1           44         MPA0664         SCREW         3           45         MPA0517         EXHAUST TUBING (NV & CV machines)         1           46         MPA0516         TUBING CLAMP (NV & CV machines)         1           47         MPA0511         INLET TUBING         1           48         MPC0153         125/150 mm (5/6 in.) BUFFER/NV SHROUD         1           49         MPC0145         125 mm (5 in.) MULTI-HOLE/LP SHROUD         1           50         MPA1981         ISDM ENDITED HIVE AND TOWN (INC.)         1           50         MPA1981         SIDE HANDLE - Mirka         1           51         MP80394         LH HOUSING         1           52         MPA1398         SCREW         5           53         MPA1430         SCREW         7           54         MPA0043         O-RING         1           55         MPA0043         SPEED VALVE         1           56         MPA0039         RETAINING RING         1           57         MPA0510         INLET CAPTIVE RING         1           58         MPA0628         O-RING (NV & CV machines)         1				
44         MPA0664         SCREW         3           45         MPA0517         EXHAUST TUBING (INV & CV machines)         1           46         MPA0516         TUBING CLAMP (NV & CV machines)         1           47         MPA0511         INLET TUBING         1           48         MPC0153         125/150 mm (5/6 in.) BUFFER/NV SHROUD         1           49         MPC0145         125 mm (6 in.) MULTI-HOLE/LP SHROUD         1           50         MPA0181         150 mm (6 in.) MULTI-HOLE/LP SHROUD         1           51         MPA01931         15D mm (6 in.) MULTI-HOLE/LP SHROUD         1           51         MPA0333         15D EMADUE - Mirka         1           52         MPA1338         SCREW         5           53         MPA1430         SCREW         5           54         MPA0043         O-RING         1           55         MPB0183         SPEED VALVE         1           56         MPA0043         O-RING         1           57         MPA0510         INLET CAPTIVE RING         1           57         MPA0510         INLET CAPTIVE RING         1           60         MPA0776         MUFFLER (INV & CV machines)         1 <td></td> <td>MPR0182</td> <td>DB EXTRAOST NOZZLE (DB Iniddiniles) NV/CV FXHALIST NOZZI F (NV &amp; CV machines)</td> <td></td>		MPR0182	DB EXTRAOST NOZZLE (DB Iniddiniles) NV/CV FXHALIST NOZZI F (NV & CV machines)	
46				
MPA0511   INLET TUBING	45			
MPC0153   125/150 mm (5/6 in.) BUFFER/NV SHROUD   1				
MPC0145   125 mm (5 in.) MULTI-HOLE/LP SHROUD   1				
MPC0138   150 mm (6 in.) MULTI-HOLE/LP SHROUD   1				
50         MPA1981         SIDE HANDLE - Mirka         1           51         MPB0394         LH HOUSING         1           52         MPA1398         SCREW         5           53         MPA1430         SCREW         7           54         MPA0043         O-RING         1           55         MPB0183         SPEED VALVE         1           56         MPA0039         RETAINING RING         1           57         MPA0510         INLET CAPTIVE RING         1           58         MPA0501         O-RING         1           59         MPA0628         O-RING (IV & CV machines)         1           60         MPA0776         MUFFLER (NV & CV machines)         1           61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (IV machines)         1           62         MPA1294         INLET/EXHAUST END CAP ASSEMBLY (IV machines)         1           63         MPA0013         INLET/EXHAUST END CAP ASSEMBLY (IV machines)         1           64         MPA0392         28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         28 mm (1 in.) HOSE SEAL (DB machines)         1	49	MPC0138	150 mm (6 in.) MULTI-HOLE/LP SHROUD	
52         MPA1398         SCREW         5           53         MPA1430         SCREW         7           54         MPA0043         O-RING         1           55         MPB0183         SPEED VALVE         1           56         MPA0039         RETAINING RING         1           57         MPA0510         INLET CAPTIVE RING         1           58         MPA0509         O-RING         1           59         MPA0628         O-RING (NV & CV machines)         1           60         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (NV machines)         2           61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0131         INLET BUSHING ASSEMBLY         1           64         MPA03294         Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0432         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0453         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA06658         VACUUM BAG         1           MPA06651         IO PACK OF VACUUM BAG INSE		MPA1981	SIDE HANDLE - Mirka	1
53         MPA1430         SCREW         7           54         MPA0043         O-RING         1           55         MPB0183         SPEED VALVE         1           56         MPA0039         RETAINING RING         1           57         MPA0510         INLET CAPTIVE RING         1           58         MPA0509         O-RING         1           59         MPA0628         O-RING (INV & CV machines)         1           60         MPA0776         MUFFLER (NV & CV machines)         2           61         MPA0771         INLET/EXHAUST END CAP ASSEMBLY (IV machines)         1           62         MPA1294         INLET/EXHAUST END CAP ASSEMBLY (IDB & CV machines)         1           63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA00401         NILET BUSHING ASSEMBLY         1           65         MPA0613         28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0645         20 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         M		MPB0394	LH HOUSING	
54         MPA0043         O-RING         1           55         MPB0183         SPEED VALVE         1           56         MPA0058         RETAINING RING         1           57         MPA0510         INLET CAPTIVE RING         1           58         MPA0509         O-RING         1           59         MPA0628         O-RING (NV & CV machines)         1           60         MPA0776         MUFFLER (NV & CV machines)         1           61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (NV machines)         1           62         MPA0194         INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0013         INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           64         MPA0032         28 8 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0668         VACUUM BAG         1           67         MPA0668         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG (INSERTS)         1           69         MPA2541         FRONT BEA				
55         MPB0183         SPEED VALVE         1           56         MPA0039         RETAINING RING         1           57         MPA0501         INLET CAPTIVE RING         1           58         MPA0509         O-RING         1           59         MPA0628         O-RING (NV & CV machines)         1           60         MPA0773         MUFFLER (NV & CV machines)         2           61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (NV machines)         1           62         MPA1294         INLET ENSHING ASSEMBLY         1           63         MPA0131         INLET BUSHING ASSEMBLY         1           64         MPA0392         Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA06658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA05451         FRONT BEARING DUST SHIELD         1				
56				
57         MPA0510         INLET CAPTIVE RING         1           58         MPA0599         O-RING         1           59         MPA0628         O-RING (NV & CV machines)         1           60         MPA0776         MUFFLER (NV & CV machines)         2           61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (NV machines)         1           62         MPA01294         INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA0392         28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG (INSERTS)         1           69         MPA2541         FRONT BEARING DUST SHIELD         1		MPA0039	RETAINING RING	1
59         MPA0628         O-RING (NV & CV machines)         1           60         MPA0776         MUFFLER (NV & CV machines)         2           61         MPA0731         INLETTEXHAUST END CAP ASSEMBLY (NV machines)         1           62         MPA1294         INLETTEXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA0392         28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0612         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1				
60         MPA0776         MUFFLER (NV & CV machines)         2           61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (NV machines)         1           62         MPA1294         INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA0392         Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA05451         FRONT BEARING DUST SHIELD         1				
61         MPA0731         INLET/EXHAUST END CAP ASSEMBLY (NV machines)         1           62         MPA1294         INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA0392         Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1				
62         MPA1294         INLETT/EXHAUST END CAP ASSEMBLY (DB & CV machines)         1           63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA0392         Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0612         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1				
63         MPA0013         INLET BUSHING ASSEMBLY         1           64         MPA0392         Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE ASSEMBLY (CV machines)         1           65         MPA0623         Ø 28 mm (1 in.) HOSE SEAL (DB machines)         1           66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1	62		INLET/EXHAUST END CAP ASSEMBLY (DB & CV machines)	
ASSEMBLY (CV machines)   1		MPA0013	INLET BUSHING ASSEMBLY	
65         MPA0623         Ø 28 mm (1 in.) HOSE SEÂL (DB machines)         1           66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1			Ø 28 mm (1 in.) VACUUM HOSE TO Ø 28 mm (1 in.) x 38 mm (1 1/2 in.) ADAPTOR COUPLING & AIRLINE	
66         MPA0412         Ø 28 mm (1 in.) VACUUM HOSE TO DOUBLE BAG FITTING AND AIRLINE ASSEMBLY (DB machines)         1           67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1				
67         MPA0658         VACUUM BAG         1           68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1		MPA0623		
68         MPA0465         10 PACK OF VACUUM BAG INSERTS         1           69         MPA2541         FRONT BEARING DUST SHIELD         1				
69 MPA2541 FRONT BEARING DUST SHIELD 1				

## Sander Spare Parts Kits



H MPA0993 Lock Ring and O-ring Kit Code: 8993007911

MPA2531 Housing Seal Kit Code: 8994012911

G MPA2222 Vacuum Endcap Kit Code: 8994026711

#### 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 shut 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 tool to the air supply and run 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).

#### Proper Use of Tool

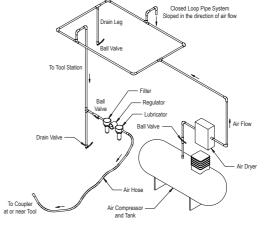
This tool is designed for sanding all types of materials i.e. metals, wood, stone, plastics, etc. using abrasive designed for this purpose. Do not use this tool for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier. Do not use backing 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 having a firm grip and footing and be aware that the tool can develop a torque reaction. See the section "Operating Instructions".

#### Operating Instructions

- Read all instructions before using this tool. All operators must be fully trained in its
  use and 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 backing pad. Take care to centre the abrasive on the backing pad.
- 3) Always wear appropriate 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 backing pad.
- Always adopt a firm footing and/or position and be aware of the 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.
- 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 or when bag reaches half full or 2.3 kg (5 lbs.). Cleaning or replacing the bag also assures optimum performance.
- Do not exceed maximum recommended air pressure. Use safety equipment as recommended.
- 12) The fool 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 area of operation before use.
- 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 service 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 Consumption Ipm (scfm)	*Vibration Level m/s <sup>2</sup>	*Uncertainty K m/s <sup>2</sup>
5.0 mm (3/16 in.)	Non-Vac	125 (5)	ROS2-550NV	1.18 (2.60)	112.6 (4.43)	273.9 (10.78)	85	343 (0.46)	594 (21)	2.7	1.4
		150 (6)	ROS2-650NV	1.23 (2.71)	112.6 (4.43)	285.2 (11.23)	83	343 (0.46)	594 (21)	3.8	1.9
	Central Vacuum	125 (5)	ROS2-550CV	1.21 (2.67)	112.6 (4.43)	314.5 (12.38)	84	343 (0.46)	594 (21)	3.2	1.6
		150 (6)	ROS2-650CV	1.27 (2.80)	112.6 (4.43)	325.8 (12.83)	85	343 (0.46)	594 (21)	3.0	1.5
	Self-Gen. Vacuum	125 (5)	ROS2-550DB	1.20 (2.65)	112.6 (4.43)	314.5 (12.38)	92	343 (0.46)	594 (21)	3.4	1.7
		150 (6)	ROS2-650DB	1.26 (2.78)	112.6 (4.43)	325.8 (12.83)	88	343 (0.46)	594 (21)	3.6	1.8
10.0 mm (3/8 in.)	Non-Vac	125 (5)	ROS2-510NV	1.23 (2.70)	112.6 (4.43)	276.4 (10.88)	85	343 (0.46)	594 (21)	3.4	1.7
		150 (6)	ROS2-610NV	1.27 (2.81)	112.6 (4.43)	287.7 (11.3)	87	343 (0.46)	594 (21)	3.3	1.7
	Central Vacuum	125 (5)	ROS2-510CV	1.25 (2.76)	112.6 (4.43)	317.0 (12.48)	83	343 (0.46)	594 (21)	3.5	1.8
		150 (6)	ROS2-610CV	1.2 (2.90)	112.6 (4.43)	328.3 (12.93)	81	343 (0.46)	594 (21)	3.4	1.7
	Self-Gen. Vacuum	125 (5)	ROS2-510DB	1.25 (2.74)	112.6 (4.43)	317.0 (12.48)	85	343 (0.46)	594 (21)	3.1	1.6
		150 (6)	ROS2-610DB	1.1 (2.88)	112.6 (4.43)	328.3 (12.93)	90	343 (0.46)	594 (21)	3.3	1.7

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).

The vibration test is carried out in accordance with EN 28662-1 Hand-held portable power tools – Measurement of vibration at the handle. Part 1: General and EN 8662-8, 1997 Hand-held portable power tools – Measurement of vibration at the handle. Part 8: 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 different than the declared values. The actual exposure values and amount of risk or harm experienced to an individual is unique to each situation and depends 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. Mirka, Ltd. cannot be held responsible for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

# Troubleshooting Guide

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 60 Muffler can be back-flushed with a clean, suitable cleaning solution until all contaminants and obstructions have been removed. If the Muffler can not be properly cleaned then replace it. (See the "Housing Assembly" section).			
	Plugged Inlet Screen.	Clean the Inlet Screen with a clean, suitable cleaning solution. If Screen does not come clean 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 re-install 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 As- sembly".			
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 Sander 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.			