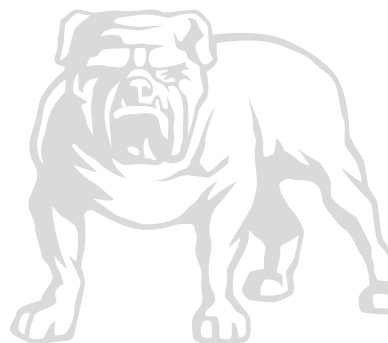


**MIRKA**



# Mirka® PBS

10NV & 13NV



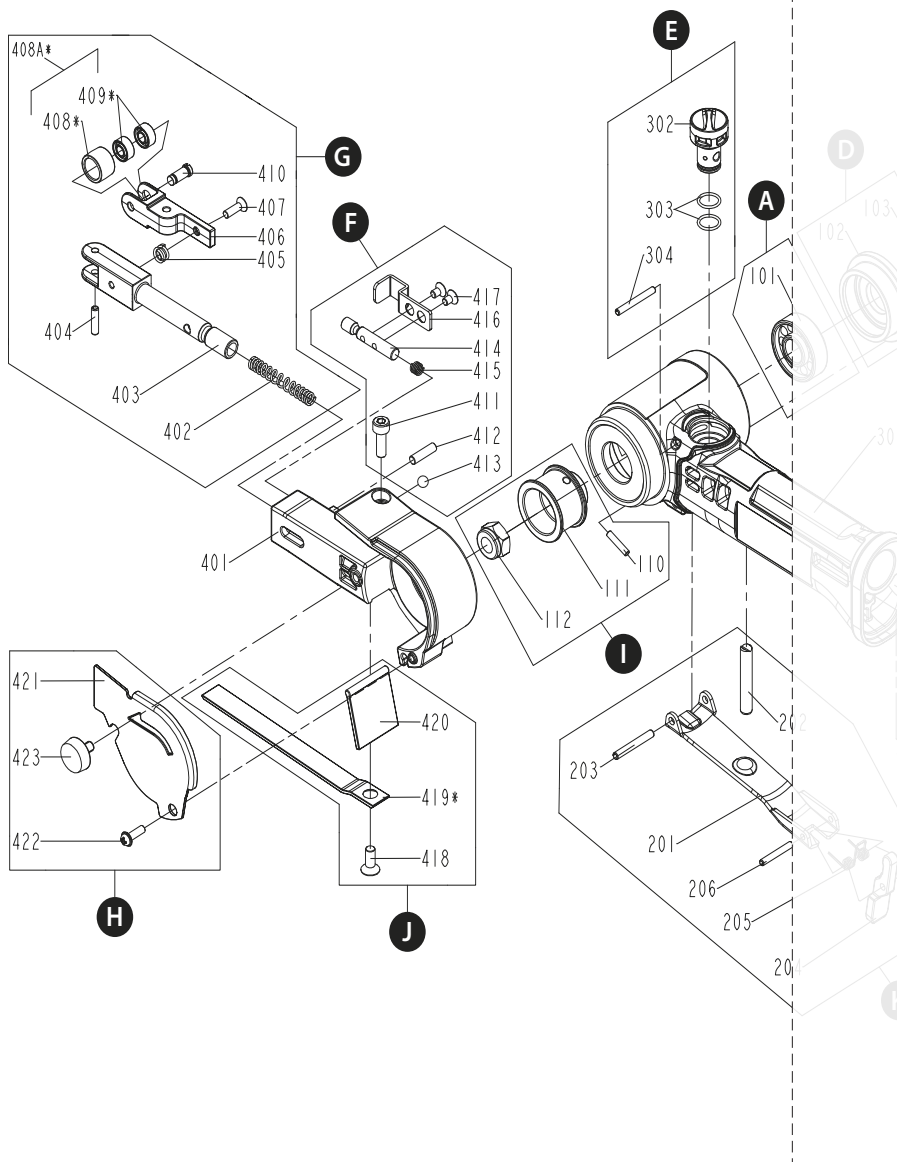
# Mirka® PBS

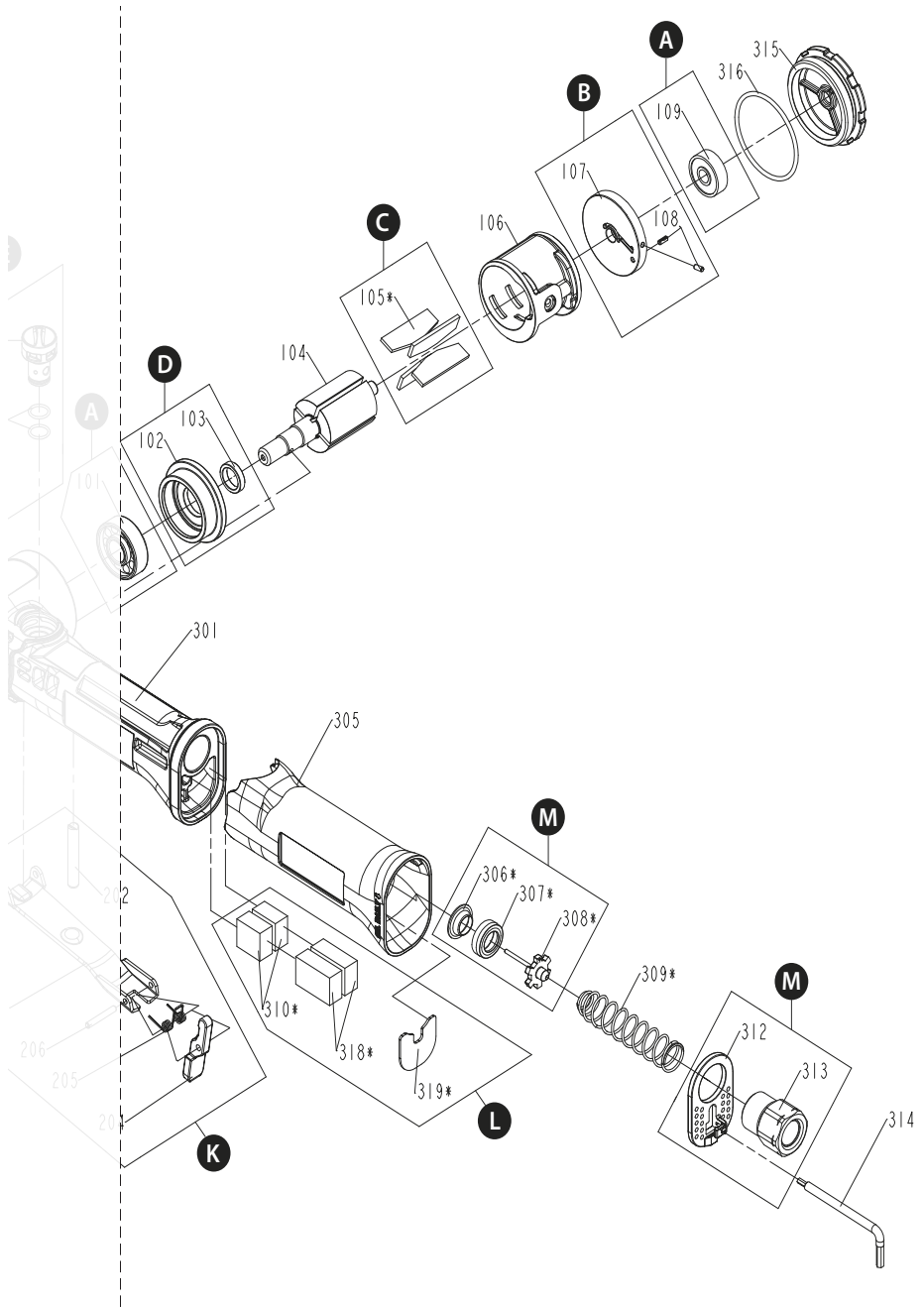
10NV & 13NV

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# Exploded view

PBS10NV





## Parts list – PBS10NV spareparts & accessories

Mirka code	Item	Description	Kit	Quantity	Part No
	101	Bearing	A	1	MPP1101
	102	Front bearing plate	D	1	MPP1102
	103	Rotor washer	D	1	MPP1103
<b>8995101041</b>	<b>104</b>	<b>Rotor</b>		<b>1</b>	<b>MPP1104</b>
	105	Vanes	C	4	MPP1105
<b>8995101061</b>	<b>106</b>	<b>Cylinder</b>		<b>1</b>	<b>MPP1106</b>
	107	Rear end plate	B	1	MPP1107
	108	Spring pin	B	2	MPP1108
	109	Bearing	A	1	MPP1109
	110	Pin	I	1	MPP1110
	111	Drive pulley	I	1	MPP1111
	112	Lock nut	I	1	MPP1112
	201	Lever	K	1	MPP1201
	202	Valve stem	K	1	MPP1202
	203	Spring Pin	K	1	MPP1203
	204	Safety	K	1	MPP1204
	205	Compression spring	K	1	MPP1205
	206	Spring pin	K	1	MPP1206
<b>8995103011</b>	<b>301</b>	<b>Housing</b>		<b>1</b>	<b>MPP1301</b>
	302	Speed valve	E	1	MPP1302
	303	O-Ring	E	2	MPP1303
	304	Spring Pin	E	1	MPP1304
<b>8995121305</b>	<b>305</b>	<b>Handle grip</b>		<b>1</b>	<b>MPP1305</b>
	306	Seal bushing	M	1	MPP1306
	307	Seal	M	1	MPP1307
	308	Tip valve	M	1	MPP1308
<b>8995103091</b>	<b>309</b>	<b>Spring</b>		<b>1</b>	<b>MPP1309</b>
	310	Muffler A	L	2	MPP1310
	312	Deflector	M	1	MPP1312
	313	Air inlet	M	1	MPP1313
<b>8995121314</b>	<b>314</b>	<b>Hex wrench 2 &amp; 3mm</b>		<b>1</b>	<b>MPP1314</b>
<b>8995103151</b>	<b>315</b>	<b>Front exhaust cover</b>		<b>1</b>	<b>MPP1315</b>
<b>8995103161</b>	<b>316</b>	<b>O-ring</b>		<b>1</b>	<b>MPP1316</b>
	318	Muffler B	L	2	MPP1318
	319	Muffler C	L	1	MPP1319
<b>8995104011</b>	<b>401</b>	<b>Guard unit</b>		<b>1</b>	<b>MPP1401</b>
	402	Spring	G	1	MPP1402
	403	Tension arm	G	1	MPP1403
	404	Spring pin	G	1	MPP1404
	405	Spring	G	1	MPP1405
	406	Adjust arm	G	1	MPP1406
	407	Flat screw	G	1	MPP1407
	408	Idle pulley	G	1	MPP1408
<b>8995121409</b>	<b>409</b>	<b>Bearing 2/pack</b>	<b>G</b>	<b>2</b>	<b>MPP1409</b>
	410	Pin	G	1	MPP1410

Mirka code	Item	Description	Kit	Quantity	Part No
	411	Lock screw	F	1	MPP1411
	412	Pin	F	1	MPP1412
	413	Ball	F	1	MPP1413
	414	Location block	F	1	MPP1414
	415	Positioning spring	F	1	MPP1415
	416	Release switch	F	1	MPP1416
	417	Screw	F	2	MPP1417
	418	Screw	J	1	MPP1418
	419	Belt Support	J	1	MPP1419
	420	Protection	J	1	MPP1420
	421	Cover	H	1	MPP1421
	422	Screw	H	1	MPP1422
	423	Hand bolt	H	1	MPP1423

\* Spare parts only available to authorized repairers.

NOTE! Repairs done by non-authorized repairer will breach the Mirka warranty.

Electrical tools must be serviced by a qualified repair person and in accordance with national requirements.

## Parts list – PBS10NV kits

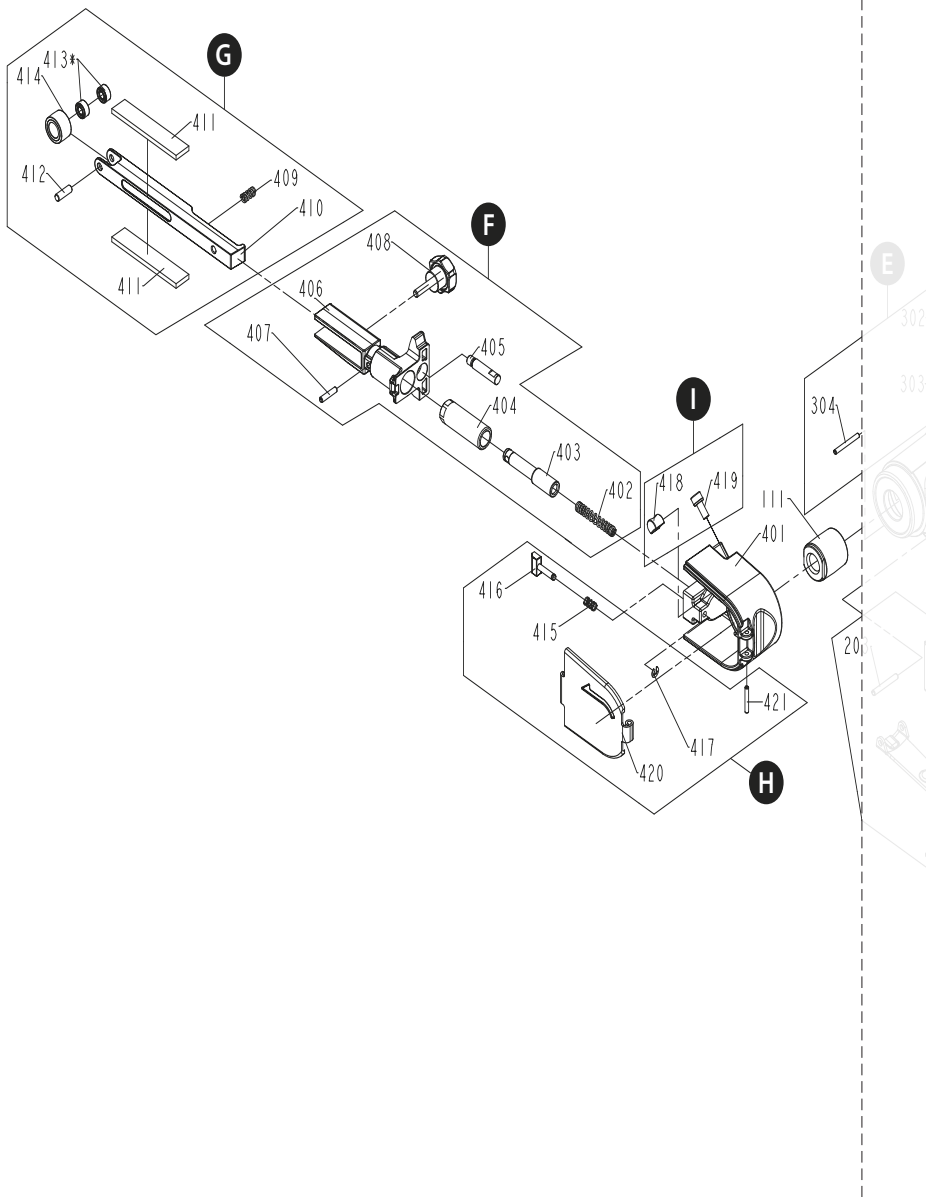
Mirka code	Item	Description	Kit	Quantity	Part No
<b>8995122101</b>		<b>End plate bearing kit</b>	<b>A</b>		<b>MPP8000</b>
	101	Bearing		1	MPP1101
	109	Bearing		1	MPP1109
<b>8995111071</b>		<b>Rear end plate kit</b>	<b>B</b>		<b>MPP8001</b>
	107	Rear end plate		1	MPP1107
	108	Spring pin		2	MPP1108
<b>8995111051</b>		<b>Vanes kit</b>	<b>C</b>		<b>MPP8002</b>
	105	Vanes		4	MPP1105
<b>8995111021</b>		<b>Front bearing plate kit</b>	<b>D</b>		<b>MPP8003</b>
	102	Front bearing plate		1	MPP1102
	103	Rotor washer		1	MPP1103
<b>8995113021</b>		<b>Speed valve kit</b>	<b>E</b>		<b>MPP8004</b>
	302	Speed valve		1	MPP1302
	303	O-ring		2	MPP1303
	304	Spring pin		1	MPP1304
<b>8995114111</b>		<b>Belt tightening kit</b>	<b>F</b>		<b>MPP8005</b>
	411	Lock screw		1	MPP1411
	412	Pin		1	MPP1412
	413	Ball		1	MPP1413
	414	Location block		1	MPP1414
	415	Positioning spring		1	MPP1415
	416	Release switch		1	MPP1416
	417	Screw		2	MPP1417
<b>8995114031</b>		<b>Tension arm kit</b>	<b>G</b>		<b>MPP8006</b>
	402	Spring		1	MPP1402
	403	Tension arm		1	MPP1403
	404	Spring pin		1	MPP1404
	405	Spring		1	MPP1405
	406	Adjust arm		1	MPP1406
	407	Flat screw		1	MPP1407
	408	Idle pulley		1	MPP1408
	409	Bearing		2	MPP1409
	410	Pin		1	MPP1410
<b>8995114211</b>		<b>Belt cover kit</b>	<b>H</b>		<b>MPP8007</b>
	421	Cover		1	MPP1421
	422	Screw		1	MPP1422
	423	Hand bolt		1	MPP1423
<b>8995111101</b>		<b>Drive pulley kit</b>	<b>I</b>		<b>MPP8008</b>
	110	Pin		1	MPP1110
	111	Drive pulley		1	MPP1111
	112	Lock nut		1	MPP1112
<b>8995114181</b>		<b>Belt support &amp; protection kit</b>	<b>J</b>		<b>MPP8009</b>
	418	Screw		1	MPP1418
	419	Belt support		1	MPP1419
	420	Protection		1	MPP1420

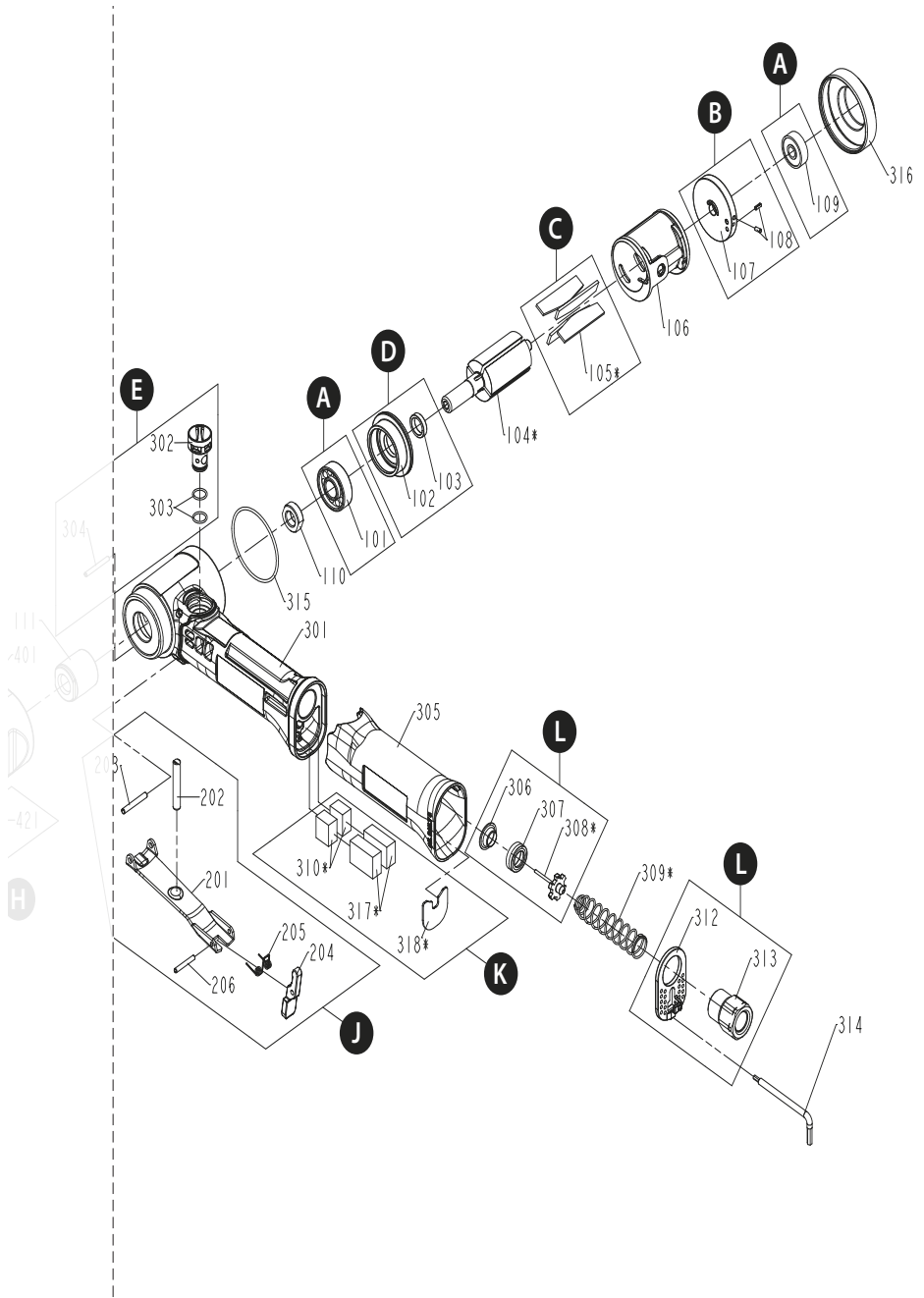
Mirka code	Item	Description	Kit	Quantity	Part No
<b>8995122201</b>		<b>Lever kit</b>	<b>K</b>		<b>MPP8010</b>
	201	Lever		1	MPP1201
	202	Valve stem		1	MPP1202
	203	Spring pin		1	MPP1203
	204	Safety		1	MPP1204
	205	Compression spring		1	MPP1205
	206	Spring pin		1	MPP1206
<b>8995122310</b>		<b>Muffler kit</b>	<b>L</b>		<b>MPP8011</b>
	310	Muffler A		2	MPP1310
	318	Muffler B		2	MPP1318
	319	Muffler C		1	MPP1319
<b>8995122306</b>		<b>Air inlet kit</b>	<b>M</b>		<b>MPP8012</b>
	306	Seal bushing		1	MPP1306
	307	Seal		1	MPP1307
	308	Tip valve		1	MPP1308
	312	Deflector		1	MPP1312
	313	Air inlet		1	MPP1313



# Exploded view

PBS13NV





## Parts list – PBS13NV spareparts & accessories

Mirka code	Item	Description	Kit	Quantity	Part No
	101	Bearing	A	1	MPP1101
	102	Front bearing plate	D	1	MPP2102
	103	Rotor washer	D	1	MPP1103
<b>8995131041</b>	<b>104</b>	<b>Rotor</b>		<b>1</b>	<b>MPP2104</b>
	105	Vanes	C	4	MPP2105
<b>8995131061</b>	<b>106</b>	<b>Cylinder</b>		<b>1</b>	<b>MPP2106</b>
	107	Rear end plate	B	1	MPP2107
	108	Spring pin	B	2	MPP1108
	109	Bearing	A	1	MPP1109
<b>8995131101</b>	<b>110</b>	<b>Lock nut</b>		<b>1</b>	<b>MPP2110</b>
<b>8995131111</b>	<b>111</b>	<b>Drive pulley</b>		<b>1</b>	<b>MPP2111</b>
	201	Lever	J	1	MPP1201
	202	Valve stem	J	1	MPP1202
	203	Spring pin	J	1	MPP1203
	204	Safety	J	1	MPP1204
	205	Compression spring	J	1	MPP1205
	206	Spring pin	J	1	MPP1206
<b>8995133011</b>	<b>301</b>	<b>Housing</b>		<b>1</b>	<b>MPP2301</b>
	302	Speed valve	E	1	MPP2302
	303	O-ring	E	2	MPP1303
	304	Spring pin	E	1	MPP1304
<b>8995121305</b>	<b>305</b>	<b>Handle grip</b>		<b>1</b>	<b>MPP1305</b>
	306	Seal bushing	L	1	MPP1306
	307	Seal	L	1	MPP1307
	308	Tip valve	L	1	MPP1308
<b>8995133091</b>	<b>309</b>	<b>Spring</b>		<b>1</b>	<b>MPP2309</b>
	310	Muffler A	K	2	MPP1310
	312	Deflector	L	1	MPP1312
	313	Air inlet	L	1	MPP1313
<b>8995121314</b>	<b>314</b>	<b>Hex wrench 2 &amp; 3mm</b>		<b>1</b>	<b>MPP1314</b>
<b>8995133151</b>	<b>315</b>	<b>O-ring</b>		<b>1</b>	<b>MPP2315</b>
<b>8995133161</b>	<b>316</b>	<b>Front exhaust cover</b>		<b>1</b>	<b>MPP2316</b>
	317	Muffler B	K	2	MPP1318
	318	Muffler C	K	1	MPP1319
<b>8995134011</b>	<b>401</b>	<b>Guard unit</b>		<b>1</b>	<b>MPP2401</b>
	402	Spring	F	1	MPP2402
	403	Post assembly	F	1	MPP2403
	404	Latch spring bushing	F	1	MPP2404
	405	Positioning shaft	F	1	MPP2405
	406	Tension arm	F	1	MPP2406
	407	Spring pin	F	1	MPP2407
	408	Angle adjusting bolt	F	1	MPP2408
	409	Spring	G	1	MPP2409
	410	Adjusting arm	G	1	MPP2410
<b>8995134111</b>	<b>411</b>	<b>Wear pad 2/pack</b>	<b>G</b>	<b>2</b>	<b>MPP2411</b>

Mirka code	Item	Description	Kit	Quantity	Part No
	412	Pin	G	1	MPP2412
<b>8995121409</b>	<b>413</b>	<b>Bearing 2/pack</b>	<b>G</b>	<b>2</b>	<b>MPP1409</b>
	414	Idle pulley unit	G	1	MPP2414
	415	Positioning spring	H	1	MPP2415
	416	Tenon unit	H	1	MPP2416
	417	Pin lock	H	1	MPP2417
	418	Push lock	I	1	MPP2418
	419	Screw	I	1	MPP2419
	420	Cover	H	1	MPP2420
	421	Spring pin	H	1	MPP2421

\* Spare parts only available to authorized repairers.

NOTE! Repairs done by non-authorized repairer will breach the Mirka warranty.

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## Parts list – PBS13NV kits

Mirka code	Item	Description	Kit	Quantity	Part No
<b>8995122101</b>		<b>End plate bearing kit</b>	<b>A</b>		<b>MPP8000</b>
	101	Bearing		1	MPP1101
	109	Bearing		1	MPP1109
<b>8995141071</b>		<b>Rear and plate kit</b>	<b>B</b>		<b>MPP8013</b>
	107	Rear end plate		1	MPP2107
	108	Spring pin		2	MPP1108
<b>8995141051</b>		<b>Vanes kit</b>	<b>C</b>		<b>MPP8014</b>
	105	Vanes		4	MPP2105
<b>8995141021</b>		<b>Front bearing plate kit</b>	<b>D</b>		<b>MPP8015</b>
	102	Front bearing plate		1	MPP2102
	103	Rotor washer		1	MPP1103
<b>8995143021</b>		<b>Speed valve kit</b>	<b>E</b>		<b>MPP8016</b>
	302	Speed valve		1	MPP2302
	303	O-ring		2	MPP1303
	304	Spring pin		1	MPP1304
<b>8995144061</b>		<b>Tension arm kit</b>	<b>F</b>		<b>MPP8017</b>
	402	Spring		1	MPP2402
	403	Post assembly		1	MPP2403
	404	Latch spring bushing		1	MPP2404
	405	Positioning shaft		1	MPP2405
	406	Tension arm		1	MPP2406
	407	Spring pin		1	MPP2407
	408	Angle adjusting bolt		1	MPP2408
<b>8995144101</b>		<b>Adjusting arm kit</b>	<b>G</b>		<b>MPP8018</b>
	409	Spring		1	MPP2409
	410	Adjusting arm		1	MPP2410
	411	Wear pad		2	MPP2411
	412	Pin		1	MPP2412
	413	Bearing		2	MPP1409
	414	Idle pulley unit		1	MPP2414
<b>8995144201</b>		<b>Belt cover &amp; lock kit</b>	<b>H</b>		<b>MPP8019</b>
	415	Positioning spring		1	MPP2415
	416	Tenon unit		1	MPP2416
	417	Pin lock		1	MPP2417
	420	Cover		1	MPP2418
	421	Spring pin		1	MPP2419
<b>8995144181</b>		<b>Angle locking kit</b>	<b>I</b>		<b>MPP8020</b>
	418	Push lock		1	MPP2418
	419	Screw		1	MPP2419
<b>8995122201</b>		<b>Lever kit</b>	<b>J</b>		<b>MPP8010</b>
	201	Lever		1	MPP1201
	202	Valve Stem		1	MPP1202
	203	Spring pin		1	MPP1203
	204	Safety		1	MPP1204
	205	Compression spring		1	MPP1205

Mirka code	Item	Description	Kit	Quantity	Part No
	206	Spring pin		1	MPP1206
<b>8995122310</b>		<b>Muffler kit</b>	<b>K</b>		<b>MPP8011</b>
	310	Muffler A		2	MPP1310
	317	Muffler B		2	MPP1318
	318	Muffler C		1	MPP1319
<b>8995122306</b>		<b>Air inlet kit</b>	<b>L</b>		<b>MPP8012</b>
	306	Seal bushing		1	MPP1306
	307	Seal		1	MPP1307
	308	Tip valve		1	MPP1308
	312	Deflector		1	MPP1312
	313	Air inlet		1	MPP1313

## Declaration of conformity

<b>Mirka Ltd, 66850 Jeppo, Finland</b>			
declare under our sole responsibility that the Mirka® products (listed below and see "Technical data" table for particular model) to which this declaration relates are in conformity with the following standards or other normative documents: EN ISO 12100:2010, EN ISO 11148-8:2011, EN ISO 15744:2008, EN ISO 20643:2008 + A1:2012 in accordance with the regulations 2006/42/EC .			
Products: Mirka® PBS 10NV & 13NV			
Jeppo 21.12.2021 Place and date of issue	<b>MIRKA</b> Company	 Stefan Sjöberg, CEO	<b>Manufacturer / Supplier</b> Mirka Ltd 66850 Jeppo, Finland Tel. +358 20 760 2111 Fax +358 20 760 2290 www.mirka.com
			

Original instructions. We reserve the right to make changes to this manual without prior notice.

## Important

Read these safety and operating instructions carefully before installing, operating or maintaining this tool. Keep these instructions in a safe and accessible place. Read and comply with state and local regulations.

## Required personal safety equipment



Read  
operator's manual



Wear  
safety glasses



Wear  
ear protection







Wear  
safety gloves



Wear  
face mask

## Symbols

	Complies with EU relevant standards
	Complies with UK relevant regulations
	Complies with Eurasian conformity requirements
	Complies with Serbian conformity requirements



**Warning:** Potential hazardous situation that may result in death or serious injury and/or property damage.

**Caution:** Potential hazardous situation that may result in minor or moderate injury and/or property damage.

## 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
- State and local regulations

## **WARNING**

- Always wear required personal safety protection in accordance with manufacturer's instructions and local/national standards while using this tool.
- Do not use a power tool if you are tired or under the influence of drugs, alcohol or medication.
- Read the Materials Safety Data Sheet (MSDS) for the working surface.
- Use the tool with dust extraction. A suitable dust extraction unit will reduce hazardous dust.
- Do not overreach. Keep proper footing and balance at all times.
- Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.
- Loose clothes, jewellery or long hair can be caught in moving parts.
- If any physical hand/wrist discomfort is experienced, stop working and seek medical attention.
- Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibrations.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- The tool is not electrically insulated. Check work area for live electricity, gas pipes, etc. before operation.

## **CAUTION**

- Prevent unintentional starting.
- Keep work area clean and well lit.
- Always ensure that the work piece to be sanded is firmly fixed.
- Before changing abrasive always disconnect the air supply.

## **Additional Safety Warnings**

- Read all instructions before using this tool. All operators must be fully trained in usage and safety of this tool.
- All maintenance must be carried out by trained personnel. For service, contact Mirka authorized service centre!
- Always wear required safety equipment (see warnings).
- The operator must be in a secure position and have a firm grip and footing on a solid floor.
- Check tool, hose and fittings regularly for wear.
- Always take care to ensure your safety at work; never carry, store or leave the tool unattended with the air supply connected.
- Do not exceed maximum recommended air pressure of 6.2 bar (90 psig).
- Take care to avoid entanglement of the moving parts of the tool with clothing, ties, hair, cleaning rags, etc.
- Keep hands clear of the rotating belt during use.
- If the tool appears to malfunction, remove from use immediately and arrange for service and repair.

## Technical data

Mirka® PBS	10NV 10 x 330 mm	13NV 12.7 x 457 mm
<b>Belt size</b>	10 x 12 x 330 mm (3/8 x 1/2 x 13")	10 x 12 x 457 mm (3/8 x 1/2 x 18")
<b>Product net weight</b>	0.81 kg (1.8 lbs)	0.92 kg (2.0 lbs)
<b>Speed</b>	17.000 /min	20.000 /min
<b>Sound pressure level (L<sub>pA</sub>)</b>	83.8 dB(A)	85.7 dB(A)
<b>Sound power level (L<sub>WA</sub>)</b>	94.8 dB(A)	96.7 dB(A)
<b>Power</b>	417.6 W	522 W
<b>Air consumption</b>	610 lpm	800 lpm



Mirka® PBS	10NV 10 x 330 mm	13NV 12.7 x 457 mm
Vibration level *	1.88 m/s <sup>2</sup>	1.04 m/s <sup>2</sup>
Vibration emission uncertainty K *	0.68 m/s <sup>2</sup>	0.59 m/s <sup>2</sup>

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 ISO 20643:2008 – Mechanical Vibration – Hand-held and Hand-guided Machinery – Principles for Evaluation of Vibration Emission.

Specifications subject to change without prior notice. Model range may vary between markets.

\* The values stated in the table are derived 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 by an individual are unique to each situation and depend upon the surrounding environment, the way the individual operates the machinery, the particular material being worked, work station design and the user's exposure time and physical condition. Mirka Ltd accepts no responsibility 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) or <http://www.osha.gov> (USA)

## 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 specified, without consulting your Mirka dealer.

## Work stations

The tool is intended to be operated as a hand-held tool. It is always recommended that the tool should be used when standing on a solid floor. It can be 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 sander can develop a torque reaction. See the section "Operating instructions".

## Operating instructions

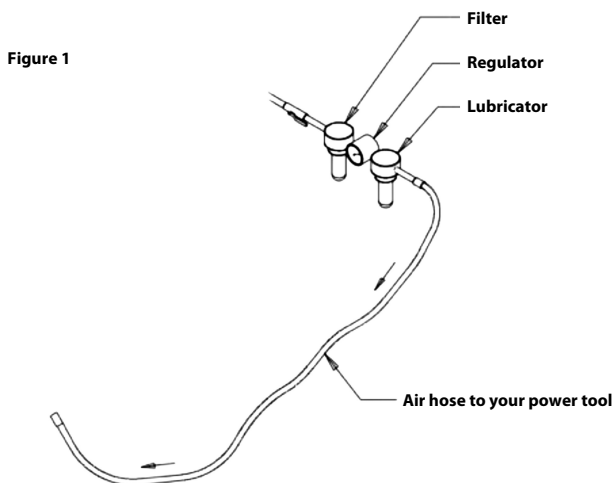
When unpacking the tool, make sure it is intact, complete and has not been damaged in transport. Never use a damaged tool.

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

Do not connect the tool to the compressed air system without incorporating an easy to reach and operate air shutoff valve. It is strongly recommended that an air filter, regulator and lubricator (FRL) are 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 the tool should be manually lubricated.

To manually lubricate the tool, disconnect the air hose and put 2 to 3 drops of supplied oil or Wurth art. no. 08930505 into the air connection on the tool. 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.

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).



## Maintenance



Always disconnect the air supply before maintenance!  
Only use original Mirka spare parts!

## Replacing the belt PBS 10

1. Disconnect the air supply.
2. Push the tension arm towards the steel protect cover to release the lock function. See Figure 2.
3. Open the steel protect cover by loosening the cover knob.
4. Change the belt, make sure that the belt is centered
5. Close the steel protect cover by tightening the cover knob
6. Press the lock function on the tension arm towards the steel cover to engage tension. See Figure 3.

### Example



**Figure 2** (Step 2)



**Figure 3** (Step 6)

## Replacing the belt PBS 13

1. Disconnect the air supply.
2. Push the plate to open the protect cover.
3. Keep the plate compressed in order to change the belt, make sure that the belt is centered.
4. Release the push plate to engage tension.
5. Close the steel protect cover.

## Further service

Servicing must always be performed by trained personnel. To keep the tool warranty valid and ensure optimal tool safety and function, servicing must be carried out by a Mirka authorized service centre. To locate your local Mirka authorized service centre, contact Mirka Customer Service or your Mirka dealer.

## Troubleshooting guide

Symptom	Possible cause	Solution
<b>Low power and/ or low free speed.</b>	Speed control set to low speed.	Turn the speed control to desired speed.
	Low air pressure.	Check air supply (according to operating instructions).
	Plugged air inlet screen.	Clean or replace the screen.
	Internal air leakage in the motor housing.	Check motor assembly and alignment. Check air inlet O-ring alignment on motor assembly.
	Worn or broken vanes.	Install a complete set of new vanes and rotor.
	Housing cracked or damaged.	Contact Mirka authorized service centre.
<b>Air leakage at the speed control.</b>	Dirty, broken or bent valve spring, valve or valve seat.	Disassemble, inspect and replace worn or damaged parts.
	Incorrect assembly of air valve.	Remove air inlet connection and reassemble the air valve, with the valve stem in its upper position.
<b>Vibration / rough operation.</b>	Worn or broken motor bearing(s).	Replace the worn or broken bearings.
	Low motor speed.	Increase motor speed with flow regulator, max 6.2 bar (90 psig).

# MIRKA



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