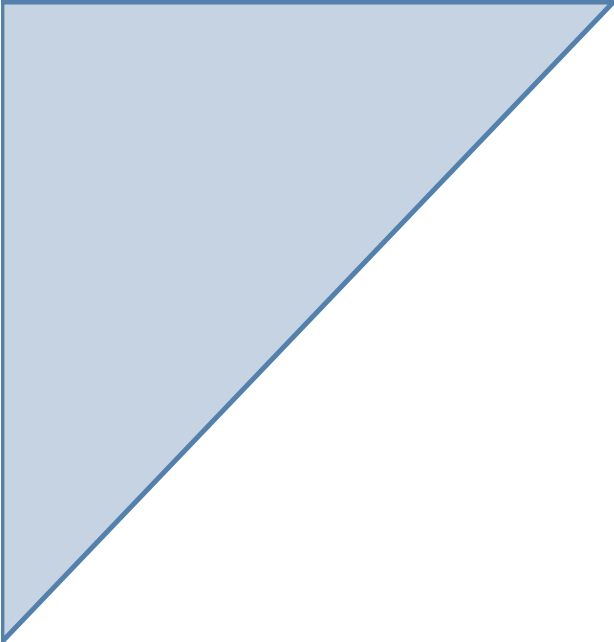




## 6.3 GP4 F / RF Spare Parts



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**Sorvall:**

**Thermo Scientific:**

X4F / X4RF Pro -,  
ST4F / ST4RF Plus -,  
SL4F / SL4RF Plus -,  
Multifuge X4F / X4RF Pro -,  
Megafuge ST4F / ST4RF Plus - series

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# Overview

- [Centrifuges Overview](#)

- [Front Panel](#)

[Parts List & Tools for Disassembly](#)

- [Lid](#)

[Parts List & Tools for Disassembly](#)

- [Outer Housing](#)

[Parts List & Tools for Disassembly](#)

- [Electronics](#)

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- [Service Kits & Stickers](#) [Parts List & Tools for Disassembly](#)

- [Cooling System](#)

[Parts List & Tools for Disassembly](#)

- [Only 100V Units](#)

[Parts List & Tools for Disassembly](#)



6.3 - 2

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Centrifuges Overview

- Thermo Scientific Multifuge X4F / X4RF Pro
- Sorvall X4F / X4RF Pro
- Thermo Scientific Megafuge ST4F / ST4RF Plus
- SL4F / SL4RF Plus
- Sorvall ST4F / ST4RF Plus



6.3 - 3

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Front Panel



[Pos. 1000](#)



[Pos. 1050](#)



[Pos. 1060](#)



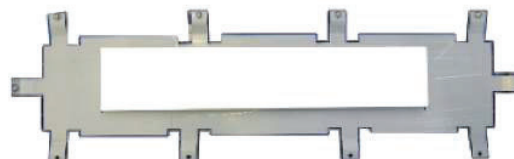
[Pos. 1070](#)



[Pos. 1200](#)



[Pos. 1300](#)



[Pos. 1310](#)



[Pos. 1500](#)



[Pos. 1510](#)



[Pos. 1400](#)

[Pos. 1410](#)

[Pos. 1420](#)



[Pos. 1100](#)

[Pos. 1110](#)

6.3 - 4

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Spare Parts Front Panel

| Pos. | Part Nr.: | Description:                         | GP4 PRO | GP4 PLUS | Required Tools     | Additional Recommended Tools |
|------|-----------|--------------------------------------|---------|----------|--------------------|------------------------------|
| 1000 | 50155352  | Front Panel                          | X       | X        | 3mm Allen          |                              |
| 1050 | 20480320  | Screw for plastic parts              | X       | X        | 3mm Allen, Torx 30 |                              |
| 1060 | 20480317  | Washer                               | X       | X        |                    |                              |
| 1070 | 20290706  | O-Ring                               | X       | X        |                    |                              |
|      |           |                                      |         |          |                    |                              |
| 1100 | 50157315  | GUI lasered, Multifuge X PRO series  | X       |          | 3mm Allen          |                              |
| 1110 | 50157314  | GUI lasered, Sorvall X PRO series    | X       |          | 3mm Allen          |                              |
|      |           |                                      |         |          |                    |                              |
| 1200 | 50156084  | Bezel UI GP4                         |         | X        | 3mm Allen, Torx 25 |                              |
|      |           |                                      |         |          |                    |                              |
| 1300 | 20150380  | LP SUI GP PLUS                       |         | X        | 3mm Allen, Torx 15 |                              |
| 1310 | 50160298  | SUI Housing                          |         | X        | 3mm Allen, Torx 15 |                              |
|      |           |                                      |         |          |                    |                              |
| 1400 | 50157288  | Keypad Overlay Megafuge GP4 ST Plus  |         |          | 3mm Allen          |                              |
| 1410 | 50157289  | Keypad Overlay Megafuge GP4R ST Plus |         | X        |                    |                              |
| 1420 | 50157290  | Keypad Overlay GP4 ST Plus           |         |          |                    |                              |
| 1430 | 50157291  | Keypad Overlay GP4R ST Plus          |         | X        |                    |                              |
| 1440 | 50157292  | Keypad Overlay GP4 SL Plus           |         |          |                    |                              |
| 1450 | 50157293  | Keypad Overlay GP4R SL Plus          |         | X        |                    |                              |
|      |           |                                      |         |          |                    |                              |
| 1500 | 50150955  | Clamp ferrite round                  | X       |          | 3mm Allen          |                              |
| 1510 | 20059877  | USB cover                            | X       |          |                    |                              |

6.3 - 5

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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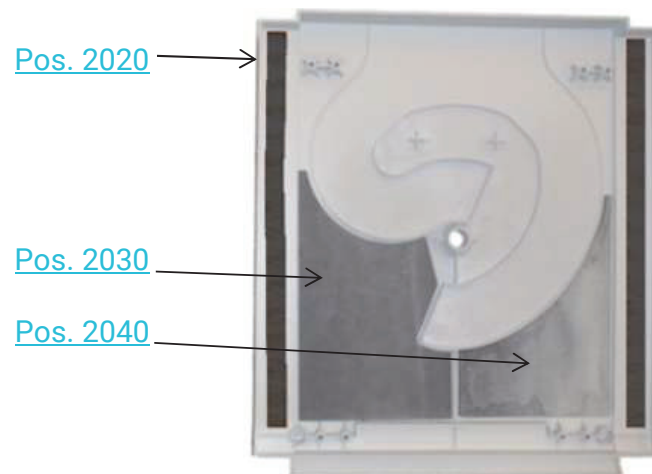
# Lid



[Pos. 2000](#)



[Pos. 2010](#)



[Pos. 2020](#)

[Pos. 2030](#)

[Pos. 2040](#)



[Pos. 2050](#)



[Pos. 2060](#)

[Pos. 2070](#)



[Pos. 2080](#)

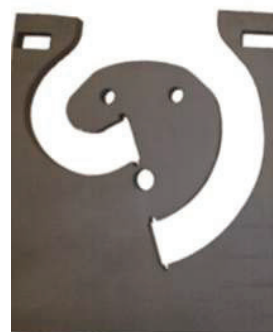
[Pos. 2090](#)



[Pos. 2300](#)



[Pos. 2400](#)



[Pos. 2130](#)



[Pos. 2110](#)

[Pos. 2120](#)



[Pos. 2100](#)

6.3 - 6

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Spare Parts Lid

| Pos. | Part Nr.: | Description:                                  | GP4 PRO | GP4 PLUS | Required Tools                   | Additional Recommended Tools |
|------|-----------|-----------------------------------------------|---------|----------|----------------------------------|------------------------------|
| 2000 | 50155360  | Lid ( <i>completely, ref.</i> )               | X       | X        | 3mm Allen, Torx 30               |                              |
| 2010 | 50161810  | Cover foil                                    | X       | X        |                                  |                              |
| 2020 | 50155351  | Lid cover ( <i>air</i> )                      | X       | X        | 3mm Allen, Torx 30               |                              |
| 2030 | 20058593  | Damping mat left                              | X       | X        |                                  |                              |
| 2040 | 20058594  | Damping mat right                             | X       | X        |                                  |                              |
| 2050 | 20058480  | Hook                                          | X       | X        | 17mm jaw wrench, pipe wrench     |                              |
| 2060 | 20058525  | Lid hinge ( <i>air</i> )                      | X       | X        | 3mm Allen, Torx 30               |                              |
| 2070 | 20058500  | Lid hinge ( <i>ref.</i> )                     | X       | X        |                                  |                              |
| 2080 | 20050543  | Upper window ( <i>air</i> )                   | X       | X        | 32mm jaw wrench                  |                              |
| 2090 | 50157693  | Upper window ( <i>ref.</i> )                  | X       | X        |                                  |                              |
| 2100 | 20056625  | Sightglass bottom part                        | X       | X        |                                  |                              |
| 2110 | 20056650  | Mounting bracket gas lid stay ( <i>air</i> )  | X       | X        | 3mm Allen                        |                              |
| 2120 | 20023748  | Mounting bracket gas lid stay ( <i>ref.</i> ) | X       | X        |                                  |                              |
| 2130 | 50157948  | Insert                                        | X       | X        | 3mm Allen, Torx 30               |                              |
| 2300 | 20058221  | Distance buffer                               | X       | X        |                                  |                              |
| 2400 | 50154683  | Gas lid stay GP4 ( <i>ref.</i> )              | X       | X        | Striker pin, hammer, pipe wrench |                              |
| 2410 | 50159920  | Gas lid stay GP4 ( <i>air</i> )               | X       | X        |                                  |                              |

6.3 - 7

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Outer Housing



[Pos. 2400](#)



[Pos. 2410](#)



[Pos. 2500](#)

[Pos. 2510](#)



[Pos. 2700](#)



[Pos. 2710](#)



[Pos. 2620](#)



[Pos. 2600](#)



[Pos. 2610](#)

6.3 - 8

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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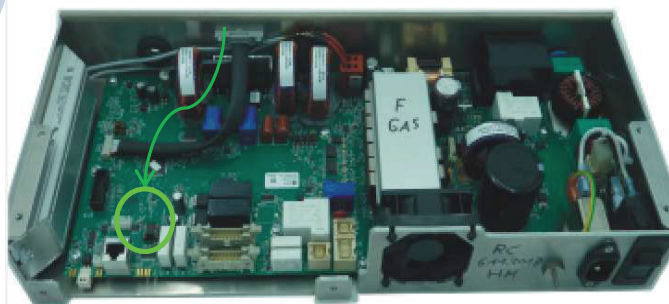
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# Spare Parts Outer Housing

| Pos. | Part Nr.: | Description:                      | GP4 PRO | GP4 PLUS | Required Tools | Additional Recommended Tools |
|------|-----------|-----------------------------------|---------|----------|----------------|------------------------------|
| 2400 | 50161671  | Front Cover GP4pro ( <i>air</i> ) | X       | X        |                |                              |
| 2410 | 50157831  | Rear panel ( <i>air</i> )         | X       | X        |                |                              |
| 2500 | 50161672  | Front Grid GP4pro ( <i>ref.</i> ) | X       | X        |                |                              |
| 2510 | 50157836  | Rear panel ( <i>ref.</i> )        | X       | X        |                |                              |
| 2600 | 20220629  | Cap                               | X       | X        |                |                              |
| 2610 | 50159979  | Plug for rear panel GP4           |         | X        |                |                              |
| 2620 | 50149033  | Modular Coupling (RJ45)           | X       |          |                |                              |
| 2700 | 20280156  | Fixed Castor                      | X       | X        |                |                              |

# Electronics

[Pos. 3010](#)



[Pos. 3000](#)



[Pos. 3100](#)



[Pos. 3110](#)



[Pos. 3200](#)



[Pos. 3210](#)



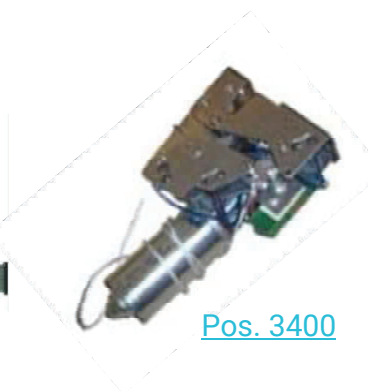
[Pos. 3610](#)



[Pos. 3600](#)



[Pos. 3500](#)  
[Pos. 3510](#)



[Pos. 3400](#)



[Pos. 3300](#)  
[Pos. 3310](#)

6.3 - 10

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Spare Parts Electronics

| Pos. | Part Nr.: | Description:                                     | GP4 PRO | GP4 PLUS | Required Tools     | Additional Recommended Tools |
|------|-----------|--------------------------------------------------|---------|----------|--------------------|------------------------------|
| 3000 | 20150350  | Main PCB                                         | X       | X        |                    |                              |
| 3010 | NVRAM     | SEE NEXT PAGE FOR NVRAM UPDATES AND PART NUMBERS |         |          |                    |                              |
|      |           |                                                  |         |          |                    |                              |
| 3100 | 50156884  | Motor GP                                         | X       | X        | 13mm socket wrench | AutoLock ToolKit, 3mm Allen  |
| 3110 | 50156885  | Motor plug                                       | X       | X        | Small screwdriver  |                              |
|      |           |                                                  |         |          |                    |                              |
| 3200 | 20150370  | PCB Speed, imbalance, rotor (Sensor cap)         | X       | X        | 3mm Allen          |                              |
| 3210 | 20058551  | Motor cover                                      | X       | X        |                    |                              |
|      |           |                                                  |         |          |                    |                              |
| 3300 | 70902026  | AutoLock SH65Y                                   | X       | X        | AutoLock ToolKit   |                              |
| 3310 | 50114901  | O-ring AutoLock green                            | X       | X        |                    |                              |
|      |           |                                                  |         |          |                    |                              |
| 3400 | 70902710  | Lid latch                                        | X       | X        | 3mm Allen          |                              |
|      |           |                                                  |         |          |                    |                              |
| 3500 | 50157320  | Harness GP4 PRO                                  | X       |          |                    | Small Screwdriver            |
| 3510 | 50157281  | Harness GP4 PLUS                                 |         | X        |                    | Small Screwdriver            |
|      |           |                                                  |         |          |                    |                              |
| 3610 | 20190300  | Line in cord 120V                                | X       | X        |                    |                              |
| 3620 | 20190246  | Line in cord 230V                                | X       | X        |                    |                              |

6.3 - 11

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# NV-RAM Overview

| Pos. | Part Nr.:       | Description:                     | PRO<br>GP4 | PLUS<br>GP4 | PRO<br>GP4R | PLUS<br>GP4R |
|------|-----------------|----------------------------------|------------|-------------|-------------|--------------|
|      | Software on USB | MULTIFUGE X PRO - SERIES         | X          |             |             |              |
|      |                 | SORVALL X PRO - SERIES           | X          |             |             |              |
|      |                 | <b>Ventilated</b>                |            |             |             |              |
| 3010 | 70907332        | NVRAM PRV GP4 Pro 230V 7332VXX   | X          |             |             |              |
|      | 70907334        | NVRAM PRV GP4 Pro 120V 7334VXX   | X          |             |             |              |
|      | 70907346        | NVRAM PRV GP4 Pro 100V 7346VXX   | X          |             |             |              |
|      | 70907336        | NVRAM PRV GP4 PLUS 230V 7336VXX  |            | X           |             |              |
|      | 70907338        | NVRAM PRV GP4 PLUS 120V 7338VXX  |            | X           |             |              |
|      | 70907348        | NVRAM PRV GP4 PLUS 100V 7348VXX  |            | X           |             |              |
|      |                 | <b>Refrigeration</b>             |            |             |             |              |
|      | 70907333        | NVRAM PRV GP4R Pro 230V 7333VXX  |            |             | X           |              |
|      | 70907335        | NVRAM PRV GP4R Pro 120V 7335VXX  |            |             | X           |              |
|      | 70907347        | NVRAM PRV GP4R Pro 100V 7347VXX  |            |             | X           |              |
|      | 70907337        | NVRAM PRV GP4R PLUS 230V 7337VXX |            |             |             | X            |
|      | 70907339        | NVRAM PRV GP4R PLUS 120V 7339VXX |            |             |             | X            |
|      | 70907349        | NVRAM PRV GP4R PLUS 100V 7349VXX |            |             |             | X            |

6.3 - 12

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

# Service Kits & Stickers



[Pos. 4100](#)



[Pos. 4000](#)



[Pos. 4290](#)



[Pos. 4300](#)



[Pos. 4200](#)



[Pos. 4210](#)



[Pos. 4220](#)



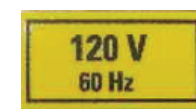
[Pos. 4230](#)



[Pos. 4240](#)



[Pos. 4250](#)



[Pos. 4260](#)



[Pos. 4270](#)



[Pos. 4280](#)

# Spare Parts Service Kits & Stickers

| Pos. | Part Nr.:    | Description:                            | GP4 PRO | GP4 PLUS |
|------|--------------|-----------------------------------------|---------|----------|
| 4000 | 70900400     | PM-Kit GP4 Pro/Plus <b>Refrigerated</b> | X       | X        |
| 4100 | 70904693     | Tool kit Auto Lock                      | X       | X        |
| 4200 | 20310530     | Label Biohazard                         | X       | X        |
| 4210 | 50151010     | Sticker Disconnect from mains           | X       | X        |
| 4220 | 50150990     | Sticker Read manual                     | X       | X        |
| 4230 | 20310307     | Sticker Attention                       | X       | X        |
| 4240 | 10100218     | Label Protective earth                  | X       | X        |
| 4250 | 50136700     | Adhesive lable Auto Lock                | X       | X        |
| 4260 | 20055681     | Lable 120V                              | X       | X        |
| 4270 | 20055682     | Lable 230V                              | X       | X        |
| 4280 | 20055680     | Lable 100V                              | X       | X        |
| 4290 | Call Service | Name plate                              | X       | X        |
| 4300 | 50136215     | Sticker braked castors                  | X       | X        |

# Cooling System



[Pos. 5000](#)

[Pos. 5010](#)



[Pos. 5020](#)



[Pos. 5030](#)



[Pos. 5050](#)



[Pos. 5300](#)

[Pos. 5310](#)



[Pos. 5400](#)

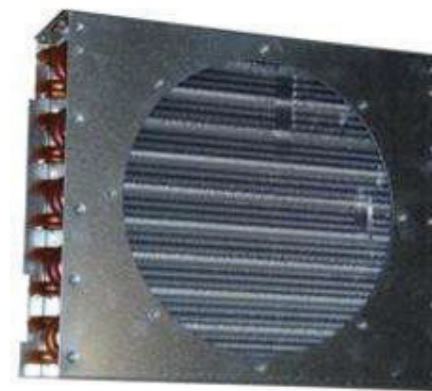


[Pos. 5200](#)



[Pos. 5100](#)

[Pos. 5000](#)



[Pos. 5060](#)

6.3 - 15

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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# Spare Parts Cooling System

| Pos. | Part Nr.: | Description:                                      | 230V | 100V / 120V |
|------|-----------|---------------------------------------------------|------|-------------|
| 5000 | 20240675  | Compresoor                                        | X    |             |
| 5010 | 20240668  | Compressor                                        |      | X           |
| 5020 | 20240577  | Dryer                                             | X    | X           |
|      |           |                                                   |      |             |
| 5040 | 50116522  | Pressostat bench top                              | X    | X           |
|      |           |                                                   |      |             |
| 5050 | 20240672  | Expansion valve                                   | X    | X           |
| 5060 | 20058481  | Condenser                                         | X    | X           |
|      |           |                                                   |      |             |
| 5100 | 20210437  | Fan 230V                                          | X    |             |
| 5110 | 20210436  | Fan 120V                                          |      | X           |
|      |           |                                                   |      |             |
| 5200 | 50116267  | Temperature sensor                                | X    | X           |
|      |           |                                                   |      |             |
| 5300 | 50155827  | Seal ( <i>ref.</i> )                              | X    | X           |
| 5310 | 20290715  | Seal ( <i>air</i> )                               | X    | X           |
|      |           |                                                   |      |             |
| 5400 | 50159823  | Seal stripe (replace after 5 years or if damaged) | X    | X           |

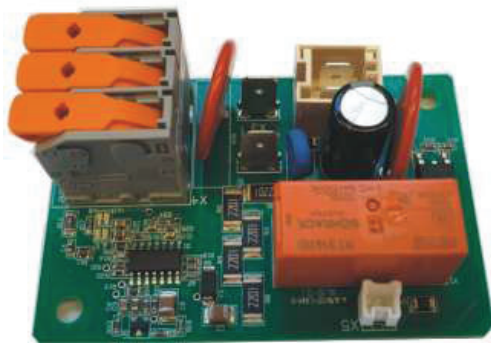
6.3 - 16

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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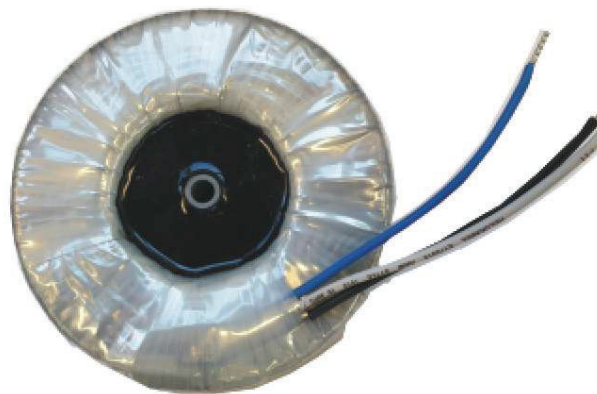
## Only 100V Units



[Pos. 5000](#)



[Pos. 5100](#)



[Pos. 5200](#)

6.3 - 17

**Floor Standing Units:** Multifuge X4F/RF Pro -, Megafuge ST4F/RF Plus -, Sorvall ST4F/RF Plus -, Sorvall X4F/RF Pro -, SL4F/RF Plus - series

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## Spare Parts only 100V Units

| Pos. | Part Nr.: | Description:                     | GP4 Pro F / RF | GP4 Plus F / RF | Required Tools               | Additionally Recommended Tools |
|------|-----------|----------------------------------|----------------|-----------------|------------------------------|--------------------------------|
| 5000 | 20150359  | PCBA 50/60Hz Switch              | X              | X               | Torx 20                      |                                |
| 5100 | 50159198  | Transformer holder GP4-R 100V    | X              | X               | 8mm & 10mm jaw wrench,       |                                |
| 5200 | 50159549  | Autotransformer 100V/115V GP 1/3 | X              | X               | 5mm Allen, 7mm socket wrench |                                |
|      |           |                                  |                |                 |                              |                                |
|      |           |                                  |                |                 |                              |                                |
|      |           |                                  |                |                 |                              |                                |