



# ***Fischer Panda***

## **Partlist**



### **Diesel-Generator: Panda PMS 4200 FCB**

Super silent technology

120V - 60Hz / 3,7kW

**Fischer Panda GmbH**

## Current revision status

|          | Document                               |
|----------|----------------------------------------|
| Actual:  | Panda_PMS_4200FCB_Partlist.R03_19.1.10 |
| Replace: | Panda_PMS_4200FCB_Partlist.R02_1.12.09 |

| Revision                   | Page |
|----------------------------|------|
| Updated the whole partlist |      |
|                            |      |
|                            |      |
|                            |      |
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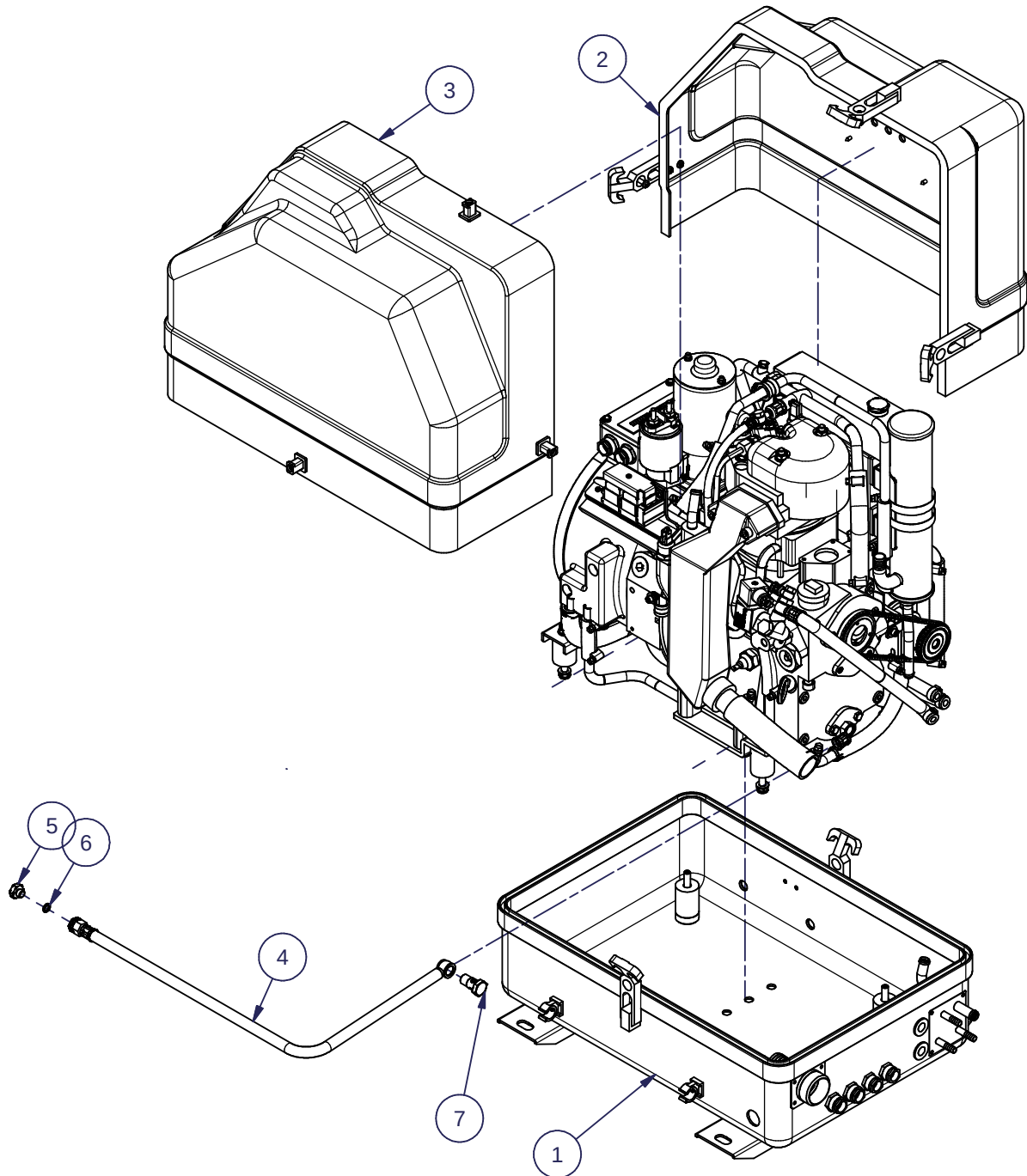
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Generator with capsule type 1

Group: Sound cover type 1

Type:P4200 FCB PMS 120V 60Hz



Parts List

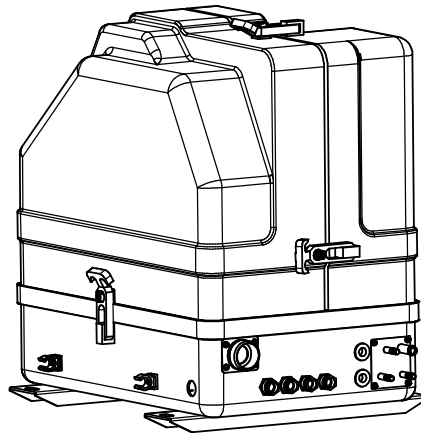
| Pos | Qty | Description                                                    | Bezeichnung                                                         | Specification | Artikel Nr.   | - |
|-----|-----|----------------------------------------------------------------|---------------------------------------------------------------------|---------------|---------------|---|
| 1   | 1   | sound isolation capsule base part for Panda 4200 PMS FC GFK-3D | Schalldämmkapsel Unterteil für Panad 4200 FC PMS 3D USA             | FP1-001437    | 31.01.01.005H |   |
| 2   | 1   | sound isolation capsule right Panda 4200 FCB PMS GFK 3D        | Schalldämmkapsel Oberteil rechts Panda 4200 PMS GFK 3D              | FP1-001435    | 31.01.02.015H |   |
| 3   | 1   | sound isolation capsule left Panda 4200 FCB PMS GFK 3D         | Schalldämmkapsel Oberteil links Panda 4200 PMS GFK 3D               | FP1-001433    | 31.01.02.016H |   |
| 4   | 1   | oil drain hose 8mm length 600mm complete with fittings         | Ölablassschlauch 8mm Länge 600mm komplett mit Anschluss und Stopfen | FP2-000183    | 31.23.20.007H |   |
| 5   | 1   | closing-screw M10x1, 8mm, SW 17, Al for oil-drain-fitting      | Verschlussschraube M10x1, 8mm, SW 17, Al für Ölablassstutzen        | FP1-000664    | 31.05.10.003H |   |
| 6   | 1   | O-Ring NBR70 9,0 x 2,0mm                                       | O-Ring NBR70 9,0 x 2,0mm                                            | FP1-000563    | 32.02.01.045H |   |
| 7   | 1   | banjo bolt DIN7643 R1/4" NW8                                   | Hohlschraube DIN7643 R1/4" NW8                                      | FP2-000217    | 32.21.01.017H |   |



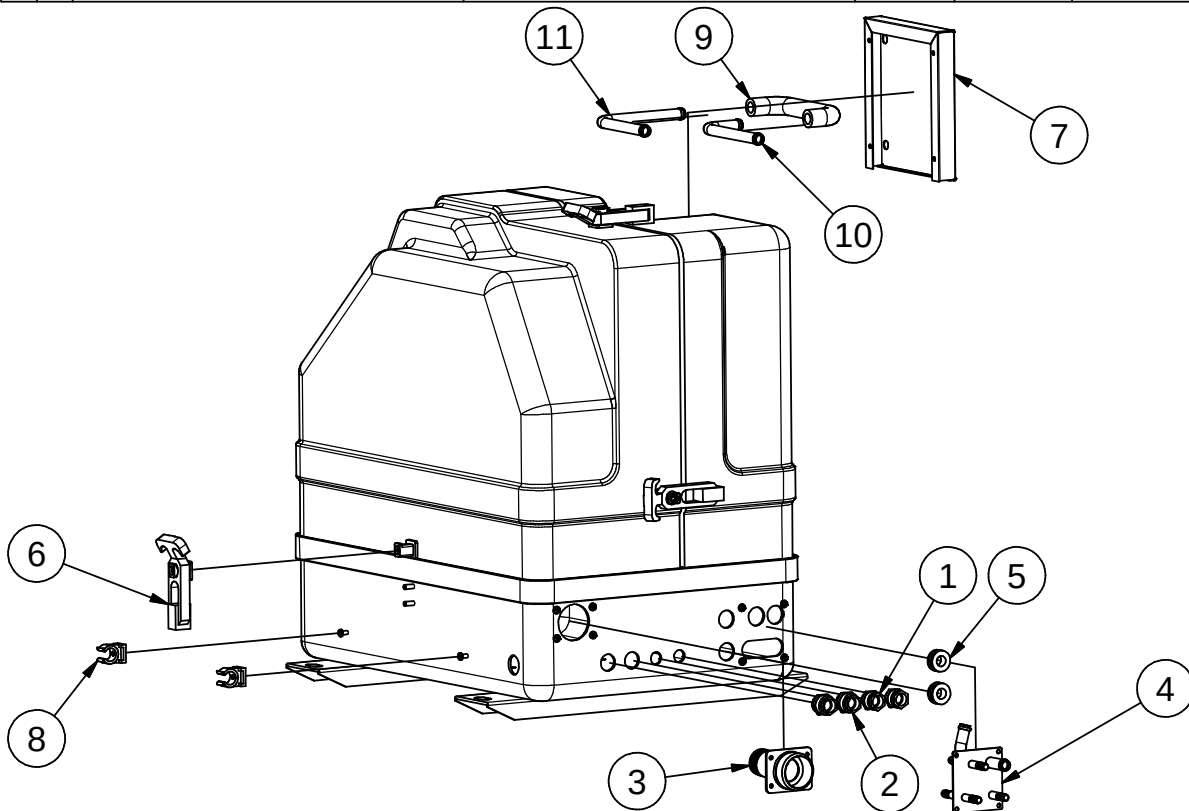
Sound cover type 1

Group: Sound cover type 1

Type: Panda 4200 FCB PMS 120V/60Hz



| Parts List |     |                                                                              |                                                                    |               |               |
|------------|-----|------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                                  | Bezeichnung                                                        | Specification | Artikel Nr.   |
| 1          | 1   | sound isolation capsule complete for Panda 4 FCB PMS with 3D sound isolation | Schalldämmkapsel komplett für Panda 4 FCB PMS mit 3D Schalldämmung | FP1-001448    | 31.01.00.005H |



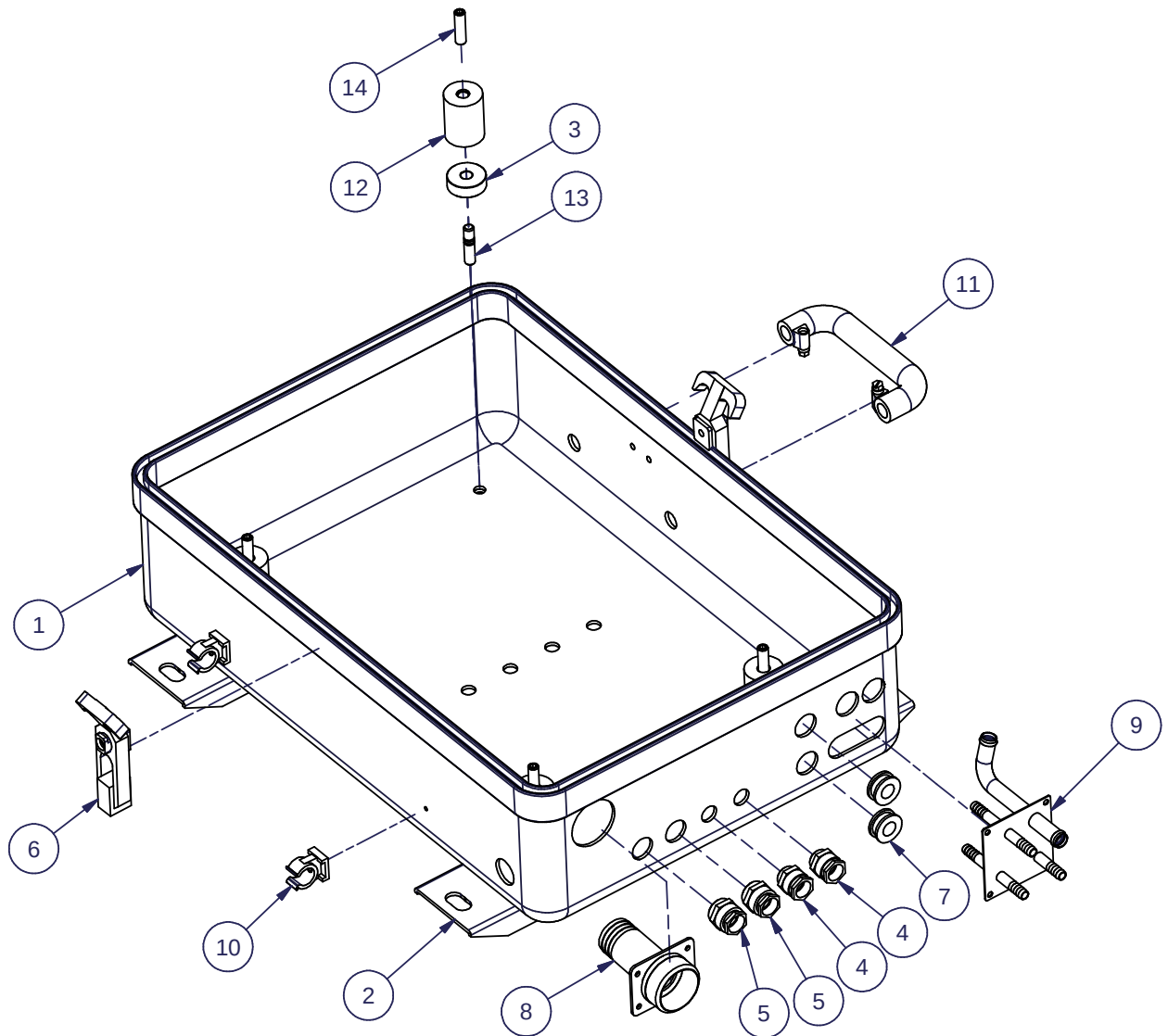
| Parts List |     |                                                        |                                                                                             |               |               |
|------------|-----|--------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                            | Bezeichnung                                                                                 | Specification | Artikel Nr.   |
| 2          | 2   | screwed cable gland M20                                | Kabelverschraubung M20x1,5 07-12mm Ms vernickelt o. Zugentlastung, Sechskantzwischenstutzen | FP1-001447    | 34.07.04.033H |
| 3          | 1   | capsule pass through Exhaust gas P04 FCB               | Kapseldurchführung Abgas P04 FCB                                                            | FP1-001445    | 31.20.04.017H |
| 4          | 1   | Capsule pass through fuel + water IN-OUT P04 FCB       | Kapseldurchführung Kraftstoff + Wasser P04 FCB                                              | FP1-001441    | 31.20.04.016H |
| 5          | 2   | rubber grommet double sided 12x20x24mm                 | Kabeldurchführungstülle doppelseitig Ø 12x20x24mm                                           | FP2-001915    | 34.03.12.018H |
| 6          | 2   | capsule lock with t-handle 112mm, complete with keeper | Kapselverschluß 112mm mit Knebelgriff, komplett mit Schließzapfen                           | FP2-000114    | 40.04.01.032H |
| 7          | 1   | air inlet cover 170 x 155 x 23mm                       | Lufteinlaßabdeckung 170 x 155 x 23mm                                                        | FP1-001436    | 31.02.04.007H |
| 8          | 2   | holder for hose 15mm                                   | Schlauchhalter 15mm                                                                         | FP2-002585    | 32.03.50.002H |
| 9          | 1   | formed hose Ø12mm 60mm-90°85mm-90°60mm                 | Formschlauch Ø12mm 60mm-90°85mm-90°60mm                                                     | FP2-003178    | 33.04.09.023H |
| 10         | 1   | coolant pipe OD 12 100-90°30                           | Kühlwasserrohr DA 12 100-90°30                                                              | FP2-002345    | 31.22.02.009H |
| 11         | 1   | coolant pipe OD 12 95-90°85                            | Kühlwasserrohr DA 12 95-90°85                                                               | FP2-002343    | 31.22.02.008H |



Sound cover bottom type 1

Group: Sound cover bottom type 1

Type:P4200 FCB PMS 120V 60Hz



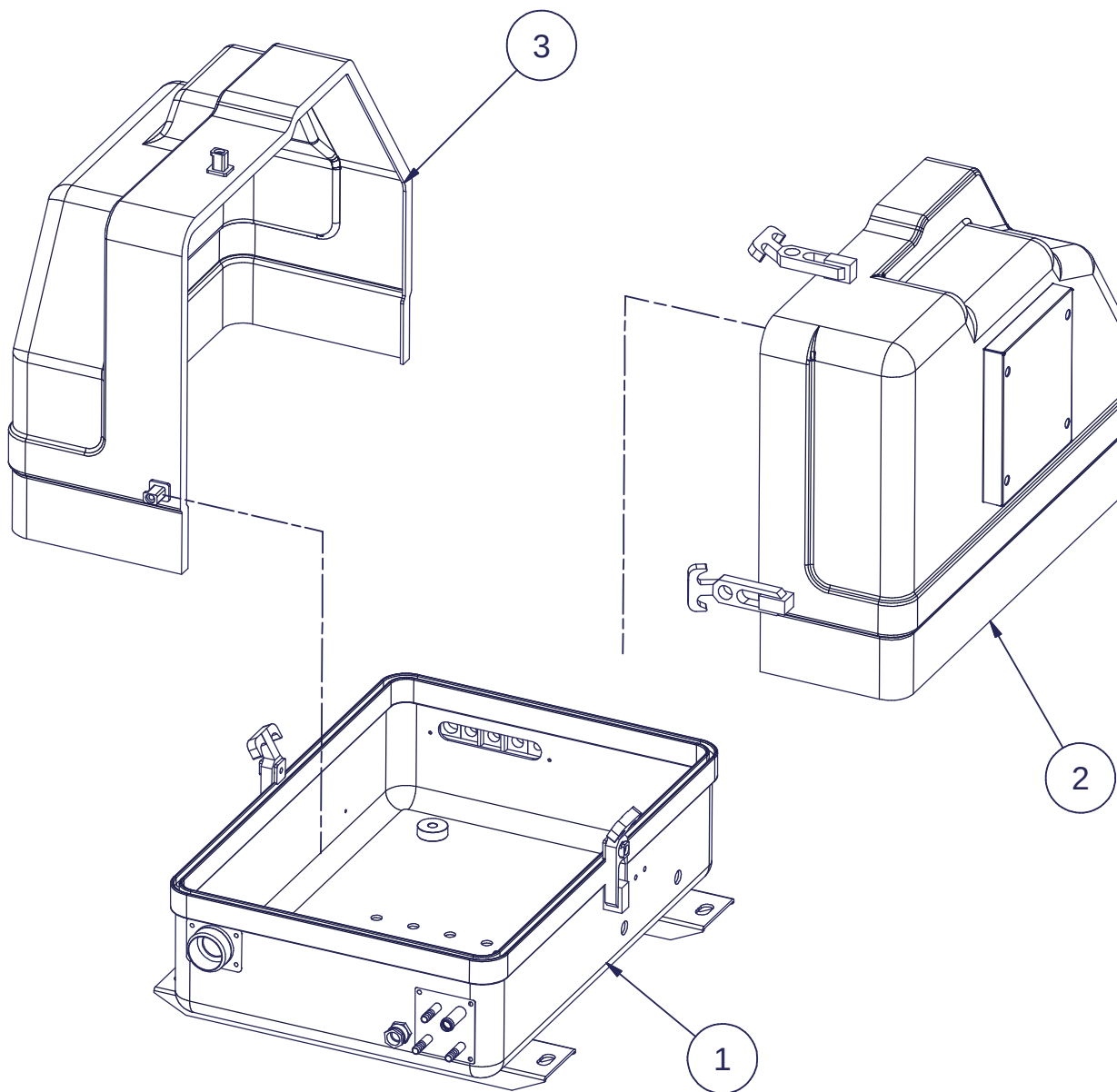
| Parts List |     |                                                                                                       |                                                                                             |               |               |
|------------|-----|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                                                           | Bezeichnung                                                                                 | Specification | Artikel Nr.   |
| 1          | 1   | sound isolation capsule base part for Panda 4200 PMS FC GFK-3D<br>(CFK Part without additional parts) | Schalldämmkapsel Unterteil für Panad 4200 FC PMS 3D USA<br>(GFK Teil ohne Anbauteile)       | FP1-001429    | 31.01.01.013H |
| 2          | 2   | capsule base U-formed 20x75mm L=425mm                                                                 | Kapselfuß U-form 20x75mm L=425mm                                                            | FP1-001431    | 31.03.10.003H |
| 3          | 2   | Distance piece, D=30mm, H=10mm                                                                        | Distanzscheibe, D=30mm, H=10mm                                                              | FP1-001425    | 31.03.62.002H |
| 4          | 2   | screwed cable gland M16                                                                               | Kabelverschraubung M16x1,5 08-10mm Ms vernickelt o. Zugentlastung, Sechskantzwischenstutzen | FP1-000996    | 34.07.04.032H |
| 5          | 2   | screwed cable gland M20                                                                               | Kabelverschraubung M20x1,5 07-12mm Ms vernickelt o. Zugentlastung, Sechskantzwischenstutzen | FP1-001447    | 34.07.04.033H |
| 6          | 2   | capsule lock with t-handle 112mm, single without keeper                                               | Kapselverschluß 112mm mit Knebelgriff, einzeln ohne Schließzapfen                           | FP2-000116    | 40.04.01.031H |
| 7          | 2   | rubber grommet double sided 12x20x24mm                                                                | Kabeldurchführungsstülle doppelseitig Ø 12x20x24mm                                          | FP2-001915    | 34.03.12.018H |
| 8          | 1   | capsule pass through Exhaust gas P04 FCB                                                              | Kapseldurchführung Abgas P04 FCB                                                            | FP1-001445    | 31.20.04.017H |
| 9          | 1   | Capsule pass through fuel + water IN-OUT P04 FCB                                                      | Kapseldurchführung Kraftstoff + Wasser P04 FCB                                              | FP1-001441    | 31.20.04.016H |
| 10         | 2   | holder for hose 15mm                                                                                  | Schlauchhalter 15mm                                                                         | FP2-002585    | 32.03.50.002H |
| 11         | 1   | formed hose Ø12mm 60mm-90°85mm-90°60mm                                                                | Formschlauch Ø12mm 60mm-90°85mm-90°60mm                                                     | FP2-003178    | 33.04.09.023H |
| 12         | 4   | rubber mounts type "C" 30x40mm with double side internal thread M8, SH 55°                            | Metall-Gummi-Puffer 30x40mm Typ "C" beidseitig Innengewinde M8, SH 55°                      | FP1-001485    | 32.30.02.013H |
| 13         | 4   | stud screw (1,25 d) M 8x25 DIN 939 zinc plated                                                        | Stiftschraube (1,25 d) M 8x25 DIN 939 verzinkt                                              | FP1-001625    | 32.01.10.018H |
| 14         | 4   | hexagon socket set screw with flat point M 8x30 DIN 913 A2                                            | Gewindestift mit Innensechskant und Kegelkuppe M 8x30 DIN 913 A2                            | FP1-001547    | 32.01.11.005H |



Sound cover type 2

Group: Sound cover type 2

Type: Panda 4200 PMS 120V 60Hz



Parts List

| Pos | Qty | Description                                                                                  | Bezeichnung                                                                       | Specification | Artikel Nr.   | - |
|-----|-----|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------------|---|
| 1   | 1   | sound isolation capsule base part Panda 4 FC PMS 3D 120V/60Hz with Icotec cable feed through | Schalldämmkapsel Unterteil Panda 4 FC PMS 3D 120V/60Hz mit Icotec Verschraubungen | FP1-006114    | 31.01.01.027H |   |
| 2   | 1   | sound isolation capsule right Panda 4200 FCB PMS GFK 3D                                      | Schalldämmkapsel Oberteil rechts Panda 4200 PMS GFK 3D                            | FP1-006116    | 31.01.02.015H |   |
| 3   | 1   | sound isolation capsule left Panda 4200 FCB PMS GFK 3D                                       | Schalldämmkapsel Oberteil links Panda 4200 PMS GFK 3D                             | FP1-006118    | 31.01.02.016H |   |

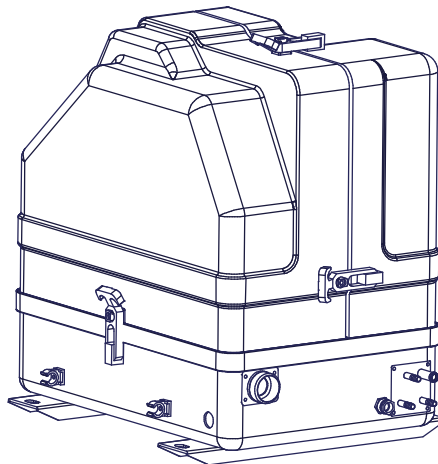




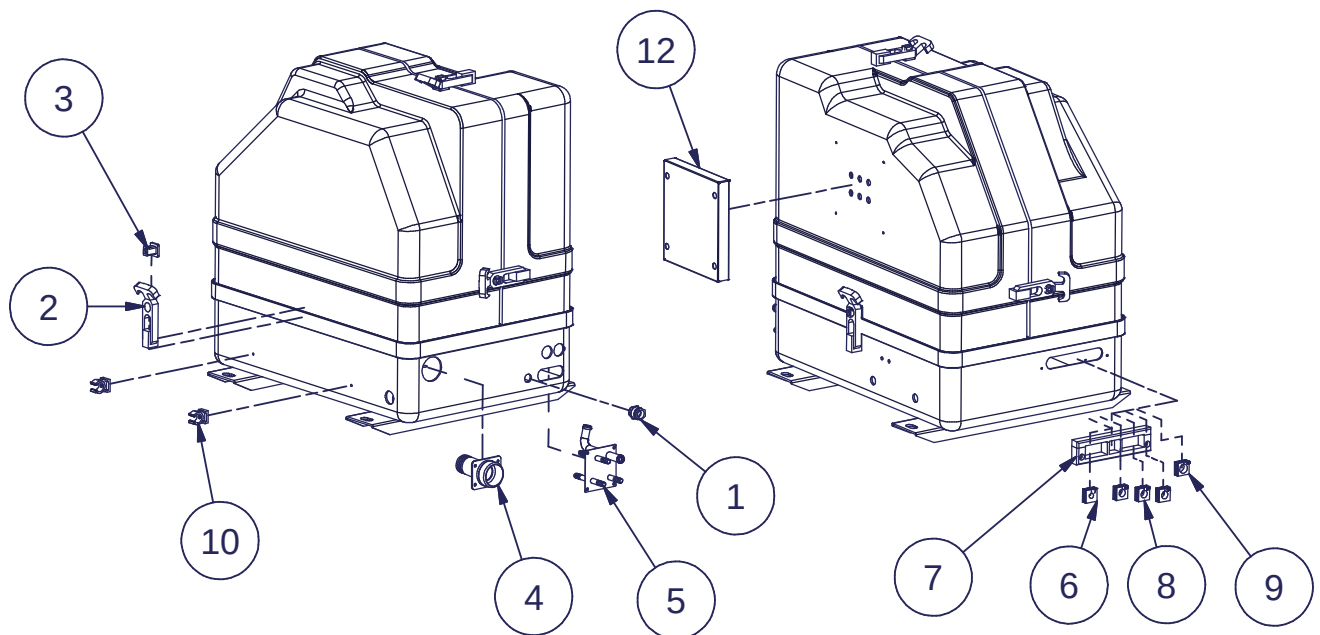
Sound cover type 2

Group: Sound cover type 2

Type:Panda 4200 PMS 120V 60Hz



| Parts List |     |                                                                                                     |                                                                                                    |               |               |
|------------|-----|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                                                         | Bezeichnung                                                                                        | Specification | Artikel Nr.   |
| 1          | 1   | sound isolation capsule complete for Panda 4 FCB PMS with 3D sound isolation and Icotec cable gland | Schalldämmkapsel komplett für Panda 4 FCB PMS mit 3D Schalldämmung und Icotec Kabelverschraubungen | FP1-006112    | 31.01.00.014H |



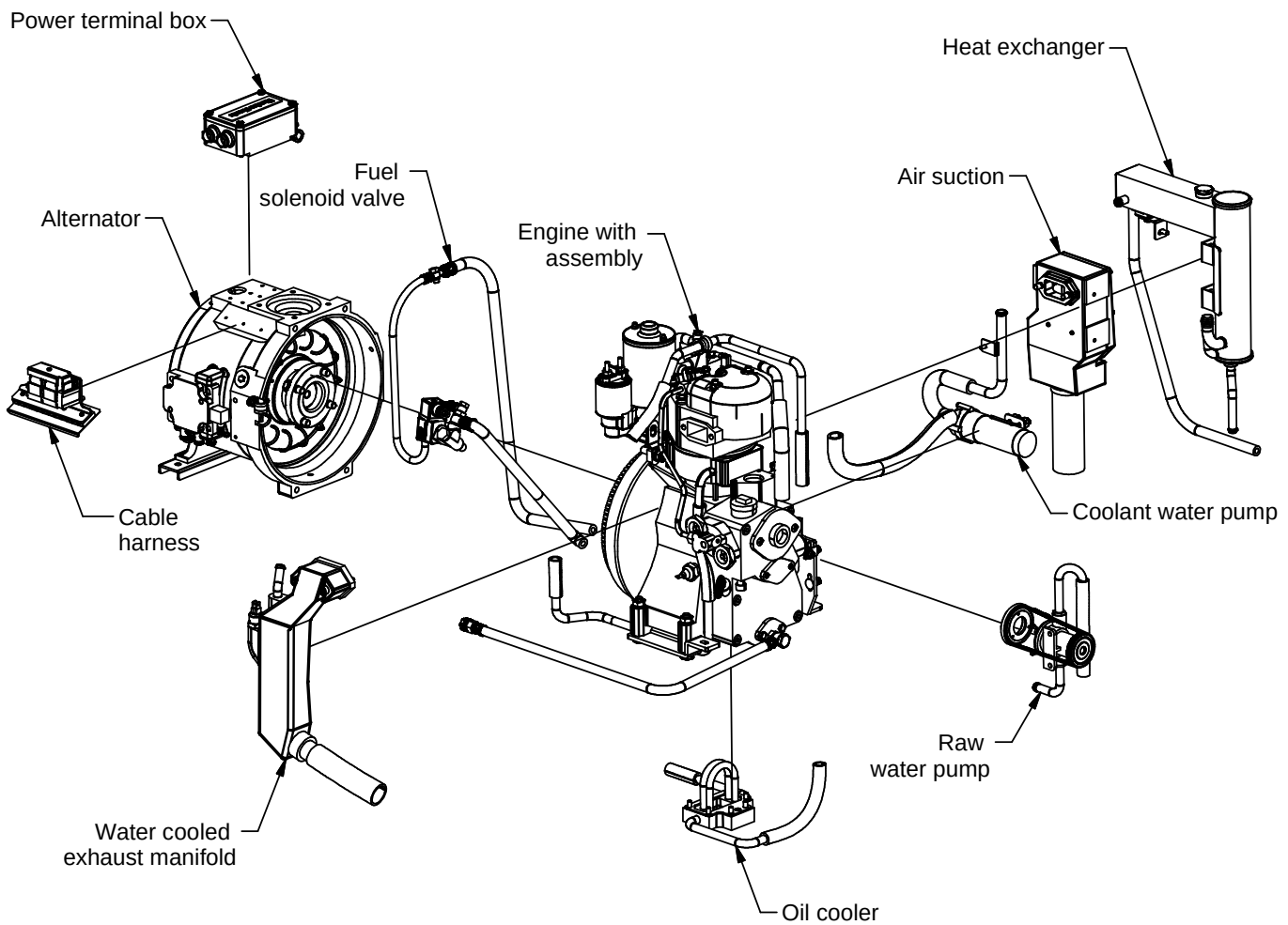
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|------------|-----|----------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                              | Bezeichnung                                                                                 | Specification | Artikel Nr.   |
| 1          | 1   | screwed cable gland M16                                  | Kabelverschraubung M16x1,5 08-10mm Ms vernickelt o. Zugentlastung, Sechskantzwischenstützen | FP1-000996    | 34.07.04.032H |
| 2          | 2   | capsule lock with t-handle 112mm, single without keeper  | Kapselverschluss 112mm mit Knebelgriff, einzeln ohne Schließzapfen                          | FP2-000116    | 40.04.01.031H |
| 3          | 2   | keeper particularly for capsule lock with t-handle 112mm | Schließzapfen einzeln für Kapselverschluß mit Knebelgriff 112mm                             | FP2-000115    | 40.04.01.033H |
| 4          | 1   | capsule pass through Exhaust gas P04 FCB                 | Kapseldurchführung Abgas P04 FCB                                                            | FP1-001445    | 31.20.04.017H |
| 5          | 1   | Capsule pass through fuel + water IN-OUT P04 FCB         | Kapseldurchführung Kraftstoff + Wasser P04 FCB                                              | FP1-001441    | 31.20.04.016H |
| 6          | 1   | protective sleeve KT7 clamping range 7-8mm, black        | Tülle KT7 Klemmbereich 7-8mm, schwarz                                                       | FP1-006122    | 34.03.12.021H |
| 7          | 1   | cable feed through KEL 24/S-½                            | Kabeleinführungsleiste KEL 24/S-½                                                           | FP1-006090    | 34.03.12.022H |
| 8          | 3   | protective sleeve KT7 clamping range 12-13mm, black      | Tülle KT12 Klemmbereich 12-13mm, schwarz                                                    | FP1-006123    | 34.03.12.001H |
| 9          | 1   | protective sleeve KT7 clamping range 15-16mm, black      | Tülle KT15 Klemmbereich 15-16mm, schwarz                                                    | FP1-008653    | 34.03.12.006H |
| 10         | 2   | holder for hose 15mm                                     | Schlauchhalter 15mm                                                                         | FP2-002585    | 32.03.50.002H |
| 11         | 3   | keeper particularly for capsule lock with t-handle 112mm | Schließzapfen einzeln für Kapselverschluß mit Knebelgriff 112mm                             | FP2-000115    | 40.04.01.033H |
| 12         | 1   | air inlet cover 170 x 155 x 23mm                         | Lufteinlaßabdeckung 170 x 155 x 23mm                                                        | FP1-001436    | 31.02.04.007H |



Genset complete

Group: Genset groups

Type: Panda 4200 FCB PMS 120V/60Hz

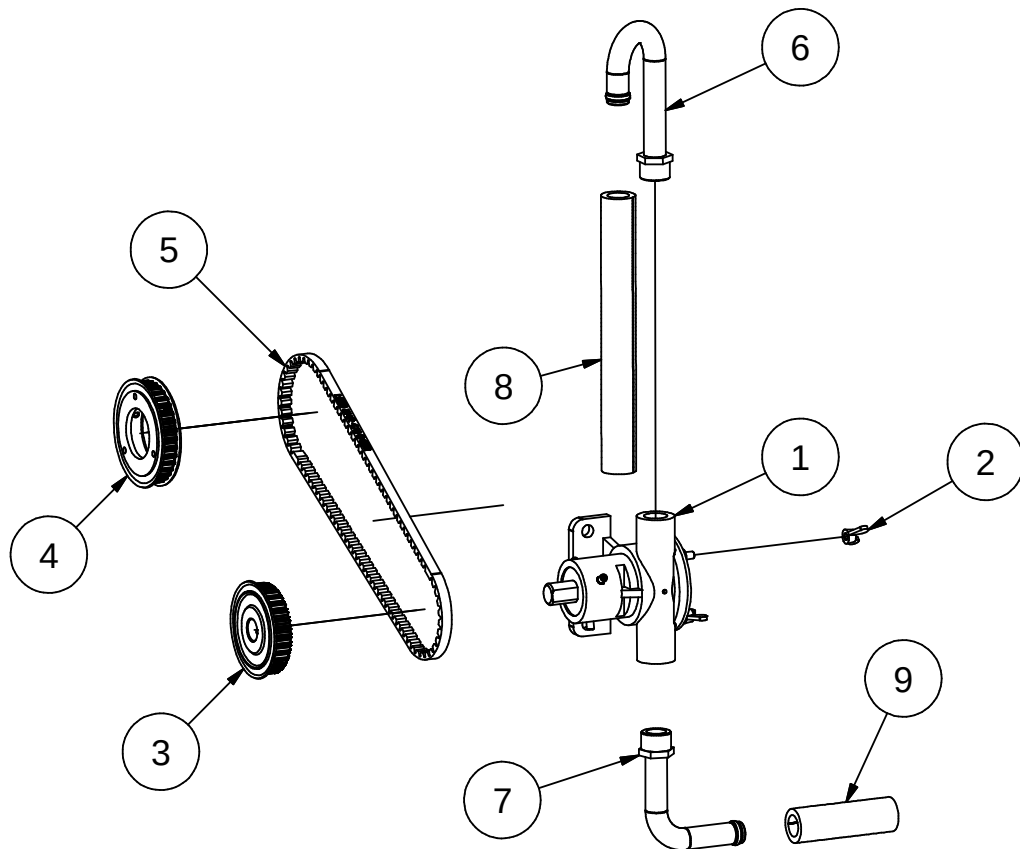




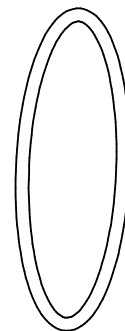
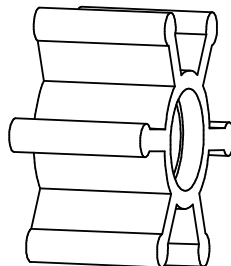
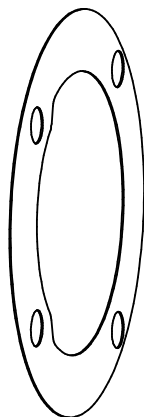
Raw water pump

Group: Raw water pump

Type: Panda 4200 FCB PMS 120V/60Hz



| Parts List |     |                                                                                            |                                                                                                 |               |               |
|------------|-----|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                                                | Bezeichnung                                                                                     | Specification | Artikel Nr.   |
| 1          | 1   | impeller pump F35B-8                                                                       | Impellerpumpe F35B-8                                                                            | FP2-000030    | 36.03.01.004H |
| 2          | 4   | wing nut M 4 DIN 315 A2                                                                    | Flügelmutter M 4 DIN 315 A2                                                                     | FP2-000034    | 32.01.23.001H |
| 3          | 1   | tooth pulley (Impellerpump side ) 32 teeth for Panda 4500 (SCB/FCB) PMS                    | Zahnriemenscheibe (Impellerpumpe-seite) 32 Zähne für Panda 4500 (SCB/FCB) PMS                   | FP2-000006    | 31.05.02.017H |
| 4          | 1   | tooth pulley (engineside) type 36-5M 36 teeth profil WZ 15123 for Panda 4500 (SCB/FCB) PMS | Zahnriemenscheibe (Motor-seite) Typ 36-5M 36 Zähne Profil WZ 15123 für Panda 4500 (SCB/FCB) PMS | FP2-000015    | 31.05.02.019H |
| 5          | 1   | tooth belt type 475-6-692-5MR for Panda 4                                                  | Zahnriemen Typ 475-6-692-5MR Panda 4                                                            | FP2-000018    | 36.02.02.004H |
| 6          | 1   | coolant pipe OD 12 20-180°65 with 3/8" thread fitting                                      | Kühlwasserrohr DA 12 20-180°65 mit 3/8" Schraubfitting                                          | FP2-000021    | 31.22.02.004H |
| 7          | 1   | coolant pipe OD 12 35-90°45 with 3/8" thread fitting                                       | Kühlwasserrohr DA 12 35-90°45 mit 3/8" Schraubfitting                                           | FP2-000026    | 31.22.02.005H |
| 8          | 1   | coolant water hose type DIN 73411 NW Ø 12mm                                                | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                                          | FP2-000036    | 33.04.05.006H |
| 9          | 1   | coolant water hose type DIN 73411 NW Ø 12mm                                                | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                                          | FP2-000037    | 33.04.05.006H |



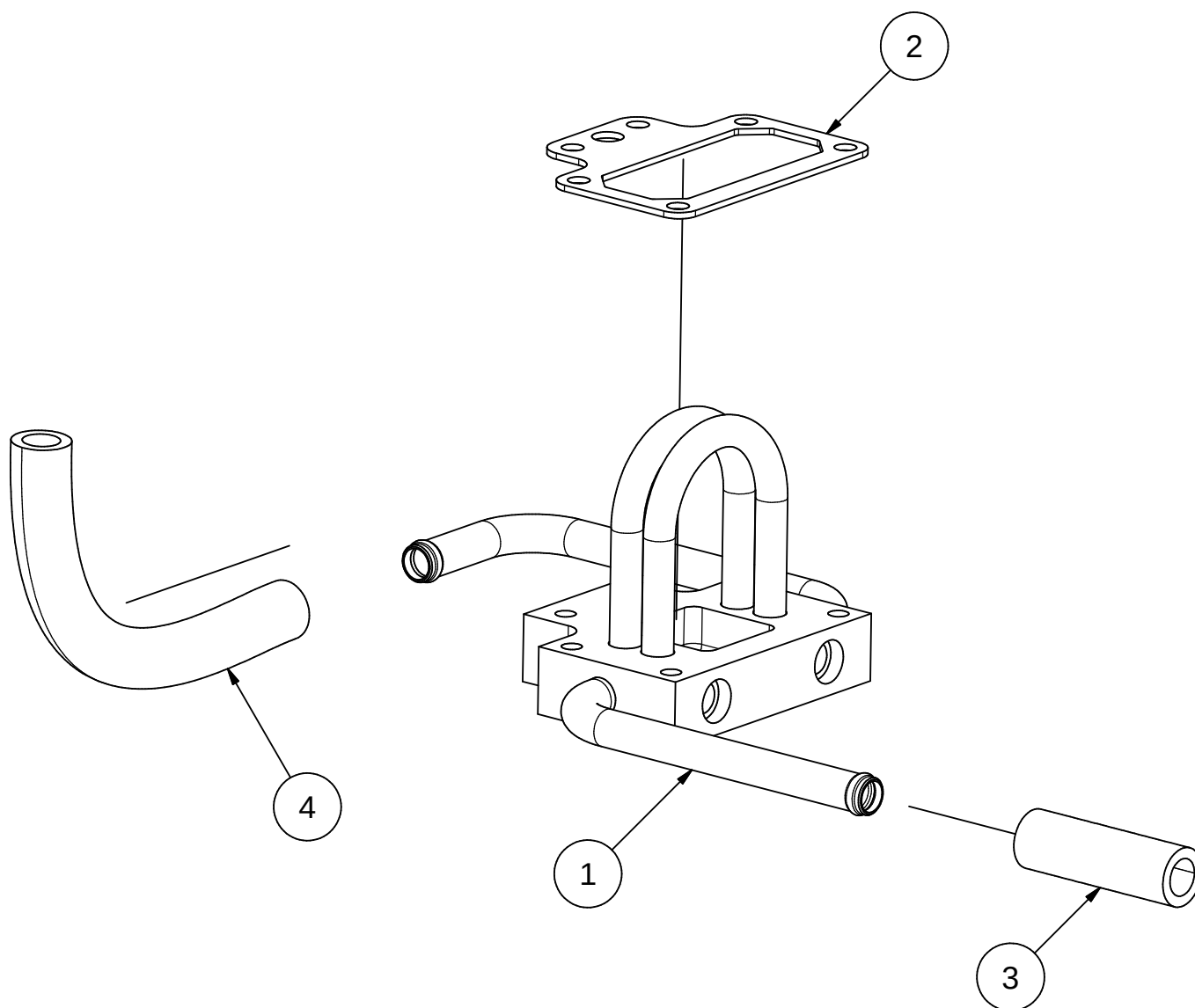
| Parts List |     |                        |                        |               |               |
|------------|-----|------------------------|------------------------|---------------|---------------|
| Pos        | Qty | Description            | Bezeichnung            | Specification | Artikel Nr.   |
| 1          | 1   | Service Kit for F35B-8 | Service Kit für F35B-8 | FP1-006292    | 21.03.02.009H |



Oil cooler

Group: Oil cooler

Type: Panda 4200 FCB PMS 120V/60Hz



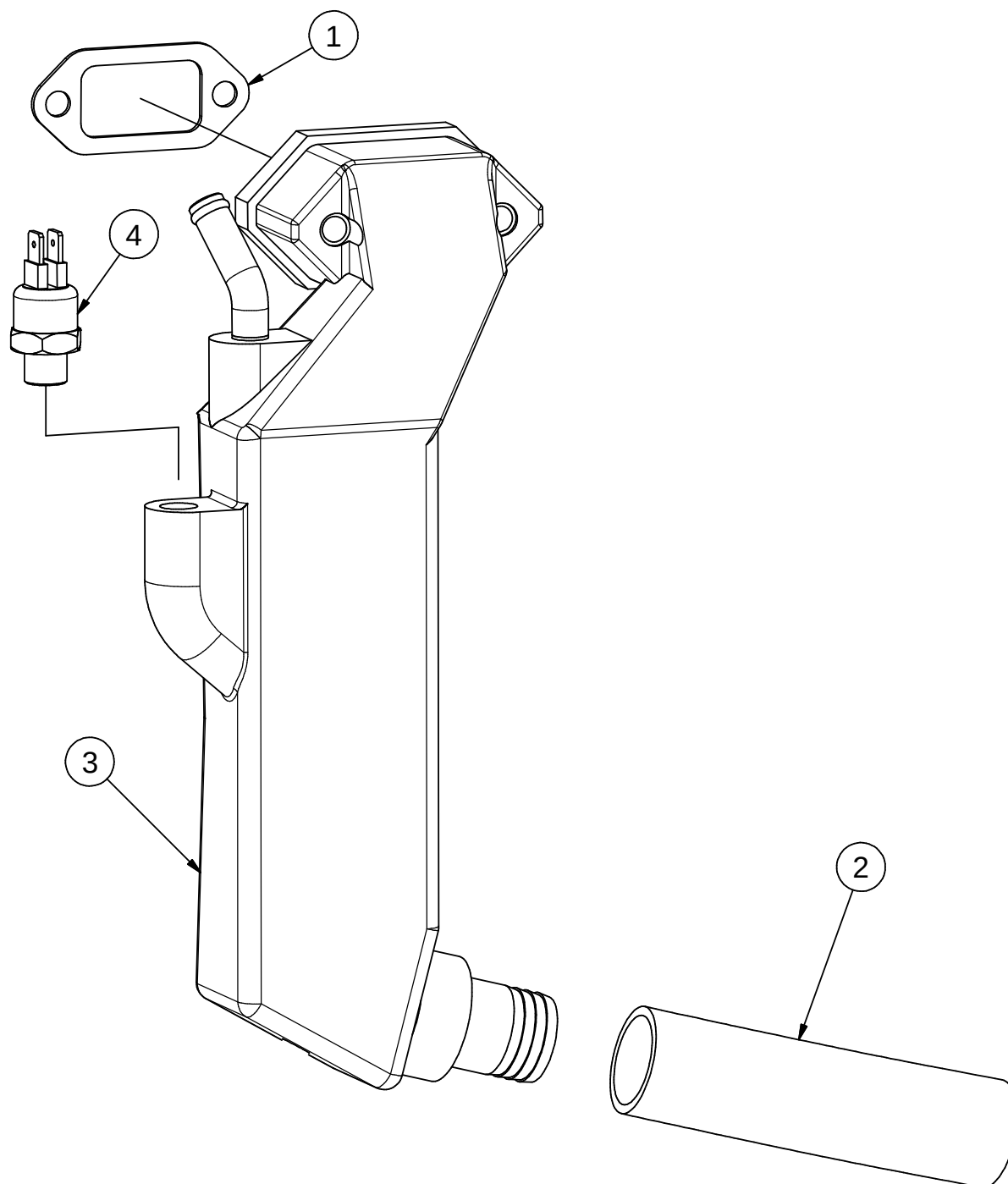
| Parts List |     |                                             |                                        |               |               |
|------------|-----|---------------------------------------------|----------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                 | Bezeichnung                            | Specification | Artikel Nr.   |
| 1          | 1   | Oil cooler complete for Panda 4 FC          | Ölkühler komplett Panda 4 FC           | FP2-000294    | 31.30.03.001H |
| 2          | 1   | Gasket oil cooler Panda 4                   | Dichtung für Ölkühler Panda 4          | FP2-000291    | 31.19.04.004H |
| 3          | 1   | coolant water hose type DIN 73411 NW Ø 12mm | Kühlwasserschlauch DIN 73411 NW Ø 12mm | FP2-000309    | 33.04.05.006H |
| 4          | 1   | coolant water hose type DIN 73411 NW Ø 12mm | Kühlwasserschlauch DIN 73411 NW Ø 12mm | FP2-000312    | 33.04.05.006H |



Water cooled exhaust manifold

Group: Water cooled exhaust manifold

Type: Panda 4200 FCB PMS 120V/60Hz



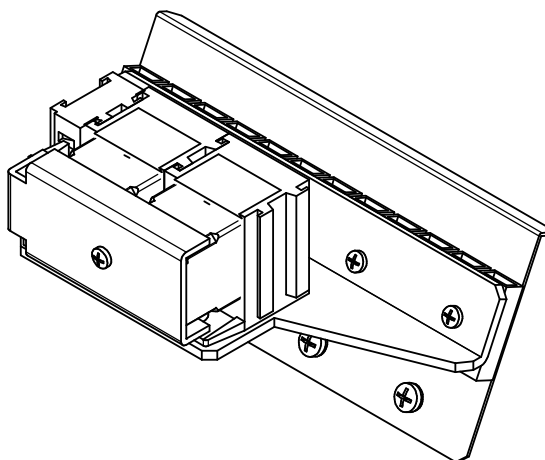
| Parts List |     |                                                                    |                                                                               |               |               |   |
|------------|-----|--------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------|---------------|---|
| Pos        | Qty | Description                                                        | Bezeichnung                                                                   | Specification | Artikel Nr.   | - |
| 1          | 1   | gasket for Farymann diesel engine type 18W430                      | Dichtung für Farymann Dieselmotor Typ 18W430                                  | FP2-000148    | 30.01.08.007H |   |
| 2          | 1   | exhaust hose type Fischer Panda black with wirehelix inside Ø 30mm | Abgasschlauch schwarz mit Drahtinnenspirale Ø 30mm                            | FP2-000002    | 33.04.08.005H |   |
| 3          | 1   | exhaust manifold for Panda 4500 (Panda 4) PMS                      | Abgaskrümmer für Panda 4500 (Panda 4) PMS                                     | FP2-000330    | 31.06.01.030H |   |
| 4          | 1   | Thermoswitch 83/78°C M14x1,5 SW22 NO                               | Thermoschalter 83/78°C Ms-Gehäuse M14x1,5 SW22 Schliesser Flachsteckanschluss | FP2-000339    | 34.12.01.009H |   |



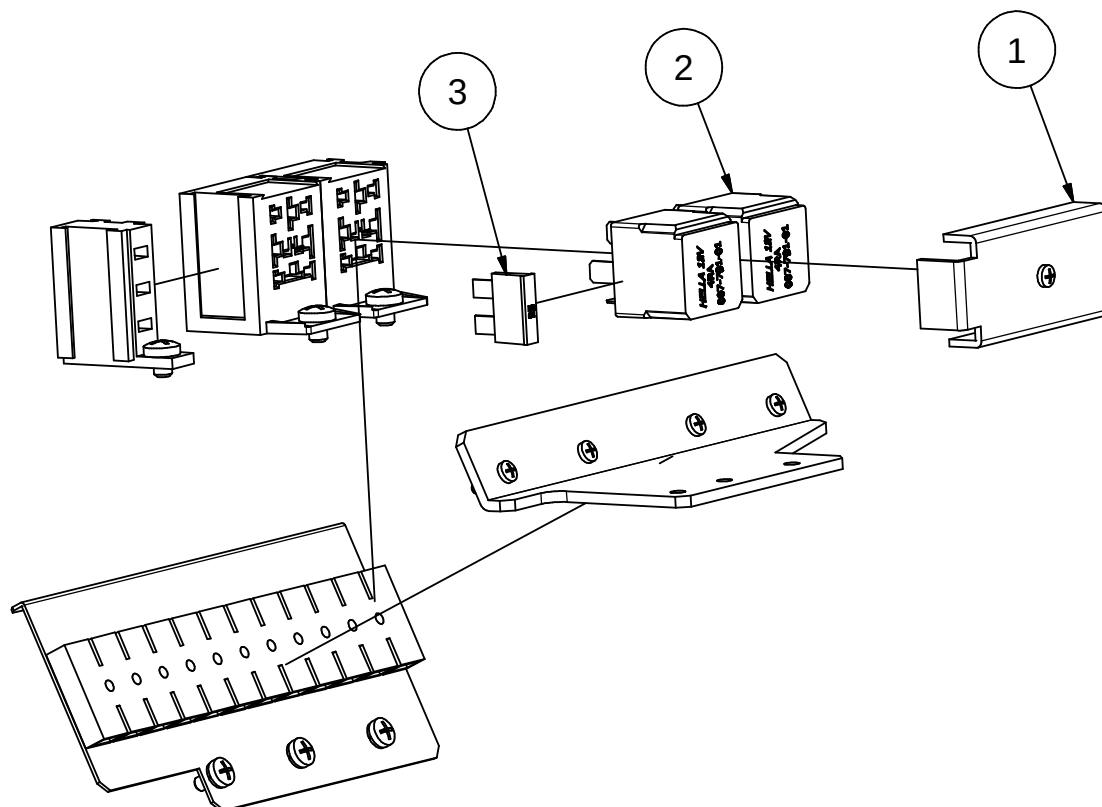
Cable harness

Group: Cable harness

Type: Panda 4200 FCB PMS 120V/60Hz



| Parts List |     |                                                                                |                                                                       |               |               |
|------------|-----|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                                    | Bezeichnung                                                           | Specification | Artikel Nr.   |
| 1          | 1   | wiring harness complete for Panda 4500 (Panda 04)<br>PMS FC with 12 connectors | Kabelbaum Panda 4500 (Panda 04) PMS FC mit 12<br>Anschlüssen komplett | FP2-000156    | 34.02.01.005H |



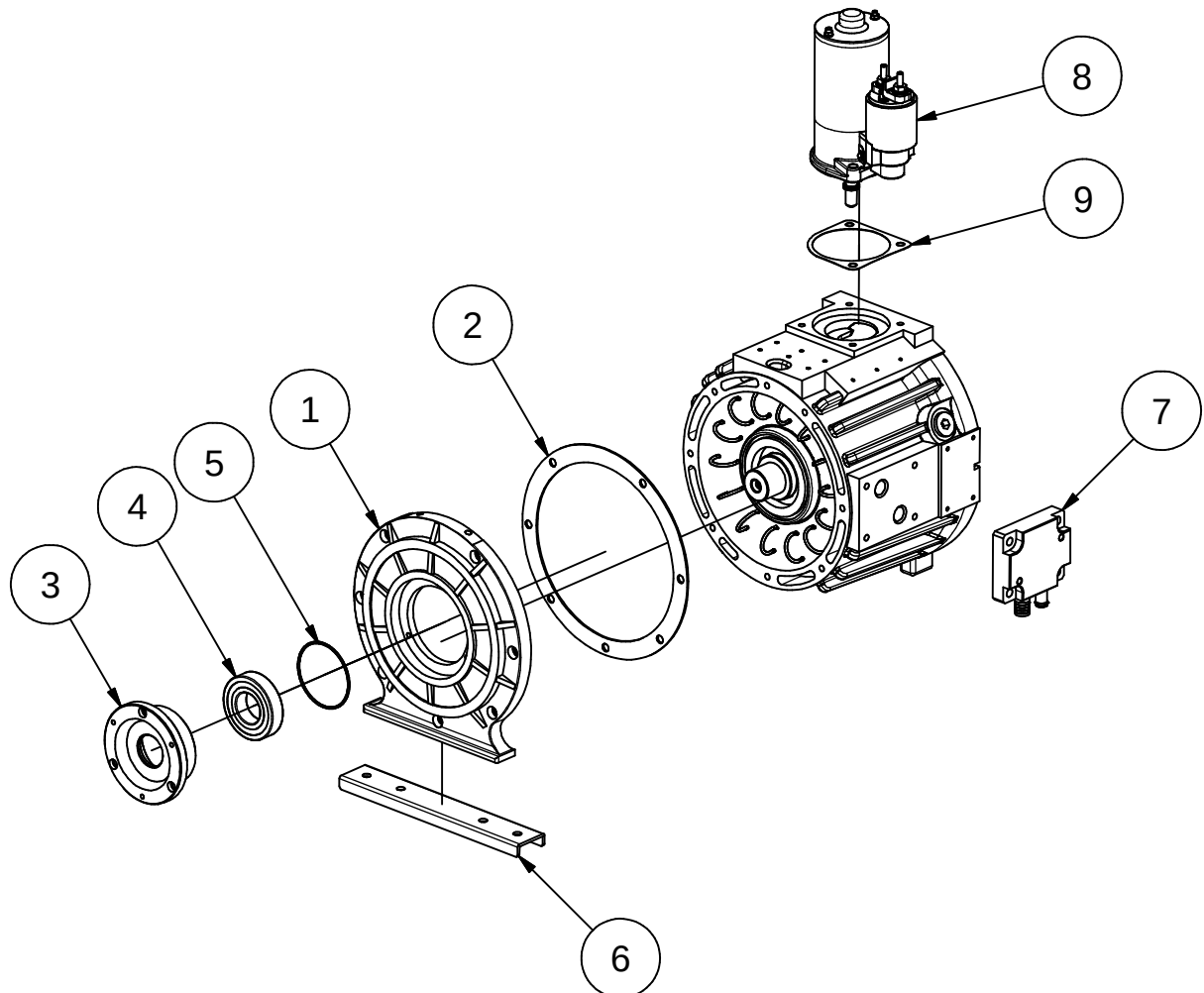
| Parts List |     |                                          |                                                                         |               |               |
|------------|-----|------------------------------------------|-------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                              | Bezeichnung                                                             | Specification | Artikel Nr.   |
| 1          | 1   | cover acrylic-glass U-profile 68x31x14mm | Abdeckung Plexiglas U-Form 68x31x14mm                                   | FP2-000157    | 31.41.03.002H |
| 2          | 2   | relay 12V 30A NO 1 pole                  | KFZ-Relais 12V 30A Schliesser 1-polig (mit<br>durchgebohrten Kontakten) | FP1-000414    | 34.08.02.007H |
| 3          | 1   | flat fuse vehicle white 25 A             | Flachsicherung KFZ 25A weiß                                             | FP1-000435    | 34.08.03.023H |



Alternator

Group: Alternator

Type: Panda 4200 FCB PMS 120V/60Hz



Parts List

| Pos | Qty | Description                                          | Bezeichnung                                          | Specification | Artikel Nr.   | - |
|-----|-----|------------------------------------------------------|------------------------------------------------------|---------------|---------------|---|
| 1   | 1   | end shield cover for Panda 4200 PMS FCB              | Stirndeckel für Panda 4200 PMS FCB                   | FP2-000231    | 31.11.02.008H |   |
| 2   | 1   | end shield cover gasket 241x200x2mm 7 holes 9mm      | Stirndeckeldichtung 241x200x2mm 7 Löcher 9mm         | FP2-000237    | 31.19.02.001H |   |
| 3   | 1   | Bearing carrier for Bearing 6207                     | Stator Lagersitz für Kugellager 6207                 | FP2-000229    | 31.11.03.006H |   |
| 4   | 1   | grooved ball bearing 6207 ZZ LLUA                    | Rillenkugellager NTN 6207 ZZ LLUA                    | FP1-001554    | 32.04.01.012H |   |
| 5   | 1   | O-Ring FPM80 071,0x2,0mm                             | O-Ring FPM80 071,0x2,0mm                             | FP1-000560    | 32.02.01.067H |   |
| 6   | 1   | Alternator bracket Panda 4                           | Alternatorfuß P4 (U-Profil)                          | FP2-000234    | 31.03.02.015H |   |
| 7   | 1   | cooling water block for Panda 4500 FCB (Panda 4) PMS | Wasseranschlußblock für Panda 4500 FCB (Panda 4) PMS | FP2-000248    | 31.08.02.001H |   |
| 8   | 1   | starter motor AZE 1508 0,9kW                         | Anlasser AZE 1508 12V 0,9kW                          | FP2-000266    | 36.04.01.001H |   |
| 9   | 1   | gasket for starter motor AZE 1508                    | Dichtung für Anlasser AZE 1508                       | FP2-000271    | 36.50.01.001H |   |

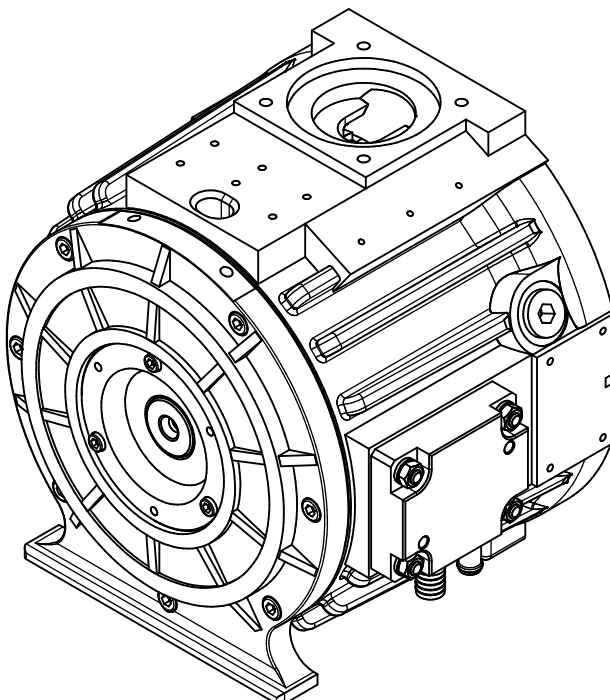


Generator housing complete P04 FCB

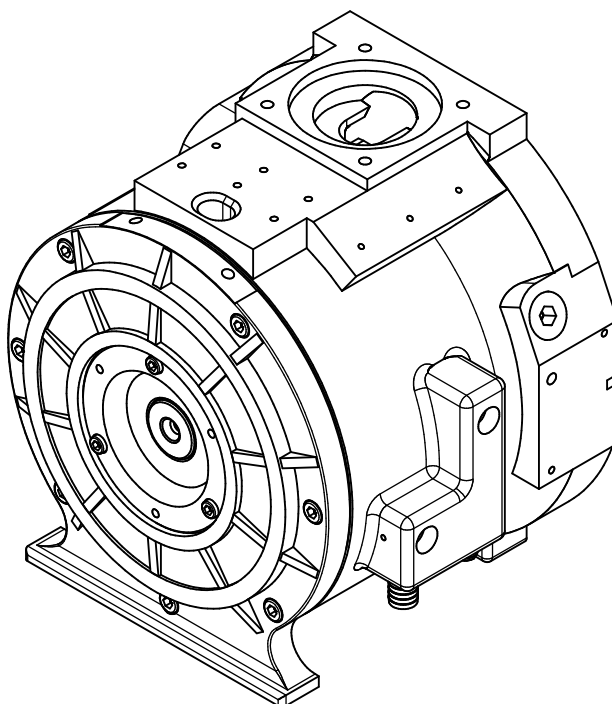
Group: Generator housing cpl. P04 FCB

Type: Panda 4200 FCB PMS 120V 60Hz

old type



new type



Parts List

| Pos | Qty | Description                             | Bezeichnung                             | Specification | Artikel Nr.   | - |
|-----|-----|-----------------------------------------|-----------------------------------------|---------------|---------------|---|
| 1   | 1   | alternator Panda 4200 FCB HP1 120V-60Hz | Alternator Panda 4200 FCB HP1 120V-60Hz | FP2-000238    | 31.10.01.014H |   |

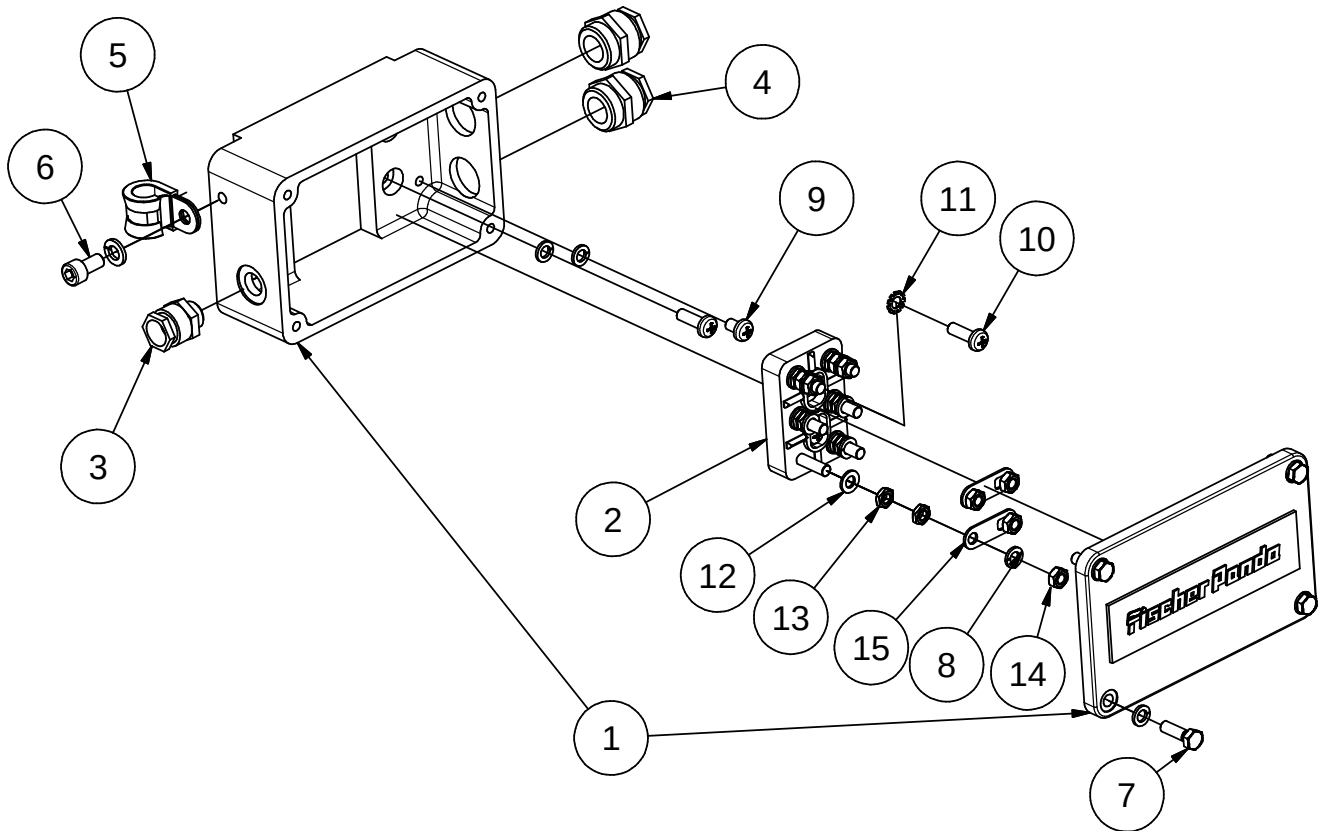




Electric box

Group: Electric box

Type: Panda 4200 FCB PMS 120V/60Hz

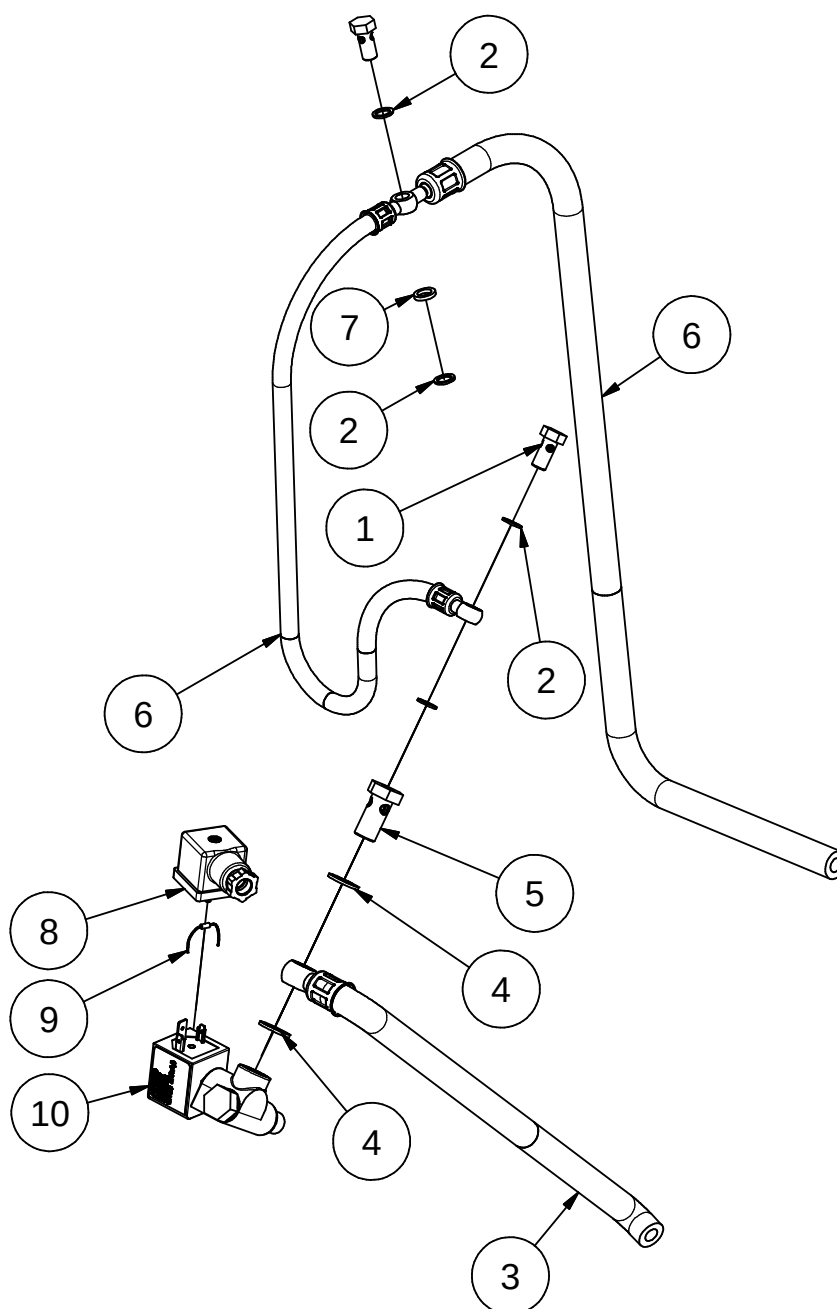


| Parts List |     |                                                                  |                                                                                             |               |               |
|------------|-----|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                      | Bezeichnung                                                                                 | Specification | Artikel Nr.   |
| 1          | 1   | terminal box P04 without additional parts                        | Klemmkasten P04 ohne Anbauteile                                                             | FP2-000323    | 31.41.02.015H |
| 2          | 1   | Junction board Type AK 6-pole 56x36mm, brass bolts M5x29mm       | Klemmbrett Typ AK 6-pol. 56x36mm, Messingbolzen M5x29mm                                     | FP2-000031    | 34.14.06.002H |
| 3          | 1   | screwed cable gland M12                                          | Kabelverschraubung M12x1,5 06-08mm Ms vernickelt o. Zugentlastung, Sechskantzwischenstutzen | FP2-000332    | 34.07.04.031H |
| 4          | 2   | screwed cable gland M20                                          | Kabelverschraubung M20x1,5 07-12mm Ms vernickelt o. Zugentlastung, Sechskantzwischenstutzen | FP1-001447    | 34.07.04.033H |
| 5          | 1   | pipe clamp RSGU 1.10/15                                          | Rohrschelle RSGU 1.10/15                                                                    | FP2-000035    | 32.03.08.005H |
| 6          | 1   | hexagon socket head cap screw M 6x12                             | Innensechskantschraube mit Zylinderkopf M 6x12 DIN 912 A2                                   | FP1-000502    | 32.01.02.022H |
| 7          | 4   | hexagon head screw M 5x16 DIN 933 A2                             | Sechskantschraube M 5x16 DIN 933 A2                                                         | FP1-001578    | 32.01.01.024H |
| 8          | 16  | spring washer Ø 5,4mm DIN 127 A2                                 | Federring Ø 5,4mm DIN 127 A2                                                                | FP1-000492    | 32.01.42.003H |
| 9          | 2   | recessed head raised flister head screw M 5x8 DIN 7985           | Linienkopfschraube mit Kreuzschlitz M 5x8 DIN 7985                                          | FP1-001778    | 32.01.04.038H |
| 10         | 6   | Pan head tapping screws with cross recessed 4,2x13mm DIN 7981 A2 | Blechschrabe mit Linienkopf und Kreuzschlitz 4,2x13mm DIN 7981 A2                           | FP1-000887    | 32.01.18.005H |
| 11         | 2   | serrated lock washer Ø 5,3mm DIN 6798 A2                         | Fächerscheibe Ø 5,3mm DIN 6798 A2                                                           | FP2-000041    | 32.01.44.003H |
| 12         | 6   | washer Ø 5,3mm DIN 125 brass                                     | Unterlegscheibe Ø 5,3mm DIN 125 Messing                                                     | FP1-001102    | 32.01.40.023H |
| 13         | 10  | hexagon nut M 5 DIN 439 brass                                    | Sechskantmutter M 5 DIN 439 Messing                                                         | FP1-001101    | 32.01.20.024H |
| 14         | 8   | hexagon nut M 5 DIN 934 brass                                    | Sechskantmutter M 5 DIN 934 Messing                                                         | FP1-001118    | 32.01.20.046H |
| 15         | 2   | connection bridge M05 for insulation plate                       | Klemmbrettverbindung M5 Messing                                                             | FP1-001119    | 34.14.06.005H |

**Fuel solenoid valve**

Group: Fuel solenoid valve

Type: Panda 4200 FCB PMS 120V/60Hz



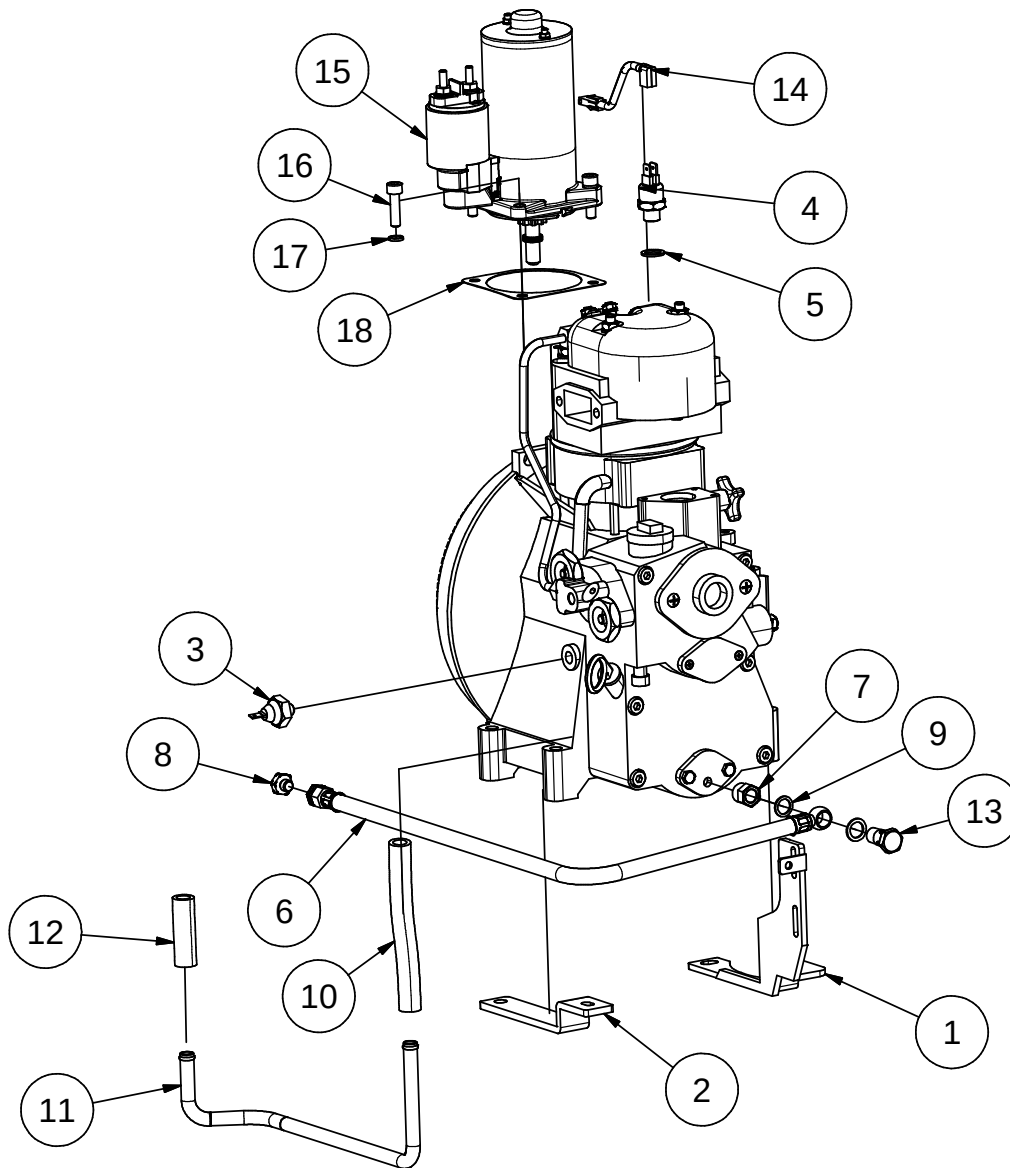
| Parts List |     |                                                     |                                                          |               |               |
|------------|-----|-----------------------------------------------------|----------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                         | Bezeichnung                                              | Specification | Artikel Nr.   |
| 1          | 2   | banjo bolt DIN7643 M8x1,0 NW2                       | Hohlschraube DIN7643 M8x1,0 NW2                          | FP2-000205    | 32.21.01.010H |
| 2          | 4   | sealing washer 08x12x1,0 DIN 7603 copper massive    | Dichtring 08x12x1,0 DIN 7603 Kupfer massiv               | FP2-000210    | 32.02.02.010H |
| 3          | 1   | Hose Fittingset ID 8 L 495 with Ringnipple 90°      | Schlauchgarnitur DN08 L495 mit Ringnippel R06            | FP2-000218    | 31.23.20.013P |
| 4          | 2   | sealing washer 12x18x1,5 DIN 7603 copper massive    | Dichtring 12x18x1,5 DIN 7603 Kupfer massiv               | FP1-000556    | 32.02.02.020H |
| 5          | 1   | banjo bolt M12x1,5 NW6 with tapped through hole M8  | Hohlschraube M12x1,5 mit Innengewinde M8                 | FP2-000206    | 31.03.60.005H |
| 6          | 1   | Fuel hose Panda 4200 / 4500                         | Kraftstoffleitung P 4200 / 4500                          | FP2-000225    | 31.11.01.001H |
| 7          | 1   | sealing washer 08x12x2,0 DIN 7603 copper massive    | Dichtring 08x12x2,0 DIN 7603 Kupfer massiv               | FP2-000212    | 32.02.02.011H |
| 8          | 1   | plug connector GDM 2009, 2 pole+PE                  | Winkelkupplung GDM 2009, 2pol.+PE                        | FP2-000276    | 34.05.10.001H |
| 9          | 1   | diode type 1N 4007                                  | Diode Typ 1N 4007                                        | FP1-000729    | 34.10.01.008H |
| 10         | 1   | fuel solenoid valve GSR 12V with banjo bolt M12x1,5 | Kraftstoff Magnetventil GSR 12V mit Hohlschraube M12x1,5 | FP1-005625    | 34.08.06.005H |



Engine with assembly

Group: Engine with assembly

Type: Panda 4200 FCB PMS 120V/60Hz



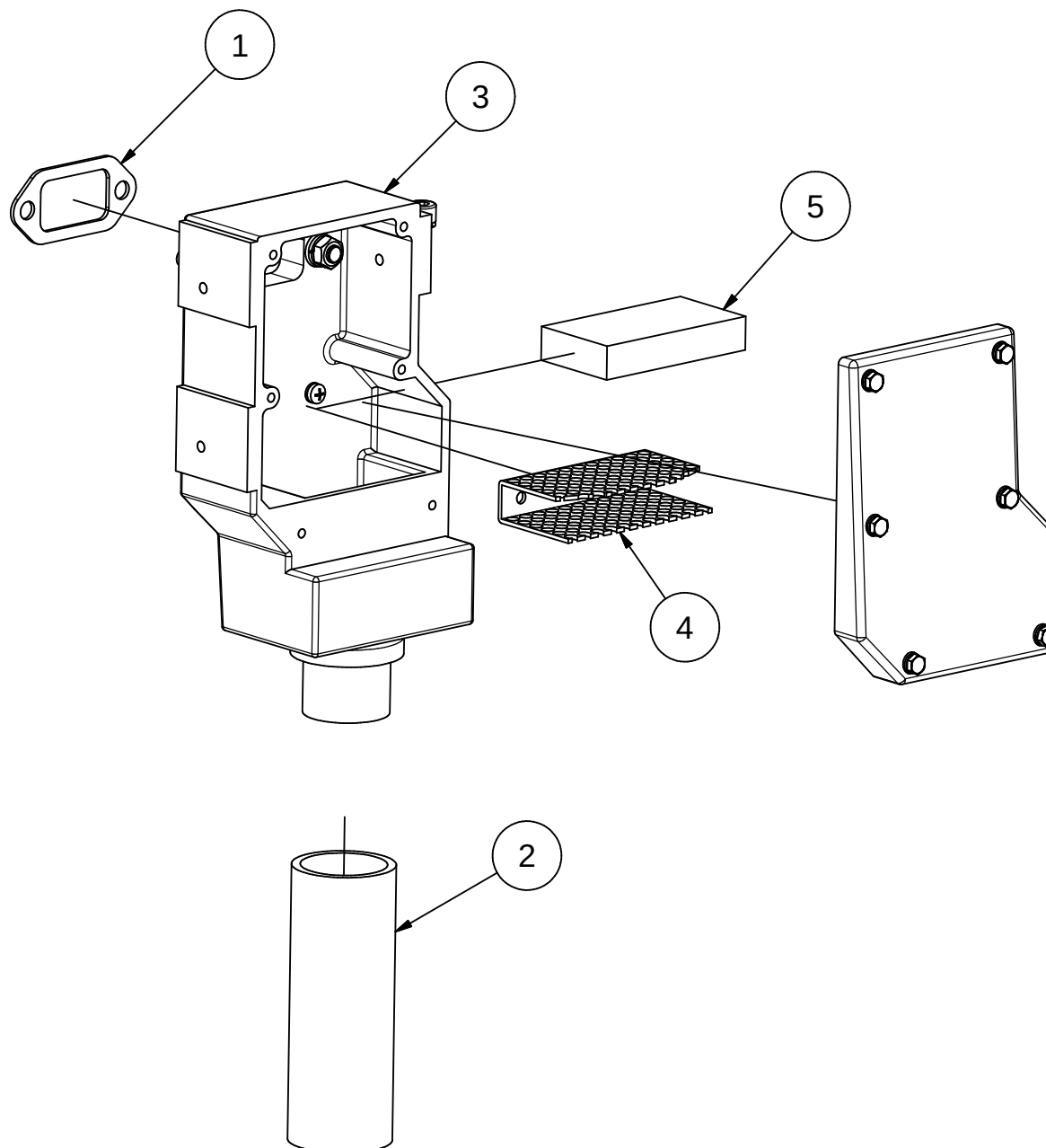
| Parts List |     |                                                           |                                                                     |               |               |   |
|------------|-----|-----------------------------------------------------------|---------------------------------------------------------------------|---------------|---------------|---|
| Pos        | Qty | Description                                               | Bezeichnung                                                         | Specification | Artikel Nr.   | - |
| 1          | 1   | enginebracket right P04                                   | Motorfuß rechts P04                                                 | FP2-000198    | 31.03.01.011H |   |
| 2          | 1   | enginebracket left side for P04                           | Motorfuß links P04                                                  | FP2-000202    | 31.03.01.012H |   |
| 3          | 1   | oil pressure switch Farymann 18W430                       | Öldruckschalter Farymann 18W430                                     | FP2-000214    | 30.01.02.003H |   |
| 4          | 1   | Thermoswitch 98/83°C M14x1,5 SW22 NO                      | Thermoschalter THS 98/83°C Ms-Gehäuse M14x1,5 SW22                  | FP2-000215    | 34.12.01.011H |   |
| 5          | 2   | sealing washer 14x20x1,5 DIN 7603 copper massive          | Dichtring 14x20x1,5 DIN 7603 Kupfer massiv                          | FP2-000224    | 32.02.02.023H |   |
| 6          | 1   | oil drain hose 8mm length 600mm complete with fittings    | Ölablassschlauch 8mm Länge 600mm komplett mit Anschluss und Stopfen | FP2-000183    | 31.23.20.007H |   |
| 7          | 1   | Reduzierstück 3/8" external thread 1/4"                   | Reduzierstück 3/8" AG 1/4" P4000s                                   | FP2-000192    | 31.21.01.010H |   |
| 8          | 1   | closing-screw M10x1, 8mm, SW 17, Al for oil-drain-fitting | Verschlossschraube M10x1, 8mm, SW 17, Al für Ölablassstutzen        | FP1-000664    | 31.05.10.003H |   |
| 9          | 1   | sealing washer 13x18x1,5 DIN 7603 copper massive          | Dichtring 13x18x1,5 DIN 7603 Kupfer massiv                          | FP2-000223    | 32.02.02.021H |   |
| 10         | 1   | coolant water hose type DIN 73411 NW Ø 12mm               | Kühlwasserschlauch DIN 73411 NW Ø 12mm                              | FP2-000186    | 33.04.05.006H |   |
| 11         | 1   | coolant pipe OD 12 90-90°200-45°30-90°40                  | Kühlwasserrohr DA 12 90-90°200-45°30-90°40                          | FP2-000211    | 31.22.02.011H |   |
| 12         | 1   | coolant water hose type DIN 73411 NW Ø 12mm               | Kühlwasserschlauch DIN 73411 NW Ø 12mm                              | FP2-000187    | 33.04.05.006H |   |
| 13         | 1   | banjo bolt DIN7643 R1/4" NW8                              | Hohlschraube DIN7643 R1/4" NW8                                      | FP2-000217    | 32.21.01.017H |   |
| 14         | 1   | connectingcable temperatureswitch P4                      | Anschlusskabel Temperaturschalter P4                                | FP1-009953    | 31.41.20.047P |   |
| 15         | 1   | starter motor AZE 1508 0,9kW                              | Anlasser AZE 1508 12V 0,9kW                                         | FP2-000266    | 36.04.01.001H |   |
| 16         | 3   | hexagon socket head cap screw M 8x30                      | Innensechskantschraube mit Zylinderkopf M 8x30 DIN 912 A2           | FP1-000516    | 32.01.02.040H |   |
| 17         | 3   | spring washer Ø 8,1mm DIN 7980 A2                         | Federring Ø 8,1mm DIN 7980 A2                                       | FP1-000523    | 32.01.42.010H |   |
| 18         | 1   | gasket for starter motor AZE 1508                         | Dichtung für Anlasser AZE 1508                                      | FP2-000271    | 36.50.01.001H |   |



Air suction housing

Group: Air suction

Type: Panda 4200 FCB PMS 120V/60Hz



Parts List

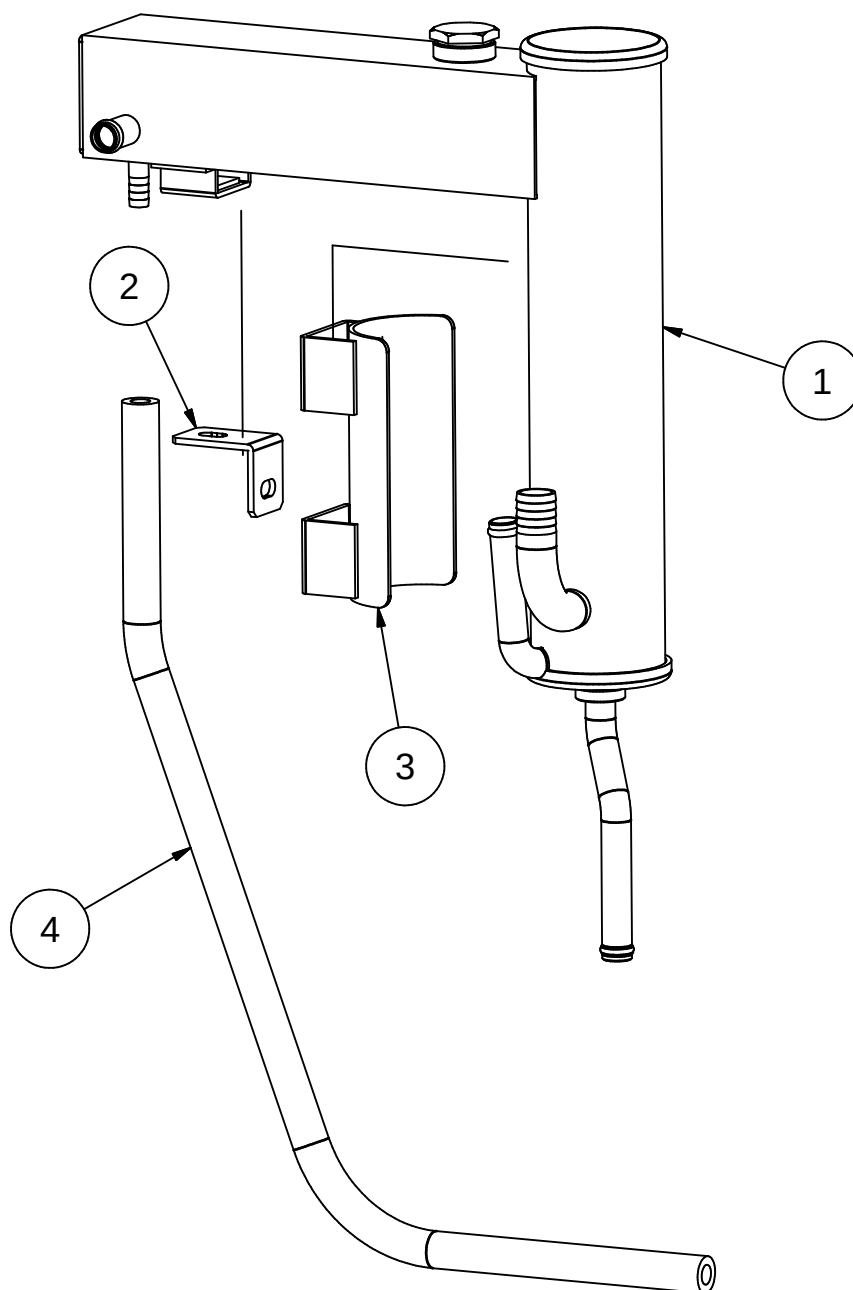
| Pos | Qty | Description                                                     | Bezeichnung                                                       | Specification | Artikel Nr.   | - |
|-----|-----|-----------------------------------------------------------------|-------------------------------------------------------------------|---------------|---------------|---|
| 1   | 1   | gasket for Farymann diesel engine type 18W430                   | Dichtung für Farymann Dieselmotor Typ 18W430                      | FP2-000148    | 30.01.08.007H |   |
| 2   | 1   | air-intake-hose Ø40mm, 130mm straight with noise absorber, EPDM | Ansaugschlauch Ø40mm 130mm gerade mit Ansauggeräuschkämpfer, EPDM | FP2-000147    | 31.07.03.005H |   |
| 3   | 1   | air suction housing complete Faryman-motor                      | Ansauggehäuse komplett Faryman-Motor                              | FP2-000150    | 31.07.02.005H |   |
| 4   | 1   | air filter bracket air suction housing Faryman-motor            | Luftfilterhalter Ansauggehäuse Faryman-Motor                      | FP2-000144    | 31.07.02.004H |   |
| 5   | 1   | airfilter insert 100x60x15mm type 1                             | Luftfiltereinsatz 100x60x15mm grob Typ 1                          | FP2-000146    | 31.07.01.007H |   |



Heat exchanger

Group: Heat exchanger

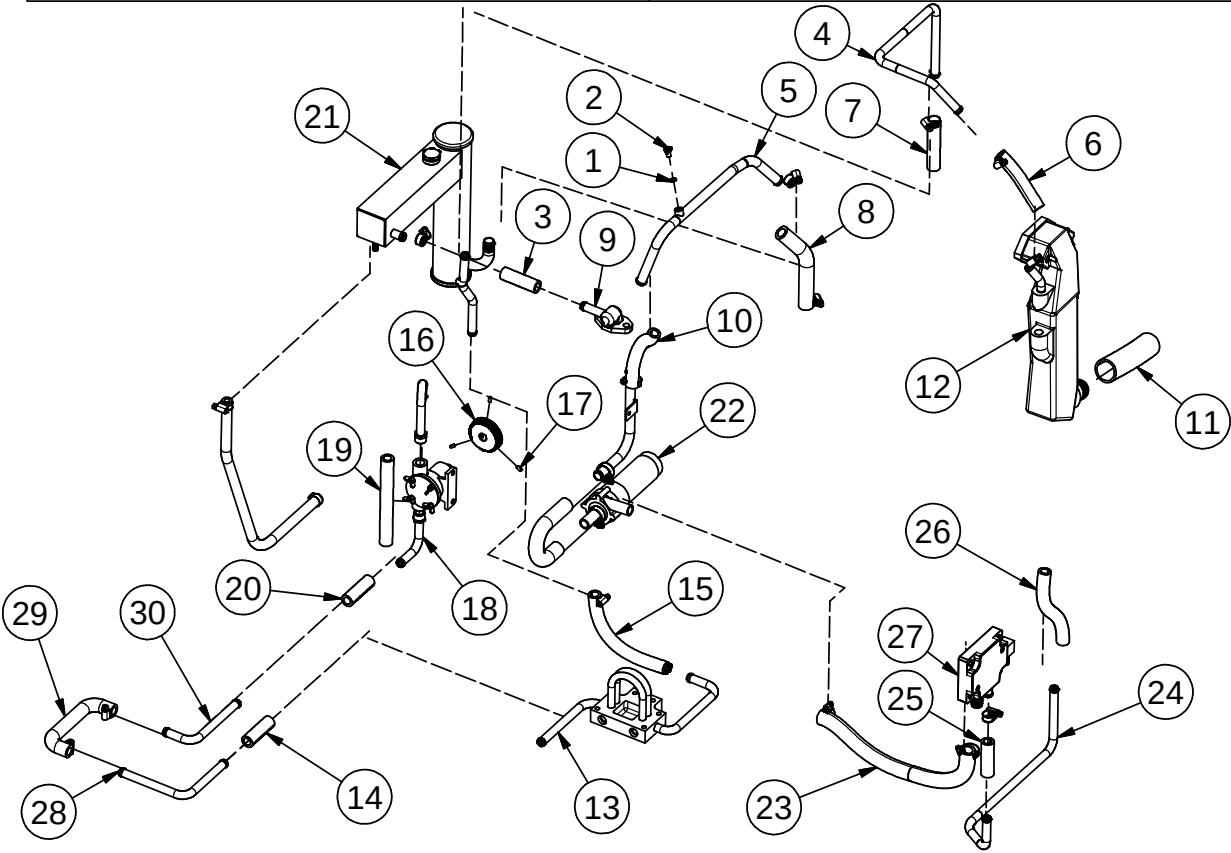
Type: Panda 4200 FCB PMS 120V/60Hz



| Parts List |     |                                                   |                                                 |               |               |   |
|------------|-----|---------------------------------------------------|-------------------------------------------------|---------------|---------------|---|
| Pos        | Qty | Description                                       | Bezeichnung                                     | Specification | Artikel Nr.   | - |
| 1          | 1   | heat exchanger for Marine P04 with expansion tank | Wärmetauscher Marine P04 mit Ausgleichsbehälter | FP2-000280    | 31.09.01.015H |   |
| 2          | 1   | Bracket heat-exchanger                            | Halter Wärmetauscher                            | FP2-000313    | 31.03.21.009H |   |
| 3          | 1   | Bracket heat-exchanger                            | Halter Wärmetauscher                            | FP1-001469    | 31.03.21.008H |   |
| 4          | 1   | coolant water hose type DIN 73411 NW Ø 8mm        | Kühlwasserschlauch DIN 73411 NW Ø 8mm           | FP2-000277    | 33.04.05.004H |   |

Cooling water flow scheme

Group:Cooling water flow scheme      Type:Panda 4200 FCB PMS 120V/60Hz

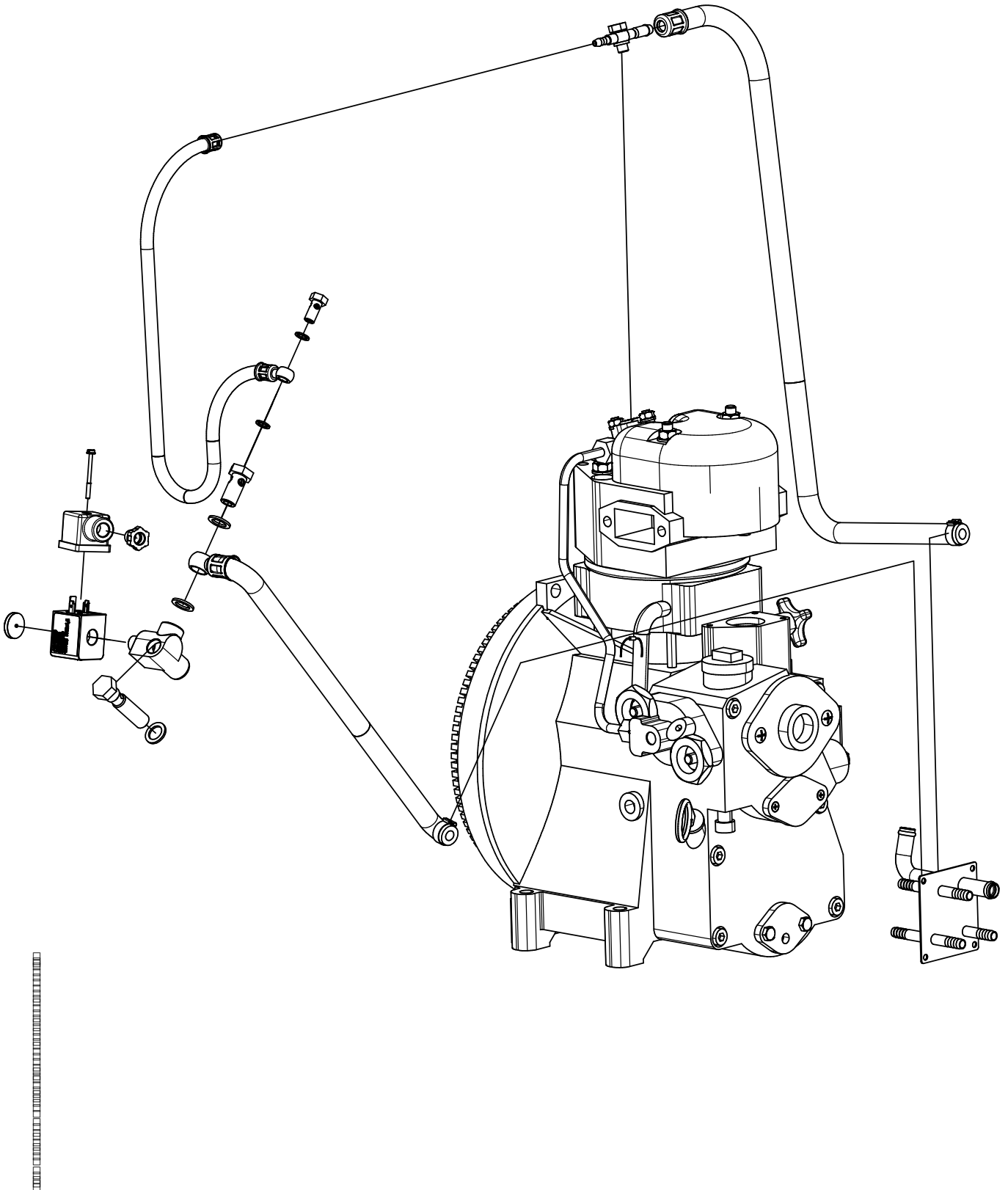


| Parts List |     |                                                                         |                                                                              |               |               |
|------------|-----|-------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                             | Bezeichnung                                                                  | Specification | Artikel Nr.   |
| 1          | 1   | sealing washer 06x10x1,0 DIN 7603 copper massive                        | Dichtring 06x10x1,0 DIN 7603 Kupfer massiv                                   | FP1-000553    | 32.02.02.009H |
| 2          | 1   | Bleeder screw M6x10, painted blue                                       | Entlüftungsschraube M6x10 blau lackiert                                      | FP1-000639    | 31.03.60.004H |
| 3          | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000037    | 33.04.05.006H |
| 4          | 1   | coolant pipe OD 12 115-90°130-90°77-45°52                               | Kühlwasserrohr DA 12 115-90°130-90°77-45°52                                  | FP1-001462    | 31.22.02.007H |
| 5          | 1   | coolant pipe OD 14 75-90°145-12°30-58°60 with sleeve M6                 | Kühlwasserrohr DA 14 75-90°145-12°30-58°60 mit Muffe M6                      | FP2-000065    | 31.22.02.006H |
| 6          | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000082    | 33.04.05.006H |
| 7          | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000083    | 33.04.05.006H |
| 8          | 1   | formed hose Ø14mm 80mm-45°45mm                                          | Formschlauch Ø14mm 80mm-45°45mm                                              | FP2-000084    | 33.04.09.013H |
| 9          | 1   | Upper part thermostat housing P04 FC                                    | Oberteil für Thermostatgehäuse P04 FC                                        | FP2-003960    | 31.09.04.009H |
| 10         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000081    | 33.04.05.006H |
| 11         | 1   | exhaust hose type Fischer Panda black with wirehelix inside Ø 30mm      | Abgasschlauch schwarz mit Drahtinnenspirale Ø 30mm                           | FP2-000002    | 33.04.08.005H |
| 12         | 1   | exhaust manifold for Panda 4500 (Panda 4) PMS                           | Abgaskrümmter für Panda 4500 (Panda 4) PMS                                   | FP2-000330    | 31.06.01.030H |
| 13         | 1   | Oil cooler complete for Panda 4 FC                                      | Ölkühler komplett Panda 4 FC                                                 | FP2-000294    | 31.30.03.001H |
| 14         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000309    | 33.04.05.006H |
| 15         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000312    | 33.04.05.006H |
| 16         | 1   | tooth pulley (Impellerpump side ) 32 teeth for Panda 4500 (SCB/FCB) PMS | Zahnriemenscheibe (Impellerpumpeseite) 32 Zähne für Panda 4500 (SCB/FCB) PMS | FP2-000006    | 31.05.02.017H |
| 17         | 6   | hexagon socket screw with flat point M 4x8 DIN 913 450HV                | Gewindestifte mit Innensechskant und Kegelkuppe M 4x8 DIN 913 450HV          | FP1-001542    | 32.01.11.015H |
| 18         | 1   | coolant pipe OD 12 35-90°45 with 3/8" threadfittin g                    | Kühlwasserrohr DA 12 35-90°45 mit 3/8" Schraubfitt ing                       | FP2-000026    | 31.22.02.005H |
| 19         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000036    | 33.04.05.006H |
| 20         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000037    | 33.04.05.006H |
| 21         | 1   | heat exchanger for Marine P04 with expansion tank                       | Wärmetauscher Marine P04 mit Ausgleichsbehälter                              | FP2-000280    | 31.09.01.015H |
| 22         | 1   | electrical circulation pump type CM30P7-1 12V / 16mm connectors         | Umwälzpumpe CM30P7-1 12V / 16mm Anschluß                                     | FP2-000181    | 40.07.02.003H |
| 23         | 1   | coolant water hose type DIN 73411 NW Ø 16mm                             | Kühlwasserschlauch DIN 73411 NW Ø 16mm                                       | FP2-000149    | 33.04.05.008H |
| 24         | 1   | coolant pipe OD 12 90-90°200-45°30-90°40                                | Kühlwasserrohr DA 12 90-90°200-45°30-90°40                                   | FP2-000211    | 31.22.02.011H |
| 25         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000187    | 33.04.05.006H |
| 26         | 1   | coolant water hose type DIN 73411 NW Ø 12mm                             | Kühlwasserschlauch DIN 73411 NW Ø 12mm                                       | FP2-000186    | 33.04.05.006H |
| 27         | 1   | cooling water block for Panda 4500 FCB (Panda 4) PMS                    | Wasseranschlußblock für Panda 4500 FCB (Panda 4) PMS                         | FP2-000248    | 31.08.02.001H |
| 28         | 1   | coolant pipe OD 12 95-90°85                                             | Kühlwasserrohr DA 12 95-90°85                                                | FP2-002343    | 31.22.02.008H |
| 29         | 1   | formed hose Ø12mm 60mm-90°85mm-90°60mm                                  | Formschlauch Ø12mm 60mm-90°85mm-90°60mm                                      | FP2-003178    | 33.04.09.023H |
| 30         | 1   | coolant pipe OD 12 100-90°30                                            | Kühlwasserrohr DA 12 100-90°30                                               | FP2-002345    | 31.22.02.009H |

### Fuel flow scheme

Group: Fuel flow scheme

Type: Panda 4200 FCB PMS 120V/60Hz

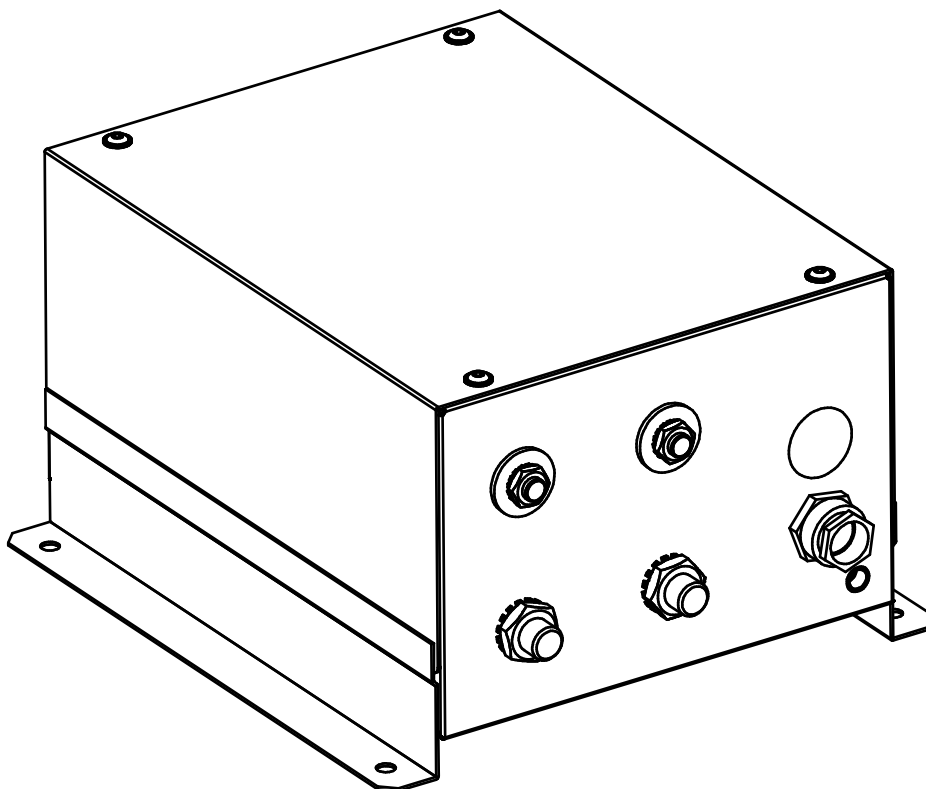




AC-Control box complete

Group: AC-Box

Type: Panda 4200 FCB PMS 120V/60Hz



Parts List

| Pos | Qty | Description                                              | Bezeichnung                                                | Specification | Artikel Nr.   | - |
|-----|-----|----------------------------------------------------------|------------------------------------------------------------|---------------|---------------|---|
| 1   | 1   | AC-Box complete Panda 4 FC PMS 120V/60Hz with capacitors | AC-Box komplett Panda 4 FC PMS 120V/60Hz mit Kondensatoren | FP2-001309    | 21.01.04.004H |   |

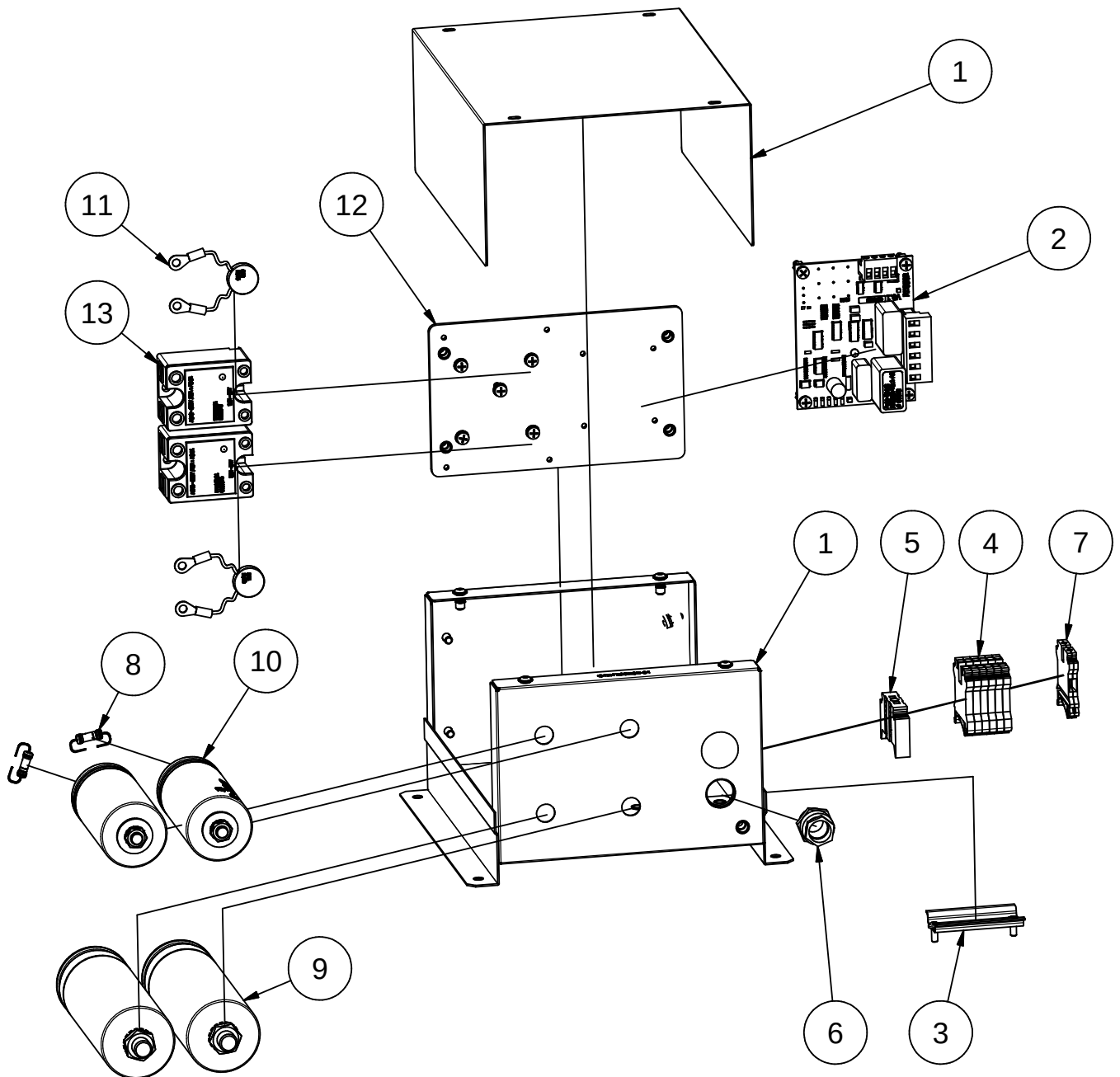




AC-Control box

Group: AC-Box

Type: Panda 4200 FCB PMS 120V/60Hz



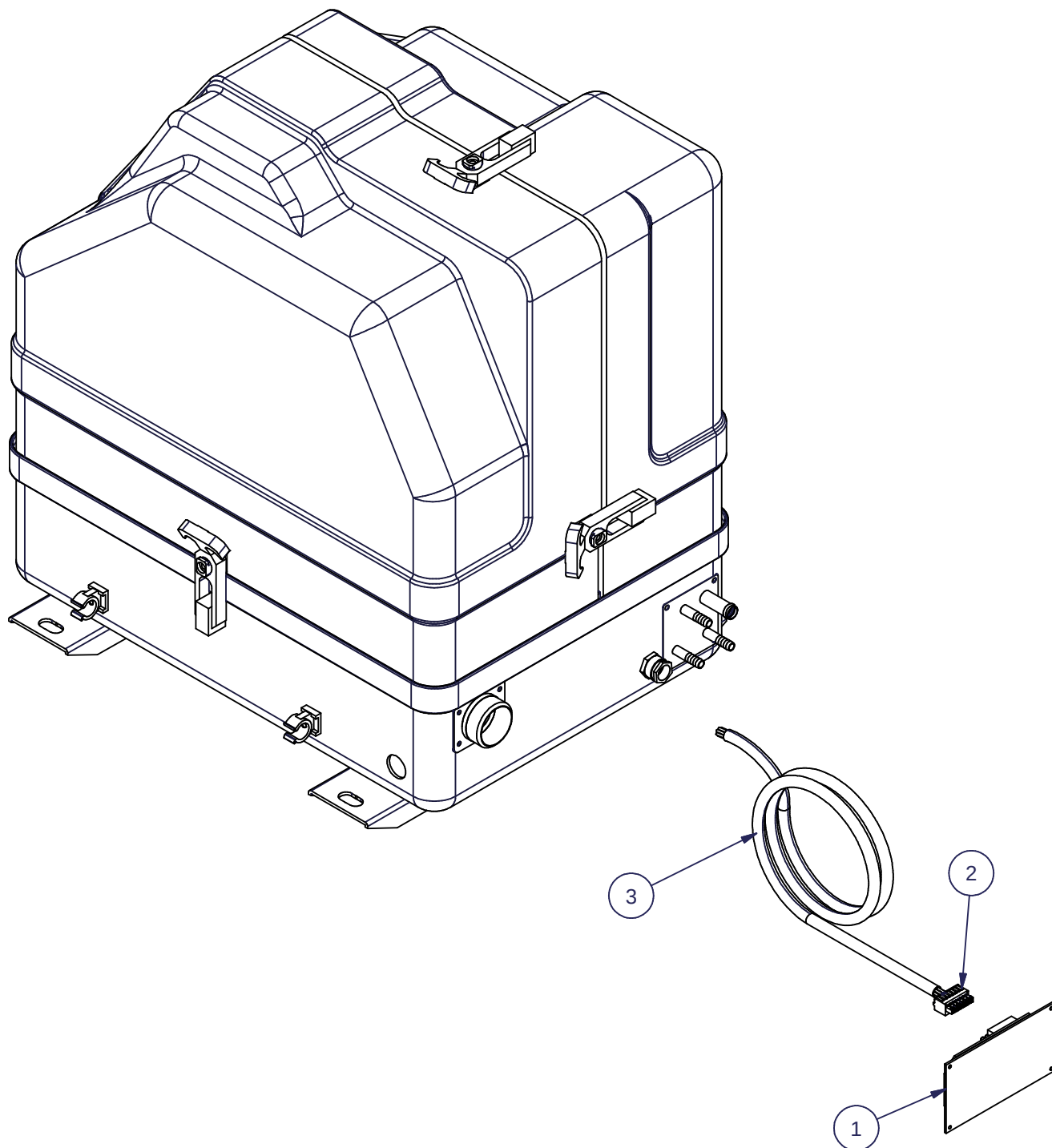
| Parts List |     |                                                                                |                                                                                            |               |               |
|------------|-----|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|---------------|
| Pos        | Qty | Description                                                                    | Bezeichnung                                                                                | Specification | Artikel Nr.   |
| 1          | 1   | AC-Box Housing P4 (without additional Parts)                                   | AC-Box Gehäuse P4 (Blechteil ohne Anbauteile)                                              | FP1-006790    | 31.40.01.004H |
| 2          | 1   | Booster board RE0502 for 120V/ 1230V                                           | Boosterelektronik Anlaufstromverstärkung 120/230VAC                                        | FP2-001287    | 21.02.01.024H |
| 3          | 1   | Top hat rail perforated 35x7,5mm zinc plated                                   | Hutschiene gelocht 35x7,5mm vz                                                             | FP2-001038    | 34.06.02.002H |
| 4          | 6   | Universal terminal block with screw connection 0.2-4mm <sup>2</sup> gray       | Universalklemme mit Schraubanschluss 0,2-4 qmm grau                                        | FP2-000679    | 34.06.01.062H |
| 5          | 1   | End bracket E/NS 35 N                                                          | Endhalter E/NS 35 N                                                                        | FP2-000678    | 34.05.08.028H |
| 6          | 1   | screwed cable gland M20                                                        | Kabelverschraubung M20x1,5 10-12mm Ms vernickelt o. Zugenlastung, Sechskantzwischenstützen | FP1-001116    | 34.07.04.035H |
| 7          | 1   | Ground terminal block with screw connection 0.2-4 mm <sup>2</sup> green-yellow | Schutzleiterklemme mit Schraubanschluss 0,2-4 qmm grün-gelb                                | FP2-000707    | 34.06.01.071H |
| 8          | 2   | resistor 100 kOhm 2,0 W                                                        | Widerstand 100 kOhm 2,0 W                                                                  | FP2-000544    | 34.09.01.008H |
| 9          | 2   | capacitor 60µF MKP 50x148mm                                                    | Kondensator 60µF MKP 50x148mm                                                              | FP2-000523    | 34.09.02.041H |
| 10         | 2   | capacitor 40µF MKP 45x119mm                                                    | Kondensator 40µF MKP 45x119mm                                                              | FP2-000546    | 34.09.02.036H |
| 11         | 2   | Varistor type SIOV complete                                                    | Varistor Typ SIOV Kplt.                                                                    | FP2-000658    | 31.41.30.001H |
| 12         | 1   | Relay bracket (AC-Box P4)                                                      | Relaisblech (AC-Box P4)                                                                    | FP2-001289    | 31.03.20.040H |
| 13         | 2   | Semi-conductor relay 48-600V AC 25A                                            | Halbleiter-Relais 48-600V AC 25A                                                           | FP2-000956    | 34.08.02.087H |



Remote control panel P4

Group: Remote Control Panel P4

Type:P4200 FCB PMS 120V 60Hz



Parts List

| Pos | Qty | Description                                                             | Bezeichnung                                                          | Specification | Artikel Nr.   | - |
|-----|-----|-------------------------------------------------------------------------|----------------------------------------------------------------------|---------------|---------------|---|
| 1   | 1   | Remote Control Panel P4 Control                                         | Fernbedienpanel P4 Control                                           | FP1-006609    | 21.02.02.032H |   |
| 2   | 1   | Mini Combicon connector 7pin FK-MCP 1,5/7-ST-3,81                       | Mini Combicon Stecker 7polig FK-MCP 1,5/7-ST-3,81                    | FP1-009944    | 34.05.08.036H |   |
| 3   | 1   | Cable for remote control panel 7x1mm², length= 7 mtr.complete assembled | Kabel für Fernbedienpanel 7x1mm², Länge 7 mtr.,fertig konfektioniert | FP1-009946    | 31.41.20.046P |   |