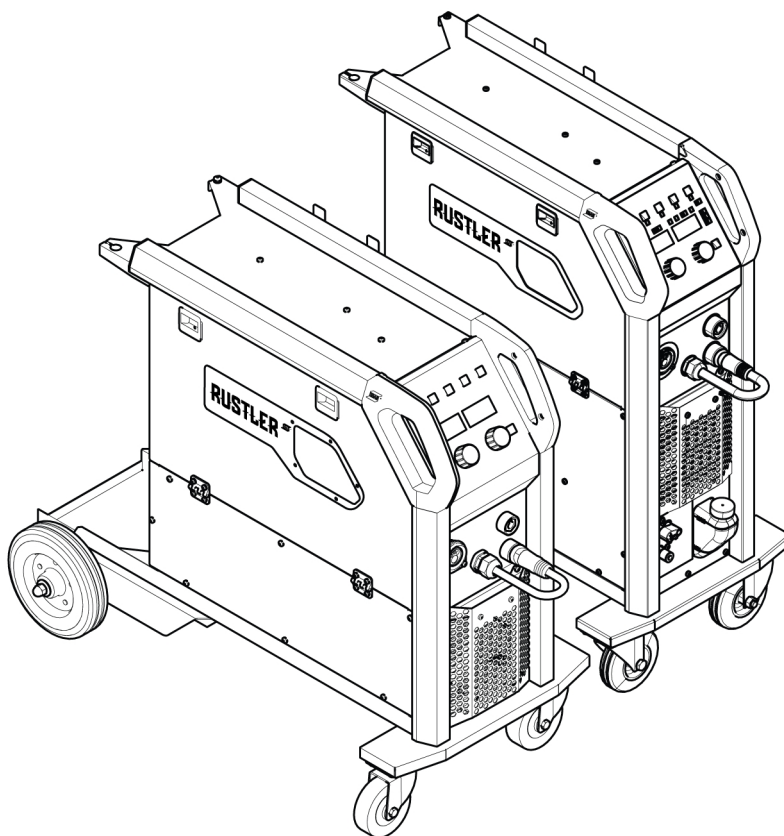


# ***Rustler***

## ***EM 280C PRO, EM 350C PRO, EM 350C PRO SYNERGIC, EM 350C PRO MV SYNERGIC, EM 350Cw PRO SYNERGIC***



## **Spare parts list**

| <b>Ordering no.</b> | <b>Denomination</b>                | <b>Notes</b>                     |
|---------------------|------------------------------------|----------------------------------|
| 0448 280 880        | Rustler EM 280C PRO                | With Exeor Torch 315, Remote 4 m |
| 0448 350 881        | Rustler EM 350C PRO                | With Exeor Torch 315, Remote 4 m |
| 0448 350 882        | Rustler EM 350C PRO Synergic       | With Exeor Torch 315, Remote 4 m |
| 0448 350 883        | Rustler EM 350C PRO<br>MV Synergic | With Exeor Torch 315, Remote 4 m |
| 0448 350 884        | Rustler EM 350Cw PRO Synergic      | With Exeor Torch 420w, Remote 4m |
| 0448 280 990        | Rustler EM 280C PRO                |                                  |
| 0448 350 991        | Rustler EM 350C PRO                |                                  |
| 0448 350 992        | Rustler EM 350C PRO Synergic       |                                  |
| 0448 350 993        | Rustler EM 350C<br>PRO MV Synergic |                                  |
| 0448 350 994        | Rustler EM 350Cw PRO Synergic      | OP420YYxx-xxxx                   |
| 0463 930 *          | Rustler EM PRO                     | Instruction manual               |
| 0463 932 001        | Rustler EM PRO                     | Service manual                   |

Spare parts may be ordered through your nearest ESAB dealer, see [esab.com](http://esab.com). When ordering, please state product type, serial number, denominations and ordering numbers according to the spare parts list. This facilitates dispatch and ensures correct delivery.

Maintenance and repair work should be performed by an experienced person, and electrical work only by a trained electrician. Use only recommended spare parts.

For accessories to the product, see the instruction manual.

The three last digits in the document number of the manual show the version of the manual. Therefore they are replaced with \* here. Make sure to use a manual with a serial number or software version that corresponds with the product, see the front page of the manual.

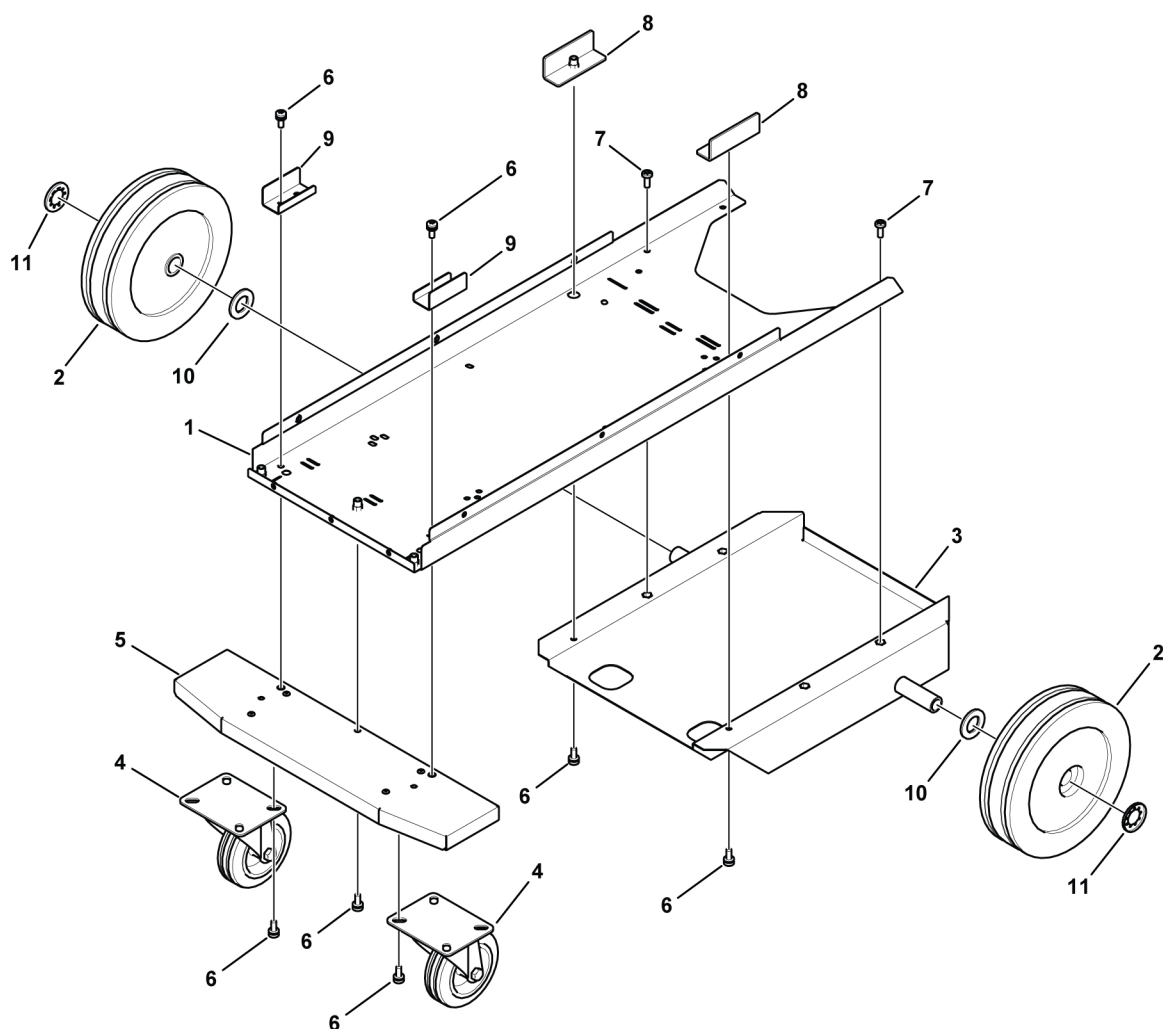
|          |                                                                                                      |          |
|----------|------------------------------------------------------------------------------------------------------|----------|
| <b>1</b> | <b>SPARE PARTS .....</b>                                                                             | <b>4</b> |
| 1.1      | Chassis module .....                                                                                 | 4        |
| 1.2      | Chassis module Rustler EM 350Cw PRO Synergic .....                                                   | 6        |
| 1.3      | Housing module .....                                                                                 | 8        |
| 1.4      | Housing module Rustler EM 350Cw PRO Synergic .....                                                   | 10       |
| 1.5      | Supporting module .....                                                                              | 12       |
| 1.6      | Front panel .....                                                                                    | 14       |
| 1.7      | Rear panel .....                                                                                     | 16       |
| 1.8      | IGBT module Rustler EM 280C PRO .....                                                                | 18       |
| 1.9      | IGBT module Rustler EM 350C PRO, 350C PRO Synergic .....                                             | 20       |
| 1.10     | IGBT module Rustler EM 350C PRO MV Synergic .....                                                    | 22       |
| 1.11     | Rectifier module .....                                                                               | 24       |
| 1.12     | Mounting plate module, Rustler EM 280C PRO, 350C PRO, 350C PRO Synergic,<br>350Cw PRO Synergic ..... | 26       |
| 1.13     | Mounting plate module, Rustler 350C PRO MV Synergic .....                                            | 29       |
| 1.14     | Water module for Rustler EM 350Cw PRO Synergic .....                                                 | 32       |
| 1.15     | Label .....                                                                                          | 34       |

# 1 SPARE PARTS

## 1.1 Chassis module

**C** = Component designation in the circuit diagram

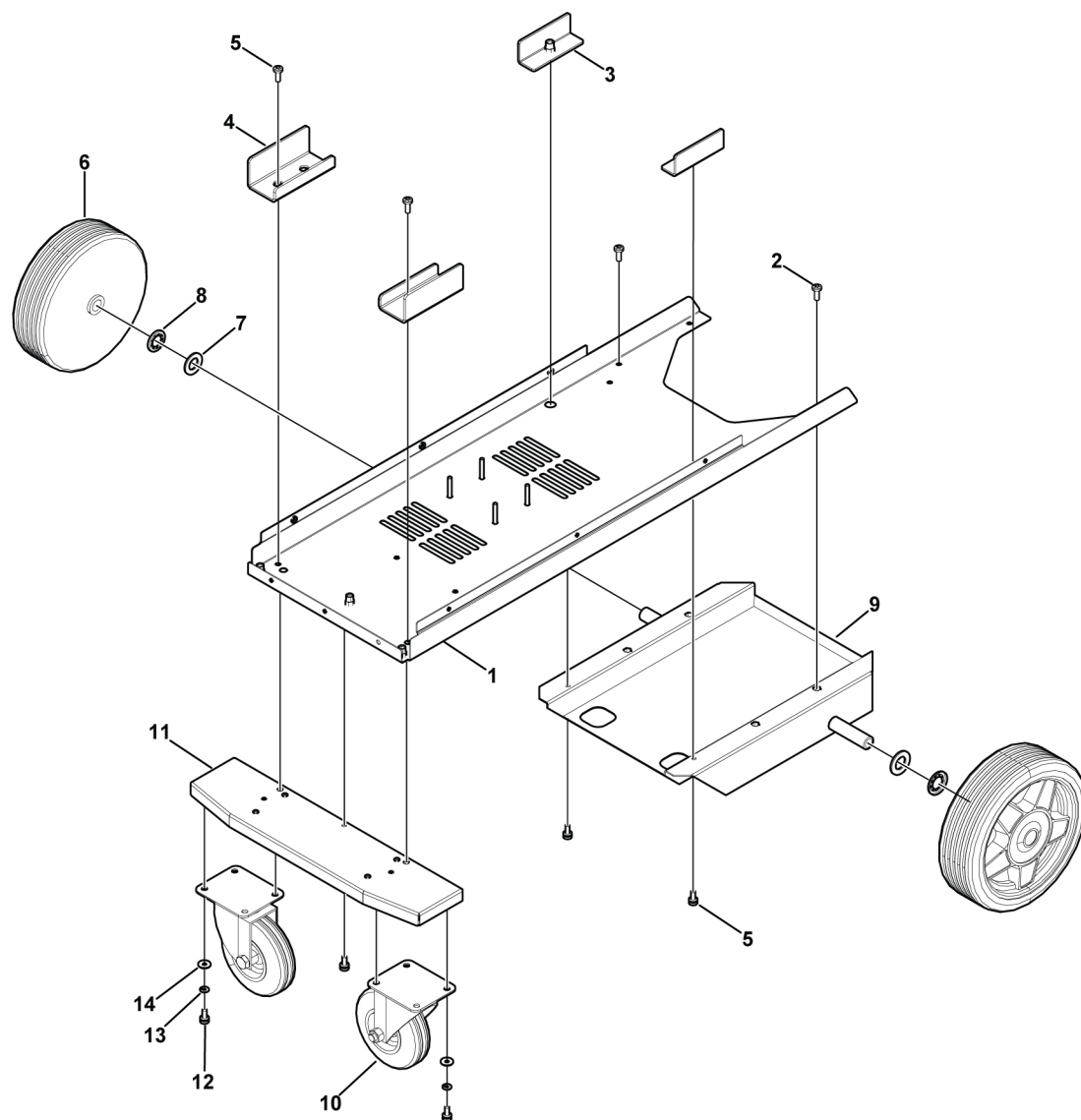
| Item | Qty | Ordering no. | Denomination         | Notes                      | C |
|------|-----|--------------|----------------------|----------------------------|---|
| 1    | 1   |              | Base metal case assy |                            |   |
| 2    | 2   | 0349 309 845 | Wheel                | SR 200, also order pos. 11 |   |
| 3    | 1   |              | Gas cylinder shelf   |                            |   |
| 4    | 2   | 0455 467 001 | Castor wheel         | D100 H125                  |   |
| 5    | 1   |              | Front wheels bracket |                            |   |
| 6    | 15  |              | Screw                | MRT combi, M6×16           |   |
| 7    | 4   |              | Screw                | MRT, M6×16 black           |   |
| 8    | 2   |              | Reinforcement assy   |                            |   |
| 9    | 2   |              | Reinforcement RHS    |                            |   |
| 10   | 2   |              | Plain washer         | 20-200 HV-A2K              |   |
| 11   | 2   | 0192 859 026 | Locking washer       | Type P                     |   |



## 1.2 Chassis module Rustler EM 350Cw PRO Synergic

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination           | Notes                   | C |
|------|-----|--------------|------------------------|-------------------------|---|
| 1    | 1   |              | Bottom metal case assy |                         |   |
| 2    | 4   |              | Screw                  | MRT M6 x 16 black       |   |
| 3    | 2   | 0448 359 012 | Reinforcement assy     |                         |   |
| 4    | 2   | 0448 359 003 | Reinforcement          | RHS/LHS                 |   |
| 5    | 7   |              | Screw                  | MRT COMBI M6X16         |   |
| 6    | 2   | 0469 872 001 | Wheel OrigMig405, D250 |                         |   |
| 7    | 2   |              | Plain washer           | 20-200 HV-A2K           |   |
| 8    | 2   | 0192 859 026 | Locking washer         | TYP P                   |   |
| 9    | 1   |              | Gas cylinder shelf     |                         |   |
| 10   | 2   | 0349 304 853 | Castor wheel           | 125 x 40                |   |
| 11   | 1   |              | Front wheels bracket   |                         |   |
| 12   | 8   |              | Screw                  | M6S M8 x 16             |   |
| 13   | 8   |              | Plain washer           | 8-200 HV-A2K            |   |
| 14   | 8   |              | Spring washer          | Z8,2 A2K PN- 77/M-82008 |   |

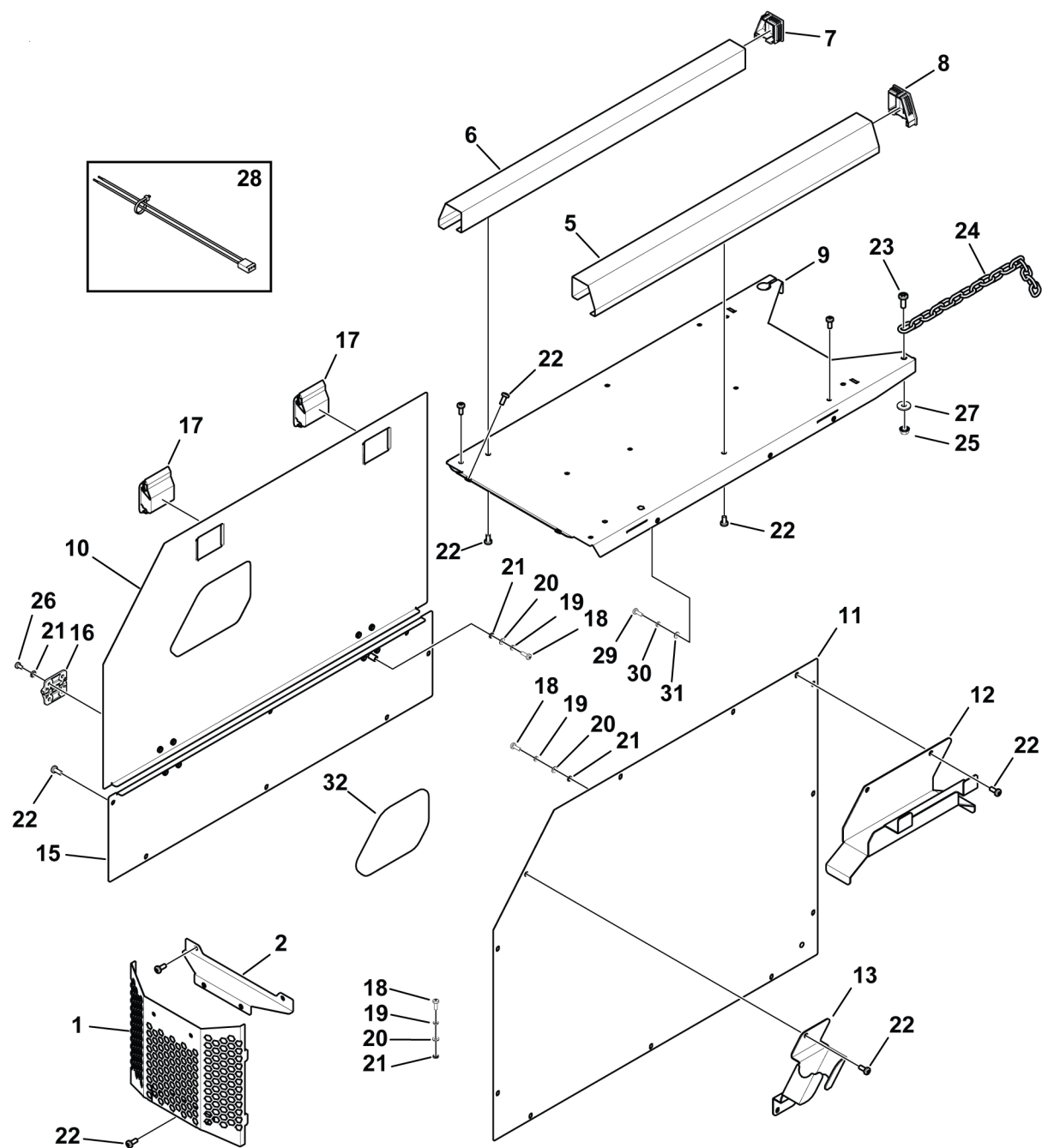


## 1.3 Housing module

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                     | Notes                         | C |
|------|-----|--------------|----------------------------------|-------------------------------|---|
| 1    | 1   | 0448 206 001 | Front metal shield               |                               |   |
| 2    | 1   | 0448 352 780 | Front water proof plate complete |                               |   |
| 5    | 1   | 0448 381 001 | Top metal trim strip 1           |                               |   |
| 6    | 1   | 0448 382 001 | Top metal trim strip 2           |                               |   |
| 7    | 1   |              | Cap for strip                    | Left, see item 301            |   |
| 8    | 1   |              | Cap for strip                    | Right, see item 301           |   |
| 9    | 1   | 0448 380 780 | Top metal case                   |                               |   |
| 10   | 1   |              | Metal door                       | Left, see item 302            |   |
| 11   | 1   | 0448 209 001 | Side panel                       | Right                         |   |
| 12   | 1   | 0448 154 001 | Cable holder                     |                               |   |
| 13   | 1   | 0448 155 001 | Torch holder                     |                               |   |
| 15   | 1   |              | Lower metal cover                | Left, see item 302            |   |
| 16   | 2   | 0448 433 780 | Hinge                            | See item 302                  |   |
| 17   | 2   | 0448 406 001 | Door hatch                       | See item 302                  |   |
| 18   | 5   | 0194 120 291 | Screw                            | MRT M4×12                     |   |
| 19   | 5   | 0349 481 049 | Spring washer                    |                               |   |
| 20   | 5   |              | Plain washer                     | 4-200 HV-A2K, see item 302    |   |
| 21   | 13  |              | Washer lock                      | AZ 4.3×8 ST, see item 302     |   |
| 22   | 37  |              | Screw                            | MRT M5×12 black, see item 302 |   |
| 23   | 1   | 0194 291 368 | Screw                            | MRT M6×16 black, see item 302 |   |
| 24   | 1   |              | Chain                            | L=700                         |   |
| 25   | 1   |              | Hexagon nut with flange          |                               |   |
| 26   | 8   |              | Screw                            | MRT M4×8 black, see item 302  |   |
| 27   | 1   | 0349 303 186 | Washer                           |                               |   |
| 28   | 1   |              | Ground cable harnesses           |                               |   |
| 29   | 4   | 0194 120 331 | Screw                            | MRT M5×20                     |   |
| 30   | 4   | 0349 481 050 | Spring washer                    |                               |   |
| 31   | 4   |              | Plain washer                     | 5-200 HV-A2K                  |   |
| 32   | 1   | 0448 405 011 | Window glass                     |                               |   |

| Item | Ordering no. | Denomination   | Notes                                                 |
|------|--------------|----------------|-------------------------------------------------------|
| 301  | 0464 751 071 | Cap kit        | Including items 7 and 8                               |
| 302  | 0464 751 086 | Left panel kit | Including items 10, 15, 16, 17, 21, 22 (11qty) and 26 |



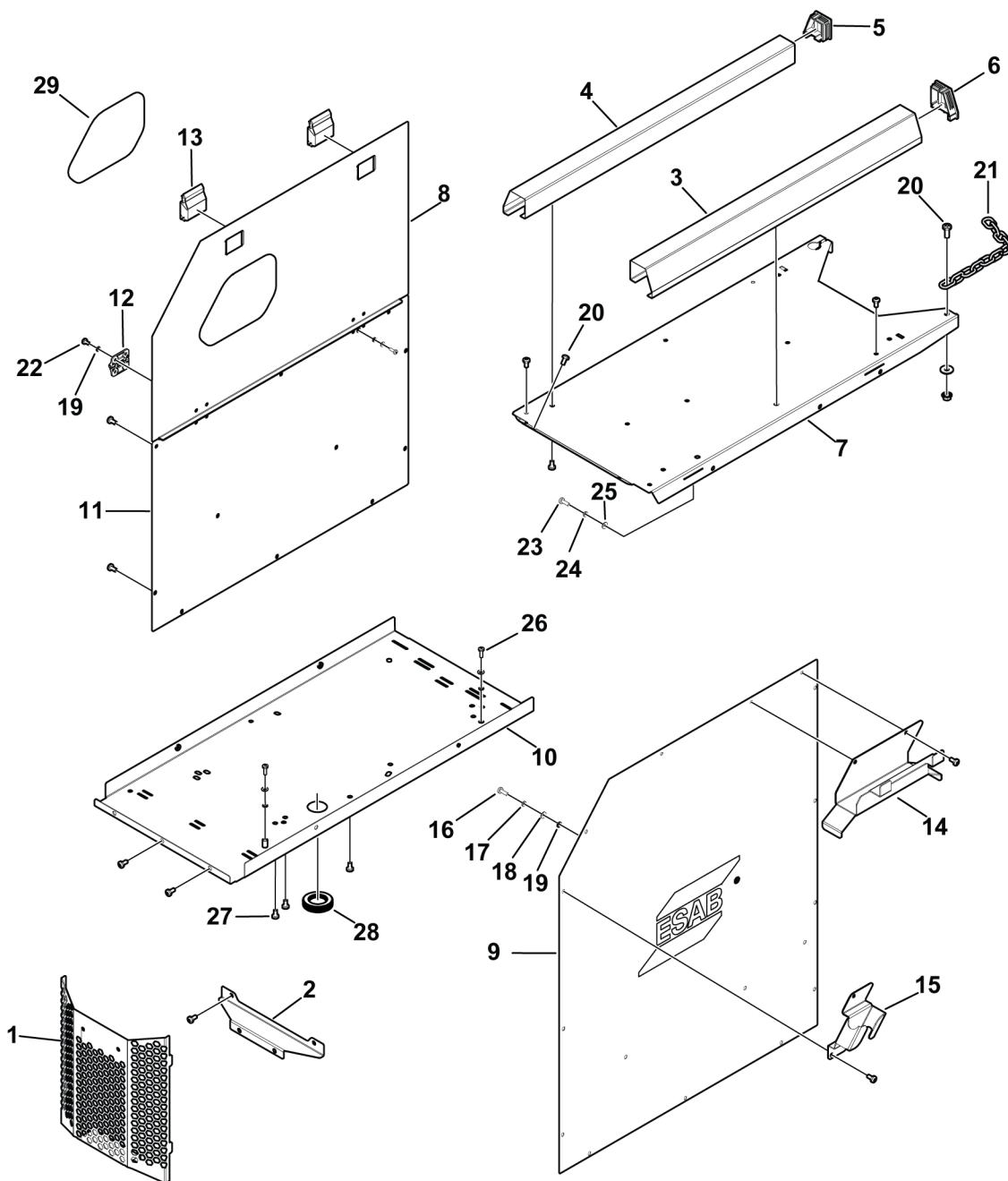
## 1.4 Housing module Rustler EM 350Cw PRO Synergic

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                     | Notes                             | C |
|------|-----|--------------|----------------------------------|-----------------------------------|---|
| 1    | 1   | 0448 351 001 | Front metal shield               |                                   |   |
| 2    | 1   | 0448 352 780 | Front water proof plate complete |                                   |   |
| 3    | 1   | 0448 381 001 | Top metal trim strip 1           |                                   |   |
| 4    | 1   | 0448 382 001 | Top metal trim strip 2           |                                   |   |
| 5    | 1   |              | Cap for strip                    | Left, see item 402                |   |
| 6    | 1   |              | Cap for strip                    | Right, see item 402               |   |
| 7    | 1   | 0448 380 780 | Top metal case                   |                                   |   |
| 8    | 1   |              | Metal door                       | Left, see item 401                |   |
| 9    | 1   | 0448 471 003 | Side panel                       | Right                             |   |
| 10   | 1   |              | Lower metal case assy            |                                   |   |
| 11   | 1   |              | Lower metal cover assy           | Left, see item 401                |   |
| 12   | 2   | 0448 433 780 | Hinge                            | See item 401                      |   |
| 13   | 2   | 0448 406 001 | Door hatch                       | See item 401                      |   |
| 14   | 1   | 0448 154 001 | Cable holder                     |                                   |   |
| 15   | 1   | 0448 155 001 | Torch holder                     |                                   |   |
| 16   | 5   |              | Screw                            | MRT M4 x 12                       |   |
| 17   | 5   |              | Spring washer                    |                                   |   |
| 18   | 5   |              | Plain washer                     | 4-200 HV-A2K                      |   |
| 19   | 13  | 0219 501 307 | Washer lock                      | AZ 4, 3 x 8 STL FZB, see item 401 |   |
| 20   | 47  |              | Screw                            | MRT M5 x 12 black, see item 401   |   |
| 21   | 1   | 0321 173 002 | Chain                            |                                   |   |
| 22   | 8   |              | Screw                            | MRT M4 x 8 black, see item 401    |   |
| 23   | 4   |              | Screw                            | MRT M5 x 20                       |   |
| 24   | 4   |              | Spring washer                    |                                   |   |
| 25   | 4   |              | Plain washer                     | 5-200 HV-A2K                      |   |
| 26   | 4   |              | Screw                            | MRT COMBI M5 x 16                 |   |
| 27   | 10  |              | Screw                            | MRT COMBI M5 x 10                 |   |
| 28   | 1   | 0194 069 002 | Rubber inlet                     | 28 mm                             |   |
| 29   | 1   | 0448 405 011 | Window glass                     |                                   |   |

# 1 SPARE PARTS

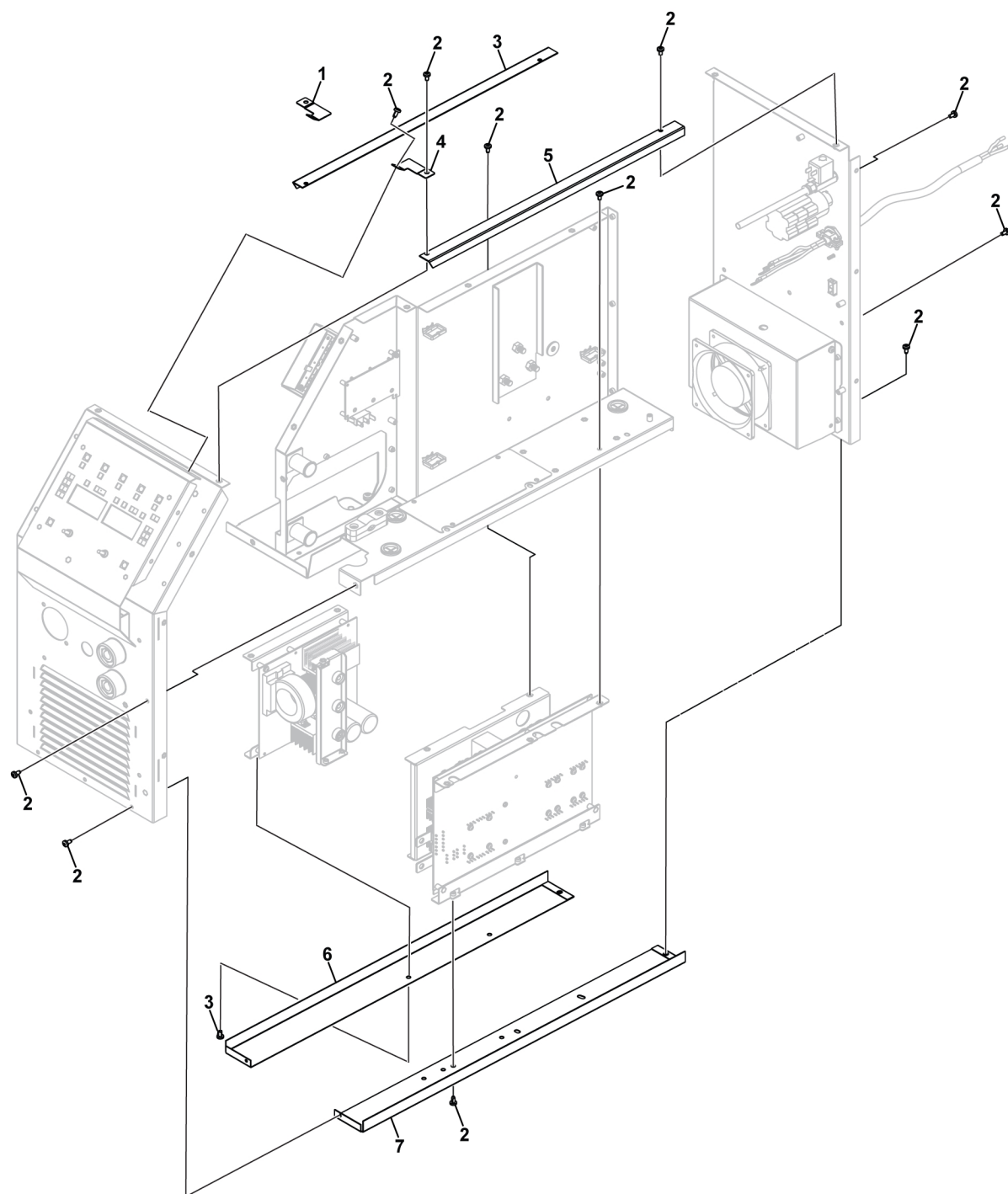
| Item | Ordering no. | Denomination                  | Notes                                                          |
|------|--------------|-------------------------------|----------------------------------------------------------------|
| 401  | 0464 752 182 | Side panel kit, Rustler 350Cw | Including items 8, 11, 12, 13, 19 (8 qty), 20 (11 qty), and 22 |
| 402  | 0464 751 086 | Cap kit                       | Including items 5 and 6                                        |



## 1.5 Supporting module

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination             | Notes | C |
|------|-----|--------------|--------------------------|-------|---|
| 1    | 1   |              | Bracket of control board | Left  |   |
| 2    | 33  |              | Screw                    | M5×10 |   |
| 3    | 1   |              | Metal bar upper side     | Left  |   |
| 4    | 1   |              | Bracket of control board | Right |   |
| 5    | 1   |              | Metal bar upper side     | Right |   |
| 6    | 1   |              | Metal bar down side      | Left  |   |
| 7    | 1   |              | Metal bar down side      | Right |   |



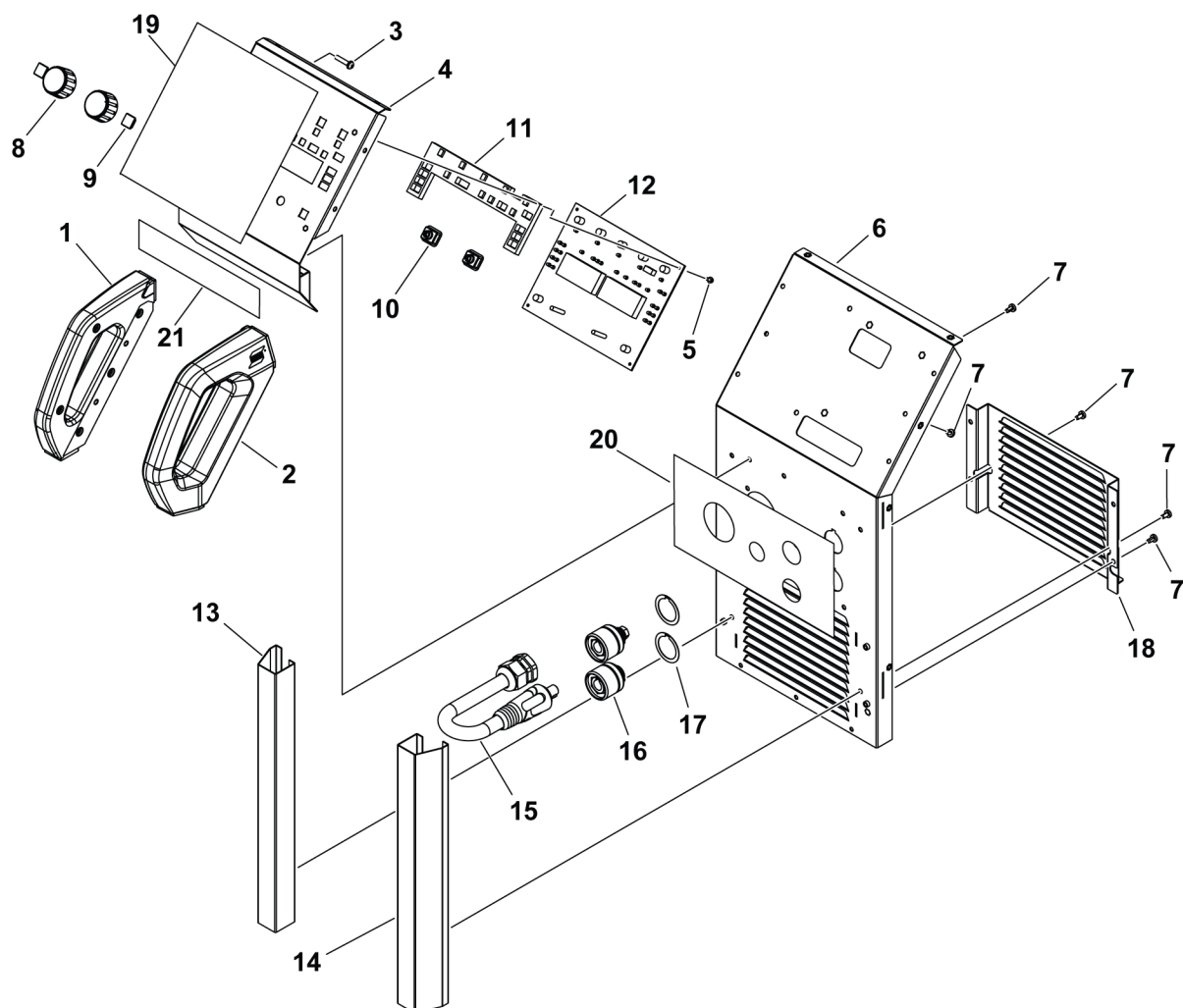
## 1.6 Front panel

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                  | Notes                                                                                | C    |
|------|-----|--------------|-------------------------------|--------------------------------------------------------------------------------------|------|
| 1    | 1   | 0464 663 158 | Left handle                   |                                                                                      |      |
| 2    | 1   | 0464 663 191 | Right handle                  |                                                                                      |      |
| 3    | 4   |              | Screw                         | M5×25                                                                                |      |
| 4    | 1   |              | Front use control metal panel | See item 601, 602, 603, 604, and 605                                                 |      |
| 5    | 4   |              | Screw                         | M3x8, see item 601, 602, 603, 604, and 605                                           |      |
| 6    | 1   |              | Front metal panel             | See item 606                                                                         |      |
| 7    | 16  |              | Screw                         | M5×10                                                                                |      |
| 8    | 2   | 0321 475 893 | Knob                          | D36-1/4 in. AristoFeed                                                               |      |
| 9    | 7   |              | Black rubber                  |                                                                                      |      |
| 10   | 2   |              | Rubber for encoder            | See item 601, 602, 603, 604, and 605                                                 |      |
| 11   | 1   |              | Cotton shading of LED         | See item 601, 602, 603, 604, and 605                                                 |      |
| 12   | 1   |              | Front panel PCB               | See item 601, 602, 603, 604, and 605                                                 | 1AP1 |
| 13   | 1   | 0448 207 002 | Front metal trim strip LHS    | Rustler PRO                                                                          |      |
|      |     | 0448 471 002 |                               | Rustler EM 350Cw PRO                                                                 |      |
| 14   | 1   | 0448 207 001 | Front metal trim strip RHS    | Rustler PRO                                                                          |      |
|      |     | 0448 471 001 |                               | Rustler EM 350Cw PRO                                                                 |      |
| 15   | 1   | 0448 355 781 | Polarity change cable         | 35 mm <sup>2</sup> , Rustler EM 280C PRO                                             |      |
|      |     | 0448 355 780 |                               | 50 mm <sup>2</sup> , Rustler EM 350C PRO, 350C Synergic PRO and 350C MV Synergic PRO |      |
| 16   | 2   | 0160 362 881 | OKC with rubber seal          |                                                                                      |      |
| 18   | 1   |              | Front louver inside           |                                                                                      |      |
| 19   | 1   |              | Label, front panel            | See items 601 to 605. Refer to Section 1.15 "Label", page 34                         |      |
| 20   | 1   |              | Label, panel                  | See item 606. Refer to Section 1.15 "Label", page 34                                 |      |
| 21   | 1   |              | Label, Rustler name           | Refer to Section 1.15 "Label", page 34                                               |      |

## 1 SPARE PARTS

| Item | Ordering no. | Denomination                                  | Notes                                   |
|------|--------------|-----------------------------------------------|-----------------------------------------|
| 601  | 0464 751 038 | HMI kit, Front panel, EM 280C PRO             | Including items 4, 5, 10, 11, 12 and 19 |
| 602  | 0464 663 192 | HMI kit, Front panel, EM 350C PRO             | Including items 4, 5, 10, 11, 12 and 19 |
| 603  | 0464 751 072 | HMI kit, Front panel, EM 350C PRO Synergic    | Including items 4, 5, 10, 11, 12 and 19 |
| 604  | 0464 751 073 | HMI kit, Front panel, EM 350C PRO MV Synergic | Including items 4, 5, 10, 11, 12 and 19 |
| 605  | 0464 752 178 | HMI kit, Front panel, EM 350CW PRO Synergic   | Including items 4, 5, 10, 11, 12 and 19 |
| 606  | 0464 751 074 | Front metal panel kit                         | Including item 6 and 20                 |

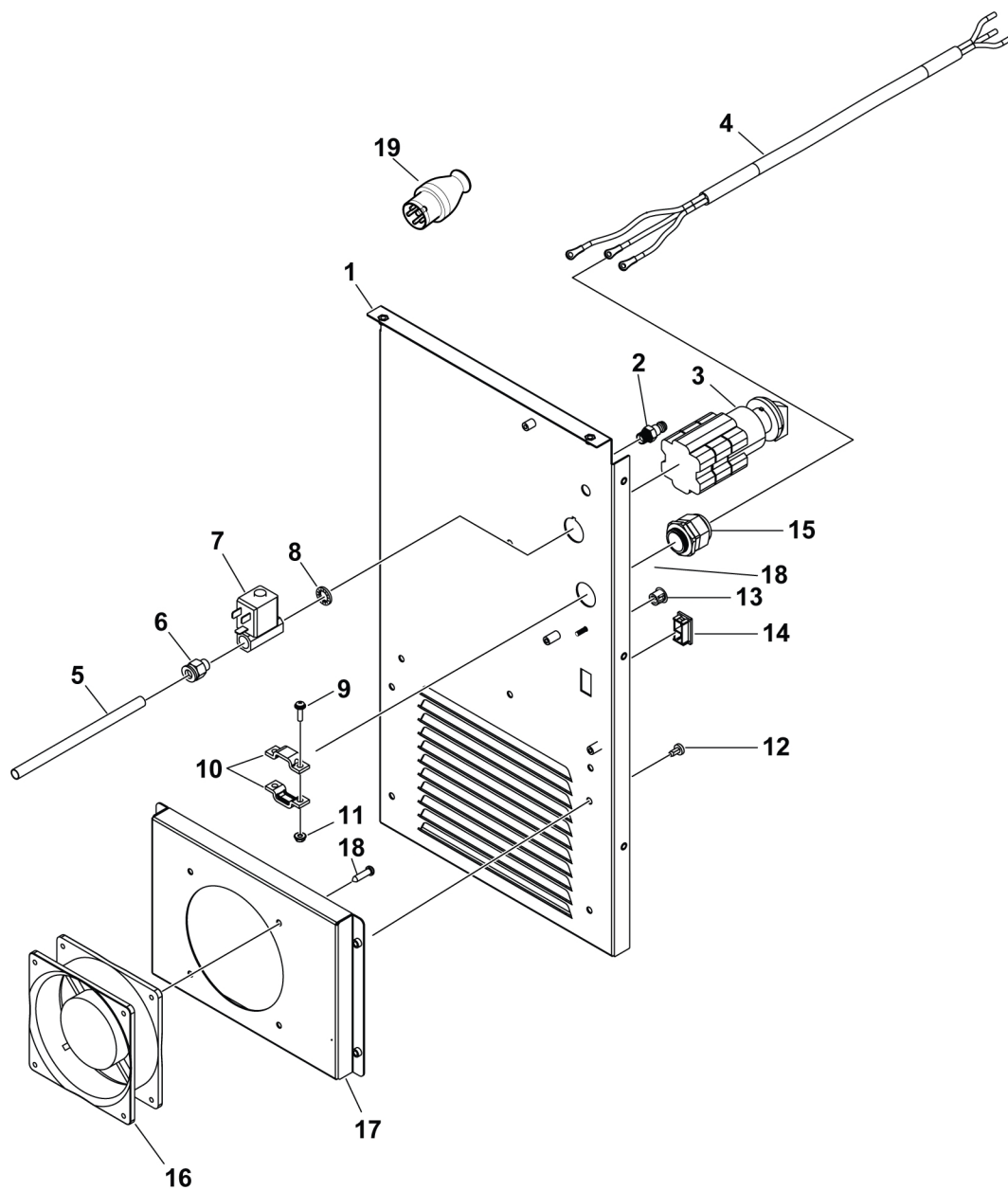


## 1.7 Rear panel

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination               | Notes                                            | C     |
|------|-----|--------------|----------------------------|--------------------------------------------------|-------|
| 1    | 1   | 0464 751 075 | Rear panel                 | Rustler EM 280C PRO, 350C PRO, 350C PRO Synergic |       |
|      |     | 0464 751 076 |                            | Rustler EM 350C PRO MV Synergic                  |       |
| 2    | 1   | 0464 663 277 | Inlet fitting              |                                                  |       |
| 3    | 1   | 0464 663 175 | Mains switch               |                                                  | 2SW1  |
| 4    | 1   | 0464 663 174 | Mains cable                | Rustler EM 280C PRO, 350C PRO, 350C Synergic PRO |       |
|      |     | 0464 751 077 |                            | Rustler EM 350C PRO MV Synergic                  |       |
| 5    | 1   |              | Gas tube                   |                                                  |       |
| 6    | 1   | 0464 663 308 | Quick connection fitting   |                                                  |       |
| 7    | 1   | 0464 663 177 | Solenoid valve             |                                                  |       |
| 8    | 1   | 0464 663 309 | Washer                     |                                                  |       |
| 9    | 2   |              | Screw                      | M4×16, See item 701                              |       |
| 10   | 2   |              | Pressure lock for cord     | See item 701                                     |       |
| 11   | 2   |              | Nut                        | M4, see item 701                                 |       |
| 12   | 4   |              | Screw                      | M5×10                                            |       |
| 13   | 1   |              | Cover for wire feeder      |                                                  |       |
| 14   | 1   |              | Cover for socket of heater |                                                  |       |
| 15   | 1   | 0464 663 176 | Cable gland                | Rustler EM 280C PRO, 350C PRO, 350C Synergic PRO |       |
|      |     | 0464 663 278 |                            | Rustler 350C PRO MV Synergic                     |       |
| 16   | 1   | 0464 663 279 | Cooling fan                |                                                  | 20EV1 |
| 17   | 1   |              | Fan bracket                |                                                  |       |
| 18   | 4   |              | Screw                      | ST5.0×20                                         |       |
| 19   | 1   | 0349 484 713 | Plug 16A                   | Rustler EM 280C PRO, 350C PRO, 350C PRO Synergic |       |
|      |     | 0349 484 716 |                            | Rustler EM 350C PRO MV Synergic                  |       |

| Item | Ordering no. | Denomination     | Notes                        |
|------|--------------|------------------|------------------------------|
| 701  | 0464 663 176 | Pressure lock it | Including items 9, 10 and 11 |

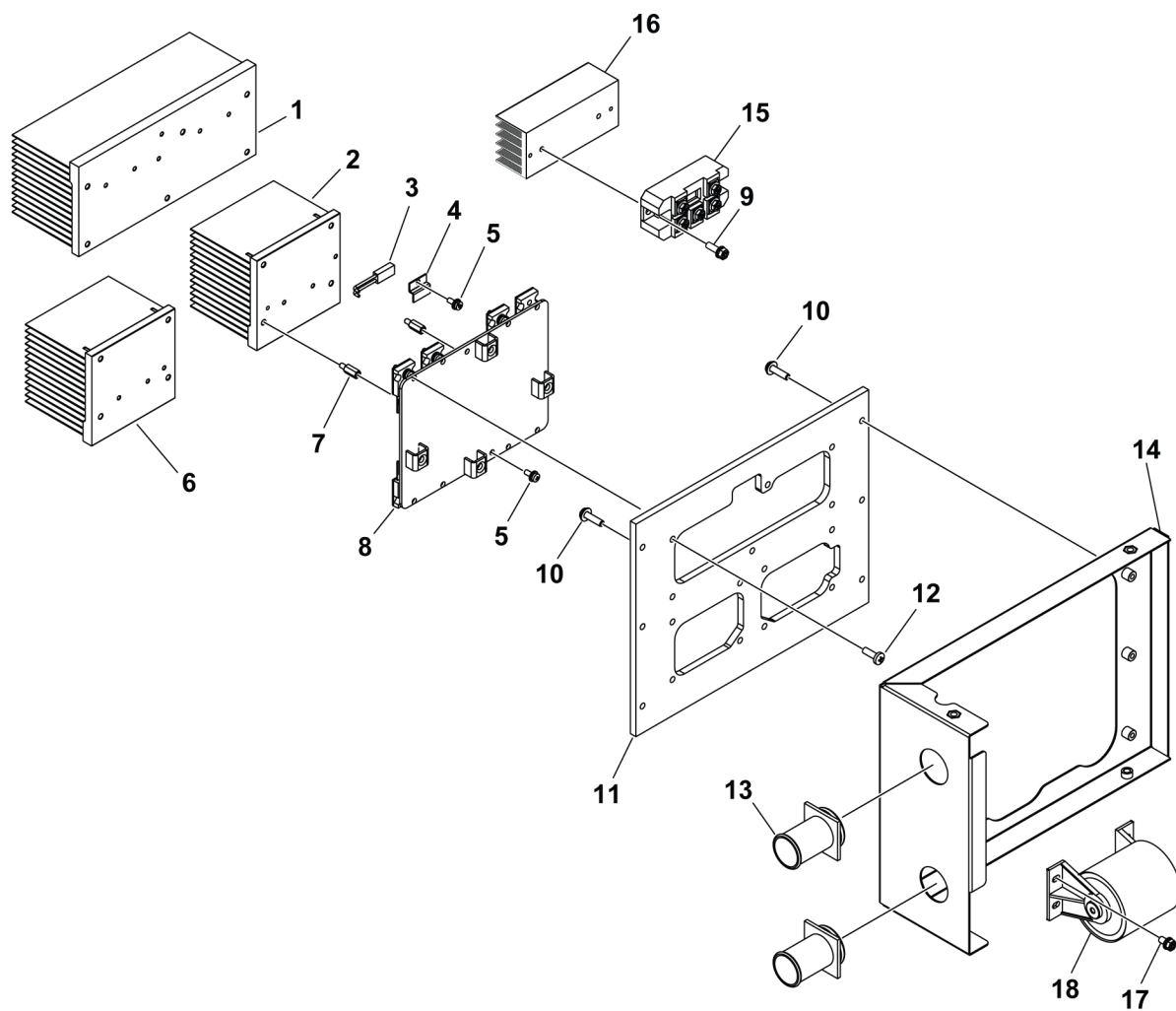


## 1.8 IGBT module Rustler EM 280C PRO

**C** = Component designation in the circuit diagram

| Item | Qty | Ordering no. | Denomination                       | Notes                            | C   |
|------|-----|--------------|------------------------------------|----------------------------------|-----|
| 1    | 1   |              | Heatsink of IGBT                   | Upper                            |     |
| 2    | 1   |              | Heatsink of IGBT                   | Lower right                      |     |
| 3    | 1   |              | Thermal protection                 | See item 801                     |     |
| 4    | 1   |              | Cover                              | Thermal protection, see item 801 |     |
| 5    | 3   |              | Screw                              | M3×8, see item 801               |     |
| 6    | 1   |              | Heatsink of IGBT                   |                                  |     |
| 7    | 2   |              | Copper bolt                        |                                  |     |
| 8    | 1   | 0464 751 036 | Inverter PCB kit                   |                                  | 1Q5 |
| 9    | 2   |              | Screw                              | M5×16                            |     |
| 10   | 6   |              | Screw                              | M4×16                            |     |
| 11   | 1   |              | Insulation pad of heatsink of IGBT |                                  |     |
| 12   | 12  |              | Screw                              |                                  |     |
| 13   | 2   | 0464 663 275 | Cable cover                        |                                  |     |
| 14   | 1   |              | Bracket                            |                                  |     |
| 15   | 1   | 0464 751 037 | Bridge module                      | With thermal paste               |     |
| 16   | 1   |              | Heatsink of bridge module          |                                  |     |
| 17   | 4   |              | Screw                              | M5×10                            |     |
| 18   | 1   | 0464 663 170 | Capacitor                          |                                  |     |

| Item | Ordering no. | Denomination           | Notes                      |
|------|--------------|------------------------|----------------------------|
| 801  | 0464 663 302 | Thermal protection kit | Including items 3, 4 and 5 |

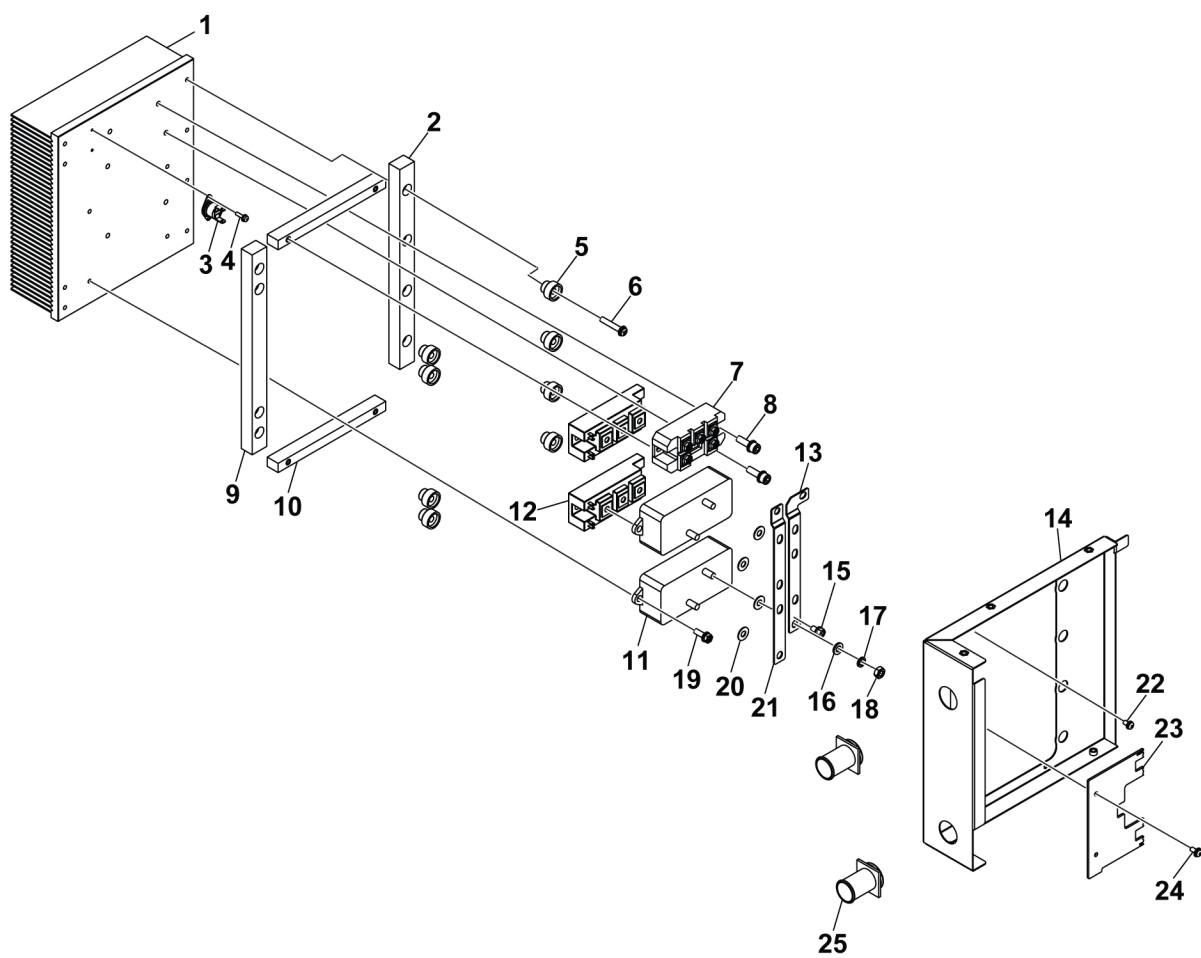


## 1.9 IGBT module Rustler EM 350C PRO, 350C PRO Synergic

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                       | Notes              | C |
|------|-----|--------------|------------------------------------|--------------------|---|
| 1    | 1   |              | Heatsink of IGBT                   |                    |   |
| 2    | 1   |              | Insulation rod of heatsink of IGBT | Right              |   |
| 3    | 1   | 0464 663 196 | Thermal protection                 | See item 901       |   |
| 4    | 2   |              | Screw                              | M3×8, see item 901 |   |
| 5    | 8   | 0464 663 310 | Insulation pad                     |                    |   |
| 6    | 8   |              | Screw                              | M5×30              |   |
| 7    | 1   | 0464 663 168 | Bridge module                      | With thermal paste |   |
| 8    | 6   |              | Screw                              | M6×16              |   |
| 9    | 1   |              | Insulation rod of heatsink of IGBT | Vertical           |   |
| 10   | 2   |              | Insulation rod of heatsink of IGBT | Horizontal         |   |
| 11   | 2   | 0464 663 198 | Capacitor                          |                    |   |
| 12   | 2   |              | IGBT module                        |                    |   |
| 13   | 1   |              | Copper rod                         |                    |   |
| 14   | 1   |              | Bracket for heatsink of IGBT       |                    |   |
| 15   | 4   |              | Screw                              | M5×10              |   |
| 16   | 4   |              | Washer                             | Ø6                 |   |
| 17   | 4   |              | Washer                             | Ø6                 |   |
| 18   | 4   |              | Nut                                | M6                 |   |
| 19   | 4   |              | Screw                              | M5×12              |   |
| 20   | 4   |              | Washer                             | Ø6                 |   |
| 21   | 1   |              | Copper rod                         |                    |   |
| 22   | 4   |              | Screw                              | M4×8               |   |
| 23   | 1   |              | Drive PCB                          |                    |   |
| 24   | 2   |              | Screw                              | M4×10              |   |
| 25   | 2   | 0464 663 275 | Cable cover                        |                    |   |

| Item | Ordering no. | Denomination           | Notes                   |
|------|--------------|------------------------|-------------------------|
| 901  | 0464 663 197 | Thermal protection kit | Including items 3 and 4 |



## 1.10 IGBT module

### Rustler EM 350C PRO MV Synergic

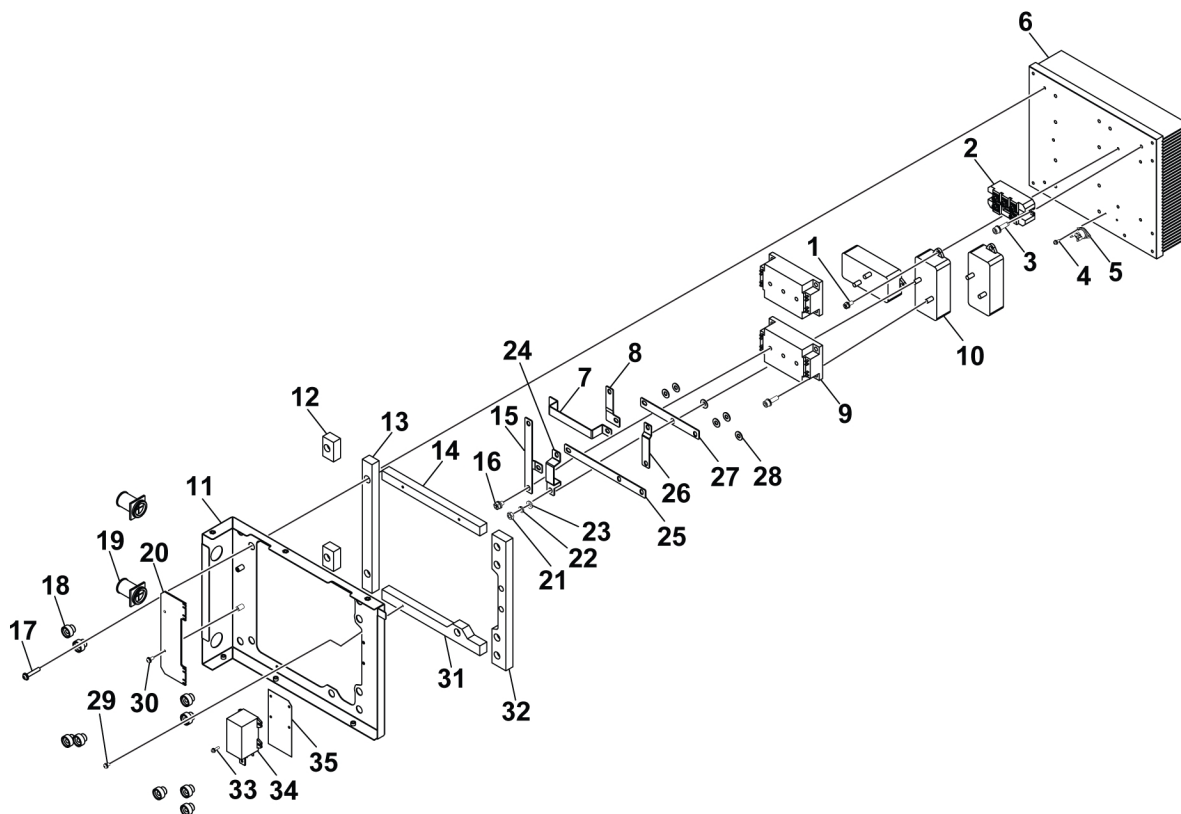
**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                        | Notes              | C     |
|------|-----|--------------|-------------------------------------|--------------------|-------|
| 1    | 4   |              | Screw                               | M5×12              |       |
| 2    | 1   | 0464 751 037 | Bridge module                       | With thermal paste |       |
| 3    | 10  |              | Screw                               | M6×16              |       |
| 4    | 2   |              | Screw                               | M3×8               |       |
| 5    | 1   | 0464 663 196 | Thermal protection                  |                    |       |
| 6    | 1   |              | Heatsink of IGBT                    |                    |       |
| 7    | 1   |              | Copper bar of IGBT                  | Upper left         |       |
| 8    | 1   |              | Copper bar of IGBT                  | Middle left        |       |
| 9    | 2   |              | IGBT module                         | See item 1001      |       |
| 10   | 3   | 0464 663 198 | Capacitor                           |                    |       |
| 11   | 1   |              | Bracket for heatsink of IGBT        |                    |       |
| 12   | 2   |              | Insulation rod for heatsink of IGBT | Upper right        |       |
| 13   | 1   |              | Insulation rod for heatsink of IGBT | Left               |       |
| 14   | 1   |              | Insulation rod for heatsink of IGBT | Upper              |       |
| 15   | 1   |              | Copper bar                          | Left               |       |
| 16   | 4   |              | Screw                               | M6×10              |       |
| 17   | 9   |              | Screw                               | M5×30              |       |
| 18   | 9   | 0464 663 310 | Insulation pad                      |                    |       |
| 19   | 4   | 0464 663 275 | Cable cover                         |                    |       |
| 20   | 4   |              | Drive PCB                           | See item 1001      | 13AP1 |
| 21   | 1   |              | Nut                                 | M6                 |       |
| 22   | 6   |              | Washer                              | Ø6                 |       |
| 23   | 6   |              | Washer                              | Ø6                 |       |
| 24   | 1   |              | Copper bar of IGBT                  | Down left          |       |
| 25   | 1   |              | Copper bar of capacitor             | Down               |       |
| 26   | 1   |              | Copper bar of bridge                | Down               |       |
| 27   | 1   |              | Copper bar of capacitor             | Middle             |       |
| 28   | 6   |              | Washer                              | Ø6                 |       |
| 29   | 3   |              | Screw                               | M4×8               |       |
| 30   | 2   |              | Screw                               | M4×10              |       |
| 31   | 1   |              | Insulation rod for heatsink of IGBT | Down               |       |

# 1 SPARE PARTS

| Item | Qty | Ordering no. | Denomination                        | Notes | C |
|------|-----|--------------|-------------------------------------|-------|---|
| 32   | 1   |              | Insulation rod for heatsink of IGBT | Right |   |
| 33   | 4   |              | Screw                               | M3×12 |   |
| 34   | 1   | 0464 751 079 | Relay                               |       |   |

| Item | Ordering no. | Denomination                                  | Notes                    |
|------|--------------|-----------------------------------------------|--------------------------|
| 1001 | 0464 751 078 | IGBT and PCB Assy, with thermal paste, 350 MV | Including items 9 and 20 |

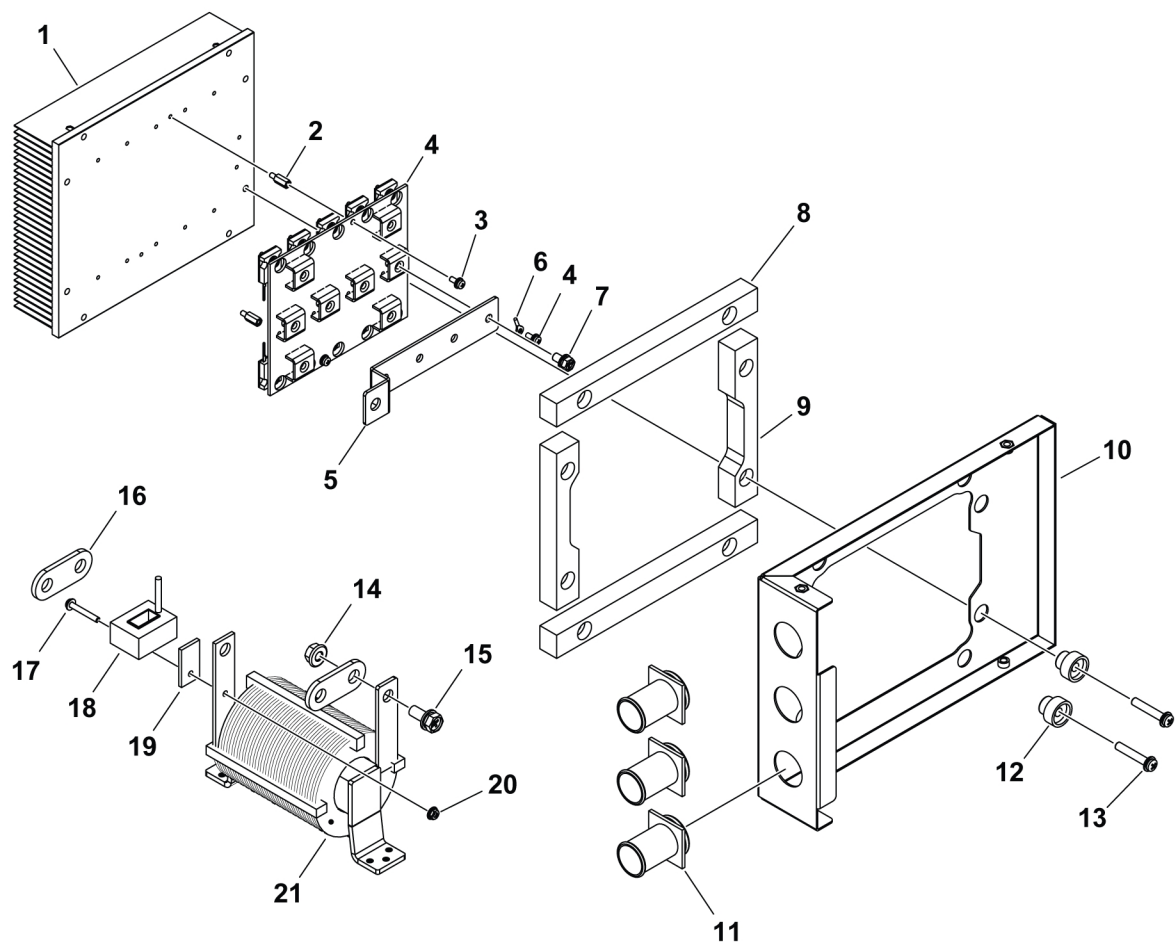


## 1.11 Rectifier module

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                               | Notes | C |
|------|-----|--------------|--------------------------------------------|-------|---|
| 1    | 1   |              | Heatsink of rectifier                      |       |   |
| 2    | 2   |              | Copper bolt                                |       |   |
| 3    | 3   |              | Screw                                      | M3×8  |   |
| 4    | 1   |              | Rectifier PCB                              |       |   |
|      | 10  |              | Diode                                      |       |   |
| 5    | 1   |              | Copper rod                                 |       |   |
| 6    | 1   | 0464 663 280 | NTC                                        |       |   |
| 7    | 4   |              | Screw                                      | M5×10 |   |
| 8    | 2   |              | Insulation bar for heatsink of rectifier   |       |   |
| 9    | 2   |              | Insulation bar for heatsink of rectifier 2 |       |   |
| 10   | 1   |              | Bracket for heatsink of rectifier          |       |   |
| 11   | 3   | 0464 663 275 | Cable cover                                |       |   |
| 12   | 8   | 0464 663 310 | Insulation pad                             |       |   |
| 13   | 8   |              | Screw                                      | M5×30 |   |
| 14   | 2   |              | Nut                                        | M8    |   |
| 15   | 1   |              | Screw                                      | M8×20 |   |
| 16   | 2   |              | Copper and aluminium plate                 |       |   |
| 17   | 1   |              | Screw                                      | M4×30 |   |
| 18   | 1   | 0464 663 159 | Hall sensor                                |       |   |
| 19   | 1   |              | Insulation board of hall                   |       |   |
| 20   | 1   |              | Nut                                        | M4    |   |
| 21   | 1   | 0464 751 085 | Inductor for 350C MV                       |       |   |

| Item | Ordering no. | Denomination      | Notes                                                                                |
|------|--------------|-------------------|--------------------------------------------------------------------------------------|
| 1101 | 0464 663 260 | Rectifier PCB kit | Including pos. 4. For Rustler EM 280C. With thermal paste.                           |
| 1102 | 0464 663 187 | Rectifier PCB kit | Including pos. 4. For Rustler EM 350C PRO and 350C PRO Synergic. With thermal paste. |
| 1103 | 0464 751 080 | Rectifier PCB kit | Including pos. 4. For Rustler EM 350C PRO MV Synergic. With thermal paste.           |



## 1.12 Mounting plate module, Rustler EM 280C PRO, 350C PRO, 350C PRO Synergic, 350Cw PRO Synergic

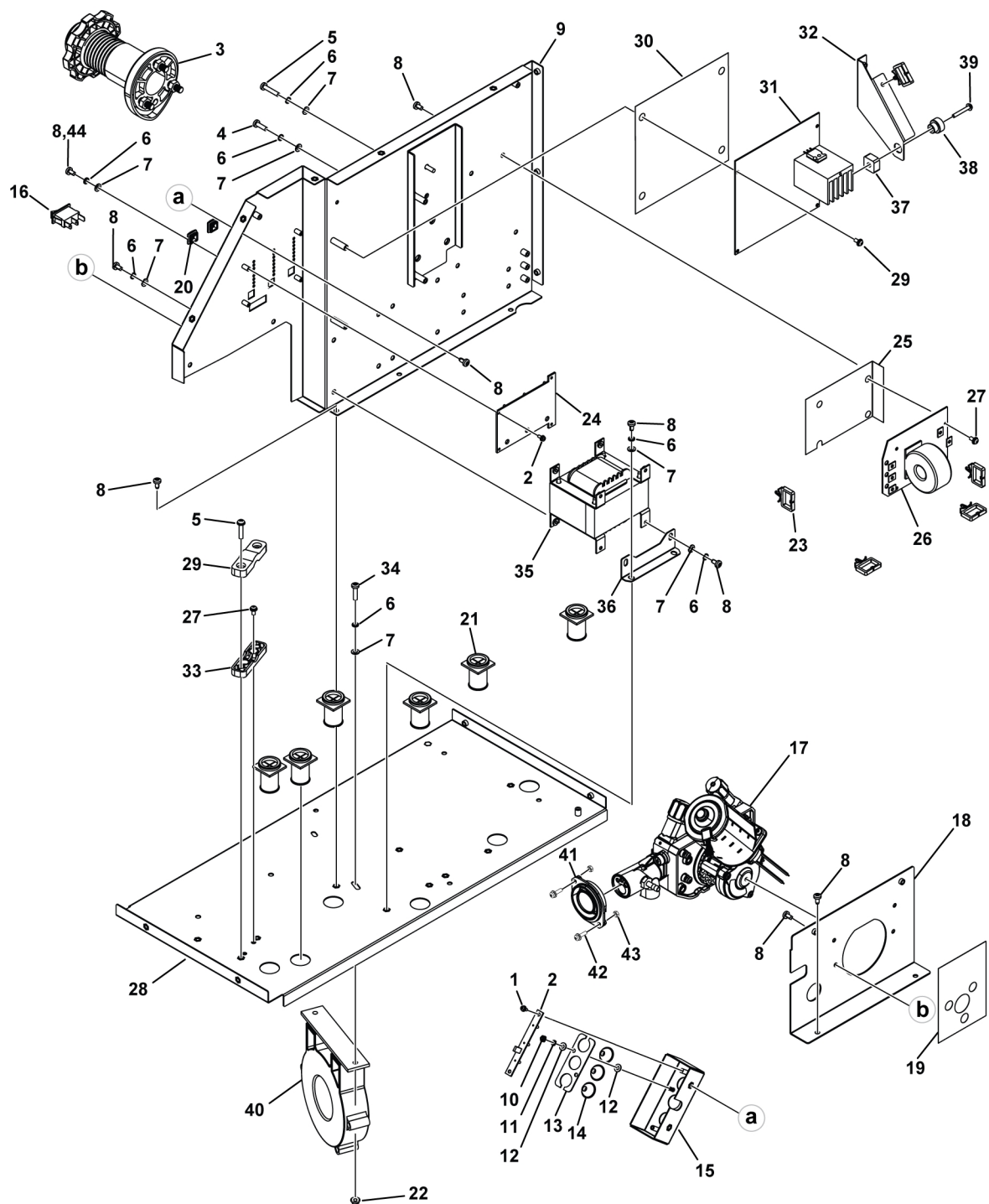
**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                 | Notes                                        | C    |
|------|-----|--------------|------------------------------|----------------------------------------------|------|
| 1    | 6   |              | Screw                        | M3×8, see item 1201                          |      |
| 2    | 1   |              | LED PCB inside               | See item 1201                                | 1AP3 |
| 3    | 1   | 0464 663 182 | Spool                        | 15 kg                                        |      |
| 4    | 2   |              | Screw                        | M5×16                                        |      |
| 5    | 2   |              | Screw                        | M5×25, see item 1202                         |      |
| 6    | 2   |              | Washer                       | Ø5                                           |      |
| 7    | 2   |              | Washer                       | Ø5                                           |      |
| 8    | 13  |              | Screw                        | M5×10                                        |      |
| 9    | 1   |              | Middle support plate         | See item 1201                                |      |
| 10   | 2   |              | Nut                          | M4, see item 1201                            |      |
| 11   | 2   |              | Washer                       | Ø4, see item 1201                            |      |
| 12   | 4   |              | Washer                       | Ø4, see item 1201                            |      |
| 13   | 1   |              | Bracket of inside LED        | See item 1201                                |      |
| 14   | 3   |              | Inside LED                   | See item 1201                                |      |
| 15   | 1   |              | Inside LED shading           | See item 1201                                |      |
| 16   | 1   |              | Switch of side panel         |                                              |      |
| 17   | 1   | 0445 774 885 | Wire feeder                  |                                              | 20M1 |
| 18   | 1   |              | Bracket of wire feeder       |                                              |      |
| 19   | 1   |              | Wire feeder insulation paper |                                              |      |
| 20   | 2   | 0464 663 193 | Black rubber                 |                                              |      |
| 21   | 5   | 0464 663 275 | Cable cover                  |                                              |      |
| 22   | 2   |              | Nut                          | M5                                           |      |
| 23   | 3   |              | Cable tie                    |                                              |      |
| 24   | 1   | 0464 663 257 | Non synergic PCB             | Rustler EM 280C PRO and 350C PRO             | 1AP2 |
|      |     | 0464 752 181 | Synergic PCB                 | Rustler EM 350C PRO SYN and EM 350Cw PRO SYN |      |
| 25   | 1   |              | EMC insulate paper           |                                              |      |
| 26   | 1   | 0464 663 172 | EMC PCB                      | Rustler EM 280C PRO                          | 2AP1 |
|      |     | 0464 752 180 |                              | Rustler EM 350C PRO and 350Cw PRO SYN        |      |
| 27   | 2   |              | Screw                        | M4×10, see item 1202                         |      |
| 28   | 1   |              | Mounting plate               |                                              |      |
| 29   | 1   |              | Cable locker                 | Upper side, see item 1202                    |      |

## 1 SPARE PARTS

| Item | Qty | Ordering no. | Denomination                                 | Notes                                          | C |
|------|-----|--------------|----------------------------------------------|------------------------------------------------|---|
| 30   | 1   |              | Insulation paper of main PCB                 |                                                |   |
| 31   | 1   | 0464 751 081 | Control board PCB                            | Rustler EM 280C PRO                            |   |
|      |     | 0464 663 171 |                                              | Rustler EM 350C PRO                            |   |
|      |     | 0464 663 261 |                                              | Rustler EM 350C PRO Synergic                   |   |
|      |     | 0464 752 179 |                                              | Rustler EM 350Cw PRO Synergic                  |   |
| 32   | 1   |              | Bracket of heatsink                          |                                                |   |
| 33   | 1   |              | Cable locker                                 | Down side, see item 1202                       |   |
| 34   | 2   |              | Screw                                        | M5×20                                          |   |
| 35   | 1   | 0464 663 161 | Frequency transformer                        | Rustler EM 280C PRO, 350C                      |   |
| 36   | 1   |              | Bracket of transformer                       |                                                |   |
| 37   | 1   | 0464 663 306 | Insulation pad for heatsink of control board |                                                |   |
| 38   | 1   | 0464 663 310 | Insulation pad                               |                                                |   |
| 39   | 1   |              | Screw                                        | M4×30                                          |   |
| 40   | 1   | 0464 663 164 | Main transformer                             | Rustler EM 280C PRO                            |   |
|      |     | 0464 663 164 |                                              | Rustler EM 350C PRO and 350C PRO Synergic      |   |
| 41   | 1   | 0445 813 001 | Torch connector seat                         |                                                |   |
| 42   | 2   |              | Screw                                        | MRT M5×10 black                                |   |
| 43   | 2   |              | Locking nut                                  | 5 BH6                                          |   |
| 44   | 4   | 0194 277 326 | Screw                                        | MRT M5x12 black, Rustler EM 350Cw PRO Synergic |   |

| Item | Ordering no. | Denomination   | Notes                                          |
|------|--------------|----------------|------------------------------------------------|
| 1201 | 0464 663 183 | LED kit        | Including items 1, 2, 10, 11, 12, 13,14 and 15 |
| 1202 | 0464 663 304 | Cable lock lit | Including items 5, 27, 29 and 33               |



## 1.13 Mounting plate module, Rustler 350C PRO MV Synergic

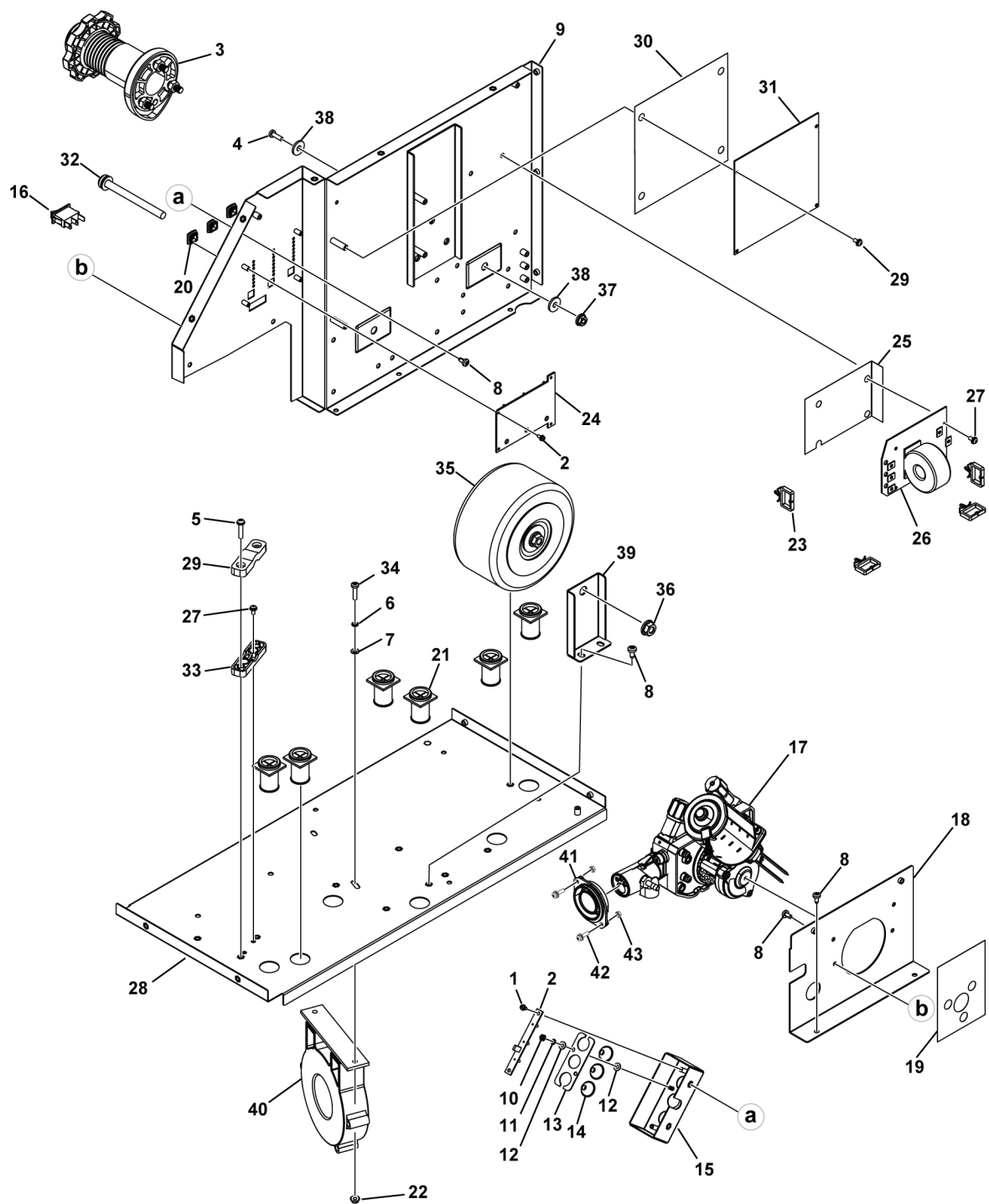
**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination                 | Notes                     | C    |
|------|-----|--------------|------------------------------|---------------------------|------|
| 1    | 6   |              | Screw                        | M3×8, see item 1301       |      |
| 2    | 1   |              | LED PCB inside               | See item 1301             | 1AP3 |
| 3    | 1   | 0464 663 182 | Spool                        | 15 kg                     |      |
| 4    | 1   |              | Screw                        | M5×16                     |      |
| 5    | 2   |              | Screw                        | M5×25, see item 1302      |      |
| 6    | 2   |              | Washer                       | Ø5                        |      |
| 7    | 2   |              | Washer                       | Ø5                        |      |
| 8    | 7   |              | Screw                        | M5×10                     |      |
| 9    | 1   |              | Middle support plate         |                           |      |
| 10   | 2   |              | Nut                          | M4, see item 1301         |      |
| 11   | 2   |              | Washer                       | Ø4, see item 1301         |      |
| 12   | 4   |              | Washer                       | Ø4, see item 1301         |      |
| 13   | 1   |              | Bracket of inside LED        | See item 1301             |      |
| 14   | 3   |              | Inside LED                   | See item 1301             |      |
| 15   | 1   |              | Inside LED shading           | See item 1301             |      |
| 16   | 1   | 0464 663 184 | Switch of side panel         |                           |      |
| 17   | 1   | 0445 774 885 | Wire feeder                  |                           | 20M1 |
| 18   | 1   |              | Bracket of wire feeder       |                           |      |
| 19   | 1   |              | Wire feeder insulation paper |                           |      |
| 20   | 7   | 0464 663 193 | Black rubber                 |                           |      |
| 21   | 6   | 0464 663 275 | Cable cover                  |                           |      |
| 22   | 2   |              | Nut                          | M5                        |      |
| 23   | 4   |              | Cable tie                    |                           |      |
| 24   | 1   | 0464 663 162 | Synergic PCB                 |                           | 1AP2 |
| 25   | 1   |              | EMC insulate paper           |                           |      |
| 26   | 1   | 0464 751 082 | EMC PCB                      |                           | 2AP1 |
| 27   | 8   |              | Screw                        | M4×10, see item 1302      |      |
| 28   | 1   |              | Mounting plate               |                           |      |
| 29   | 1   |              | Cable locker                 | Upper side, see item 1302 |      |
| 30   | 1   |              | Insulation paper of main PCB |                           |      |
| 31   | 1   | 0464 663 258 | Control board PCB            |                           |      |
| 32   | 1   |              | Screw                        | M8×90                     |      |
| 33   | 1   |              | Cable locker                 | Down side, see item 1302  |      |

## 1 SPARE PARTS

| Item | Qty | Ordering no. | Denomination           | Notes           | C |
|------|-----|--------------|------------------------|-----------------|---|
| 34   | 2   |              | Screw                  | M5×20           |   |
| 35   | 1   | 0464 751 083 | Frequency transformer  |                 |   |
| 36   | 1   |              | Nut                    | M8              |   |
| 37   | 1   |              | Nut                    | M6              |   |
| 38   | 2   |              | Washer                 | Ø6              |   |
| 39   | 2   |              | Bracket of transformer |                 |   |
| 40   | 1   | 0464 751 084 | Main transformer       |                 |   |
| 41   | 1   | 0445 813 001 | Torch connector seat   |                 |   |
| 42   | 2   |              | Screw                  | MRT M5×10 black |   |
| 43   | 1   |              | Locking nut            | 5 BH6           |   |

| Item | Ordering no. | Denomination   | Notes                                          |
|------|--------------|----------------|------------------------------------------------|
| 1301 | 0464 663 183 | LED kit        | Including items 1, 2, 10, 11, 12, 13,14 and 15 |
| 1302 | 0464 663 304 | Cable lock lit | Including items 5, 27, 29 and 33               |

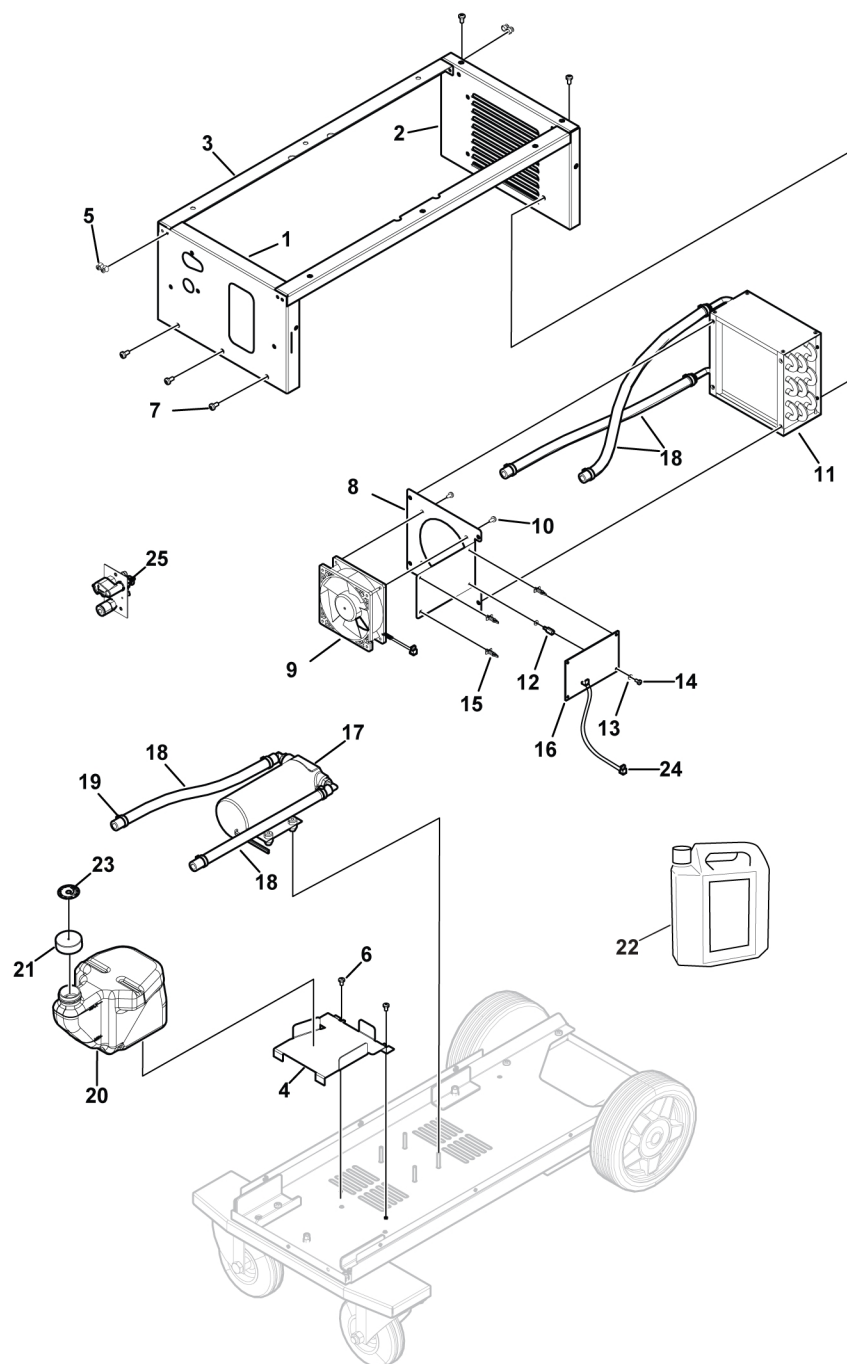


## 1.14 Water module for Rustler EM 350Cw PRO Synergic

**C = Component designation in the circuit diagram**

| Item | Qty    | Ordering no. | Denomination              | Notes                    | C |
|------|--------|--------------|---------------------------|--------------------------|---|
| 1    | 1      | 0448 472 020 | Front wall assy           |                          |   |
| 2    | 1      | 0448 472 030 | Rear wall assy            |                          |   |
| 3    | 2      |              | Longitudinal bracket assy |                          |   |
| 4    | 1      |              | Container bracket         |                          |   |
| 5    | 8      |              | Tubular rivets with core  | 4 x 8 A2K PN -83/ M82971 |   |
| 6    | 2      |              | Screw                     | MRT M5 x 8               |   |
| 7    | 5      |              | Screw                     | MRT M5 x 12 black        |   |
| 8    | 1      | 0448 473 020 | Fan bracket assy          |                          |   |
| 9    | 1      | 0462 316 880 | Fan with contact          |                          |   |
| 10   | 4      |              | Screw                     | RTS ST5,5 x 16           |   |
| 11   | 1      | 0462 314 001 | Radiator                  |                          |   |
| 12   | 1      | 0394 516 019 | Spacer screw              | M4 x 12                  |   |
| 13   | 2      |              | Plain washer              | 4-200 HV-A2K             |   |
| 14   | 1      |              | Screw                     | MRT M4 x 8               |   |
| 15   | 3      | 0192 790 104 | Spacer                    | 12.7 mm                  |   |
| 16   | 1      | 0440 021 883 | PCBA                      |                          |   |
| 17   | 1      | 0465 465 880 | Pump                      |                          |   |
| 18   | 1.04 m |              | Water hose                | D17/10                   |   |
|      | 0.43 m |              |                           |                          |   |
|      | 0.3 m  |              |                           |                          |   |
| 19   | 8      |              | Hose clamp                | 18.5/17.8                |   |
| 20   | 1      | 0448 478 780 | Tank module               | with cap and label       |   |
| 21   | 1      |              | Tank cap                  | See item 1401            |   |
| 22   | 1.8 l  | 0465 720 002 | Cooling liquid            | Glidex Extra II          |   |
| 23   | 1      |              | Label, cooling liquid     | See item 1401            |   |
| 24   | 1      | A000 100 471 | Rustler cooling harness   |                          |   |
| 25   | 1      | 0448 473 040 | Water outlet              | W lock                   |   |

| Item | Ordering no. | Denomination           | Notes                     |
|------|--------------|------------------------|---------------------------|
| 1401 | 0447 044 880 | Tank cap and label kit | Including items 21 and 23 |

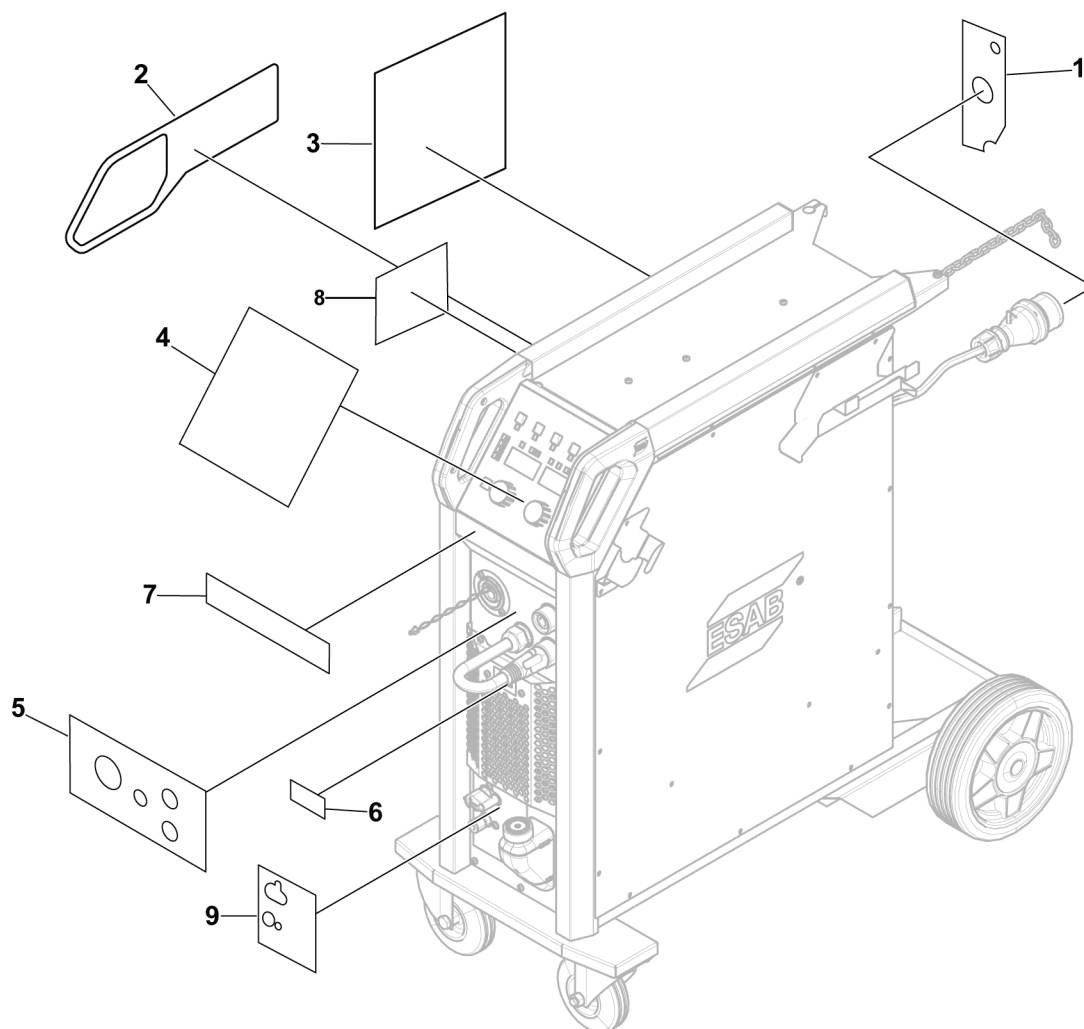


## 1.15 Label

**C = Component designation in the circuit diagram**

| Item | Qty | Ordering no. | Denomination            | Notes                                                          | C |
|------|-----|--------------|-------------------------|----------------------------------------------------------------|---|
| 1    | 1   |              | Main switch label       |                                                                |   |
| 2    | 1   |              | Side panel label        |                                                                |   |
| 3    | 1   |              | Weld parameter label    |                                                                |   |
| 4    | 1   |              | Label, front panel      | with memory                                                    |   |
| 5    | 1   |              | Label, front            |                                                                |   |
| 6    | 1   |              | Label, ESAB logo        |                                                                |   |
| 7    | 1   |              | Label, Rustler name     |                                                                |   |
| 8    | 1   |              | Label, non Synergic     | Rustler 280 and 350 Pro                                        |   |
|      |     |              | Label, Synergic         | Rustler 350 Pro Syn, Rustler 350 Syn MV, Rustler 350Cw PRO Syn |   |
| 9    | 1   |              | Label, water connection | Rustler EM 350Cw PRO SYN                                       |   |

| Item | Ordering no. | Denomination | Notes                                          |
|------|--------------|--------------|------------------------------------------------|
| 1501 | 0448 413 780 | Lable kit    | Rustler 280C Pro, Including items 1 to 8       |
| 1502 | 0448 416 780 | Lable kit    | Rustler 350C Pro, Including items 1 to 8       |
| 1503 | 0448 415 780 | Lable kit    | Rustler 350C Pro Syn, Including items 1 to 8   |
| 1504 | 0448 414 780 | Lable kit    | Rustler 350C Syn MV, Including items 1 to 8    |
| 1505 | 0448 475 780 | Lable kit    | Rustler 350 CW Pro Syn, Including items 1 to 9 |





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