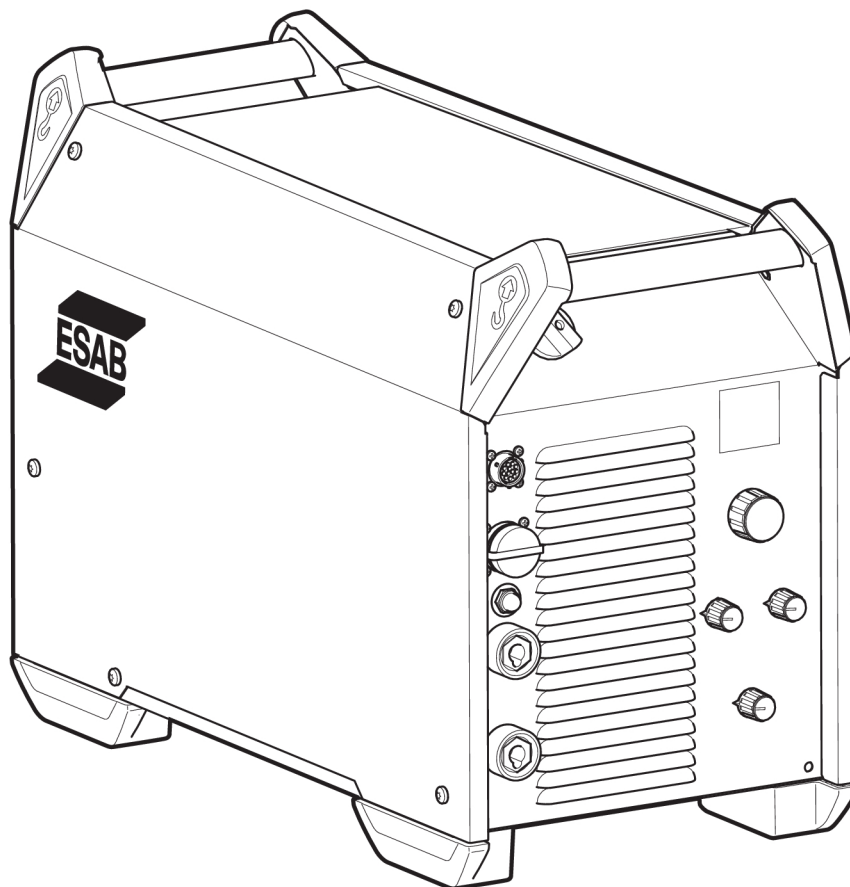


**Warrior™ 400i CC/CV**

**Warrior™ 500i CC/CV**

**Warrior™ 500i ECHO CC/CV**

*CE version*



## **Spare parts list**

| Ordering no. | Product                                | Note                     |
|--------------|----------------------------------------|--------------------------|
| 0465 350 883 | Warrior™ 500i CC/CV, 380-415 V         |                          |
| 0465 350 884 | Warrior™ 500i CC/CV, 380-415 V         |                          |
| 0465 350 885 | Warrior™ 500i CC/CV, VRD 380-415 V     |                          |
| 0465 350 886 | Warrior™ 500i CC/CV, VRD 380-415 V     |                          |
| 0448 550 880 | Warrior™ 500i ECHO CC/CV, 380-415 V CE | Valid for OP441YY-XXXXXX |

Spare parts are to be ordered through the nearest ESAB agency. Kindly indicate type of unit, serial number, denominations and ordering numbers according to the spare parts list.

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

|                                                                                                                              |           |
|------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>SPARE PARTS .....</b>                                                                                                     | <b>4</b>  |
| <b>A Housing module.....</b>                                                                                                 | <b>4</b>  |
| <b>B Power module Warrior 400i and 500i, 380 - 460 V .....</b>                                                               | <b>6</b>  |
| <b>C User interface Warrior 400i and 500i .....</b>                                                                          | <b>10</b> |
| <b>D Mains module Warrior 400i and 500i, 380 - 460V .....</b>                                                                | <b>10</b> |
| <b>E IPS module Warrior 400i and 500i, 380 - 460V .....</b>                                                                  | <b>10</b> |
| <b>F Control module Warrior 400i and 500i.....</b>                                                                           | <b>12</b> |
| <b>G Secondary connection Warrior 400i and 500i .....</b>                                                                    | <b>12</b> |
| <b>H Primary inverter .....</b>                                                                                              | <b>14</b> |
| <b>J Secondary rectifier.....</b>                                                                                            | <b>14</b> |
| <b>K Warrior™ 400i / 500i upgrade kit for AVS ECHO (only applicable<br/>    for CE variants, 0465 350 883, 0465 350 884)</b> | <b>16</b> |
| <b>Warrior™ 500i ECHO CC/CV (in-built assembly - 0448 550 880).....</b>                                                      |           |

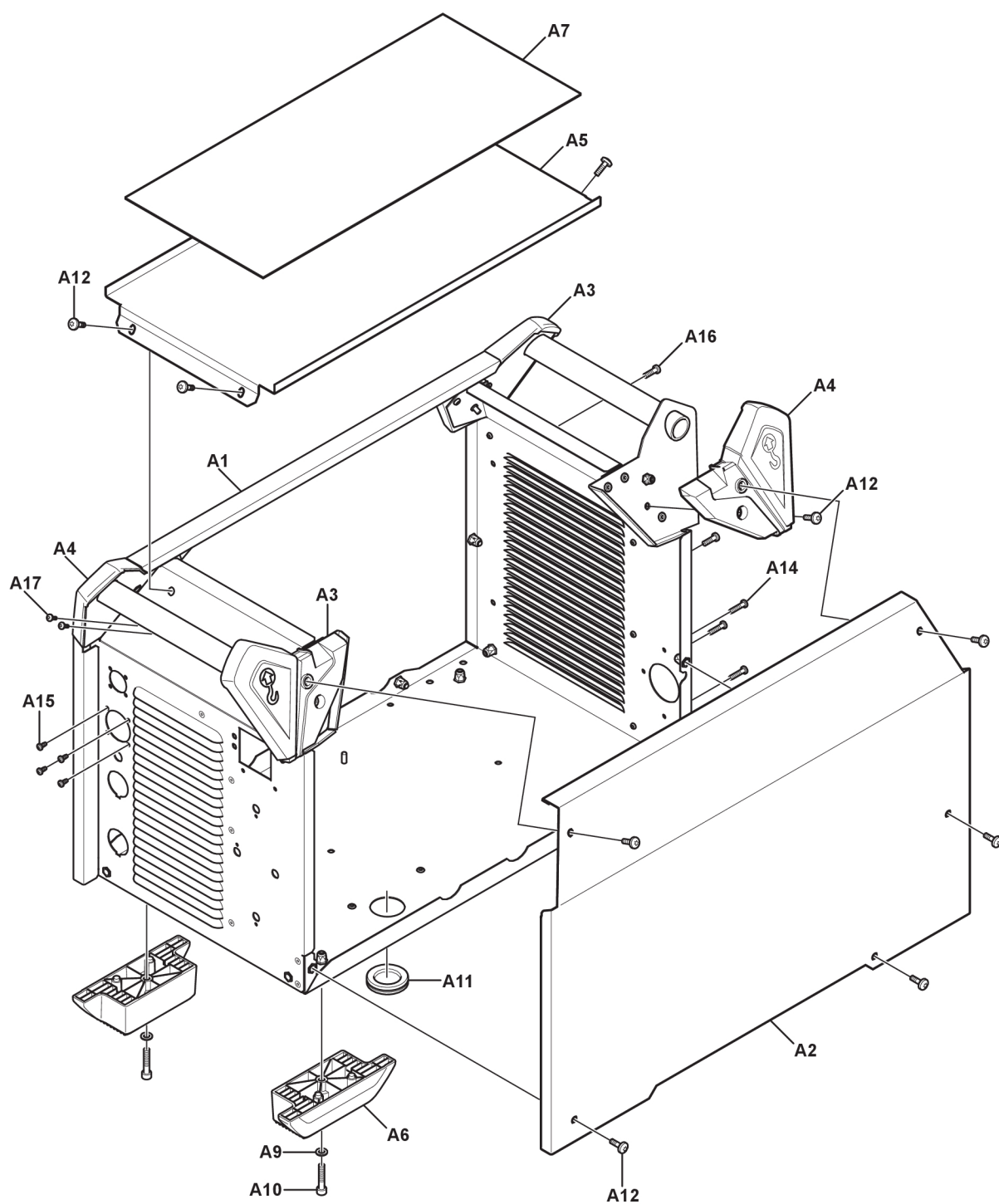
---

SPARE PARTS

---

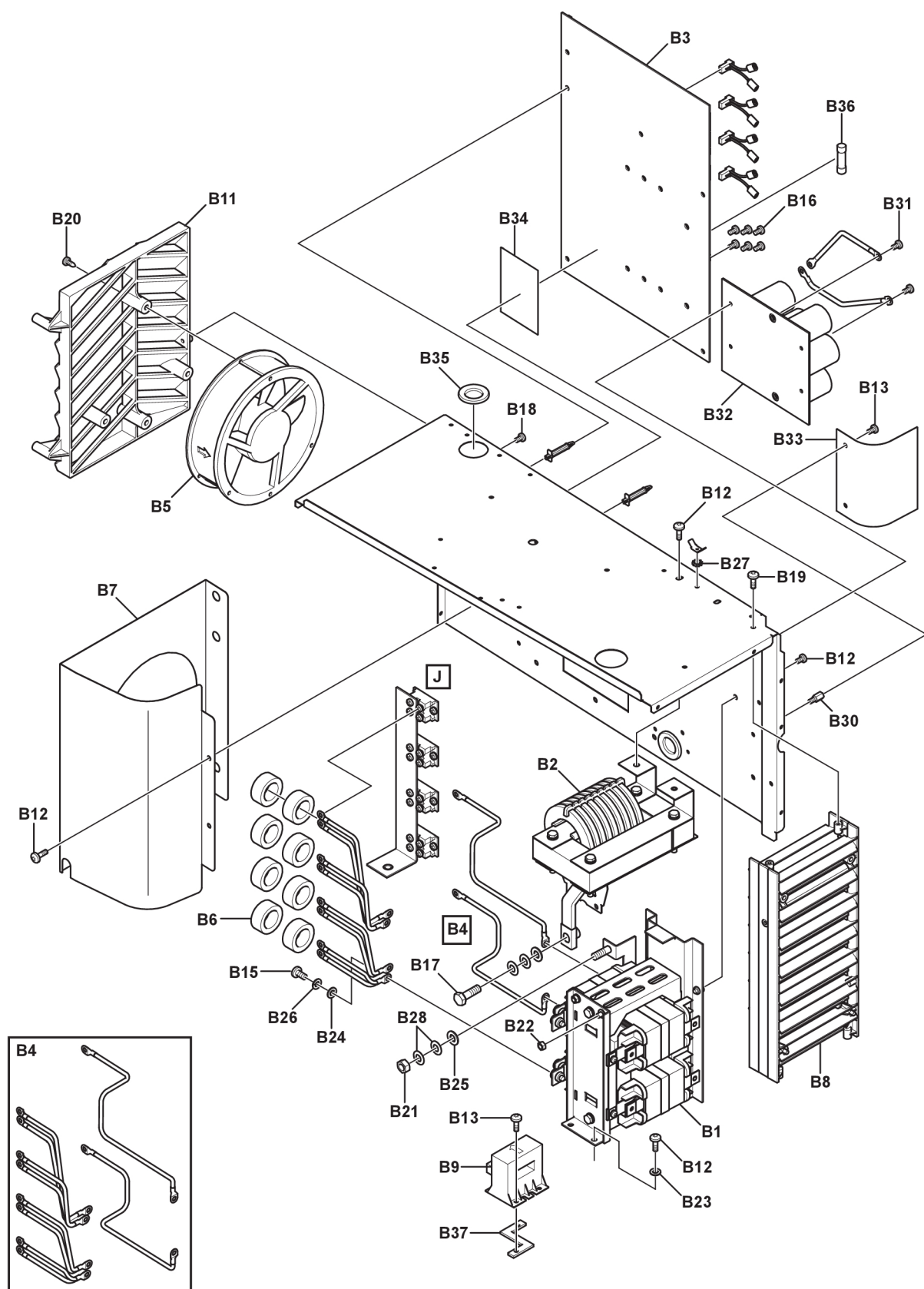
**A Housing module**

| Item | Qty | Ordering no. | Denomination          | Notes        | Component designation |
|------|-----|--------------|-----------------------|--------------|-----------------------|
| A1   | 1   | 0465 375 880 | Side panel, left      |              |                       |
| A2   | 1   | 0465 375 881 | Side panel, right     |              |                       |
| A3   | 2   | 0465 293 002 | Handle corner part    |              |                       |
| A4   | 2   | 0465 293 001 | Handle corner part    |              |                       |
| A5   | 1   | 0465 196 001 | Top panel             |              |                       |
| A6   | 4   | 0465 415 001 | Foot                  |              |                       |
| A7   | 1   | 0465 331 001 | Rubber mat            |              |                       |
| A9   | 4   |              | Washer BRB            | 12×6.4×1.5   |                       |
| A10  | 4   |              | Screw IN6             | M6×30        |                       |
| A11  | 1   | 0194 069 003 | Grommet               | D 37 mm      |                       |
| A12  | 18  |              | Screw MRT             | M16×16 black |                       |
| A14  | 3   |              | Screw RX-PT           | 8 -16×20     |                       |
| A15  | 4   |              | Screw RTS             | ST3.5, 5×9,5 |                       |
| A16  | 2   |              | Screw REMFORM<br>TORX | 5×16         |                       |
| A17  | 2   |              | Screw MRT             | M3×8         |                       |



**B Power module Warrior 400i and 500i, 380 - 460 V**

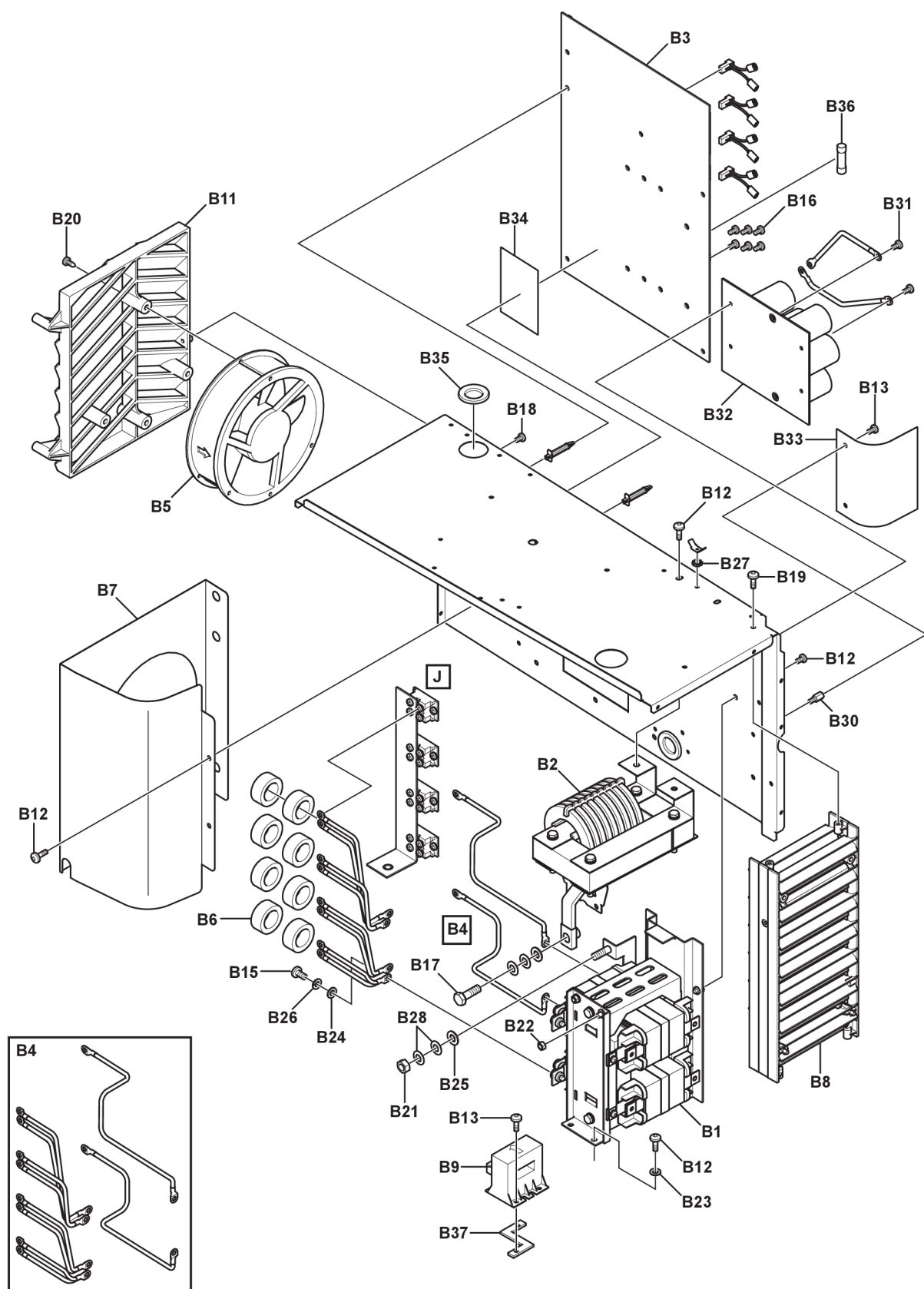
| Item | Qty | Ordering no. | Denomination                | Notes                            | Component designation |
|------|-----|--------------|-----------------------------|----------------------------------|-----------------------|
| B1   | 1   | 0465 302 880 | Transformer, complete       | Warrior 400i and 500i, 380-460V  | 15T1                  |
| B2   | 1   | 0465 311 880 | Inductor, complete          |                                  | 15L1                  |
| B3   | 1   | 0440 003 886 | PCBA Power board            | Same circuit board for all units | 15AP1                 |
| B4   | 1   | 0465 287 880 | Secondary rectifier harness |                                  |                       |
| B5   | 1   | 0465 344 001 | Fan                         |                                  | 15EV1                 |
| B6   | 8   | 0455 569 006 | Ferrite ring core           | Core torodial amorphous          | 15L2 to 15L9          |
| B7   | 1   | 0465 487 003 | Air baffle fan              |                                  |                       |
| B8   | 1   | 0465 367 880 | Louver front IP, Assembly   |                                  |                       |
| B9   | 1   | 0458 063 001 | Current sensor              | 500 A                            | 15CS1                 |
| B11  | 1   | 0465 332 001 | Fan louver bracket          |                                  |                       |
| B12  | 19  |              | Screw MRT                   | M5×8, DIN7985                    |                       |
| B13  | 5   |              | Screw MRT                   | M4×8, DIN7985                    |                       |
| B14  | 4   |              | Screw MRT                   | M5×12, DiN7985                   |                       |
| B15  | 4   |              | Screw                       |                                  |                       |
| B16  | 6   |              | Screw MRT COMBI             | M6×16                            |                       |
| B17  | 2   |              | Screw M6S                   | M8×25                            |                       |
| B18  | 1   |              | Screw Remform TORX          | M5×16                            |                       |
| B19  | 5   |              | Screw RTS                   | ST4, 2×13                        |                       |
| B20  | 4   |              | Screw RTS                   | ST4, 8×13                        |                       |
| B21  | 1   |              | Nut                         | M8-8-A2K                         |                       |
| B22  | 1   |              | Nut                         | M5-8-A2K                         |                       |
| B23  | 4   |              | Washer BRB Steel            | D10/5, 3×1                       |                       |
| B24  | 4   |              | Washer BRB                  | 12×6, 4×1.5                      |                       |
| B25  | 2   |              | Washer BRB                  | 16/8, 4×1.5                      |                       |
| B26  | 4   |              | Spring washer FBH           | D11.8/6                          |                       |
| B27  | 1   |              | Locking washer AZ           | D10/5.3                          |                       |
| B28  | 4   |              | Cup spring 16               | 16×8.2 T=0.9                     |                       |
| B29  | 6   |              | Spacer                      | 28.6 mm                          |                       |
| B30  | 7   |              | Spacer screw                | M4×15                            |                       |
| B31  | 13  |              | Screw MRT COMBI             | M5×10                            |                       |
| B32  | 1   | 0440 046 880 | PCBA capacitor board        |                                  | 15AP2                 |
| B33  | 1   | 0465 450 001 | Cap board insulation        |                                  |                       |



SPARE PARTS

---

| Item | Qty | Ordering no. | Denomination                  | Notes         | Component designation |
|------|-----|--------------|-------------------------------|---------------|-----------------------|
| B34  | 1   | 0465 496 001 | Thermal protection insulation |               |                       |
| B35  | 4   | 0194 069 002 | Grommet                       | D 28 mm       |                       |
| B36  | 1   | 0194 399 120 | Fuse                          | 600 V, 5 A S3 |                       |
| B37  | 1   | 0465 588 001 | Current sensor distance       |               |                       |



**C User interface Warrior 400i and 500i**

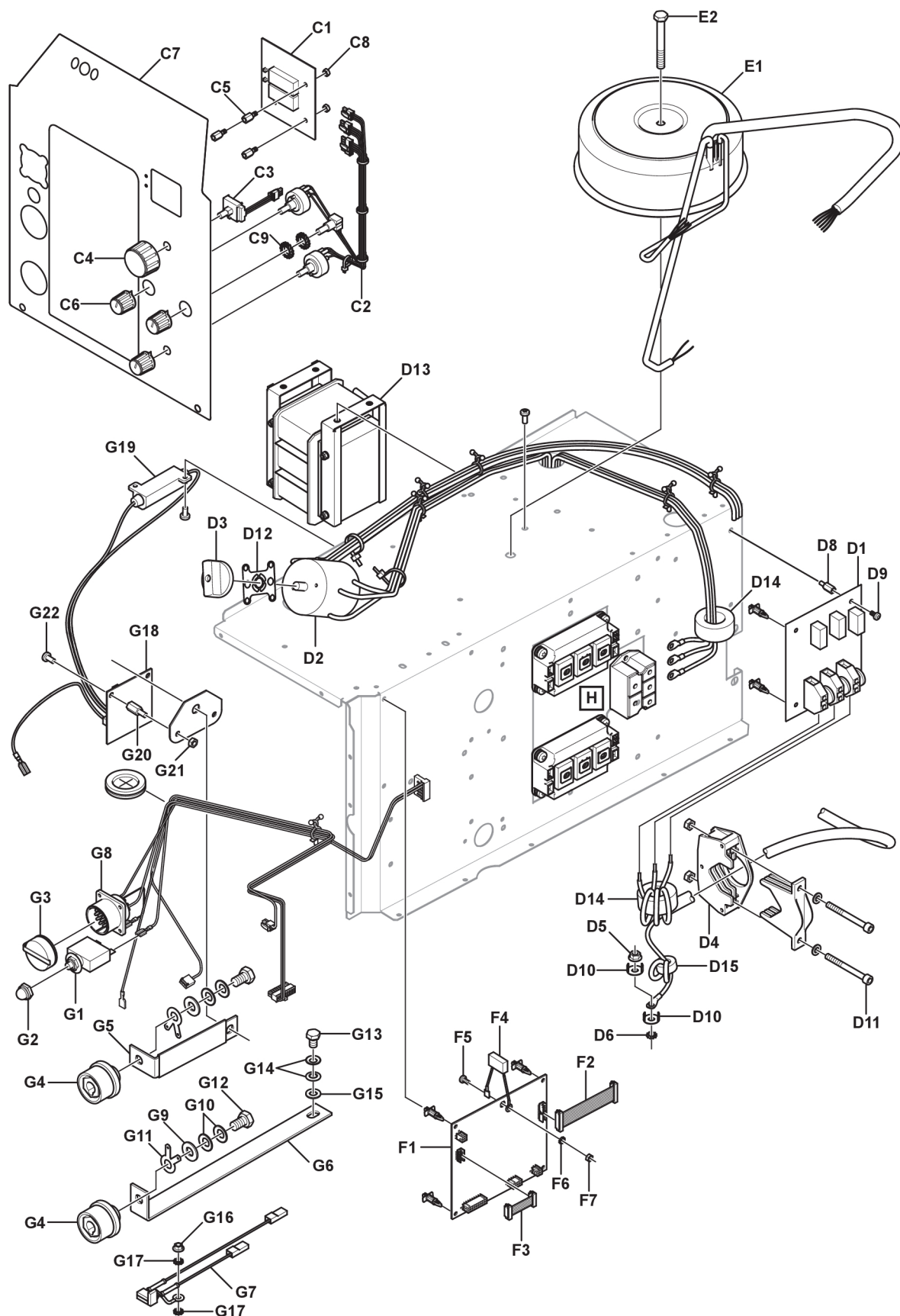
| Item | Qty | Ordering no. | Denomination               | Notes    | Component designation |
|------|-----|--------------|----------------------------|----------|-----------------------|
| C1   | 1   | 0440 008 880 | PCBA display board         |          | 1AP1                  |
| C2   | 1   | 0465 326 880 | User interface harness PS1 |          |                       |
| C3   | 1   | 0465 327 880 | Encoder assembly           |          | 1G1                   |
| C4   | 1   | 0321 475 893 | Knob                       | D36-1/4" |                       |
| C5   | 3   |              | Spacer screw               | M4×12    |                       |
| C6   | 3   | 0321 475 881 | Knob                       |          |                       |
| C7   | 1   | 0465 414 001 | Front decal                | W 500i   |                       |
| C7   | 1   | 0465 413 001 | Front decal                | W 400i   |                       |
| C8   | 3   |              | Nut M6M 4                  |          |                       |
| C9   | 2   |              | Locking washer             | 10, 5×18 |                       |
| C10  | 3   |              | Spacer screw               | M4×5     |                       |

**D Mains module Warrior 400i and 500i, 380 - 460V**

| Item | Qty | Ordering no. | Denomination          | Notes           | Component designation |
|------|-----|--------------|-----------------------|-----------------|-----------------------|
| D1   | 1   | 0440 018 880 | PCBA mains filter PS1 |                 | 2AP1                  |
| D2   | 1   | 0465 354 001 | Main switch           |                 | 2QF1                  |
| D3   | 1   | 0465 354 002 | Knob for main switch  |                 |                       |
| D4   | 1   | 0469 950 880 | Strain relief         |                 |                       |
| D5   | 1   |              | Nut M6M               | M6              |                       |
| D6   | 1   |              | Washer lock           | 6.4×11 S        |                       |
| D8   | 1   |              | Spacer screw          | M5×18           |                       |
| D9   | 1   |              | Screw MRT             | DIN7985 M4×8    |                       |
| D10  | 2   |              | Washer                | Cable MSG KB6.5 |                       |
| D11  | 2   |              | Screw                 | M6×70           |                       |
| D12  | 1   | 0465 354 003 | Main switch gasket    |                 |                       |
| D13  | 1   | 0460 118 002 | Inductor              |                 |                       |
| D14  | 2   | 0194 034 003 | Ring core ferrite     |                 |                       |
| D15  | 1   | 0349 312 063 | Ring core ferrite     |                 |                       |

**E IPS module Warrior 400i and 500i, 380 - 460V**

| Item | Qty | Ordering no. | Denomination          | Notes                      | Component designation |
|------|-----|--------------|-----------------------|----------------------------|-----------------------|
| E1   | 1   | 0465 323 001 | Auxiliary transformer | W 400i & W 500i, 380-460 V | 2T1                   |
| E2   | 1   |              | Screw M6S             | M8×65                      |                       |

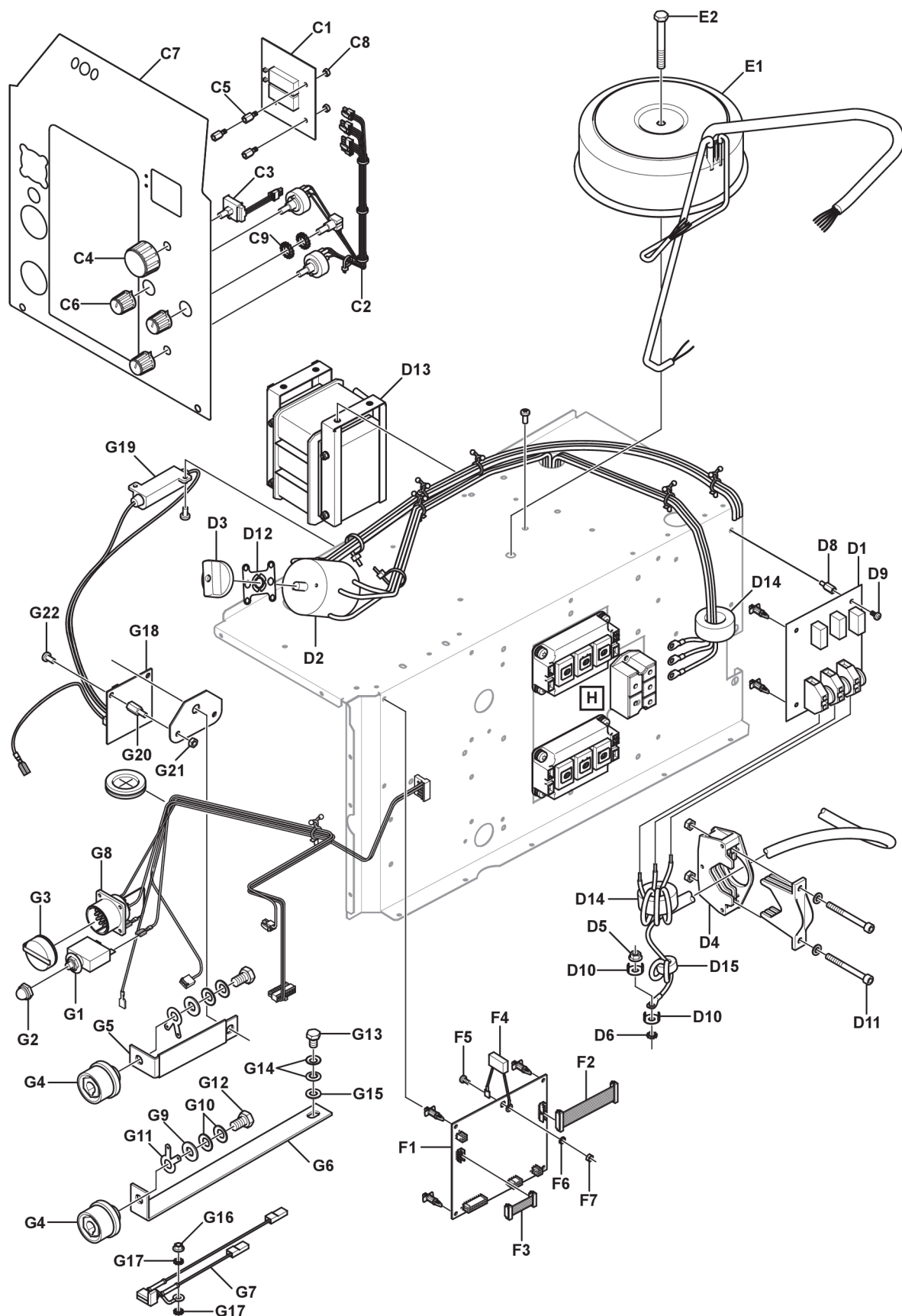


**F Control module Warrior 400i and 500i**

| Item | Qty | Ordering no. | Denomination           | Notes        | Component designation |
|------|-----|--------------|------------------------|--------------|-----------------------|
| F1   | 1   | 0487 969 882 | PC board control VRD   | 400 A        | 20AP1                 |
| F1   | 1   | 0487 969 883 | PC board control VRD   | 500 A        | 20AP1                 |
| F2   | 1   | 0465 329 880 | Flat cable w connector | 20-pol       | 7001                  |
| F3   | 1   | 0465 349 880 | Flat cable w connector | 12-pol       | 7002                  |
| F4   | 1   | 0467 911 888 | Capacitor              |              | 20C1                  |
| F5   | 1   |              | Screw MRT              | DIN7985 M4×8 |                       |
| F6   | 1   |              | Washer lock AZ         | 4.3×8 ST     |                       |
| F7   | 1   |              | Nut M6M 4              |              |                       |

**G Secondary connection Warrior 400i and 500i**

| Item | Qty | Ordering no. | Denomination        | Notes                                  | Component designation |
|------|-----|--------------|---------------------|----------------------------------------|-----------------------|
| G1   | 1   | 0193 586 102 | Automatic fuse      | 10 A                                   | 15FU1                 |
| G2   | 1   | 0455 376 001 | Protection cap      |                                        |                       |
| G3   | 1   | 0465 501 001 | Protection cap      |                                        |                       |
| G4   | 2   | 0160 362 881 | Machine contact OKC | 50 mm <sup>2</sup>                     | XS1, XS2              |
| G5   | 1   | 0465 309 001 | Rail                | Inductor to OKC                        |                       |
| G6   | 1   | 0465 307 001 | Rail                | Sec diodes to OKC                      |                       |
| G7   | 1   | 0463 082 880 | Capacitor, complete |                                        |                       |
| G8   | 1   | 0538 500 204 | Sleeve contact      |                                        |                       |
| G9   | 2   |              | Washer BRB          |                                        |                       |
| G10  | 4   |              | Cup spring          | 20/10.2 T=1.1                          |                       |
| G11  | 3   |              | Flat pin connector  | M10 6.3×0.8                            |                       |
| G12  | 2   |              | Screw M6S           | M10×16                                 |                       |
| G13  | 1   |              | Screw M6S           | M8×12                                  |                       |
| G14  | 2   |              | Cup spring          | 16×8.2 T=0.9                           |                       |
| G15  | 1   |              | Washer BRB          | 16/8, 4×1.5                            |                       |
| G16  | 1   |              | Nut M6MF-8          | FZB M5                                 |                       |
| G17  | 2   |              | Washer lock         | D10/5.3                                |                       |
| G18  | 1   |              | Filter board        |                                        | 15AP3                 |
| G19  | 1   |              | Resistor            | 50 W                                   | 15R1                  |
| G20  | 2   |              | Distance screw      | M4×19                                  |                       |
| G21  | 2   |              | Nut                 | M4                                     |                       |
| G22  | 2   |              | Screw               | M4×8                                   |                       |
| G23  | 1   | 0465 606 880 | VRD Kit             | Consists of G18, G19, G20, G21 and G22 |                       |

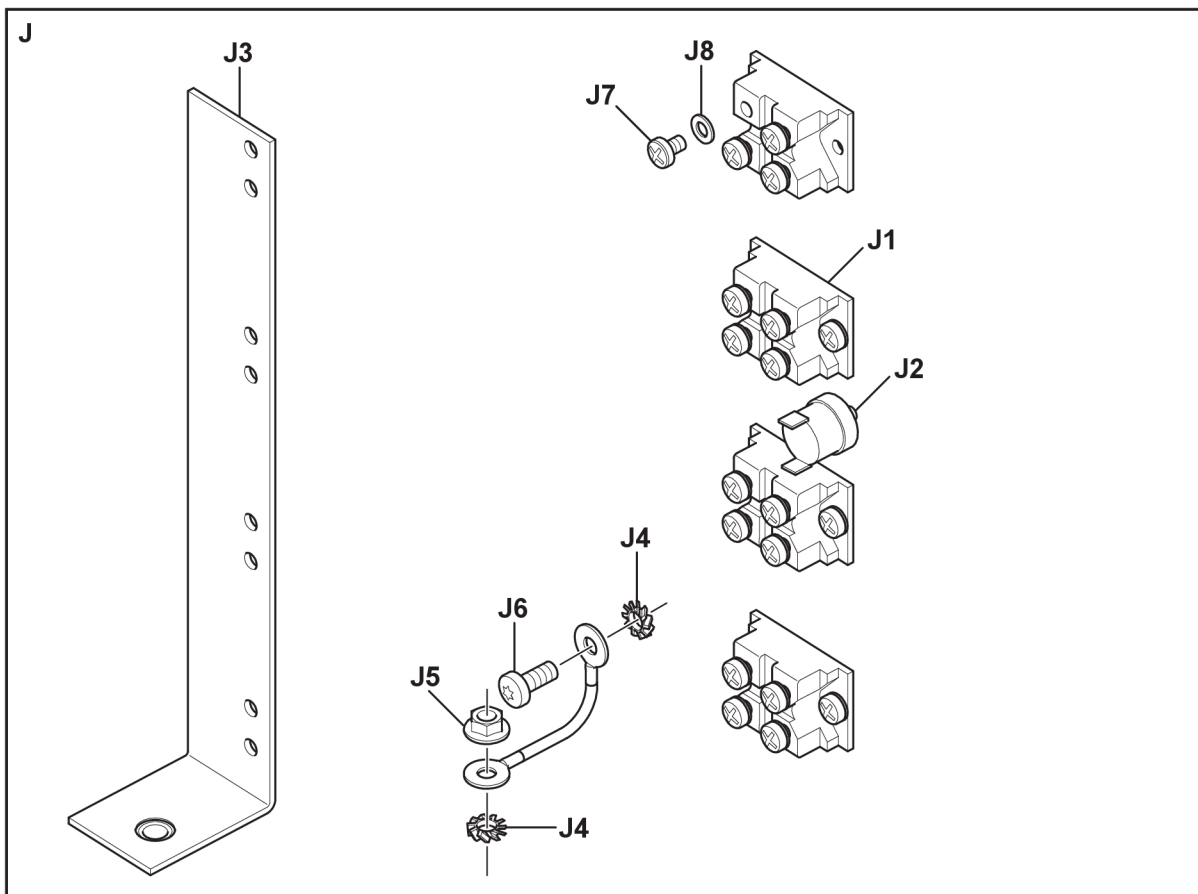
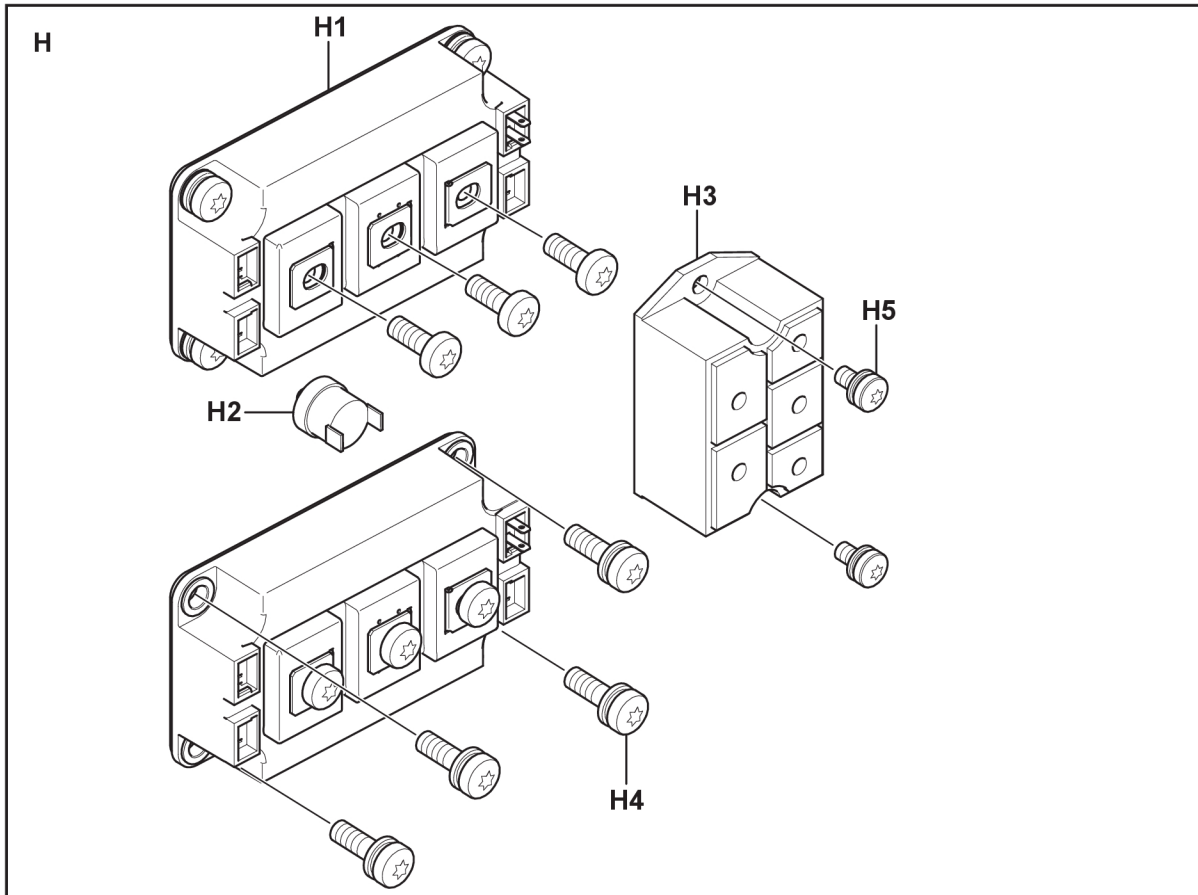


## H Primary inverter

| Item | Qty | Ordering no. | Denomination    | Notes                                                                                           | Component designation |
|------|-----|--------------|-----------------|-------------------------------------------------------------------------------------------------|-----------------------|
| H1   | 1   | 0464 503 880 | IGBT module set | Includes 2 IGBT modules, 1 thermal protection insulation, 1 thermal compound and 8 screws M6×20 | 15PM1, 15PM2          |
| H2   | 1   | 0467 864 006 | Thermostat      |                                                                                                 | 15ST2                 |
| H3   | 1   | 0464 504 880 | Rectifier set   | Includes 1 rectifier bridge, 1 thermal compound and 2 screws M5×12                              | 15BR1                 |
| H4   | 8   |              | Screw MRT COMBI | M6×20                                                                                           |                       |
| H5   | 2   |              | Screw MRT COMBI | M5×12                                                                                           |                       |

## J Secondary rectifier

| Item | Qty | Ordering no. | Denomination     | Notes                                                                           | Component designation |
|------|-----|--------------|------------------|---------------------------------------------------------------------------------|-----------------------|
| J1   | 1   | 0464 505 880 | Diode set        | Includes 4 diodes, 1 thermal compound, 8 screws M4×8 and 8 cup springs D8/4×0.4 | 15PM3 to 15PM6        |
| J2   | 1   | 0467 864 006 | Thermostat       |                                                                                 | 15ST3                 |
| J3   | 1   | 0465 308 001 | Rail, sec diodes |                                                                                 |                       |
| J4   | 2   |              | Washer lock      | D10/5.3                                                                         |                       |
| J5   | 1   |              | Nut M6MF-8       | M5                                                                              |                       |
| J6   | 1   |              | Screw MRT        | DIN7985 M5×8                                                                    |                       |
| J7   | 8   |              | Screw MRT        | DIN7985 M4×8                                                                    |                       |
| J8   | 8   |              | Cup spring       | D8/4×0.4                                                                        |                       |



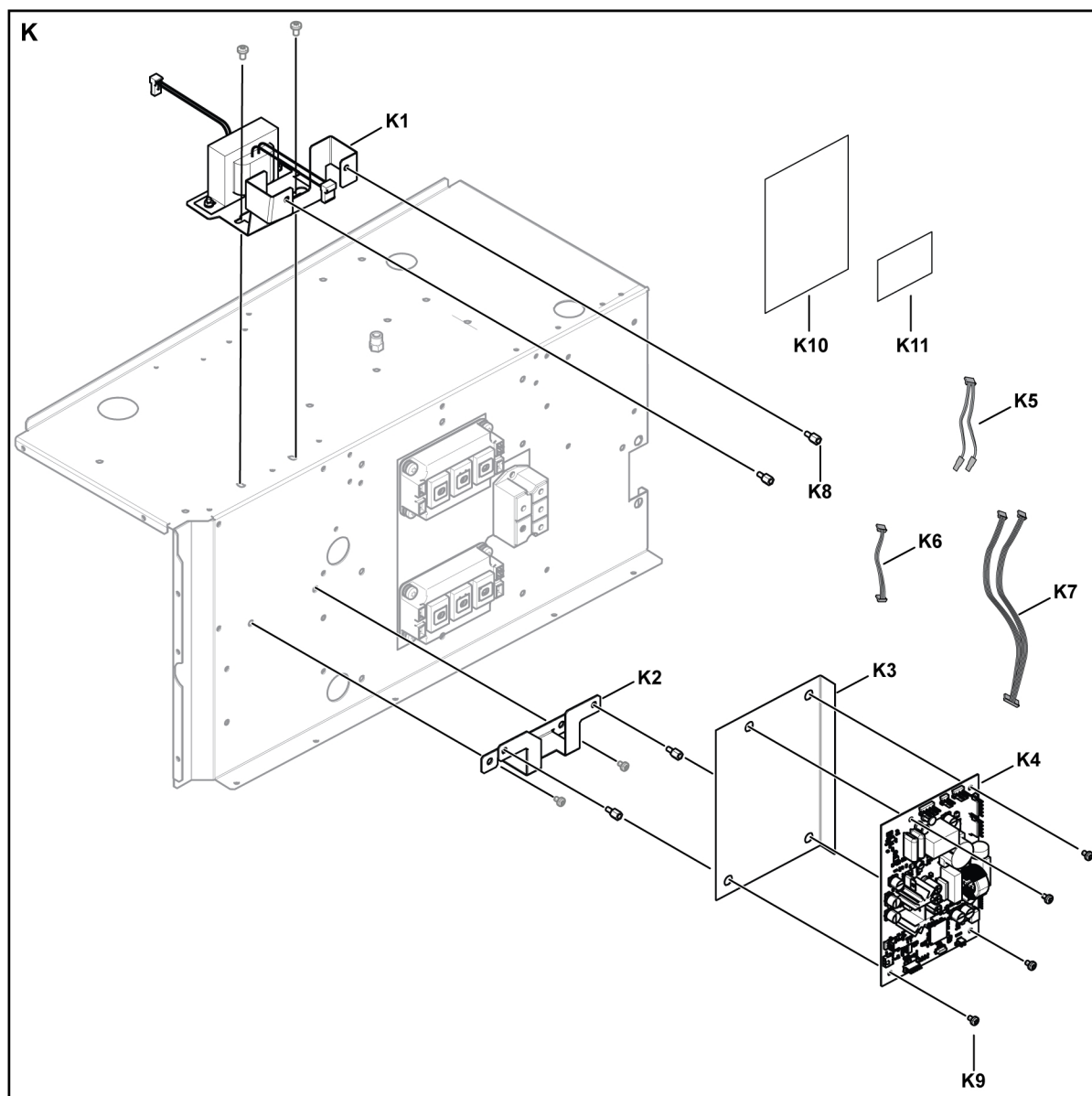
**K Warrior™ 400i / 500i upgrade kit for AVS ECHO (only applicable for CE variants, 0465 350 883, 0465 350 884)**  
**Warrior™ 500i ECHO CC/CV (in-built assembly - 0448 550 880)**

| Item | Qty | Ordering no. | Denomination                     | Notes                                                                                                | Component designation |
|------|-----|--------------|----------------------------------|------------------------------------------------------------------------------------------------------|-----------------------|
| K1   | 1   | A000 100 260 | Transformer complete             | Includes top mounting bracket, see item 101.                                                         |                       |
| K2   | 1   | 0448 104 880 | Bottom mounting bracket assembly | See item 101.                                                                                        |                       |
| K3   | 1   | A000 100 262 | Transceiver PCBA nomex sheet     | See item 101.                                                                                        |                       |
| K4   | 1   | 0440 724 880 | Transceiver board                | See item 101.                                                                                        | 20AP2                 |
| K5   | 1   | 0448 106 880 | OKC terminal harness             | Connection between CN6 control board (20AP1) to XS1(+) and XS2(-) OKC terminals, see item 101.       |                       |
| K6   | 1   | 0448 108 880 | Power board harness              | Connection between CN2 power board (15AP1) to CN4 transceiver board (20AP2), see item 101.           |                       |
| K7   | 1   | 0448 110 880 | Control board harness            | Connection between CN10 and CN25 power board (15AP1) to CN1 transceiver board (20AP2), see item 101. |                       |
| K8   | 4   | 0394 516 017 | Spacer, M4×8                     | See item 101.                                                                                        |                       |
| K9   | 4   |              | Screw, M4×6                      | See item 101.                                                                                        |                       |
| K10  | 1   |              | Installation guide               | Except 0448 550 880, see item 101.                                                                   |                       |
| K11  | 1   |              | Label with product information   | Stick the label as per service manual, except 0448 550 880, see item 101.                            |                       |
| K12  | 1   | A000 100 658 | Software upgrade kit             | Includes software upgrade instruction, see item 101.                                                 |                       |

| Item | Qty | Ordering no. | Denomination                                  | Notes                                                                                                                |
|------|-----|--------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 101  | 1   | 0448 101 880 | Warrior™ 400i / 500i upgrade kit for AVS ECHO | Including item K1 to K12. (for Warrior™ 500i ECHO CC/CC, the items mentioned above will be as an in-built assembly). |

\* To install Warrior™ 400i / 500i upgrade kit, refer Warrior™ 400i / 500i service manual (0740 800 221).

\*In the Warrior™ 500i ECHO CC/CV, the items included in the Warrior upgrade kit are integrated into the in-built assembly.





# A WORLD OF PRODUCTS AND SOLUTIONS.



For contact information visit [esab.com](http://esab.com)

ESAB AB, Lindholmsallén 9, Box 8004, 402 77 Gothenburg, Sweden, Phone +46 (0) 31 50 90 00

[manuals.esab.com](http://manuals.esab.com)

