

SPRINTER® 160S / 180S

Spare Parts.....	1
Figure A: Machine Assembly	2
Figure B: Inside Machine Assembly	3
Figure C: Front Assembly	4
Electrical Schematic	5
CODE: 50716, 50717, 50718, 50719.....	5



Lincoln Electric Bester Sp. z o.o.
ul. Jana III Sobieskiego 19A, 58-260 Bielawa, Poland
www.lincolnelectric.eu

Spare Parts

SP50716, SP50717 SP50718, SP50719 REV01
03/2025

ASSEMBLY PAGE NAME			Machine Assembly	Machine Assembly	Machine Assembly	Miscellaneous Items		
CODE NO.:	K NO.:	FIGURE NO.:	A	B	C	-		
50716	K14436-1	SPRINTER® 160S	1	1	1	1		
50717	K14436-1-P	SPRINTER® 160S PACK	2	2	2	2		
50718	K14437-1	SPRINTER® 180S	3	3	3	3		
50719	K14437-1-P	SPRINTER® 180S PACK	4	4	4	4		

*items highlighted in bold are recommended spare parts.

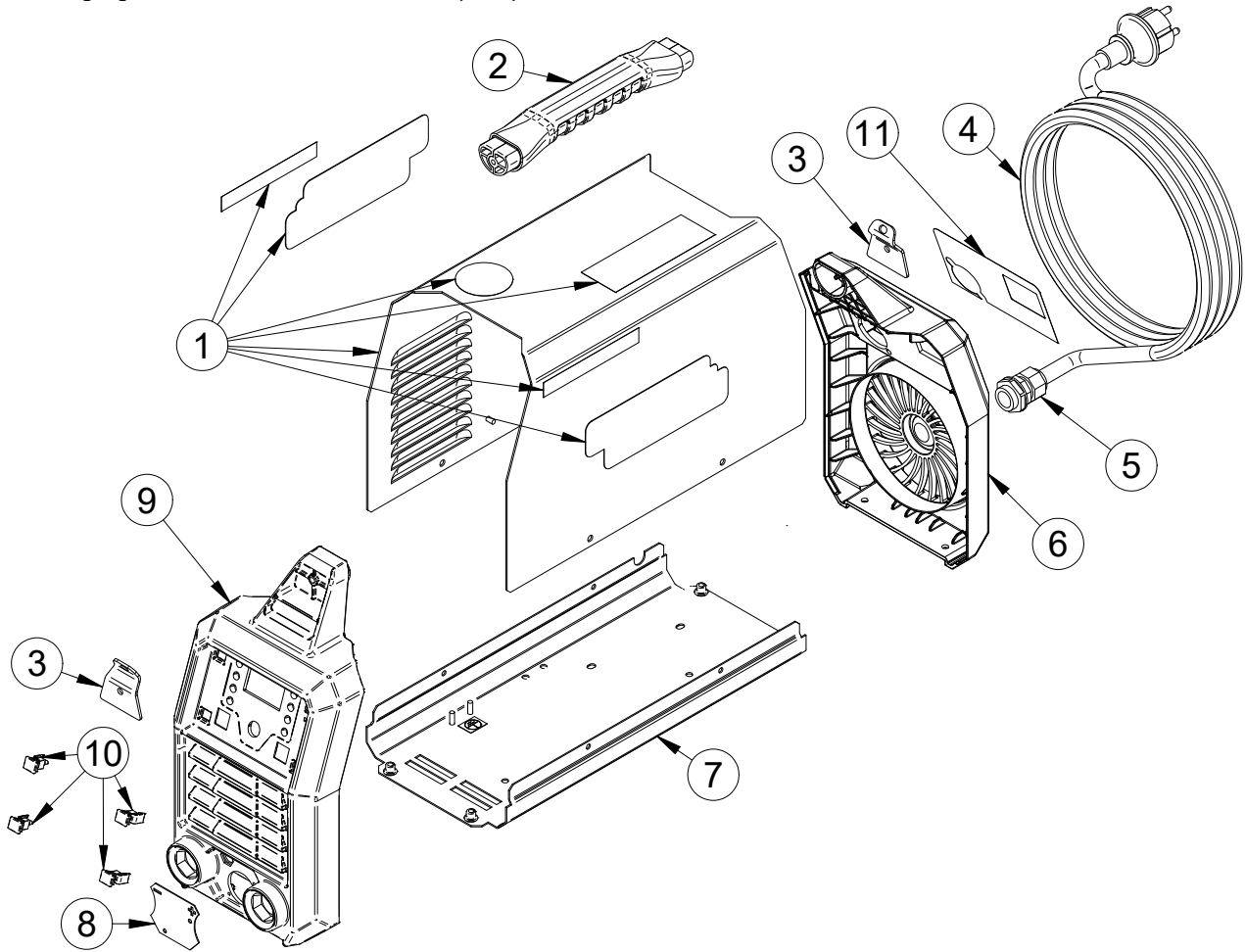


Figure A

Figure A: Machine Assembly

Item	Description	Part Number	QTY	1	2	3	4	5	6	7
1	COVER KIT:	T-8040-247-1R	1	X	X	X	X			
	SPRINTER SIDE LABEL		2	X	X	X	X			
	LINCOLN ELECTRIC LABEL		2	X	X	X	X			
	WARNING LABEL		1	X	X	X	X			
	LABEL 3 YEAR WARRANTY		1	X	X	X	X			
	COVER ASSEMBLY		1	X	X	X	X			
2	OVERMOLDED HANDLE ASBLY	9SM29732	1	X	X	X	X			
3	HANDLE	R-1019-780-1R	2	X	X	X	X			
4	POWER CABLE WITH PLUG	R-0000-455-1R	1	X	X	X	X			
5	STUFFING BOX	1131-154-003R	1	X	X	X	X			
6	REAR CASE	R-0000-457-1R	1	X	X	X	X			
7	BASE ASSEMBLY	R-3019-808-1R	1	X	X	X	X			
8	PLATE	R-1019-774-1R	1	X	X	X	X			
9	FRONT CASE	R-0000-456-1R	1	X	X	X	X			
10	PCB STANDOFF	1119-510-152R	4	X	X	X	X			
11	REAR LABEL SPRINTER	R-0000-450-1R	1	X	X	X	X			

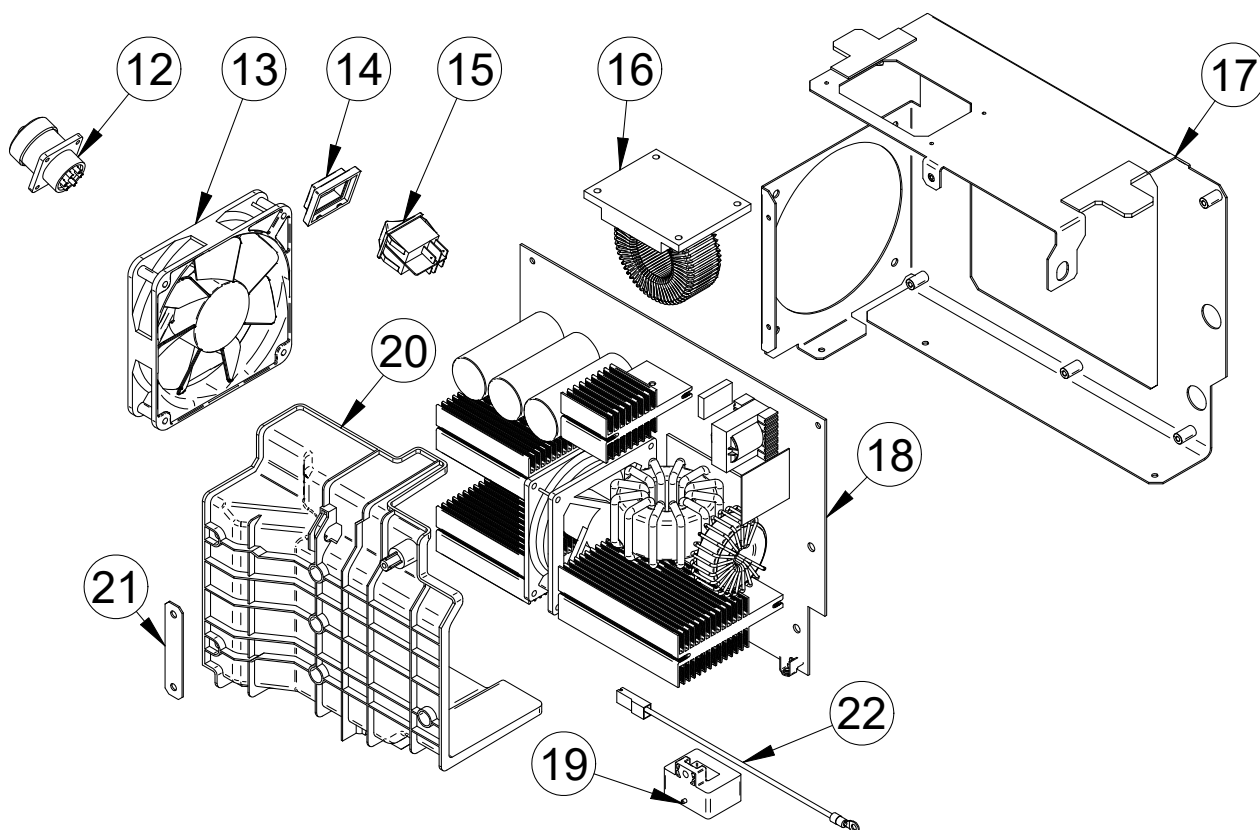


Figure B

Figure B: Inside Machine Assembly

Item	Description	Part Number	QTY	1	2	3	4	5	6	7
12	6-PIN CONNECTOR	S35730-1-2	1	X	X	X	X			
13	FAN	S35730-1-9	1	X	X	X	X			
14	WATERPROOF CAP	1115-299-225R	1	X	X	X	X			
15	INTERRUTTORE BIPO.16A LUMI. VE	035038041R	1	X	X	X	X			
16	PFC INDUCTOR	S35730-1-7	1	X	X	X	X			
17	CENTER PANEL	S35730-1-6	1	X	X	X	X			
18	INVERTER BOARD	S35732-1-4	1	X	X	X	X			
19	LEM SENSOR	S35730-1-3	1	X	X	X	X			
20	PLASTIC AIR CHANNEL	S35730-1-5	1	X	X	X	X			
21	CENTER PANEL	S35730-1-6	1	X	X	X	X			
22	CABLE	R-5041-465-1R	1	X	X	X	X			

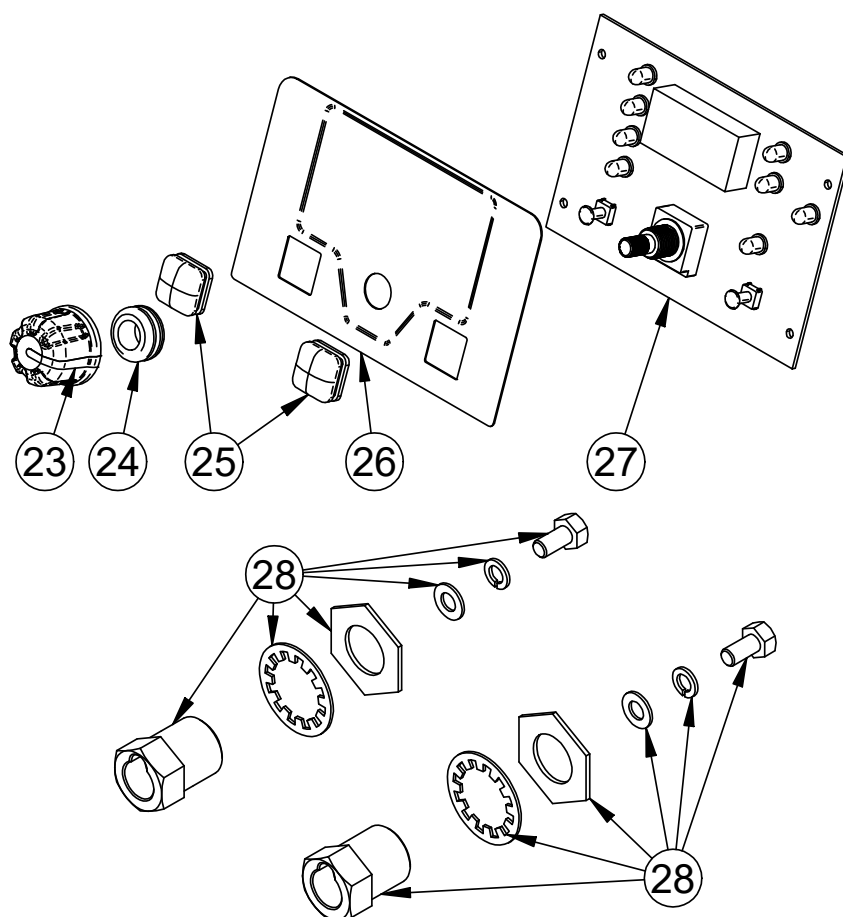


Figure C

Figure C: Front Assembly

Item	Description	Part Number	QTY	1	2	3	4	5	6	7
23	KNOB 1.0"	9SM22778-1	1	X	X	X	X			
24	PVC GROMMET	1373-111-337R	1	X	X	X	X			
25	BUTTON COVER	9SS23055-1	2	X	X	X	X			
26	FRONT LABEL	R-0000-447-1R	1	X	X					
26	FRONT LABEL	R-0000-447-2R	1			X	X			
27	DISPLAY PCB	S35732-1-10	1			X	X			
27	DISPLAY PCB	S35731-1-10	1	X	X					
28	SOCKET ASSEMBLY	T-8040-248-1R	2	X	X	X	X			

CODE: 50716, 50717, 50718, 50719

The schematic diagram illustrates a 100W LED driver circuit. The input is AC (K1 AC 120-230V/50/60Hz) which is transformed and rectified. The rectified output is connected to a PFC (Power Factor Correction) stage, which includes an IGBT (Insulated Gate Bipolar Transistor) and a MOSFET (Metal-Oxide-Semiconductor Field-Effect Transistor). The PFC stage is followed by a boost converter stage, which also includes an IGBT and a MOSFET. The output of the boost converter is connected to a 12V LED load. The circuit is controlled by a microcontroller (MCU) which is connected to the PFC and boost converter stages. The output of the LED driver is labeled OUT+ and OUT-.