

Service Manual

VACUUM CLEANER

Model : RCC-250F
RCC- 250B
RCC-250S

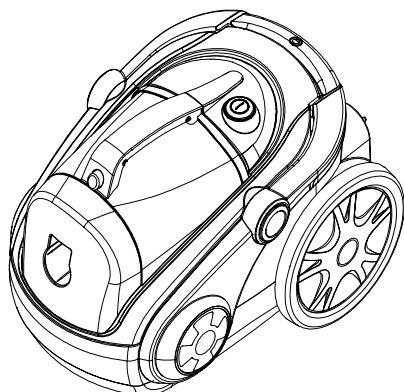
Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center.

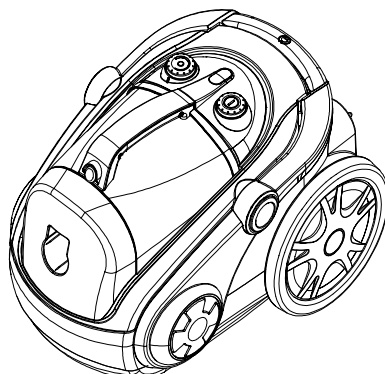
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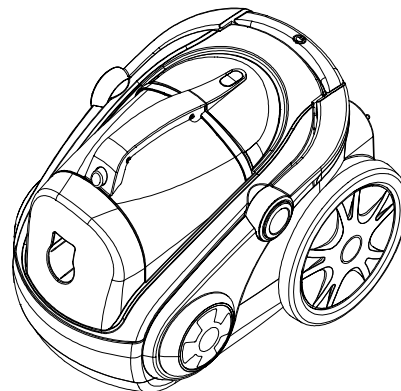
1. Specification



RCC-250F



RCC-250B



RCC-250S

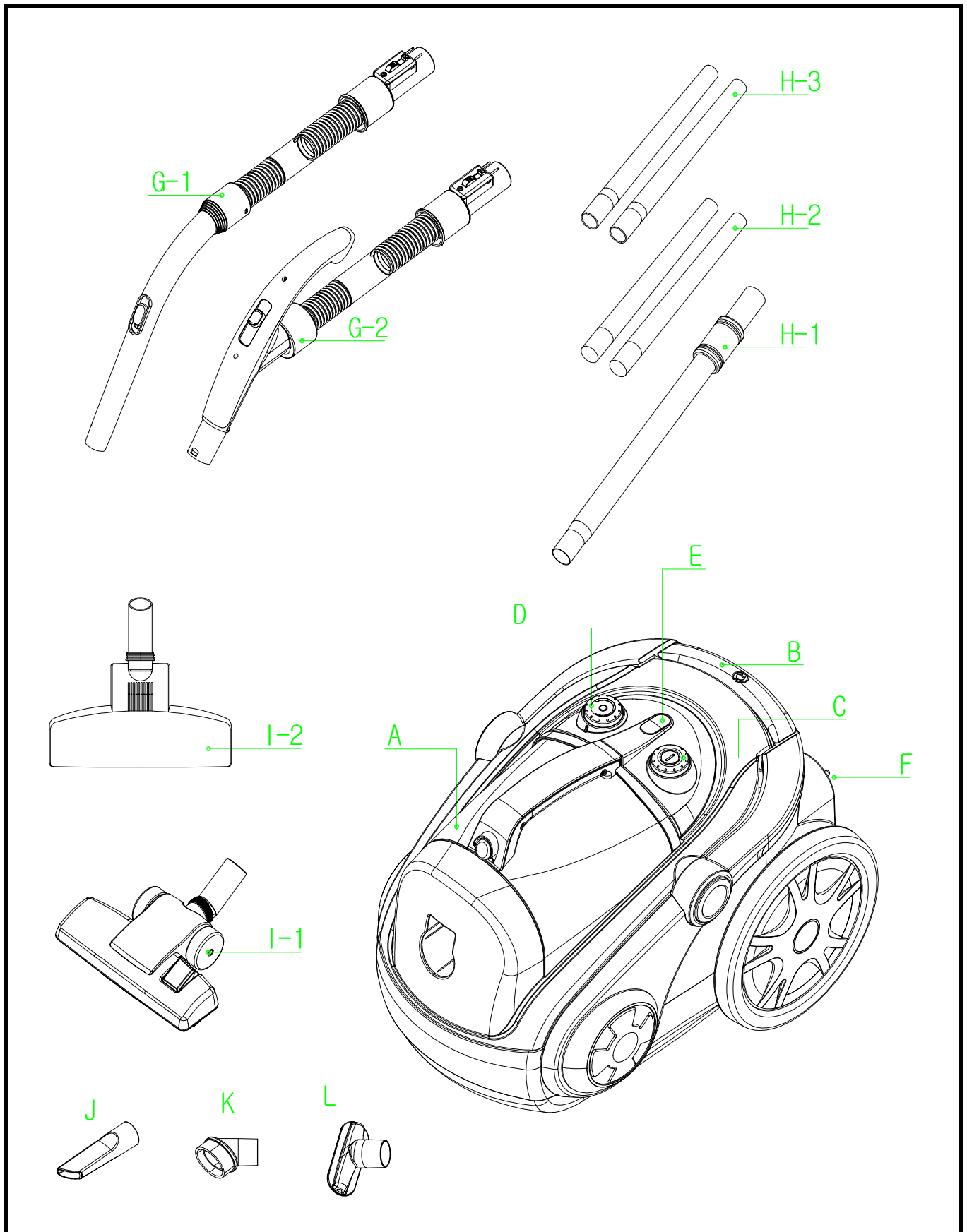
Model Discription	RCC-250F	RCC-250B	RCC-250S
Rated Voltage	Europe 230~240V		
Frequency	50 ~ 60 Hz		
Input Wattage	Max.1400 ~ 1800W		
Dimension (LxHxD)	486 X 240 X 319 mm		
Cord Length	6 m		
Inner Filter	Mirco Filter	HEPA Filter	
Exhaust Filter	Micro Filter	HEPA Filter	
Power Control	Body On/Off	Body Variable	Hose Variable
Full Dust Indicator	None	LED Lighter	LED Lighter
Hose	EVA	EVA	EVA-current
Extension Pipe	2-Plastic Pipe	2-Steel Pipe	One Touch Telescopic
Main Nozzle	Clean Brush	Pedal Brush	
Accessory Nozzle	Crevice Nozzle, Upholstery Nozzle, Dusting Brush		

2. External View

2-1. External Components List

Part Name	Model Name		
	RCC-250F	RCC-250B	RCC-250S
A : Dust Box	0	○	○
B : Main Handle (Cord Rewind Button)	0	○	○
C : On / Off Button	0	○	-
D : Volume Dial	-	○	-
E : Dust Meter (Full Box Indicator - LED)	-	○	○
F : Power Cord	0	○	○
G-1 : Current Hose	-	-	○
G-2 : None Current Hose	0	○	-
H-1 : One Touch Steel Pipe	-	-	○
H-2 : 2-Steel Pipe	-	○	-
H-3 : 2-Plastic Pipe	0	-	○
I-1 : Pedal Brush	0	-	-
I-2 : Clean Brush	-	○	○
J : Crevice Nozzle	0	○	○
K : Dusting Brush	0	○	○
L : Upholstey Nozzle	0	○	○

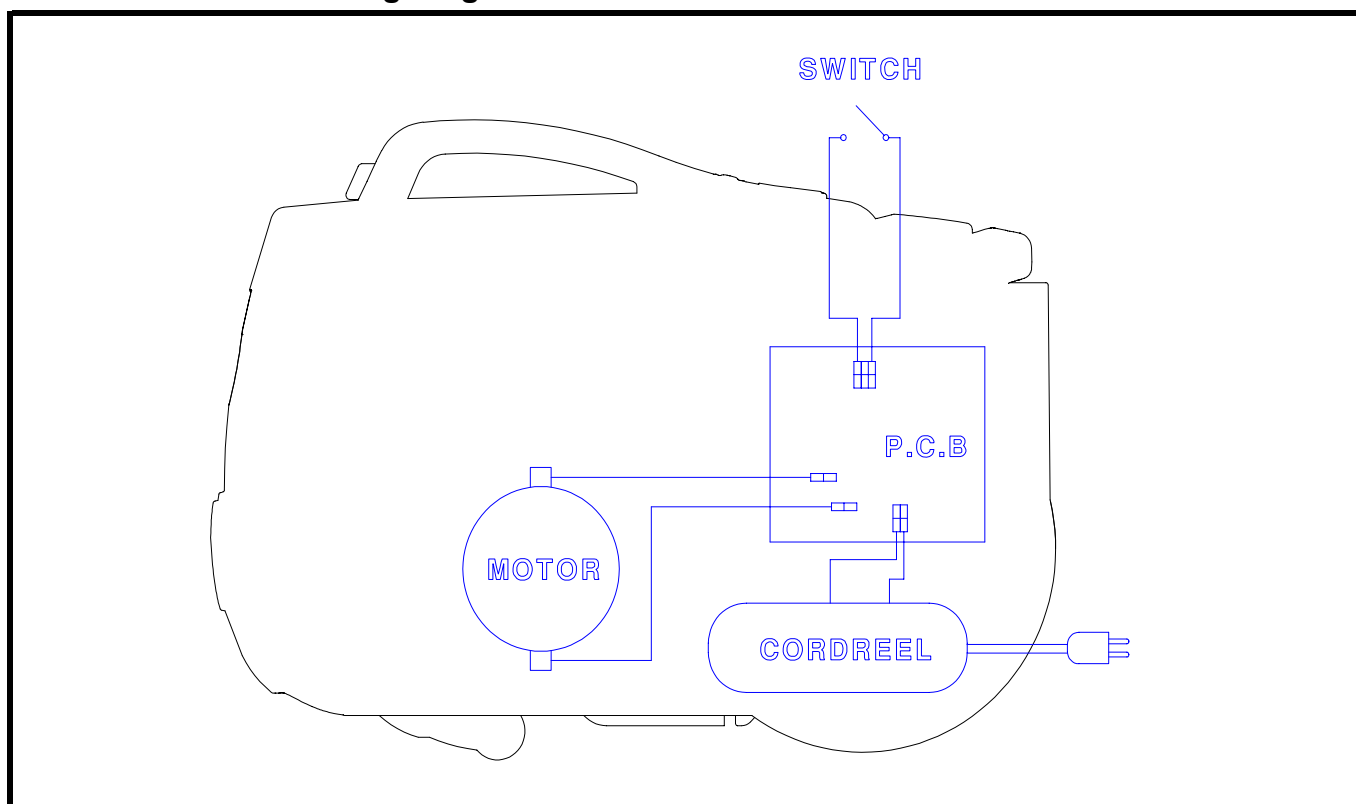
2-2. External Components View



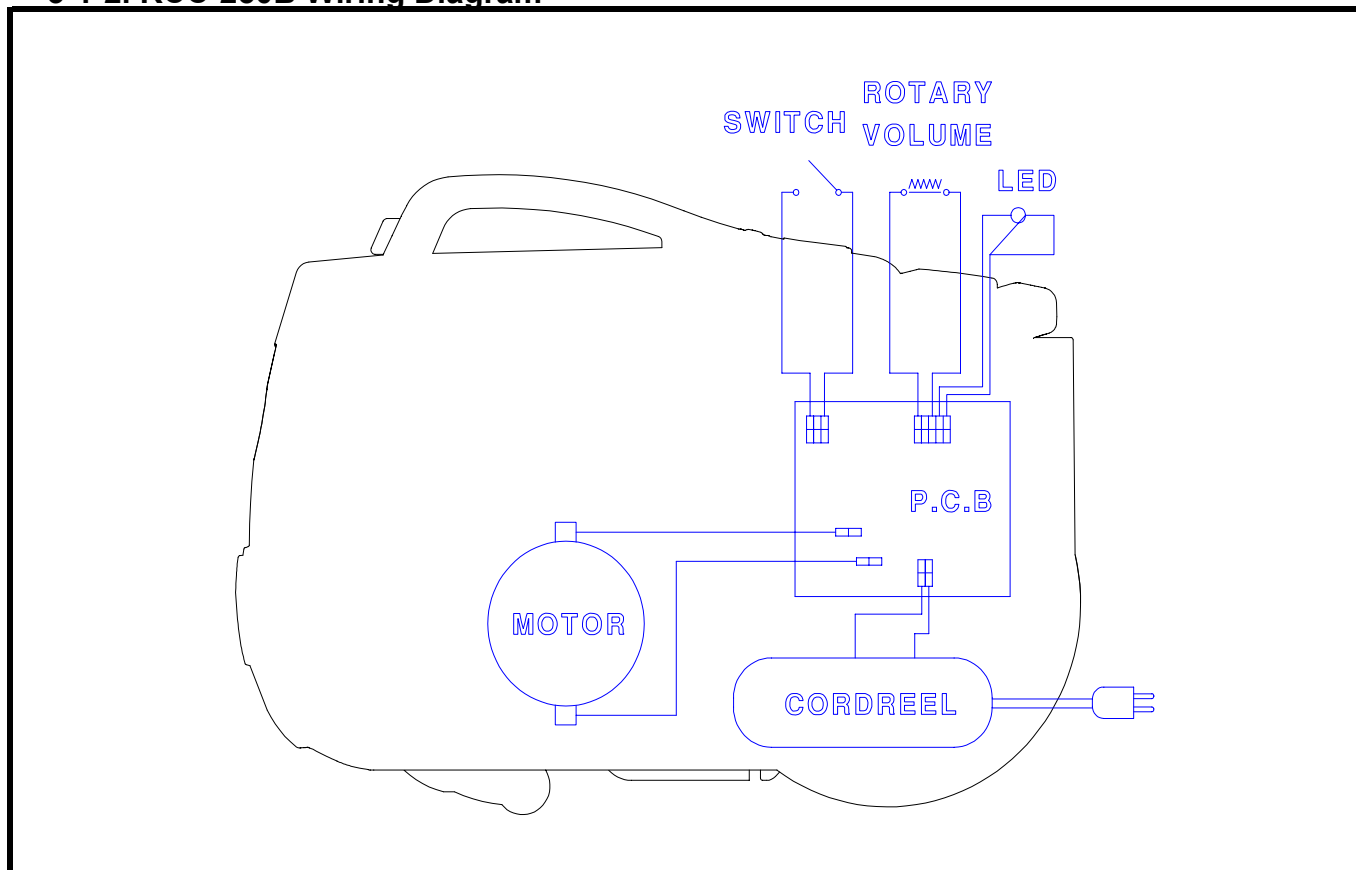
3. Electrical Descriptions

3-1. Wiring Diagram

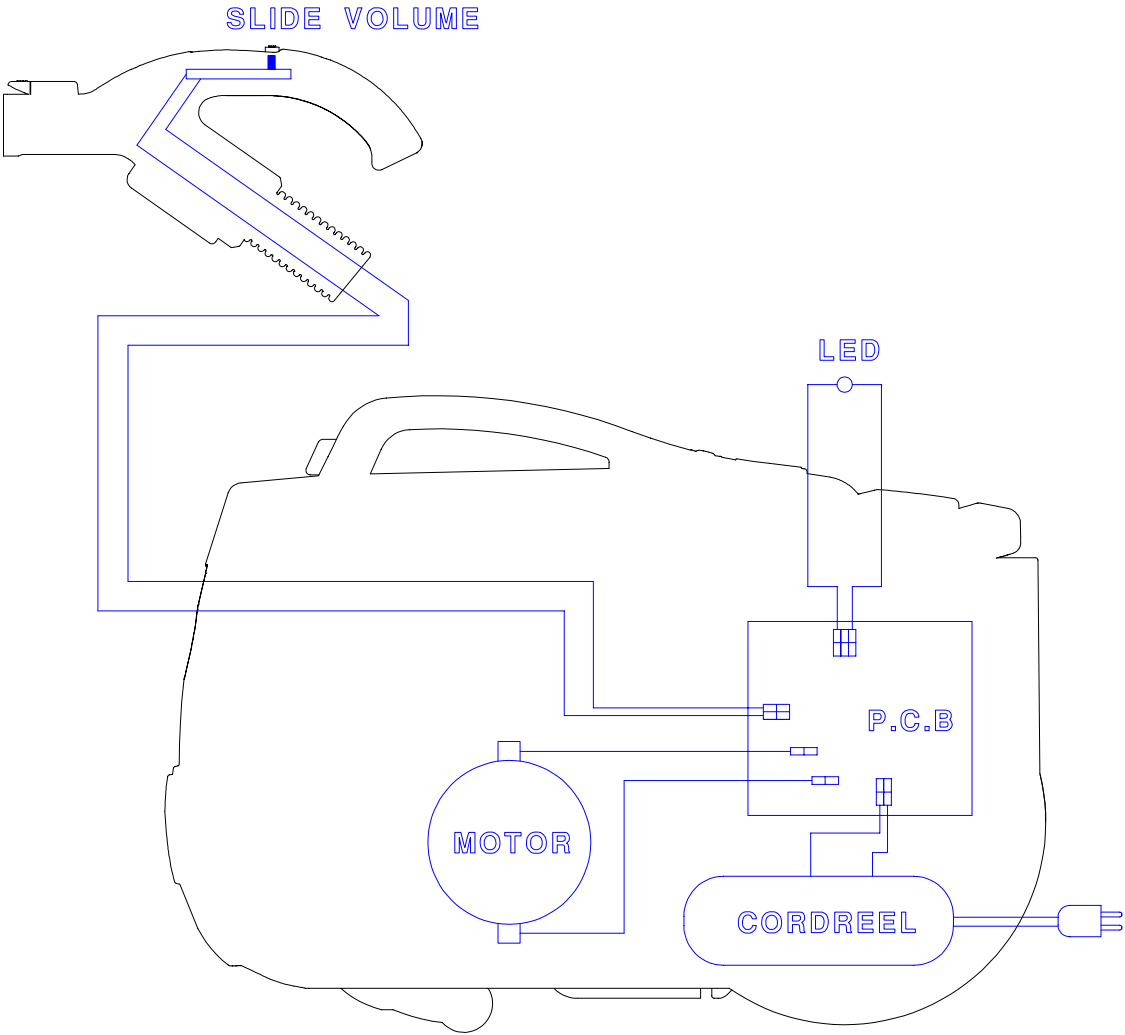
3-1-1. RCC-250F Wiring Diagram



3-1-2. RCC-250B Wiring Diagram

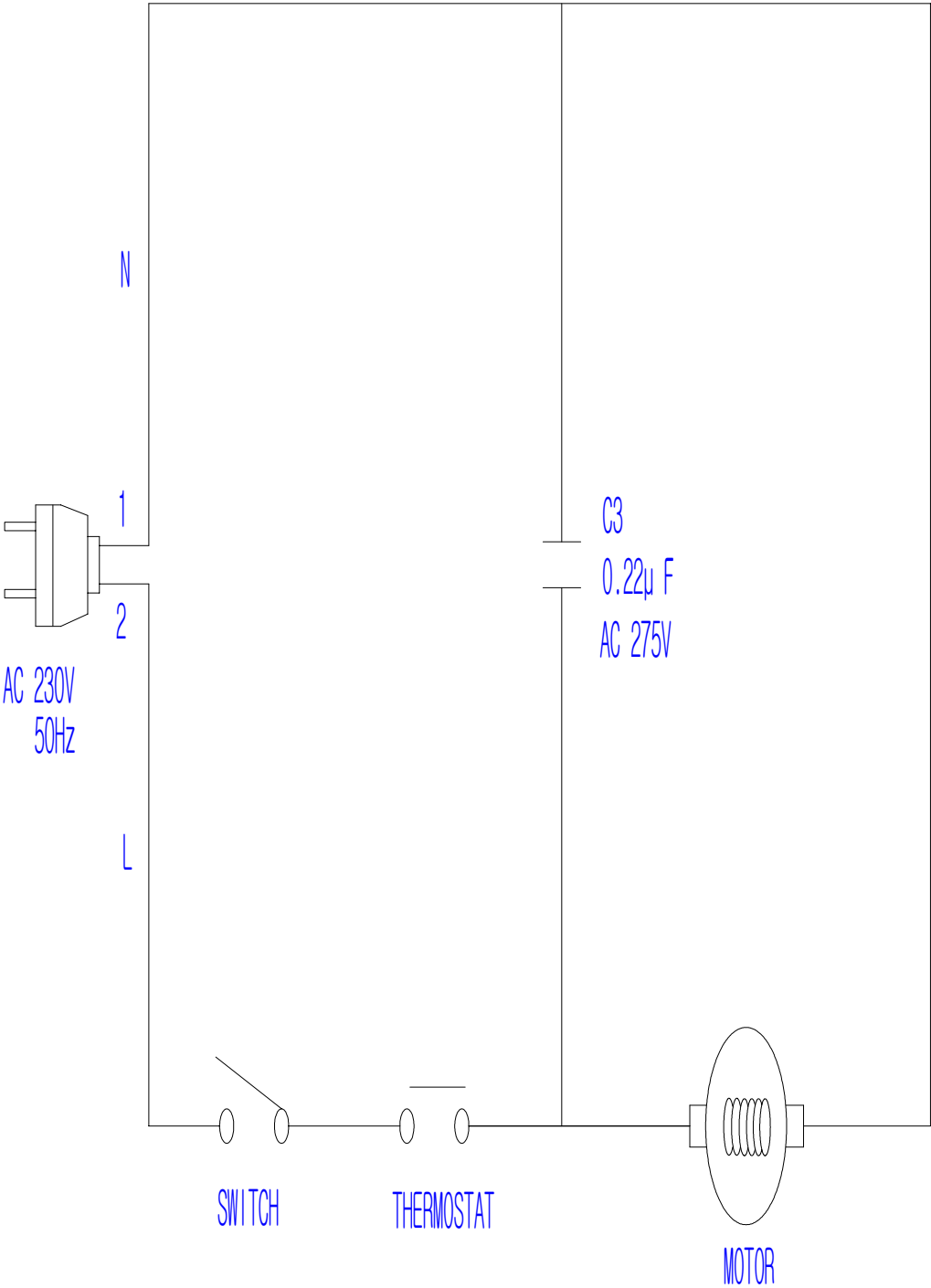


3-1-3. RCC-250S Wiring Diagram

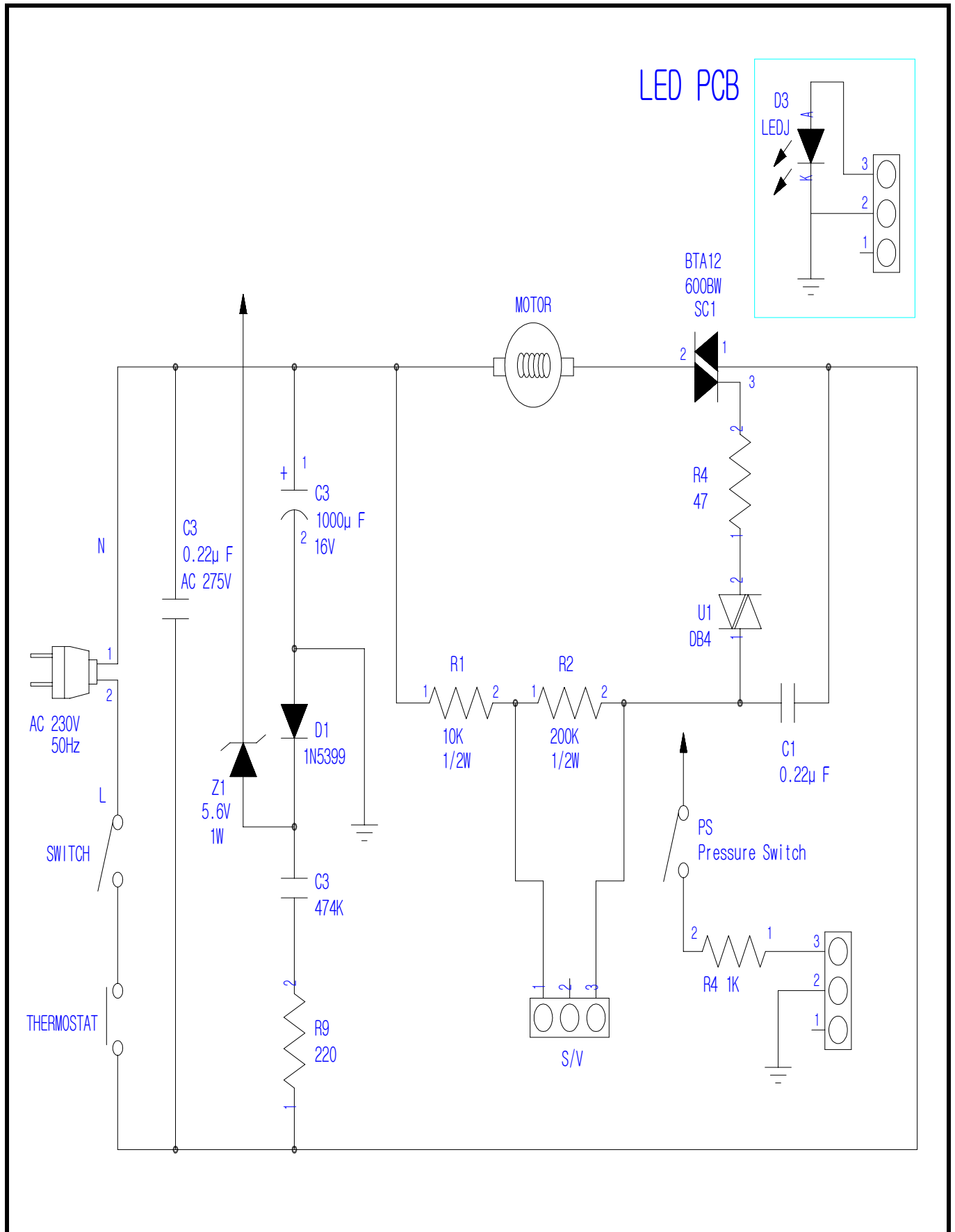


3-2. Circuit Diagram

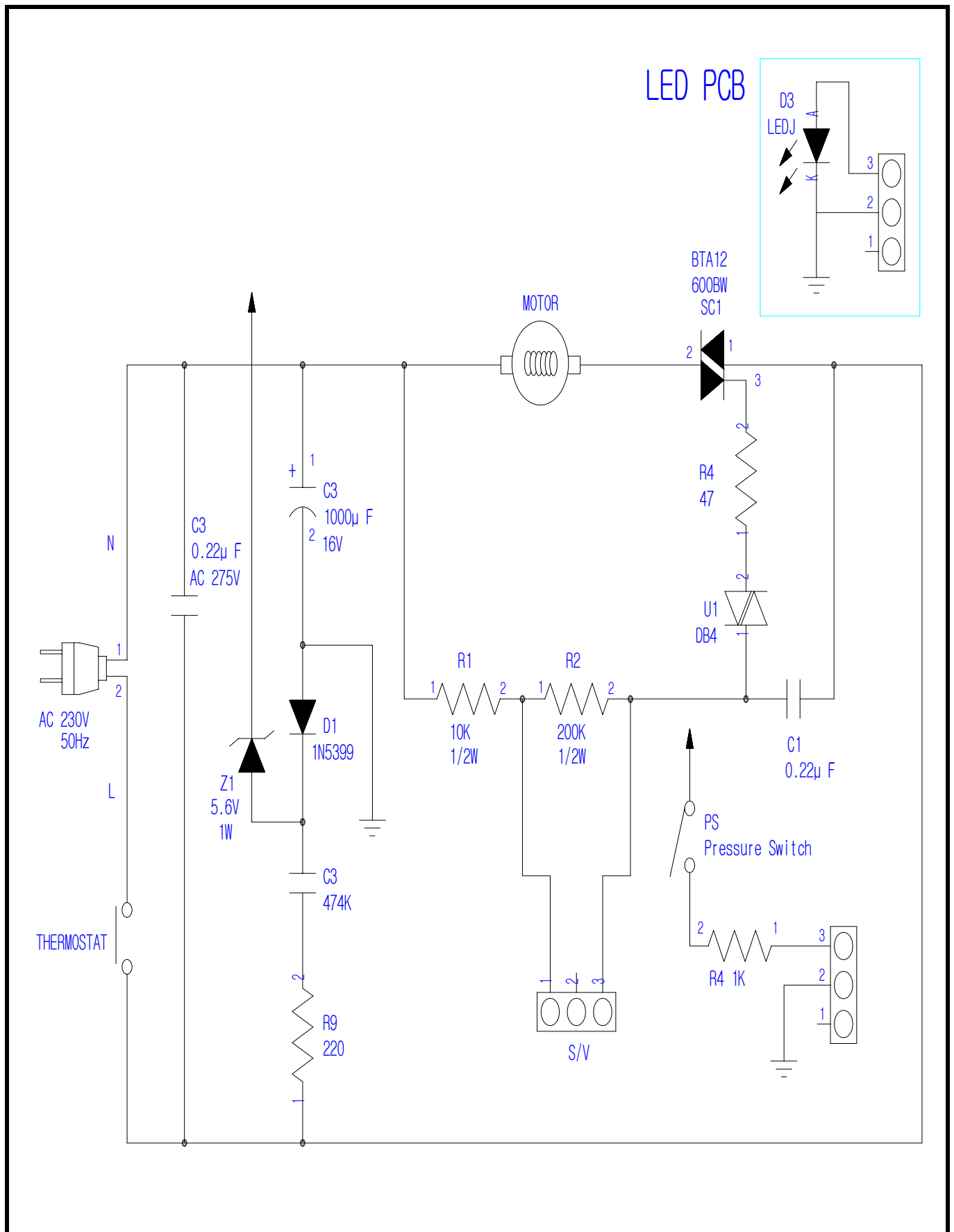
3-2-1. RCC-250F Circuit Diagram



3-2-2. RCC-250B Circuit Diagram



3-2-3. RCC-250S Circuit Diagram



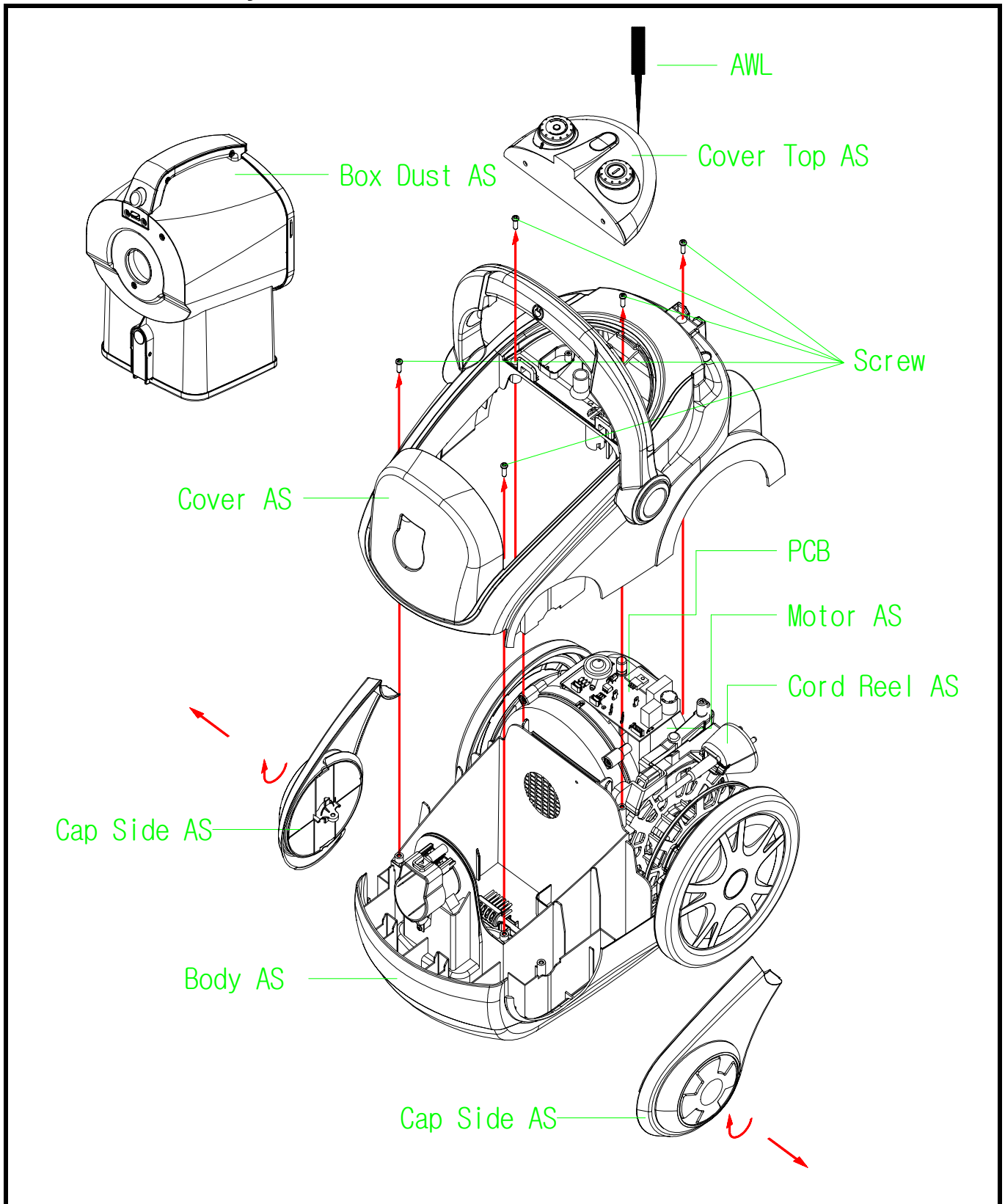
4. Trouble Shooting Guide

Trouble	Cause	Countermeasure
Suction power is weak	Dust Box is full with Dust	Remove the dust
Suction power is weak	Small dust stick on Inlet filter or Mesh filter	Shake off dust or Wash it (After Washing, Dry it fully)
	Cogging or tear in hose	Remove obstacle or Replace the hose
	Defective Motor	Replace it (See 5-2)
Cleaner does not work	Breaking in Power Cord (at blade tip or root of plug)	Replace the power cord (See 5-3)
	Breaking of connections in hose assembly. (only RCC-250S)	Repair (See 5-5)
	Defective Slide Volume in hose handle (RCC-250S) or Rotary Volume on cover (RCC-250B)	Replace it (See 5-5) Replace it (See 5-4)
	Defective PCB assembly	Replace it (See 5-2)
	Breaking of connections or poor contacts in Cord Reel assembly	Repair (See 5-1,5-3)
	Defective Motor	Replace it (See 5-2)
	Breaking of connections in internal wiring	Repair (See 5-1)
	Breaking of Zener Diode(ZD) on PCB	Replace it (See 5-1)
	Defective Switch (RCC-250F,B)	Replace it (See 5-4)

Trouble	Cause	Countermeasure
Motor does not stop even if switch off	Defective PCB assembly	Replace it (See 5-1)
Power Cord is not wound up	Broken Reel Spring of Cord Reel assembly	Replace it (See 5-3)
	Power Cord broke away from the Bobbin	Repair (See 5-3)
※ CAUTION : BE CAREFUL WHEN BREAKING UP THE CORD REEL, THE REEL SPRING MAY SPRING OUT OF THE SPRING COVER.		
Power Cord does not stop at an arbitrary position	Abrasion of the roller broke of Cord Reel	Replace it (See 5-3)
	Lever Spring broke away from cord reel bracket	Repair (See 5-3)

5. Disassembling & Treatment

5-1. Cleaner Assembly

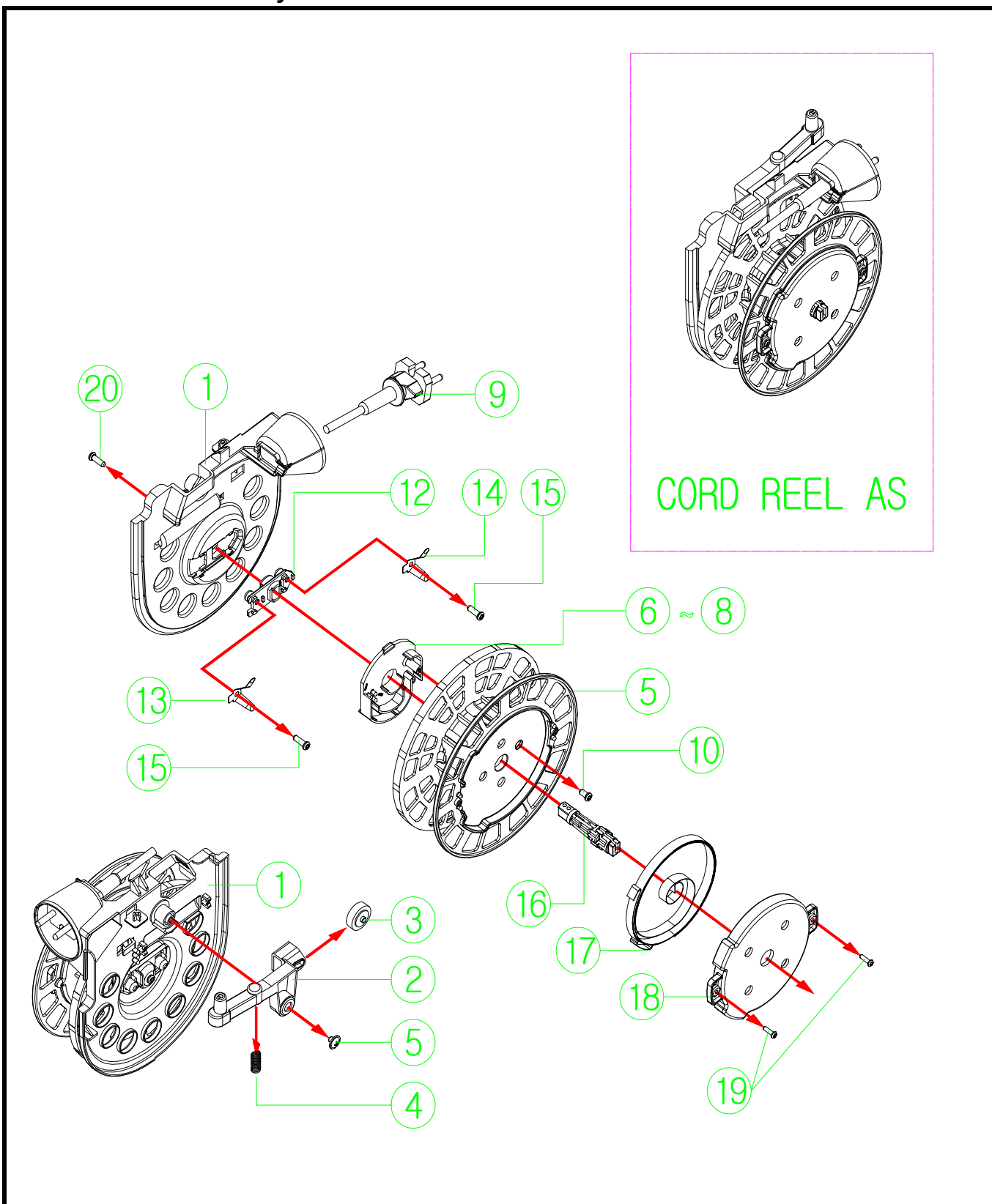


- 1) Remove DUST BOX AS - pushing BOX DUST BUTTON
- 2) Remove 2 CAP SIDE AS - rotating CAP as above
- 3) Take COVER TOP AS out of COVER AS by using an awl or "-" screw driver
- 4) Unscrew 5 SCREWS then lift the COVER AS up from BODY AS

[illegible]

- 12

5-3. Cord Reel Assembly



1) Take CORD REEL AS out of BODY AS

-- to be continued in next page

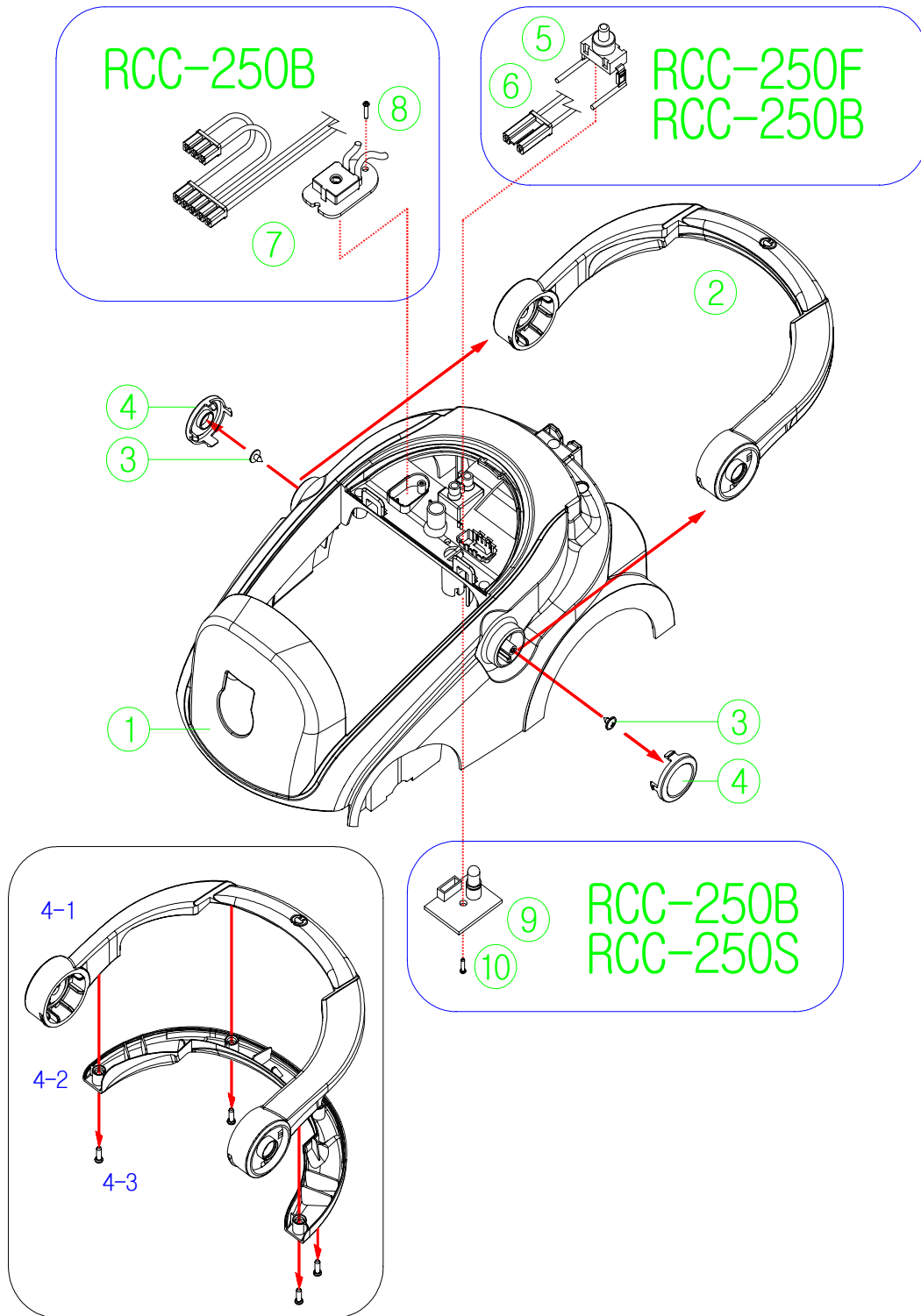
-
- 2) Before separate BOBBIN(5), CORD PLUG(9) pull out from the pocket of BRACKET(1) and push LEVER CR(2) for reducing the elasticity of REEL SPRING
 - 3) Unscrew a SCREW (#20) and separate BOBBIN(5) from BRACKET(1) and check the contactts between the Y TERMINALS(13,14) and RING TERMINALS(7,8)
 - 4) Check LEVER SPRING(4)
 - 5) If ROLLER BRAKE(3) is worn out and Unscrew a SCREW(5), separate LEVER(2) from BRACKET(1) AND replace ROLLER BRAKE(3)
 - 6) If REEL SPRING(17) is broken, unscrew 2 SCREW(19) and replace it.

CAUTION

When disassembling, The REEL SPRING may spring out of the Cover

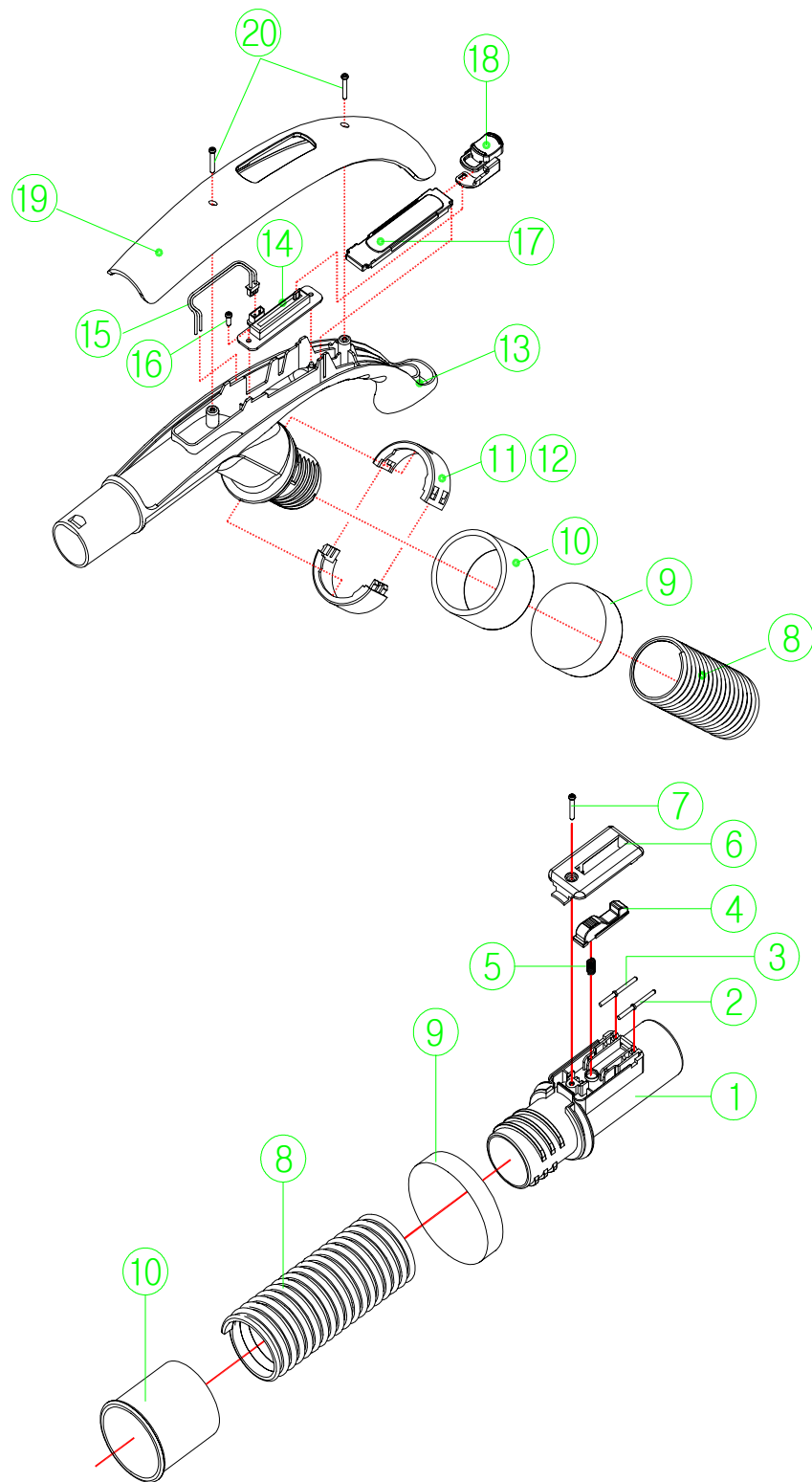
- 7) Unscrew a SCREW(10) and HOLDER TERMINAL(6) from BOBBIN(5) check the connections between POWER CORD(9) and RING TERMINAL(7,8)
- 8) When assembling, make ther reserved winding 5 revolutions of BOBBIN clockwise.

5-4. Cover Body Assembly



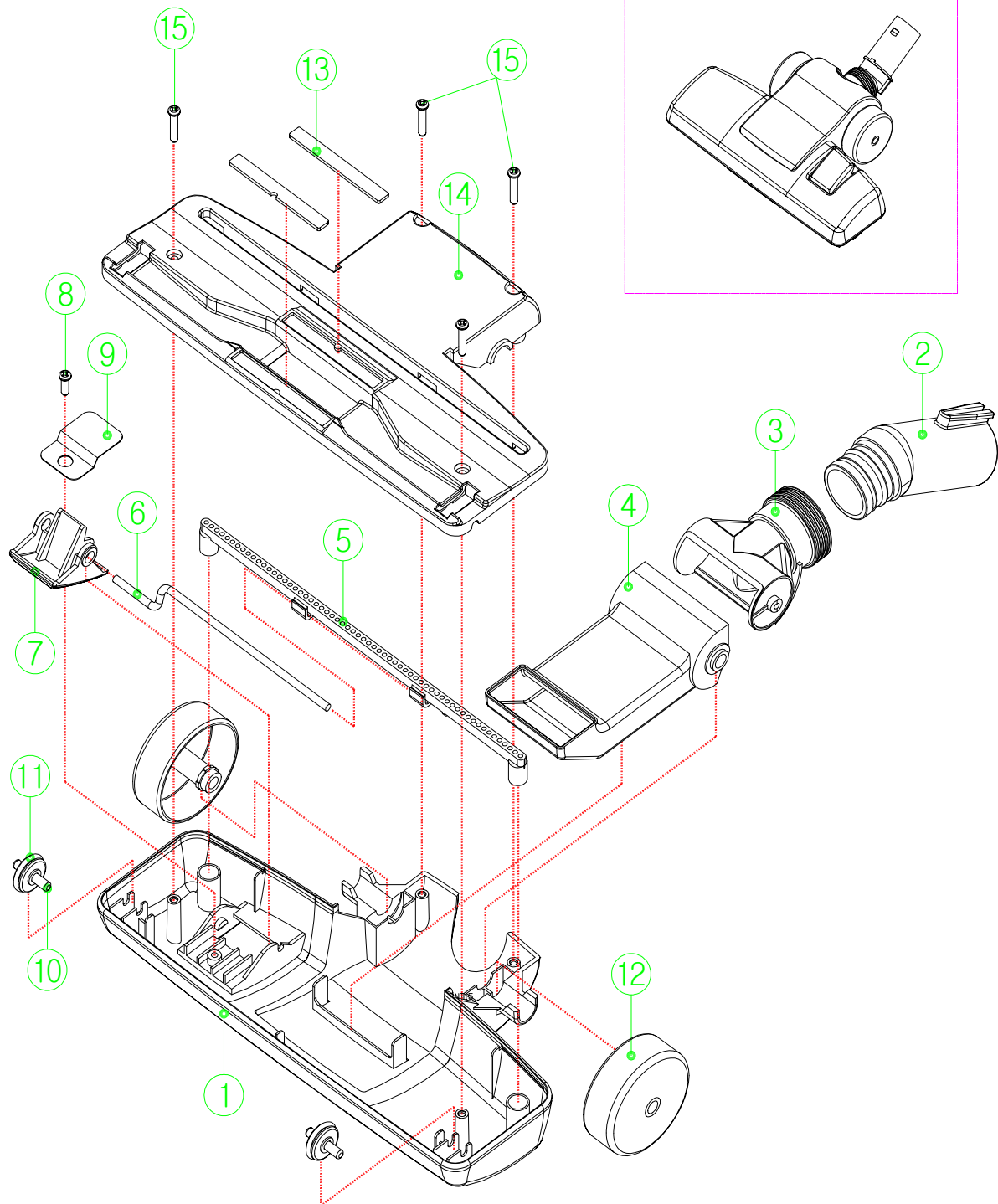
- 1) Take HANDLE(#4) out of COVER BODY by using an awl or "-" screw driver and check them.
- 2) Unscrew 2 SCREWS (#3) then remove HANDLE ASSY(#2)
- 3) Take SWITCH(#5), HARNESS SW(#6) out of COVER BODY by using an awl or "-" screw driver
- 4) Unscrew a SCREW (#8) then remove SLIDE VOL PCB and check it.
- 5) Unscrew a SCREW (#10) then remove LED PCB ASSY and check it.

5-5. Hose Assembly



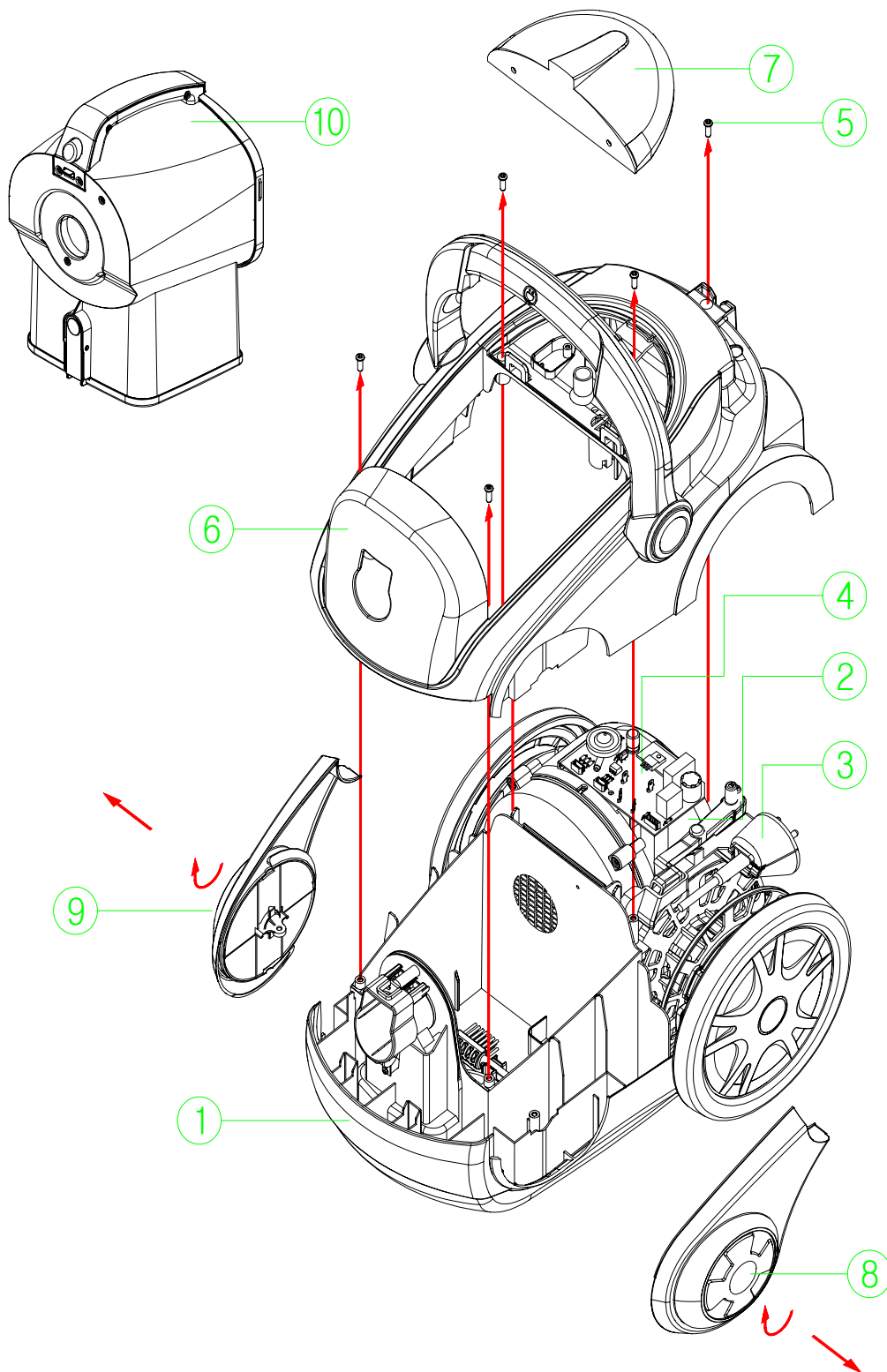
- 1) Unscrew 2 SCREWS (#20) and check whether KNOB(18) is broken or not
- 2) Check SLIDE VOLUME PCB(#14)
- 3) Check CONNECTOR & WIRE(#15)
- 4) Check TERMINALS(#2,#3)

5-6. Brush Assembly [Pedal Brush]



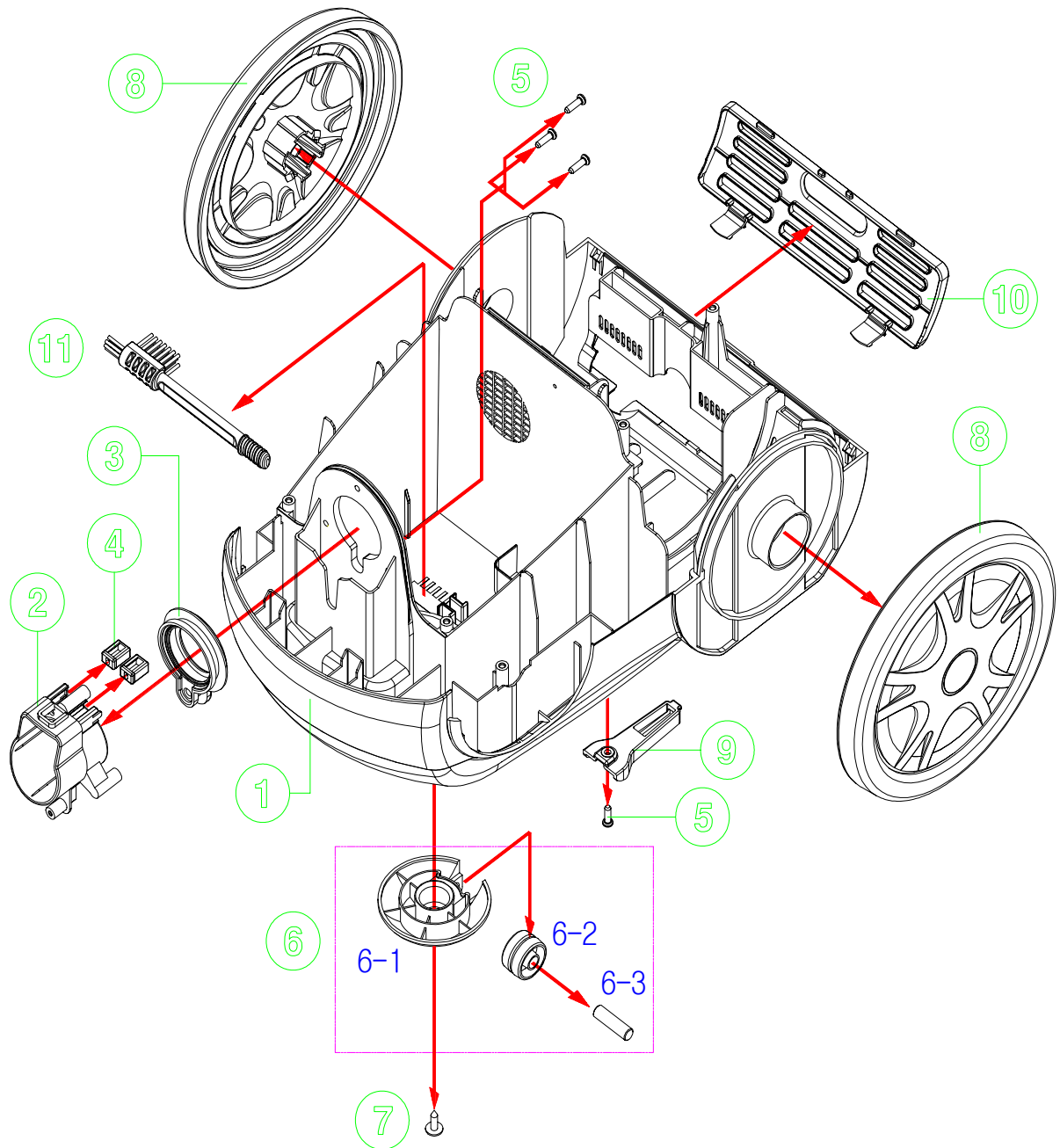
1) Unscrew 4 SCREWS(#15) and separate COVER BRUSH(#1) from BODY BRUSH(#14)

6-1. RCC-250S Cleaner Assembly



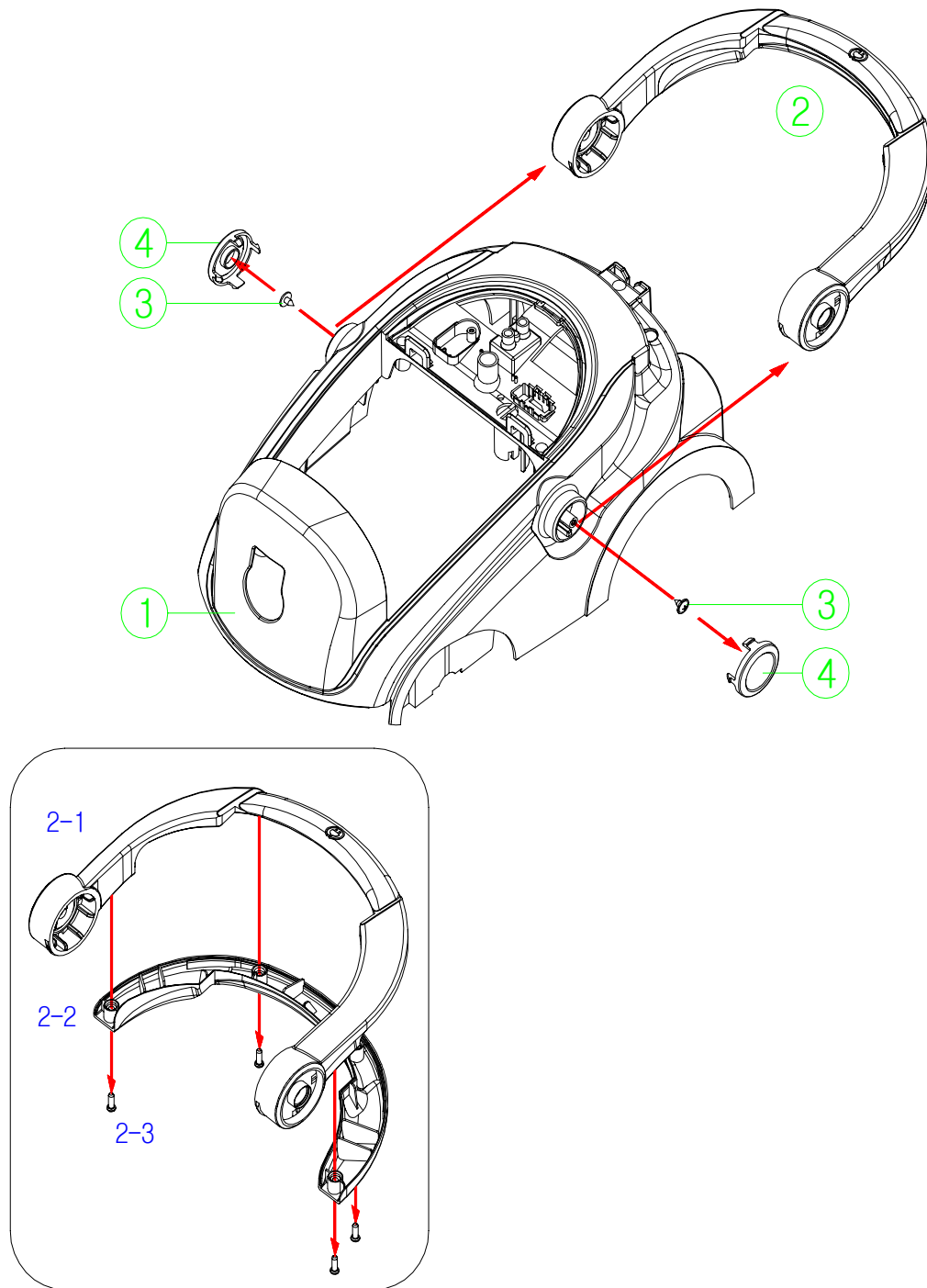
No	Part Name	Part Code	Descriptions	Q'nty
1	BODY AS	3620413320	ASSY(RCC-250) HIGH, NONCURREN	1
2	MOTOR CASE AS	-	-	1
3	CORD REEL AS	3629508850	ASSY(RCC-250, EU)	1
4	PCB POWER CONTROL AS	3624316040	RCC-2505SN 220_240V/50HZ	1
5	SCREW TAPPING	7121402011	T2S PAN 4X20 MFZN	1
6	COVER AS	3621444550	ASSY(RCC-250) LOW	1
7	COVER TOP L	3621443200	ABS	1
8	COVER SIDE R ASSY	3621444300	ASSY(RCC-250) HIGH	1
9	COVER SIDE L ASSY	3621444400	ASSY(RCC-250) HIGH	1
10	BOX DUST AS	3620509900	ASSY(RCC-250) LOW	1

6-2. RCC-250S Body Assembly



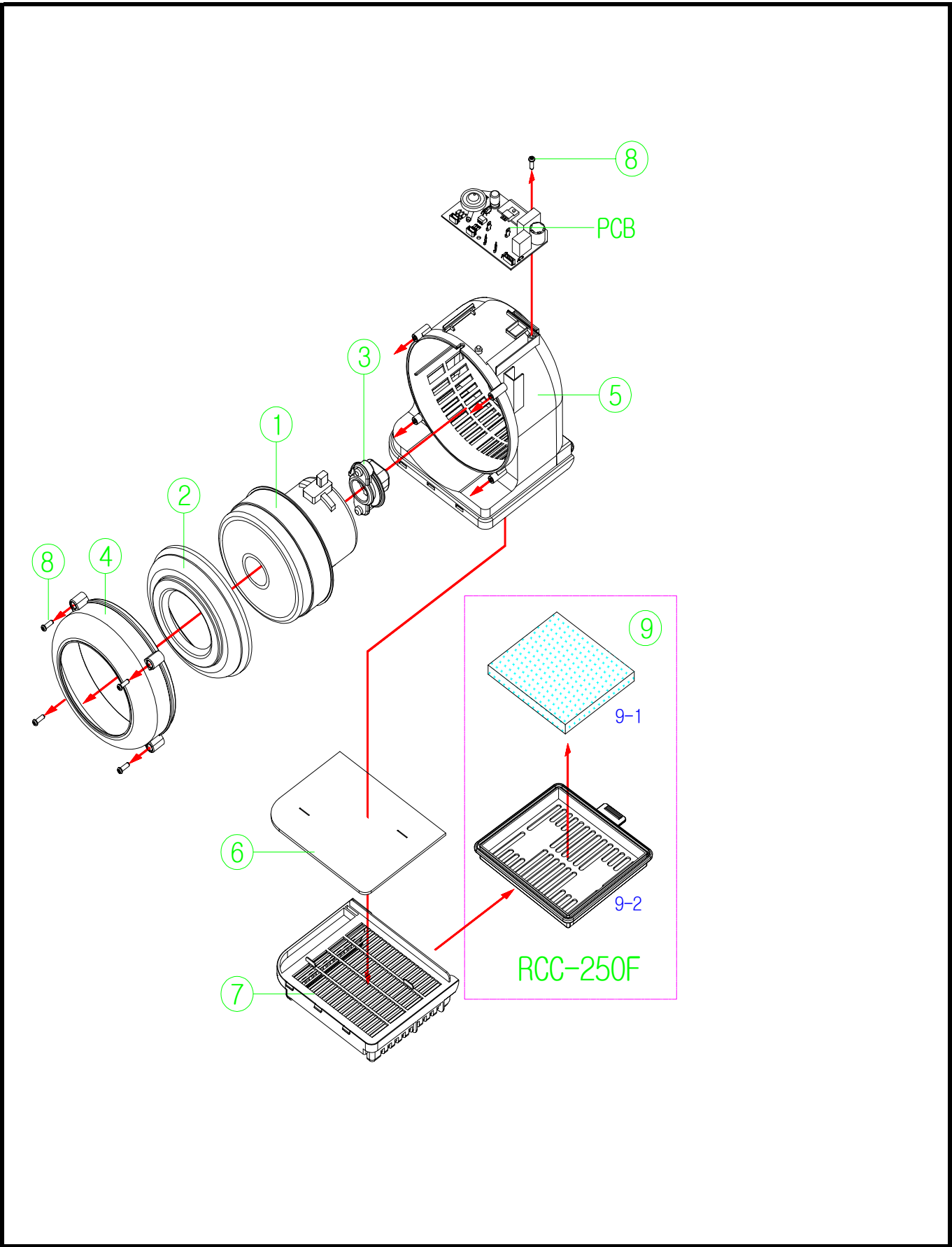
No	Part Name	Part Code	Descriptions	Q'nty
1	BODY	3620432100	PP	1
2	SOCKET	3629802700	PP	1
3	PACKING SOCKET	3624010600	NR	1
4	TERMINAL CASE AS	3628716200	ASSY(RCC-250) HIGH	1
5	SCREW TAPPING	7121401411	T2S PAN 4X14 MFZN	4
6	BRACKET ROLLER ASSY	3620601900	ASSY	1
6-1	<i>BRACKET ROLLER</i>	<i>3620601500</i>	<i>PP</i>	<i>1</i>
6-2	<i>ROLLER FRONT</i>	<i>3624703600</i>	<i>PP</i>	<i>1</i>
6-3	<i>SHAFT ROLLER</i>	<i>3624901000</i>	<i>SWRM</i>	<i>1</i>
7	SCREW TAPPING	7128401212	T2S WAS 4X12 MFZN BK	1
8	ROLLER BACK ASSY	3624708400	ASSY(ABS+PVC)	2
9	HOLDER BRUSH	3623005500	PP	1
10	GRILLE EXHAUST	3622401600	ABS	1
11	BRUSH DUST BOX	3629311850	PP+NYLON	1

6-3. RCC-250S Cover Assembly



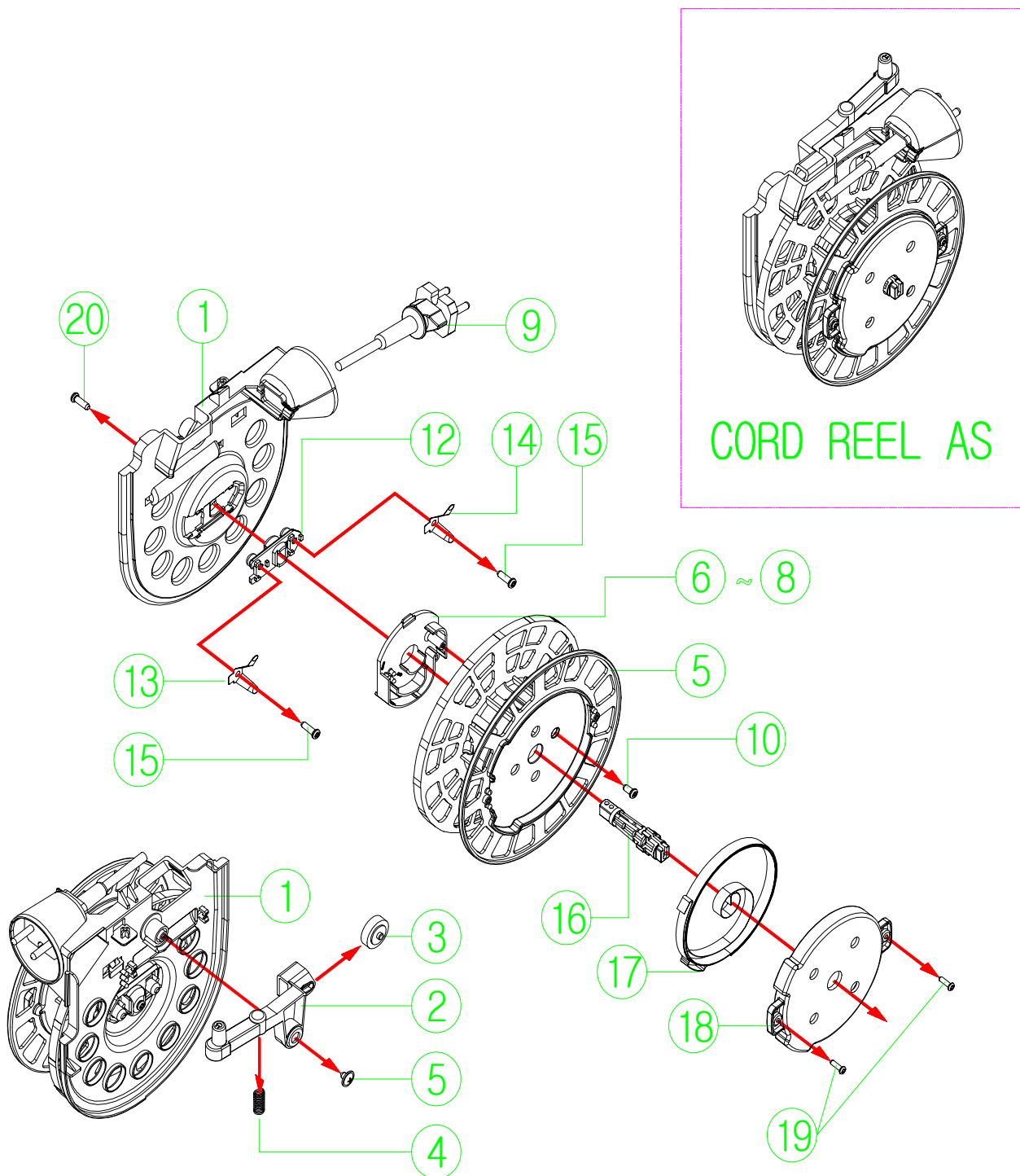
No	Part Name	Part Code	Descriptions	Q'nty
1	COVER BODY	3621443120	ABS + 2 SILK	1
2	HANDLE ASSY	3622606300	ASSY(RCC-250)	1
2-1	<i>HANDLE</i>	<i>3622605900</i>	<i>PP</i>	<i>1</i>
2-2	<i>HANDLE BOTTOM</i>	<i>3622606000</i>	<i>PP</i>	<i>1</i>
2-3	<i>SCREW TAPPING</i>	<i>7121401011</i>	<i>T2S PAN 4X10 MFZN</i>	<i>4</i>
3	SCREW TAPPING	7128401211	T2S WAS 4X12 MFZN	2
4	CAP HANDLE	3620905400	ABS	2

6-4. Motor Case Assembly



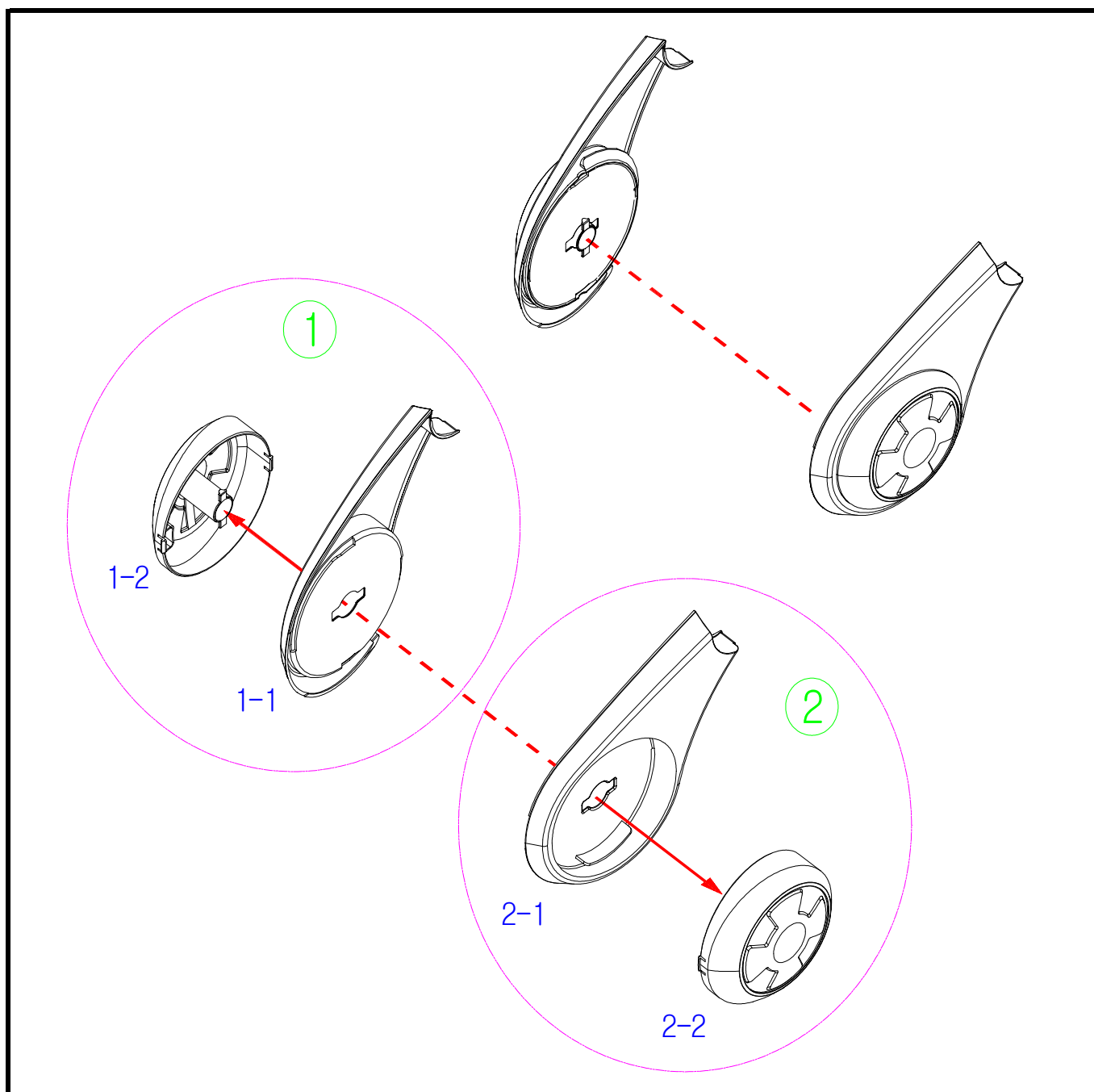
No	Part Name	Part Code	Descriptions	Q'nty
1	MOTOR UNIVERSAL	396251125Z	220-230V, 50/60Hz, 1500W	1
2	PACKING MOTOR	3624011000	NR FOAM (ZX)	1
3	MOUNT MOTOR	3627902000	NR SHORE-A 60±5	1
4	CASE MOTOR FRONT	3621109100	PP	1
5	CASE MOTOR REAR	3621109200	PP	1
6	FILTER CASE	3621912100	PE 3T	1
7	GUIDE EXHAUST	3622506600	PP	1
8	SCREW TAPPING	7121401411	T2S PAN 4X14 MFZN	5
9	FILTER EXHAUST	3621912710	ASSY(FILTER CASE+PE 10T)	1
9-1	<i>FILTER EXHAUST</i>	<i>3621912310</i>	<i>PE 10T, 119*106, WH</i>	<i>1</i>
9-2	<i>FRAME FILTER EXHAUST</i>	<i>3622205400</i>	<i>PP</i>	<i>1</i>

6-5. Cordreel Assembly



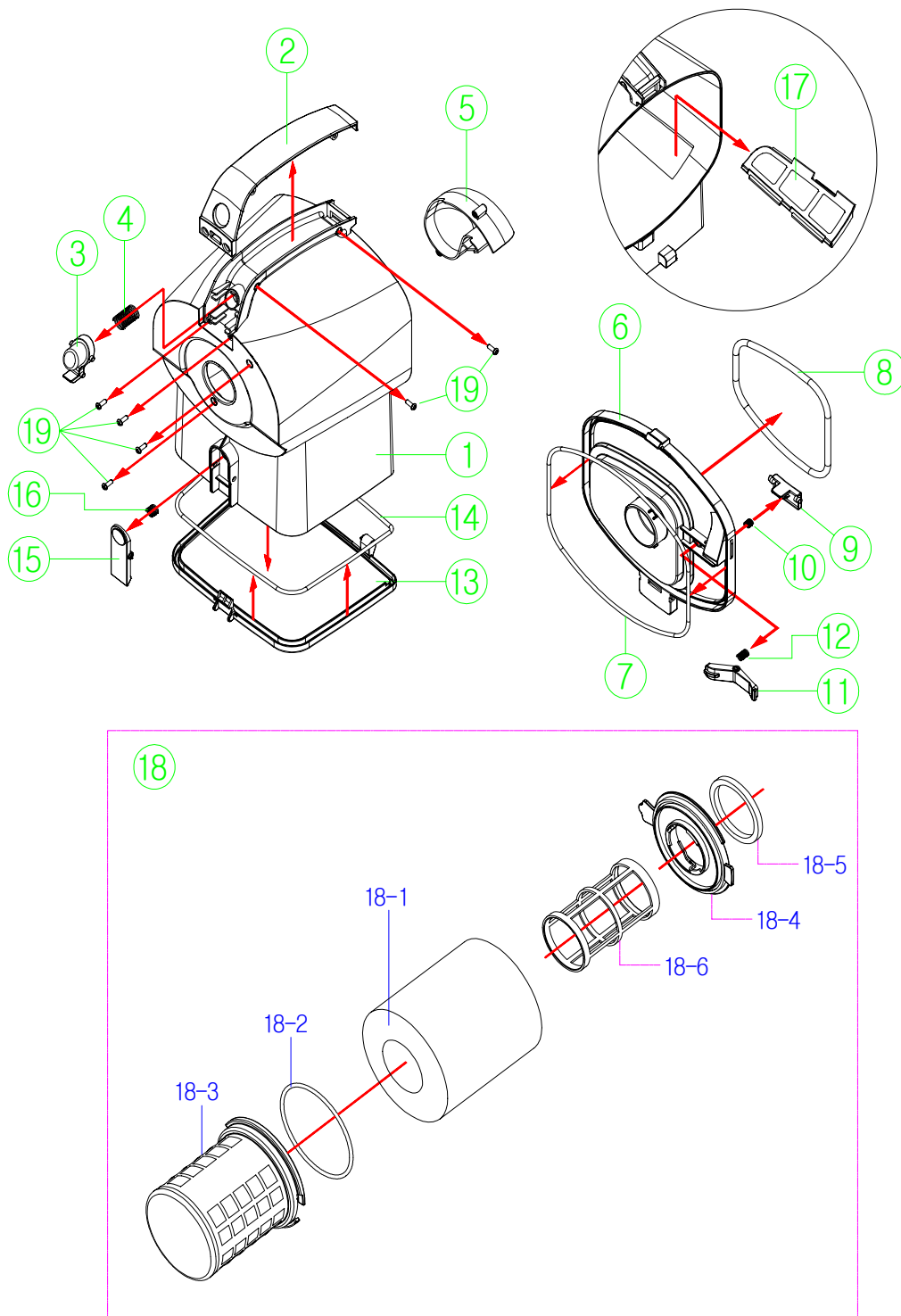
No	Part Name	Part Code	Descriptions	Q'nty
1	BRACKET CR	3620603500	PP	1
2	LEVER CR	3623704200	ABS	1
3	STOPPER ASSY	3625200200	ASSY	1
4	SPRING LEVER CR	3625114100	HSW3(422.6G/845.2G)	1
5	SCREW TAPPING	7128401212	T2S WAS 4X12 MFZN BK	1
6	BOBBIN	3629200910	PP (복합)	1
7	HOLDER TERMINAL	4565A36020	PP(5101SW,V-0)	1
8	TERMINAL	4565A36024	C2600P-1/2H T0.3	1
9	TERMINAL	4565A36034	C2600P-1/2H T0.3	1
10	WAX VASELINE	2291140301	VASELINE	0.002
11	CORD POWER	3621302500	250V16A H05VVF 75	1
12	SCREW TAPPING	7121301011	T2S PAN 3X10 MFZN	1
13	SUPPORTER TERMINAL	3625300500	PP(5101SW)	1
14	TERMINAL Y AS	3628716000	TER+WIRE(WH)+RECEPT(187), 250M	1
15	TERMINAL Y AS	3628716100	TER+WIRE(BK)+RECEPT(187)+HOUS	1
16	SCREW TAPPING	7121400811	T2S PAN 4X8 MFZN	2
17	SHAFT CR	3624901900	PC(LEXAN 500)	1
18	SPRING AS	3625109920	SPRING(4.3M)+ COVER(PP)	1
19	SCREW TAPPING	7121300811	T2S PAN 3X8 MFZN	2
20	SCREW TAPPING	7121401411	T2S PAN 4X14 MFZN	1

6-6. Cover Side Assembly



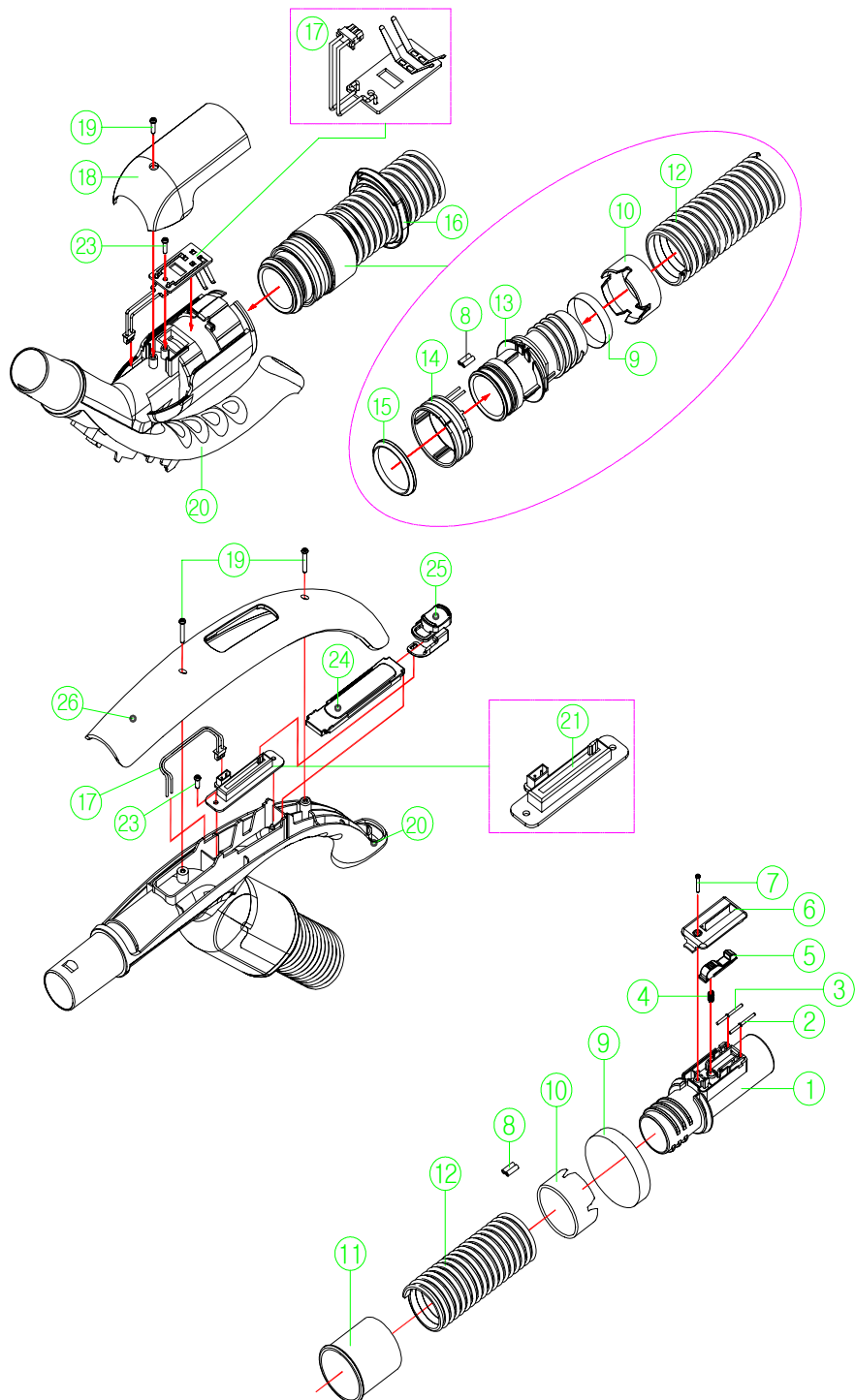
No	Part Name	Part Code	Descriptions	Q'nty
1	COVER SIDE R ASSY	3621444300	ASSY(RCC-250) HIGH	1
1-1	COVER SIDE L	3621443500	PP	1
1-2	CAP SIDE L	3620905500	ABS	1
2	COVER SIDE L ASSY	3621444400	ASSY(RCC-250) HIGH	1
2-1	COVER SIDE R	3621443600	PP	1
2-2	CAP SIDE L	3620905500	ABS	1

6-7. Dustbox Assembly



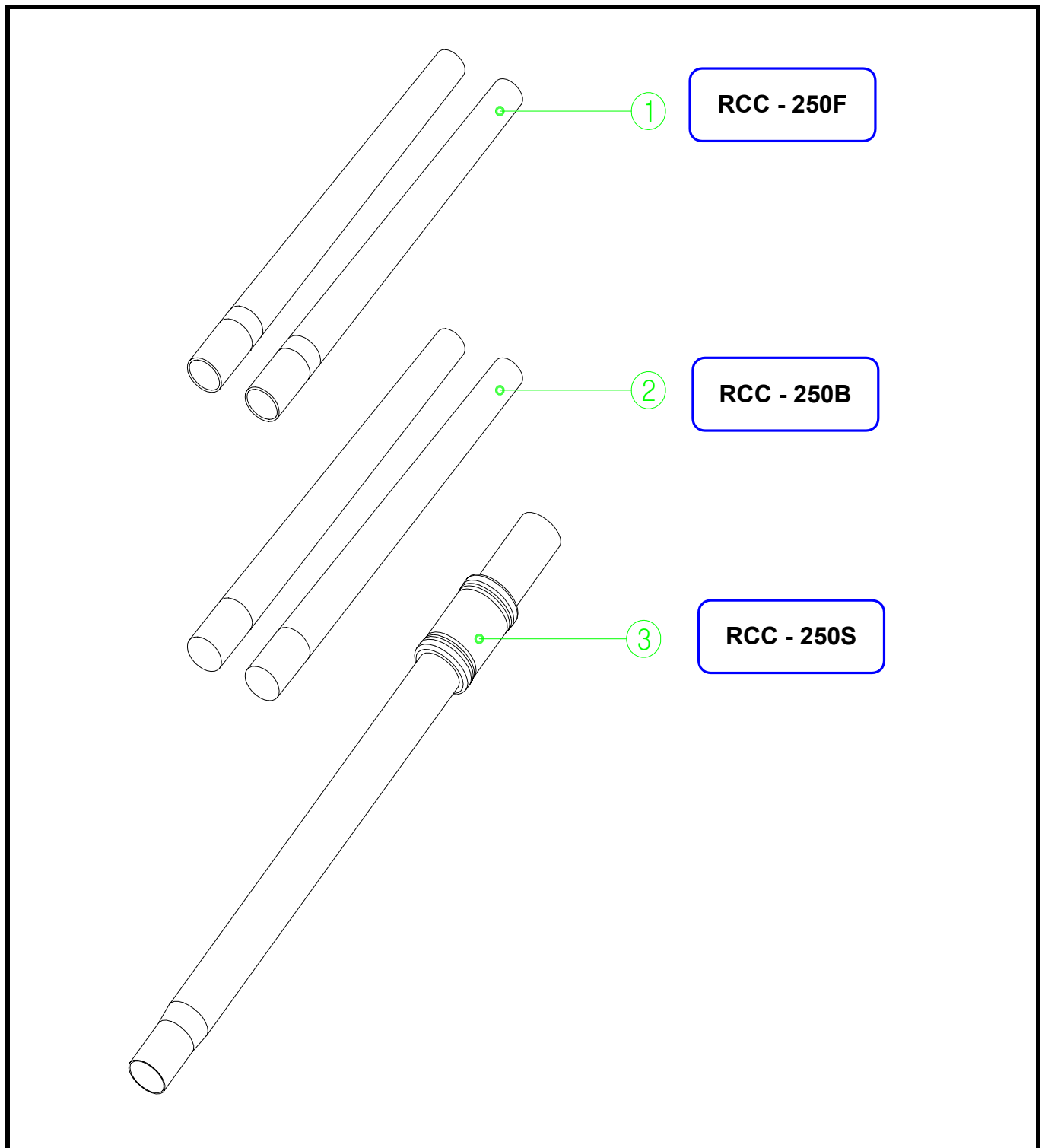
No	Part Name	Part Code	Descriptions	Q'nty
1	BOX DUST	3620509600	ABS(transparency)	1
2	HANDLE BOX DUST	3622606100	ABS	1
3	CLAMP BOX DUST	3621204300	PC	1
4	SPRING CLAMP BOX	3625113700	HSW3	1
5	CAP ADAPTER	3620905800	ABS(transparency)	1
6	COVER BOX REAR	3621443700	ABS	1
7	GASKET BOX REAR IN	3622308500	NR FOAM (PI=3)	1
8	GASKET BOX REAR OUT	3622308800	NR FOAM(PI=5)	1
9	BUTTON BOX REAR	3626608100	ABS	1
10	SPRING BOX REAR	3625113800	HSW3	1
11	LEVER SAFETY	3623704300	ABS	1
12	SPRING LEVER SAFETY	3625114000	HSW3	1
13	COVER BOX BOTTOM	3621443800	ABS	1
14	GASKET BOX BOTTOM	3622308600	NR FOAM	1
15	BUTTON BOX BOTTOM	3626608200	ABS	1
16	SPRING BOX BOTTOM	3625113900	HSW3	1
17	FRAME MESH FILTER	3622205100	PP + MESH	1
18	FILTER L AS	3621912900	ASSY(RCC-250,PU,MESH)	1
18-1	<i>FILTER INNER</i>	<i>3621912200</i>	<i>SPONGE 10T</i>	<i>1</i>
18-2	<i>GASKET FILTER BOX</i>	<i>3622308900</i>	<i>NR FOAM (PI 3)</i>	<i>1</i>
18-3	<i>FRAME FILTER BOX</i>	<i>3622205200</i>	<i>ABS + MESH</i>	<i>1</i>
18-4	<i>FRAME FILTER INNER</i>	<i>3622205300</i>	<i>ABS</i>	<i>1</i>
18-5	<i>GASKET FILTER INNER</i>	<i>3622308700</i>	<i>PU + NYLON</i>	<i>1</i>
18-6	<i>GUIDE FILTER INNER</i>	<i>3622506700</i>	<i>ABS (50PI*87.5)</i>	<i>1</i>
20	SCREW TAPPING	7121301208	T2S PAN 3X12 SUS	6

6-8. RCC-250S Hose Assembly [Current Carrying EVA]



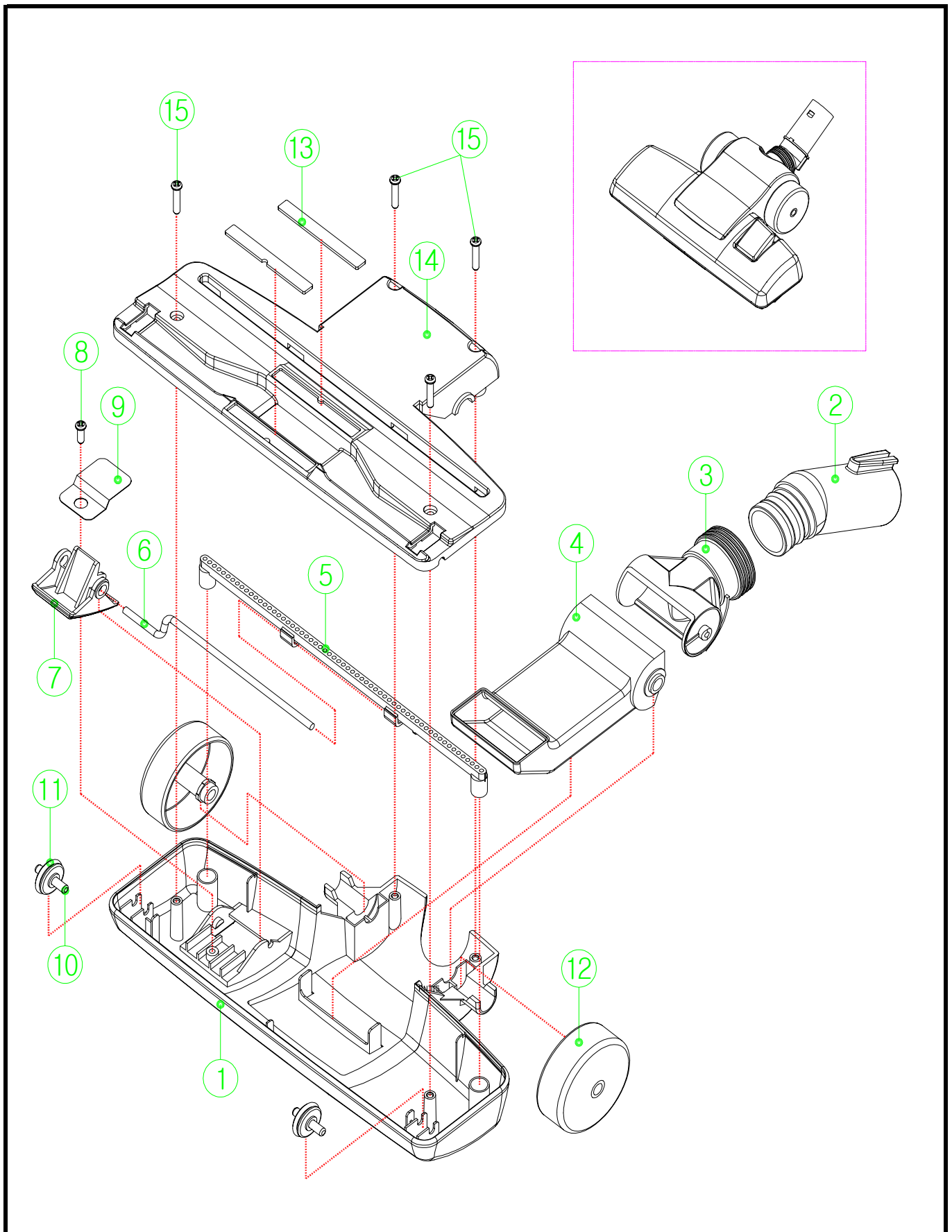
No	Part Name	Part Code	Descriptions	Q'nty
1	ADAPTER PIPE	3629103400	ABS	1
2	TERMINAL AS	3628710200	TERMINAL+WIRE(YL)	1
3	TERMINAL AS	3628710400	TERMINAL+WIRE(BR)	1
4	SPRING	3625102900	HSW3	1
5	CLAMP ADAPTER	3621200900	ABS	1
6	COVER ADAPTER	3621405900	ABS	1
7	SCREW TAPPING	7121300812	T2S PAN 3X8 MFZN BK	1
8	TUBE HEAT SHIRINKAGE	3625700300	TUBE HEAT SHIRINKAGE, 30MM	4
9	TAPE VINYL	2TU00019BK	19MM BLACK	0.5
10	CUFF HOSE	3626801800	PP	2
11	COVER HOSE	3621418600	PP	1
12	HOSE	3623207200	EVA 1.6M	1.6
13	ADAPTER PIPE	3629101810	ABS V0	1
14	FRAME TERMINAL AS	3622201410	ASSY(ABS V0)	1
15	PACKING PIPE	3624002400	NBR	1
16	CLAMP HANDLE	3621203200	ABS, SWING	1
17	PCB Y-TERMINAL AS	3624314500	ASSY, HOSE SWING	1
18	COVER TERMINAL	3621435800	ABS, SWING	1
19	SCREW TAPPING	7121301212	T2S PAN 3X12 MFZN BK	3
20	PIPE HANDLE (S)	3624415400	ABS, SWING	1
21	PCB SLIDE VOLUME AS	3624303900	200K HOSE AS	1
22	HARNESS	3622715300	ASSY(RC-7005S SWING,S/V)	1
23	SCREW TAPPING	7121300811	T2S PAN 3X8 MFZN	2
24	PLATE	3624501600	ABS	1
25	KNOB	3623401400	PC	1
26	COVER PIPE	3621421100	ABS	1

6-9. Pipe Assembly



No	Part Name	Part Code	Descriptions	Q'nty
1	PIPE EXTENSION	3624408500	PP	2
2	PIPE STEEL	3624400910	2 ST, SPC T=0.7(LD=32.6)	2
3	PIPE STEEL AS	3624411400	SPC	1

6-10. RCC-250B, RCC-250S Brush Assembly [Pedal Brush]



No	Part Name	Part Code	Descriptions	Q'nty
1	COVER BRUSH	3621420800	PP	1
2	PIPE BRUSH	3628304400	PP	1
3	NECK BRUSH	3628002100	PP	1
4	DUCT BRUSH	3629306300	PP	1
5	SWEEPER BRUSH	3629306400	ABS	1
6	SHAFT SWEEPER	3624901400	HSW3	1
7	BUTTON BRUSH	3626604400	ABS	1
8	SCREW TAPPING	7128408011	T2S 4x8	1
9	SPRING BUTTON	3625107300	SK-5, T=0.3	1
10	SHAFT ROLLER	3624900900	PA	2
11	ROLLER F BRUSH	3624704300	PP	2
12	ROLLER BACK	3624704400	PP	2
13	PICKER LITTER	3627000700	PA	2
14	BODY BRUSH	3620407800	PP	1
15	SCREW TAPPING	7121401411	T2S 4x14	4