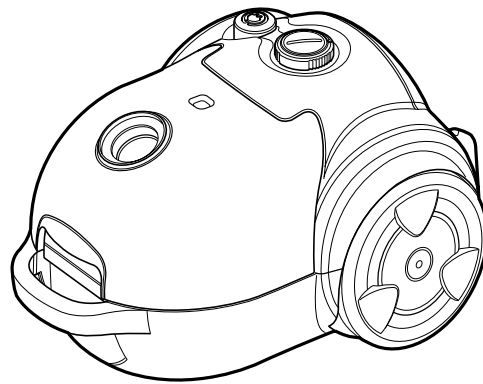




VACUUM CLEANER **SERVICE MANUAL**

CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS"
IN THIS MANUAL.



MODEL : V-CP243RDN / RTN, V-C3145RD / RT
V-CP243NDN / NTN, V-C3143ND / NT
V-CP243NB/NBN/ND, V-CP233NBN/NDN/NTN
V-CP242RBN/RDN/RTN



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SAFETY PRECAUTIONS

BEFORE OPERATING THIS VACUUM CLEANER, READ THIS SERVICE MANUAL THOROUGHLY, AND OBSERVE EACH POINT CAREFULLY.

1. Change the paper bag or clean the cloth bag in case the indicator moves toward red.

- 1) If the dust bag is full, intake power will be reduced.
- 2) When the dust bag is full of dust, pull out the dust bag from the inside of body base.

2. Filter

- 1) The filter is composed of a motor safety filter, an exhaust filter and a paper bag or a cloth bag.
- 2) Never use the vacuum cleaner without filters. It may harm to the motor.
- 3) When the cloth bag, the motor safety filter and the exhaust filter are soiled, wash the filter with neutral cleanser.

Note : Re-use of the cloth bag, clean filter and exhaust filter.

- Never wash the filter in a washing machine or in a dishwasher.
- Never use hot water for washing the filter.
- Re-use the filter after drying it completely in the shade.
- Do not dry near fire or direct sun ray.

3. Dust indicator

Dust indicator shows you red color when the filter is full of dust.

Then, change the paper bag with new one or clean the cloth bag.

4. Avoid suction such materials as:

- 1) Liquid or wet dust: Clogging the ventilation holes, reduces the intake power significantly and harms the motor.
- 2) Inflammable liquids such as benzene, alcohol or solvents.
- 3) Burning objects such as cigarette butts.
- 4) Bulky objects such as vinyl, paper, etc.
- 5) Sharp objects such as needles, pins, metal or glass particles, etc.

5. Attachments

- Nozzle : For cleaning wooden floor, the room floor and carpet.
- Crevice Tool: for cleaning any crevice, inside corners of window frames. However, do not use the crevice tool more than 20 minutes because it may cause harm to the motor.
- Dusting brush : For cleaning clothes curtains.

6. Close supervision is necessary when this vacuum cleaner is used by or near children. Children's carelessness may cause damage to the cleaner or injure persons.

7. Air exhausted from the vacuum cleaner is normally warm. But if extraordinarily hot air is exhausted, check if the extension wands, hose or dust bag is clogged or not.

8. Electric shock could occur if used outdoors or on wet surfaces.

CAUTIONS

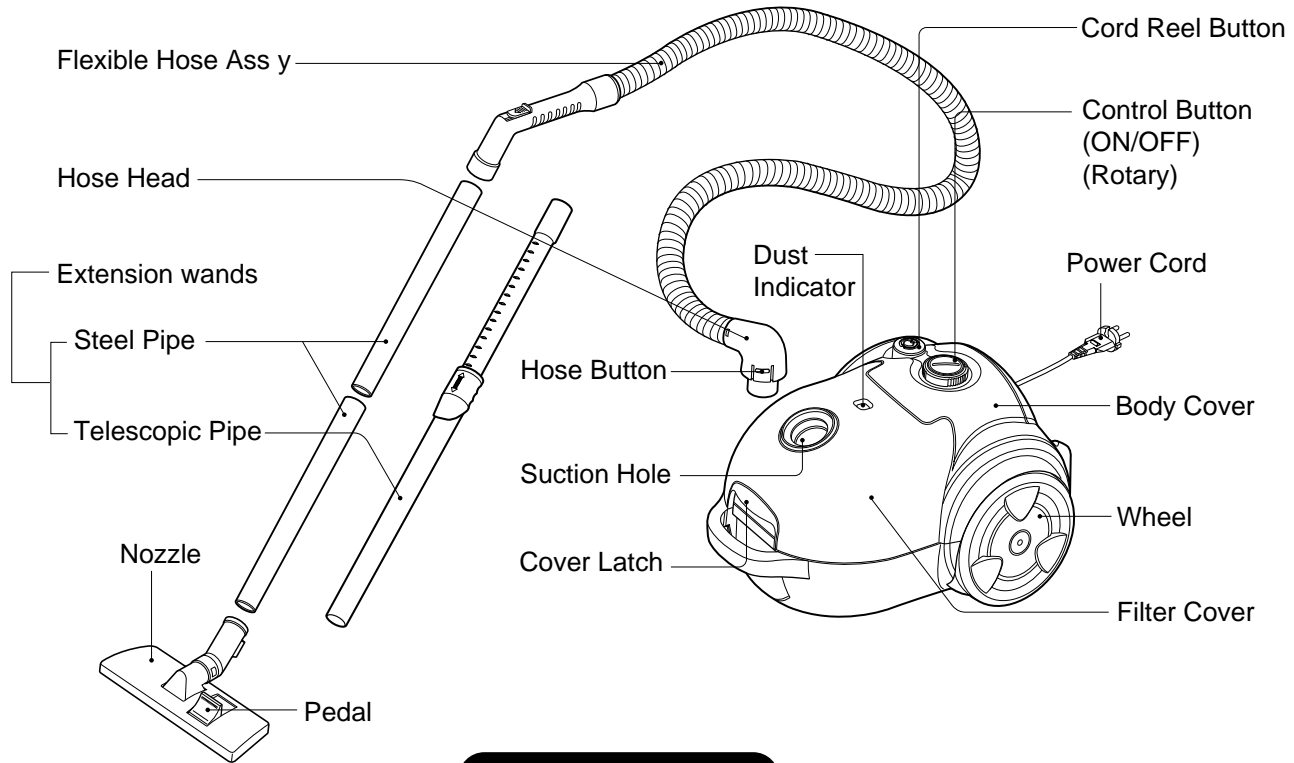
BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE VACUUM CLEANER, DISCONNECT THE ELECTRICAL POWER SUPPLY CORD FROM THE WALL OUTLET.

1. Motor exchange

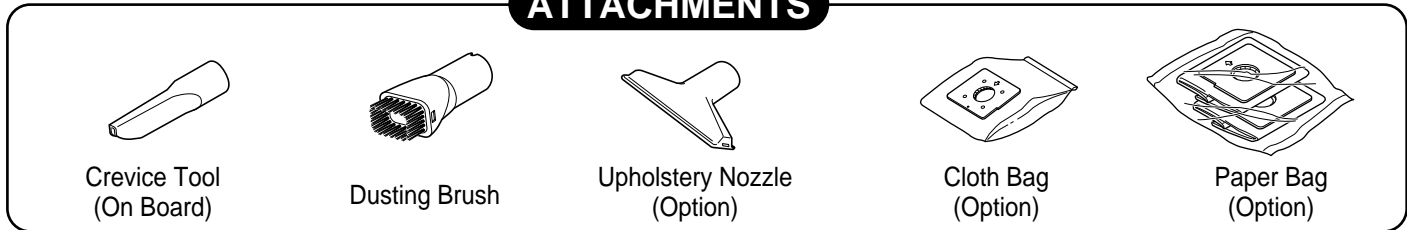
- 1) Separate the body cover and body base by unfastening the screws.
- 2) Disconnect the lead wires.
- 3) Lift the old motor and replace it with a new one.

2. In case of exchanging other parts, refer to the exploded view.

DESCRIPTION



ATTACHMENTS



SPECIFICATIONS

- **MODEL** : REFER TO THE COVER PAGE
- **POWER SOURCE** : ON RATING PLATE
- **POWER CONSUMPTION** : ON RATING PLATE
- **POWER CONTROL** :
 - **MAIN** : ROTARY ON BODY
(V-CP243RDN/RTN, V-C3145RD/RT)
 - ON/OFF ON BODY
(V-CP243NDN/NTN, V-C3145ND/NT)
- **CAPACITY** : 3 ℓ
- **CORD LENGTH** : 5 m
- **HOSE LENGTH** : 1.5 m
- **NET WEIGHT** : 3.5 kg
- **PACKING WEIGHT** : 6.0 kg
- **NET DIMENSION** : 280 × 400 × 225 (W × D × H)mm
- **PACKING DIMENSION** :
 - 330 × 495 × 290 (W × D × H)mm - with steel pipe
 - 330 × 565 × 290 (W × D × H)mm - with telescopic pipe
- This specifications are subject to change according to the buyer's request.

- **ATTACHMENTS**
- HOSE 1EA
- STEEL PIPE ASS'Y OR1EA
- TELESCOPIC PIPE ASS'Y
- NOZZLE ASS'Y1EA
- CREVICE TOOL (ON BOARD) 1EA
- DUSTING BRUSH.....1EA
- CLOTH BAG ASS'Y OR1EA
- PAPER BAG ASS'Y
- UPHOLSTERY NOZZLE (OPTION).....1EA

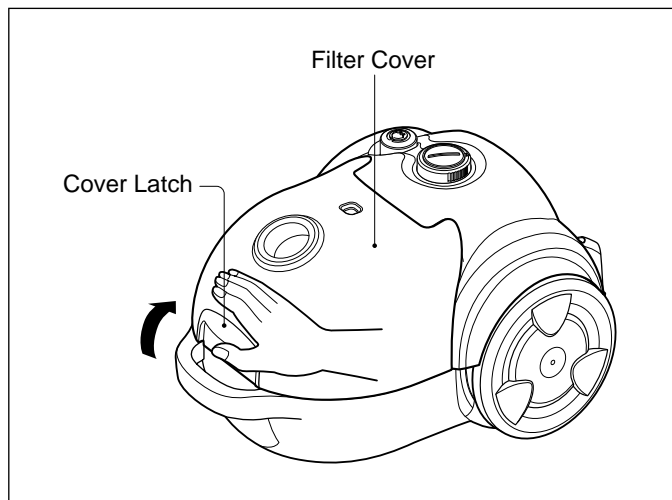
DISASSEMBLY

NOTE: Before attempting to service or adjust any part of the vacuum cleaner, disconnect the electrical power supply cord from the wall outlet.

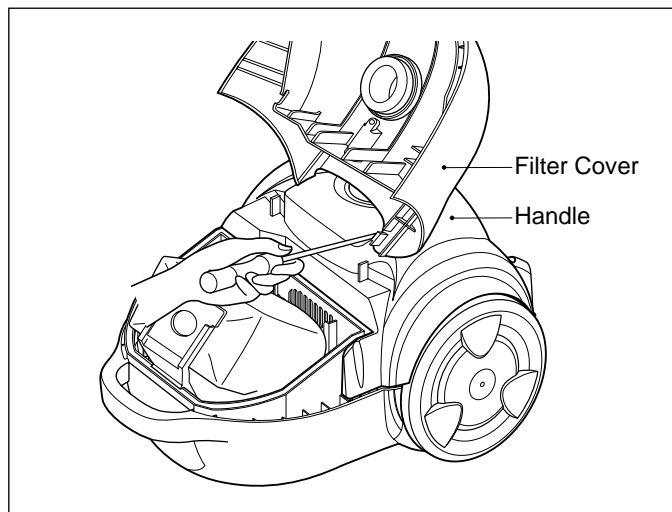
- Almost all of the parts of this vacuum cleaner can be disassembled with a screw driver and each connecting component easily fits each other. Disassemble one by one referring to the exploded view.
- If possible, don't disassemble except for the necessary parts. It is not necessary to disassemble the parts that are not detailed in the exploded view.

1. Filter Cover Assembly Replacement

1) Open filter cover by pushing cover latch.

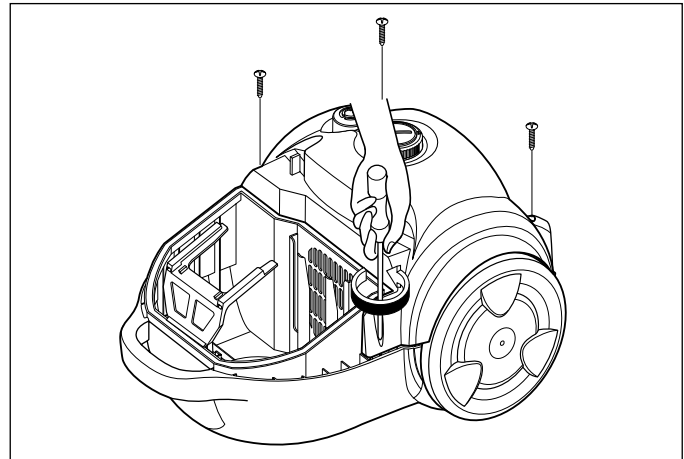


2) First, lift the filter cover
- Push the hinge side by inserting flat screw driver in gap between hinge and filter cover.
Then the "filter cover" will be detached.

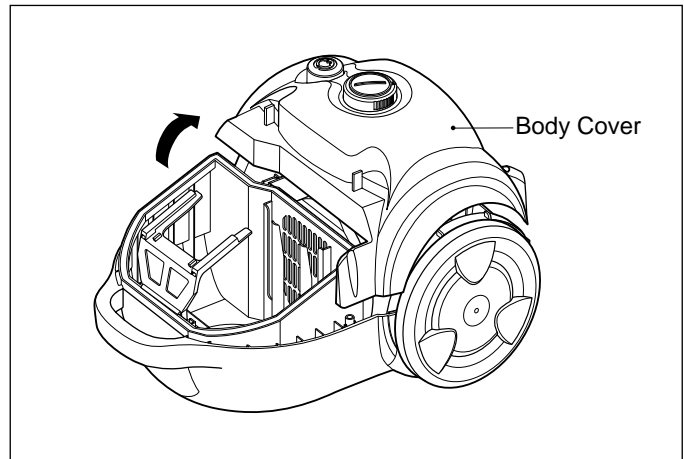


2. Body Cover Assembly Replacement

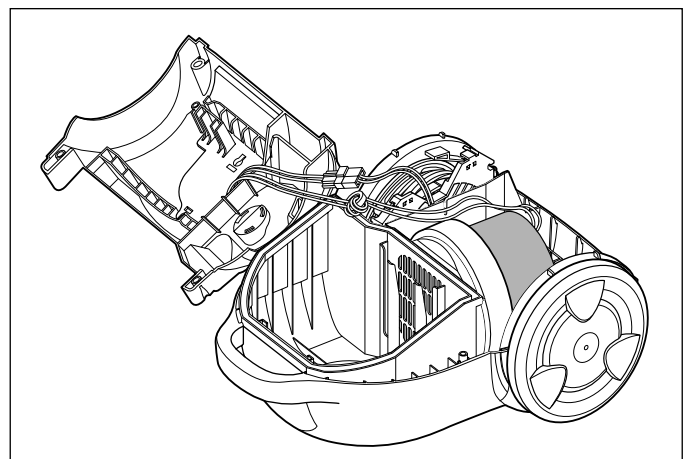
1) Remove the four screws fastening the body base.



2) Lift body cover in the direction of the arrow.

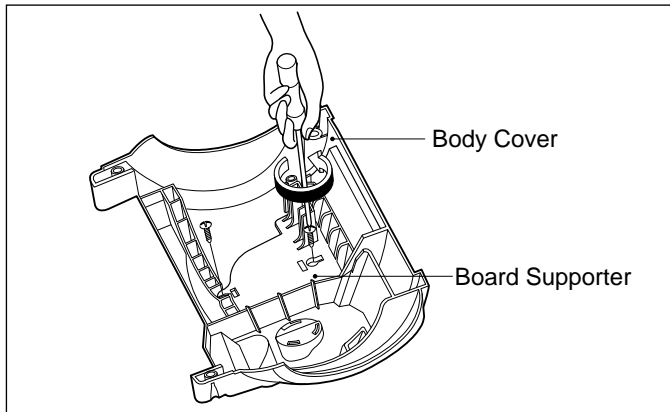


3) Strip off the lead wires from the motor & cord reel.

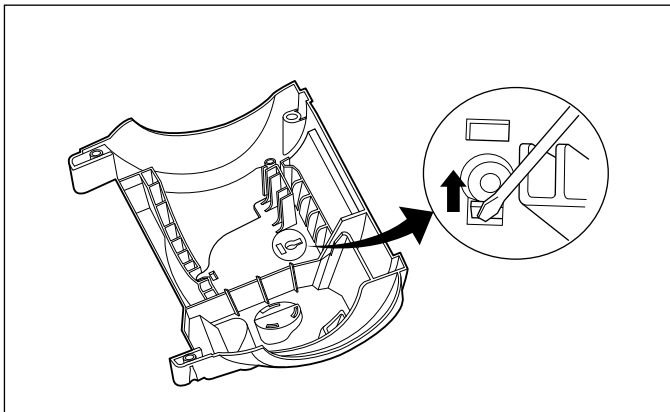


3. P.W.B Assembly Replacement

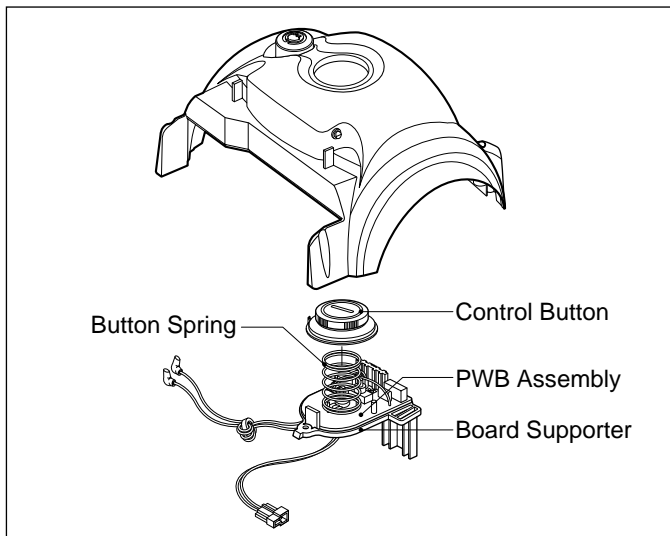
1) Remove a screw fastening "Board Supporter" on body cover



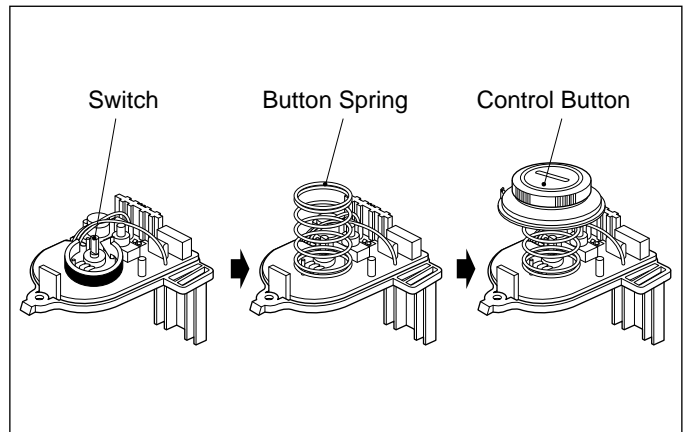
2) Push the flat driver in the direction of arrow.



3) Detach P.W.B assembly, control button, button spring and Board Supporter from body cover.

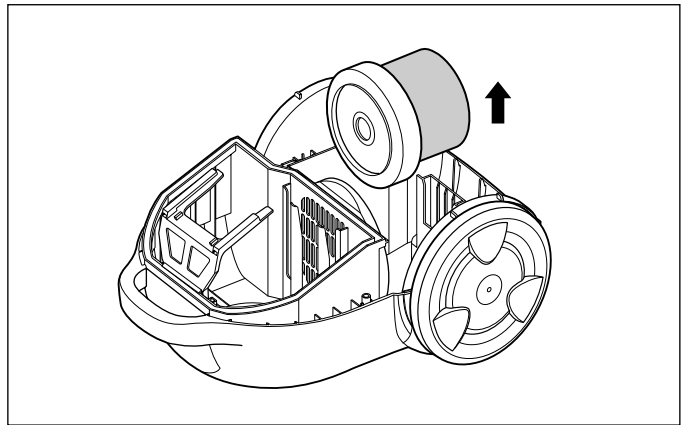


4) When reassembling, assemble control button after rotating the switch of P.W.B assembly in the direction of the arrow.



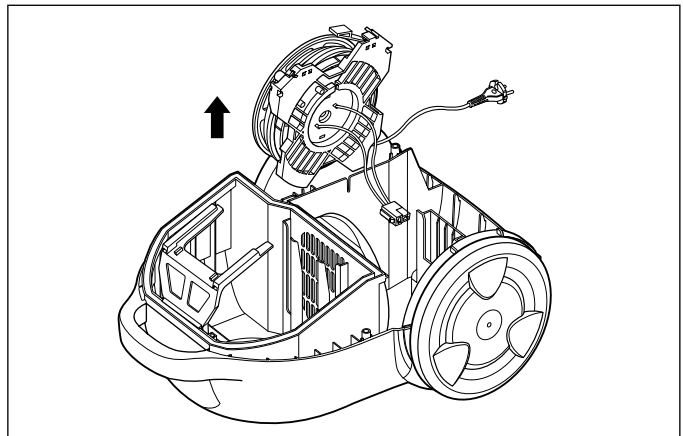
4. Motor Assembly Replacement.

• Lift the motor assembly in the direction of the arrow after stripping off the lead wires.



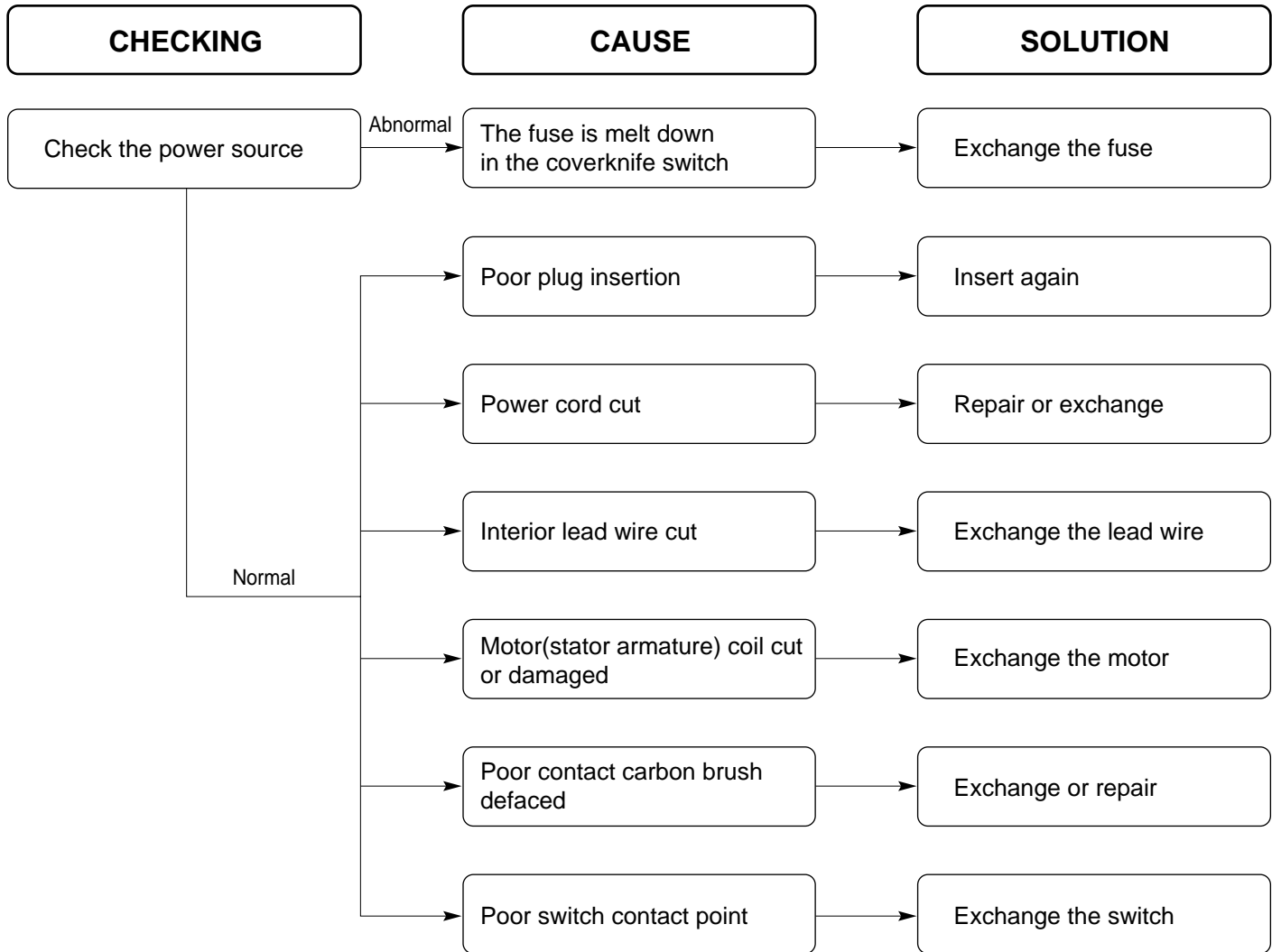
5. Cord Reel Assembly Replacement

• Lift the cord reel assembly from the body base in the direction of the arrow.

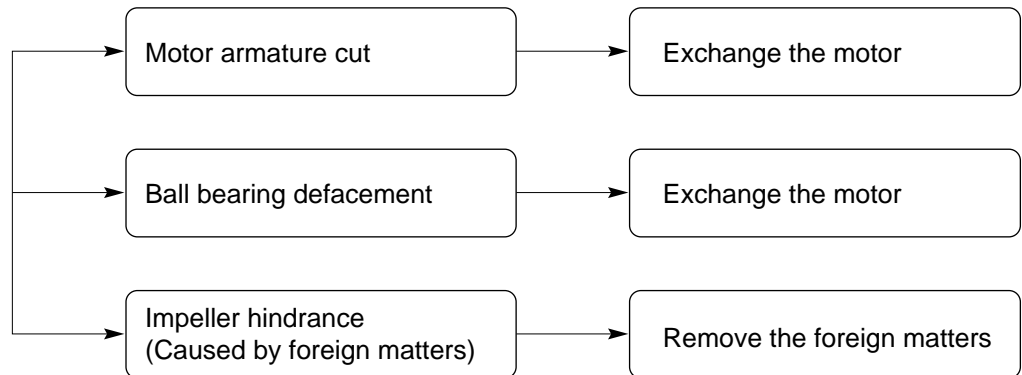


TROUBLE SHOOTING

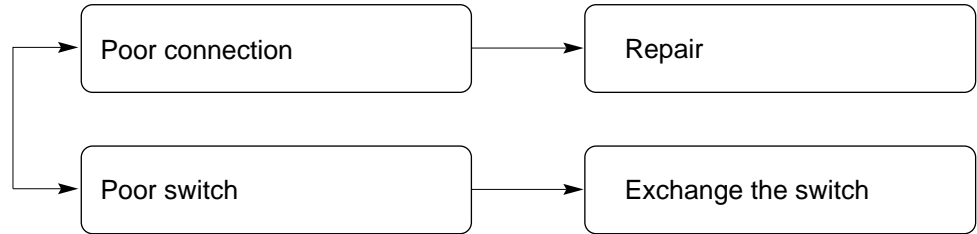
1. SWITCH ON BUT MOTOR DOES NOT RUN.



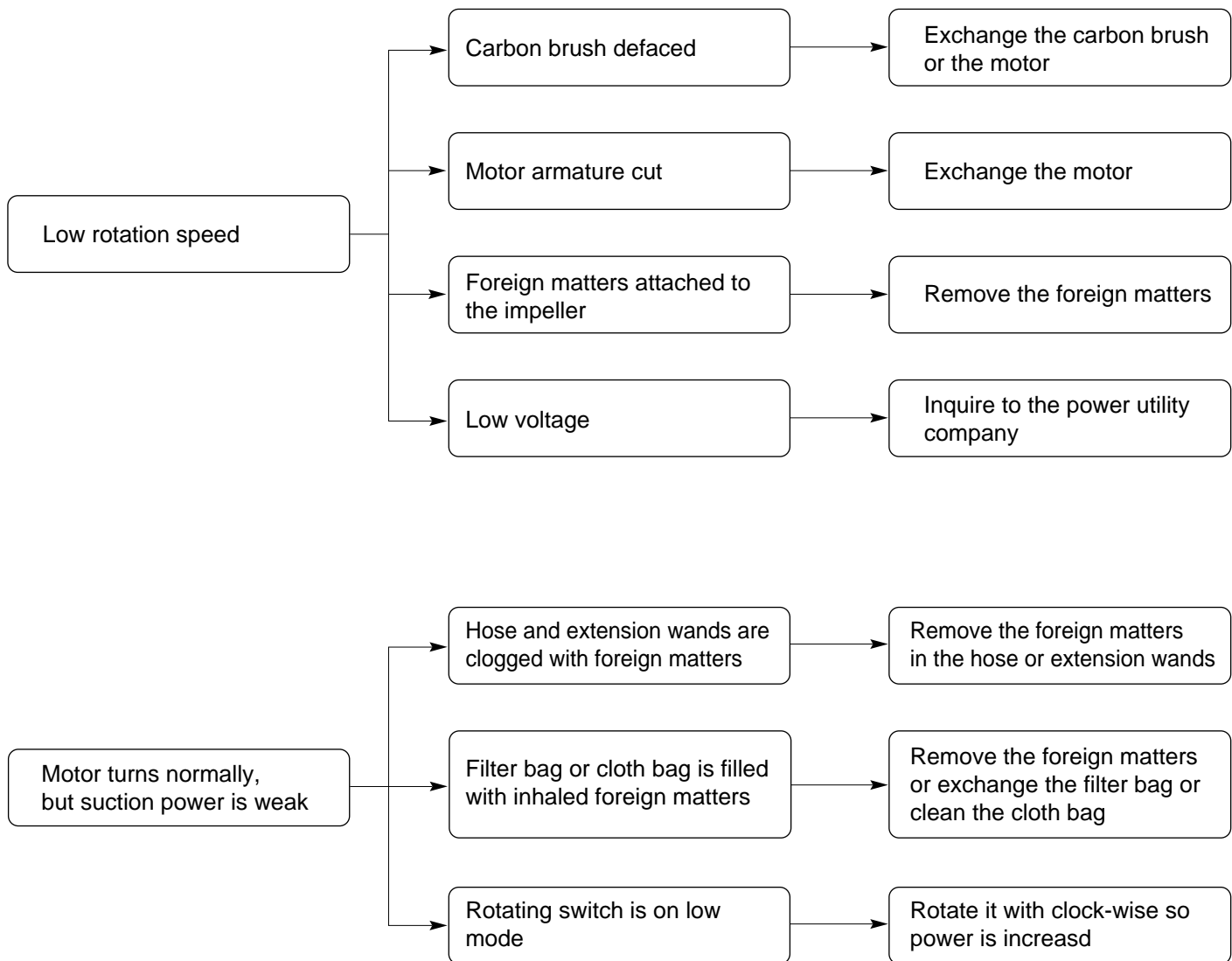
2. SWITCH ON, MOTOR DOES NOT RUN BUT BUZZES.



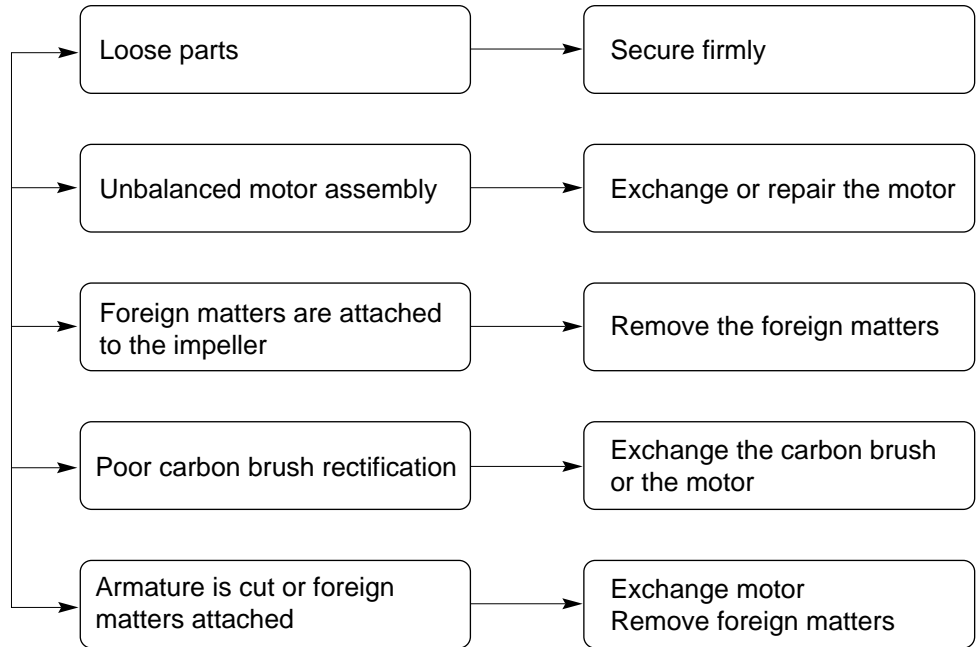
3. SWITCH OFF BUT MOTOR RUNS.



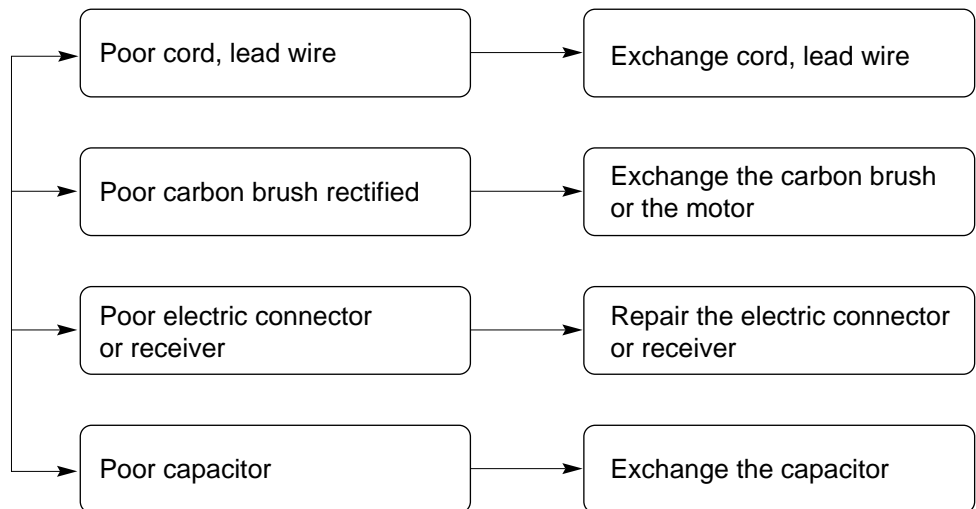
4. WEAK SUCTION POWER



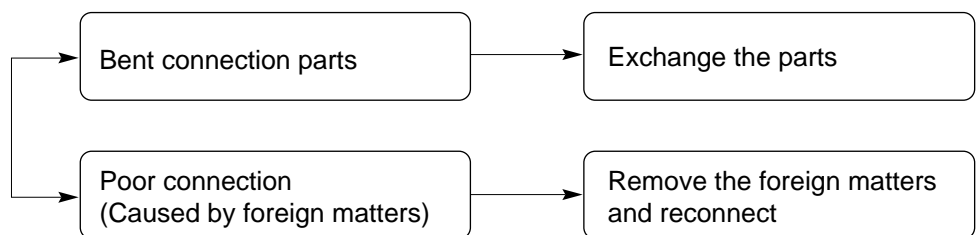
5. VIBRATION NOISES



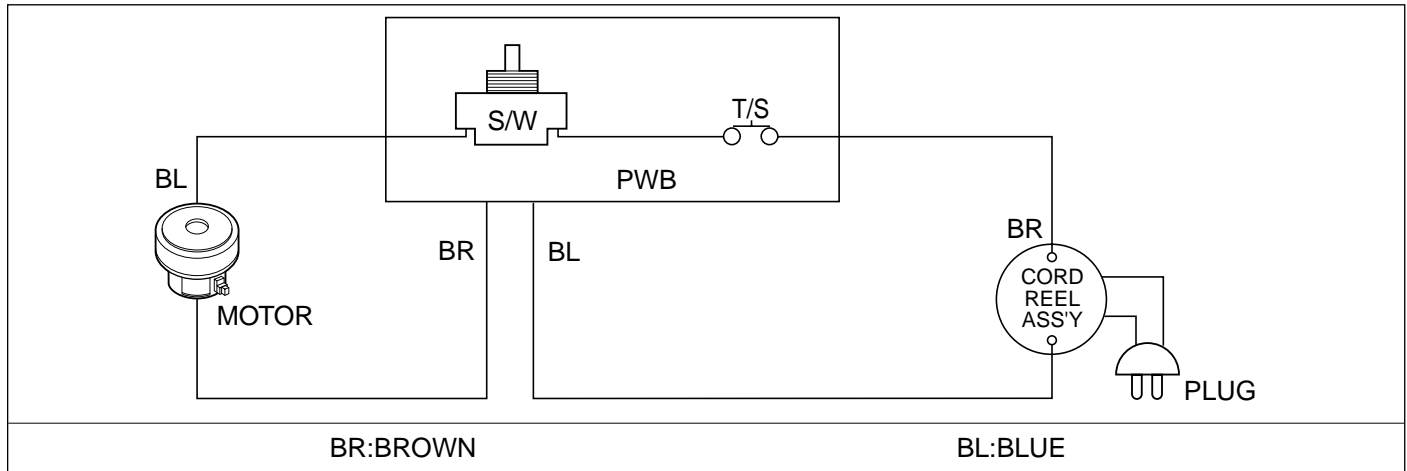
6. RADIO, TV RECEPTION DISTURBANCE



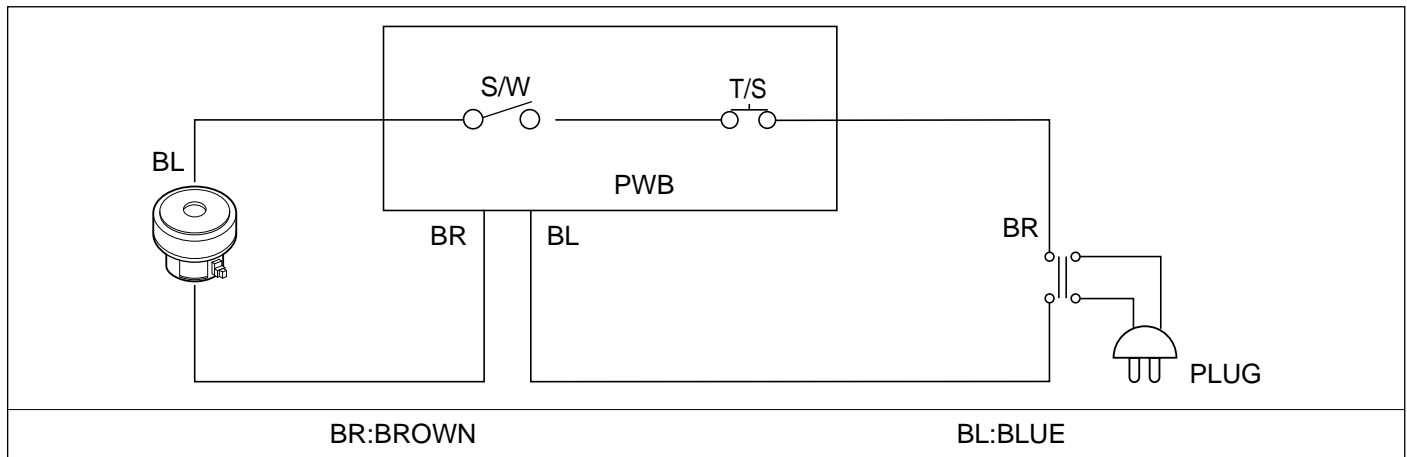
7. IMPROPER TUBE OR NOZZLE CONNECTION



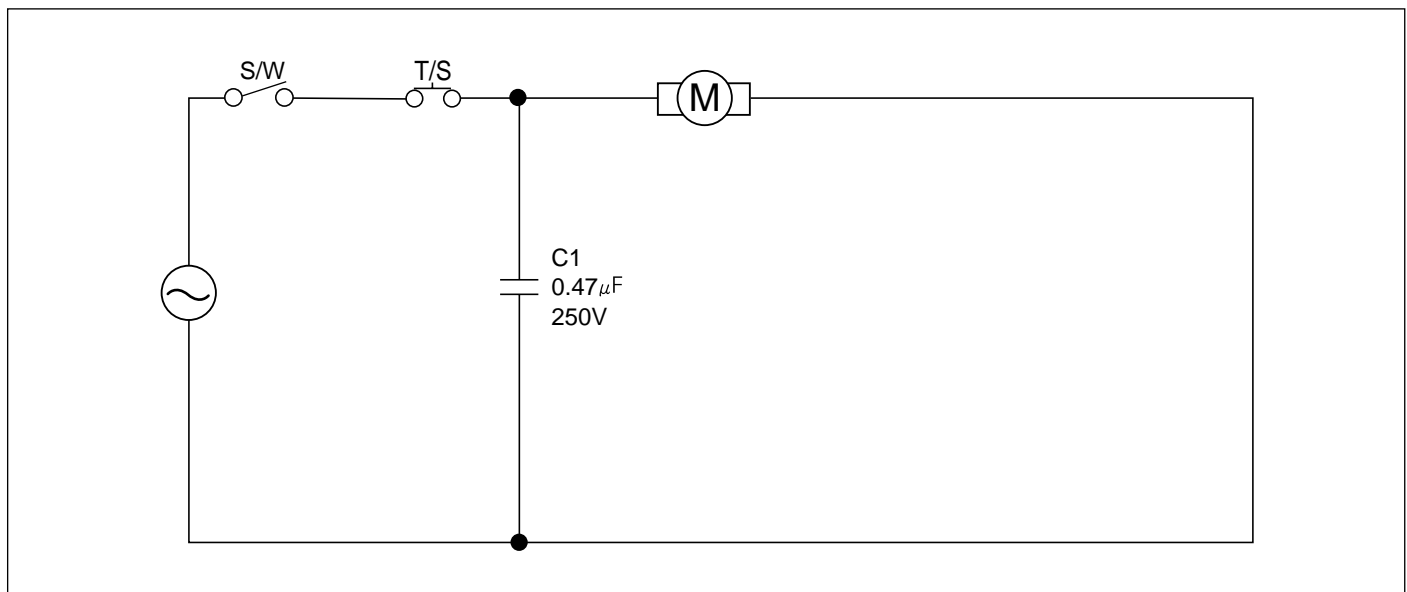
BLOCK DIAGRAM V-CP243NDN/NTN, V-C3143ND/NT



SCHEMATIC DIAGRAM

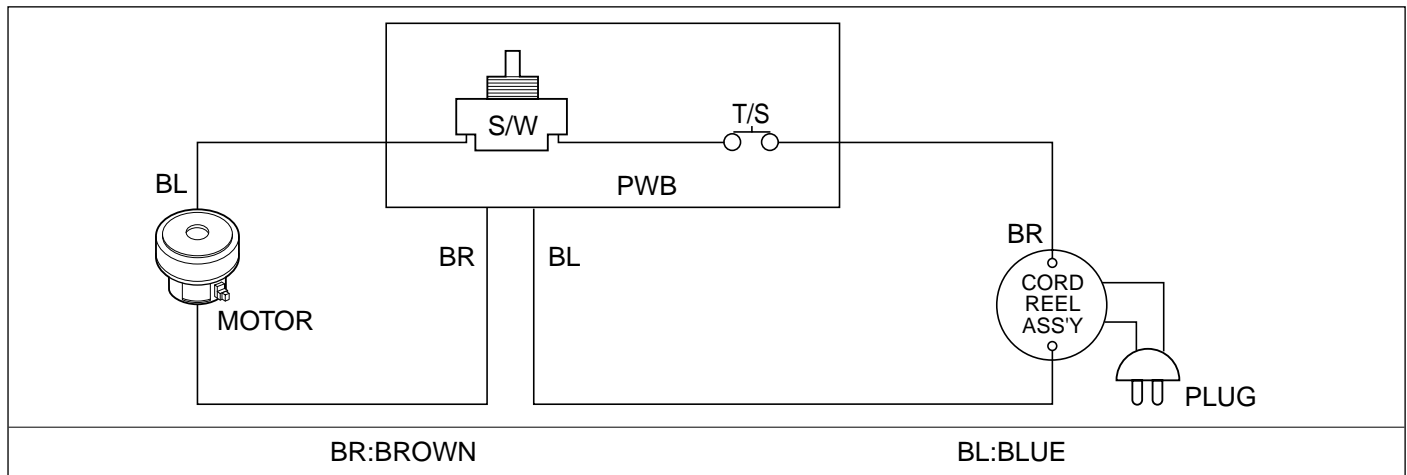


CIRCUIT DIAGRAM

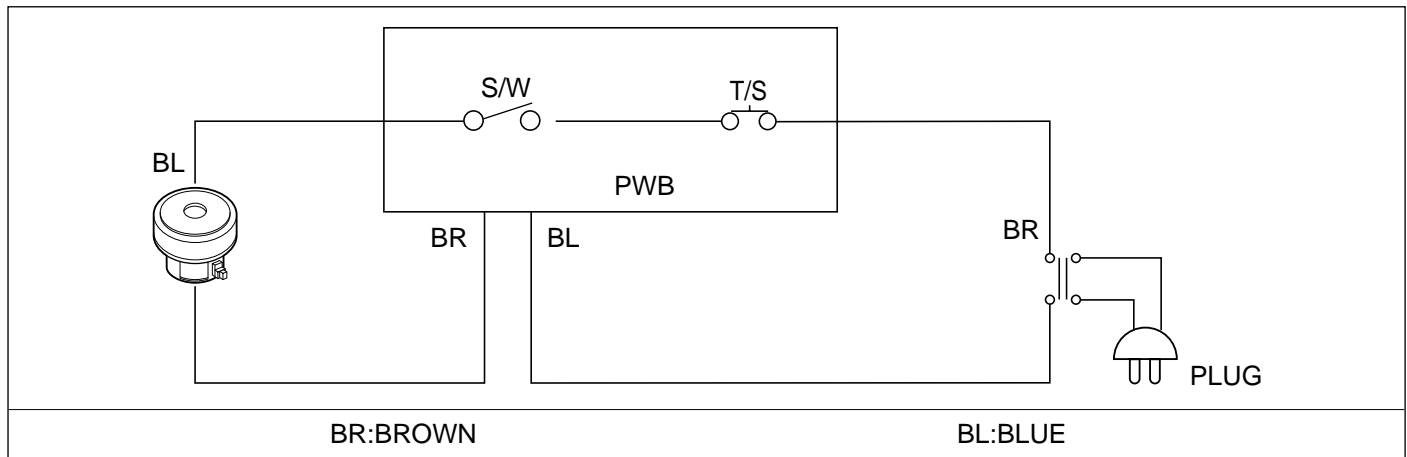


BLOCK DIAGRAM

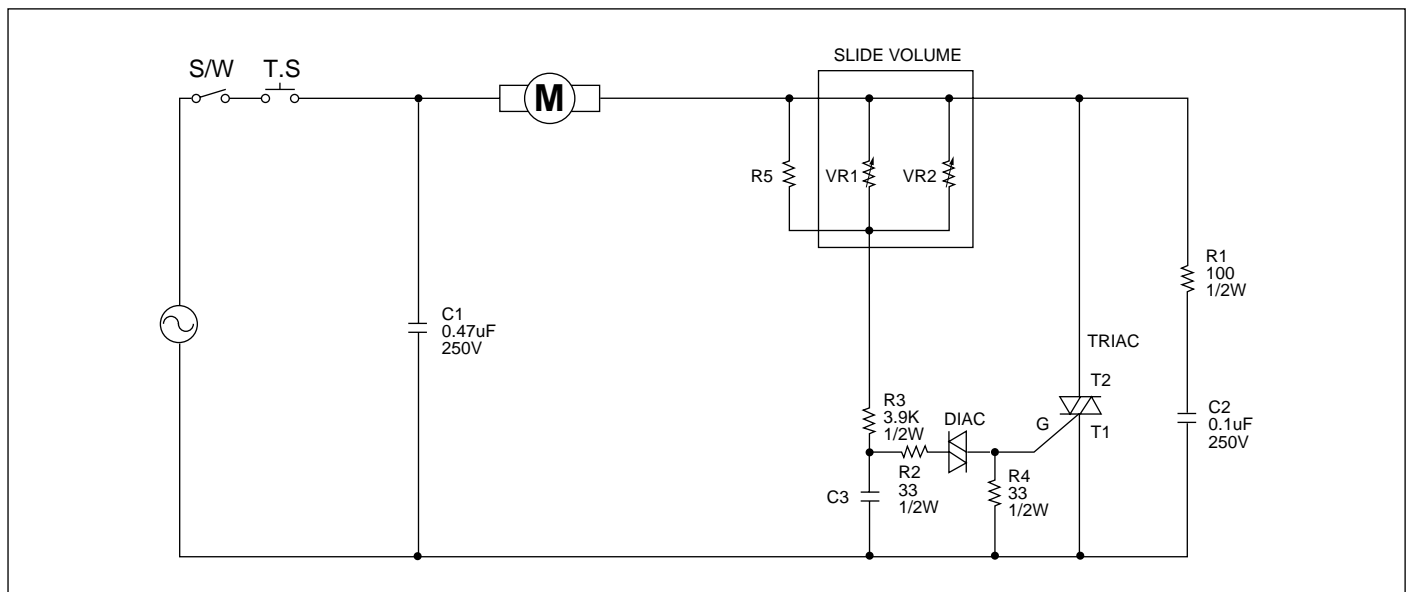
V-CP243RDN/RTN, V-C3143RD/RT



SCHEMATIC DIAGRAM

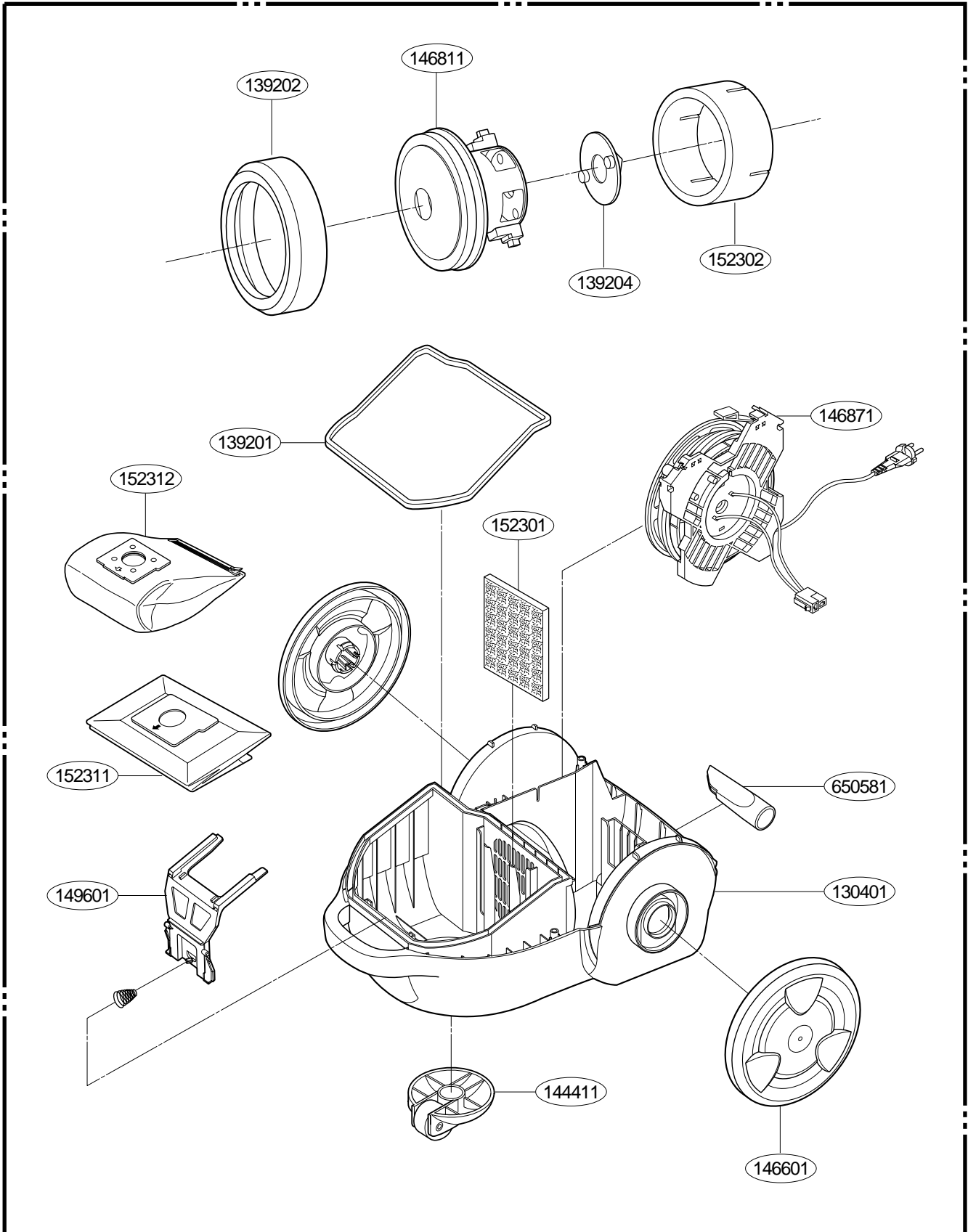


CIRCUIT DIAGRAM

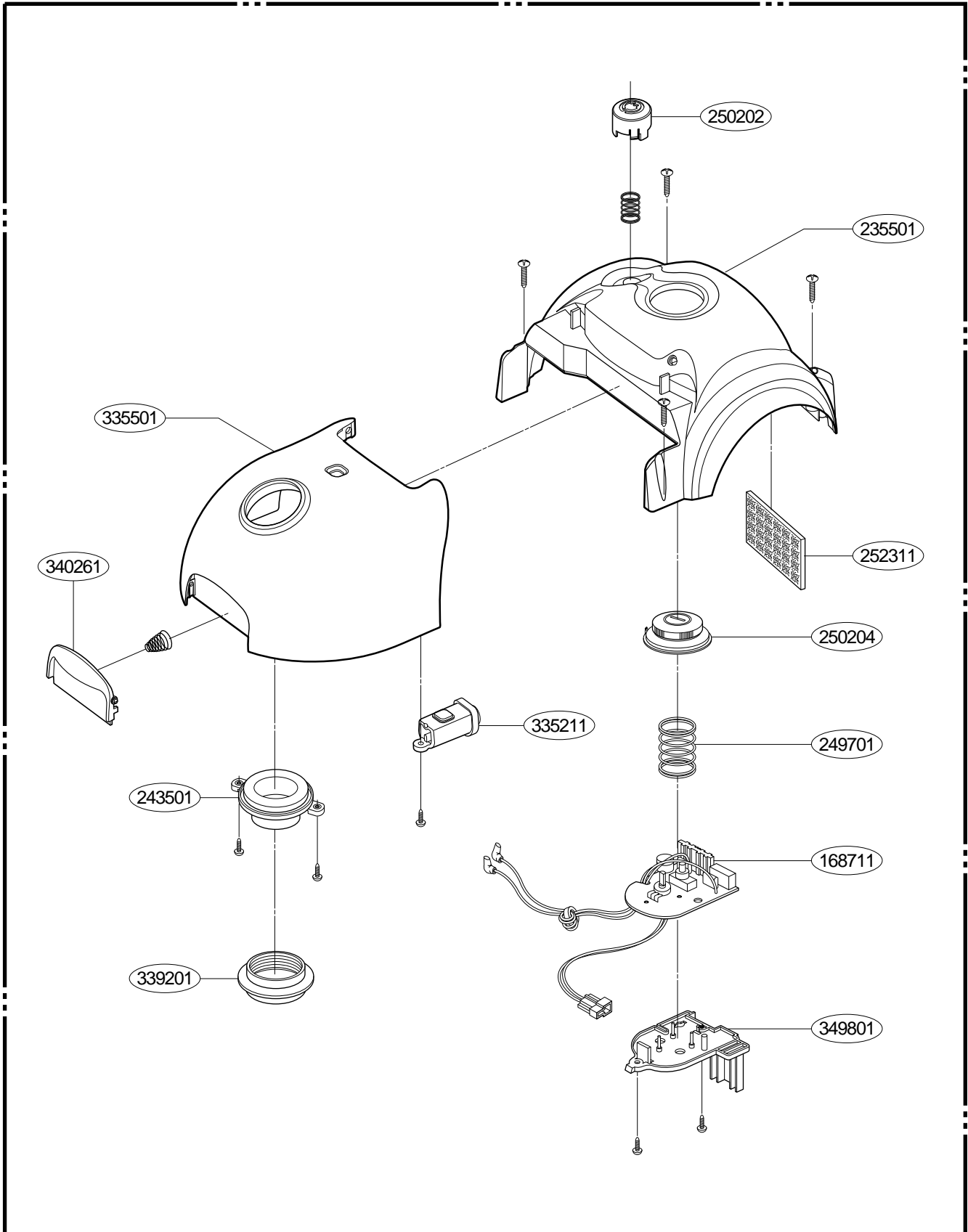


EXPLODED VIEW

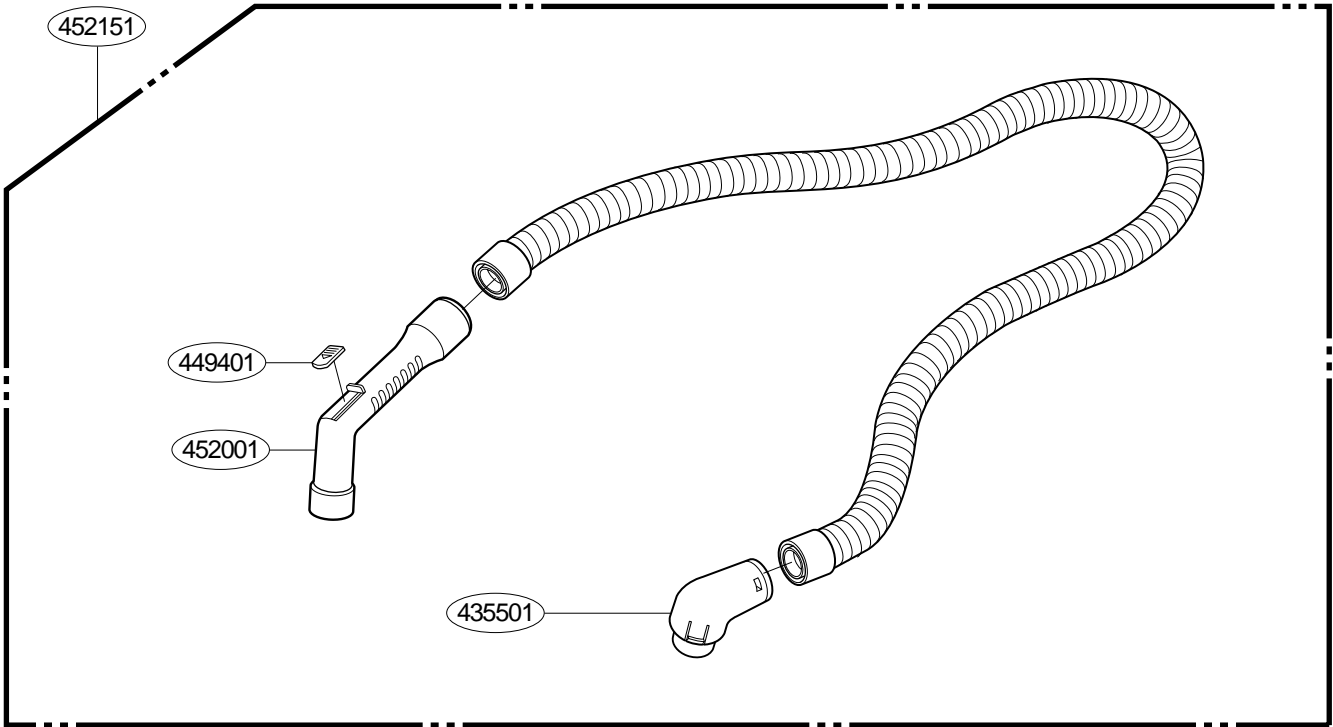
BASE ASSEMBLY, BODY



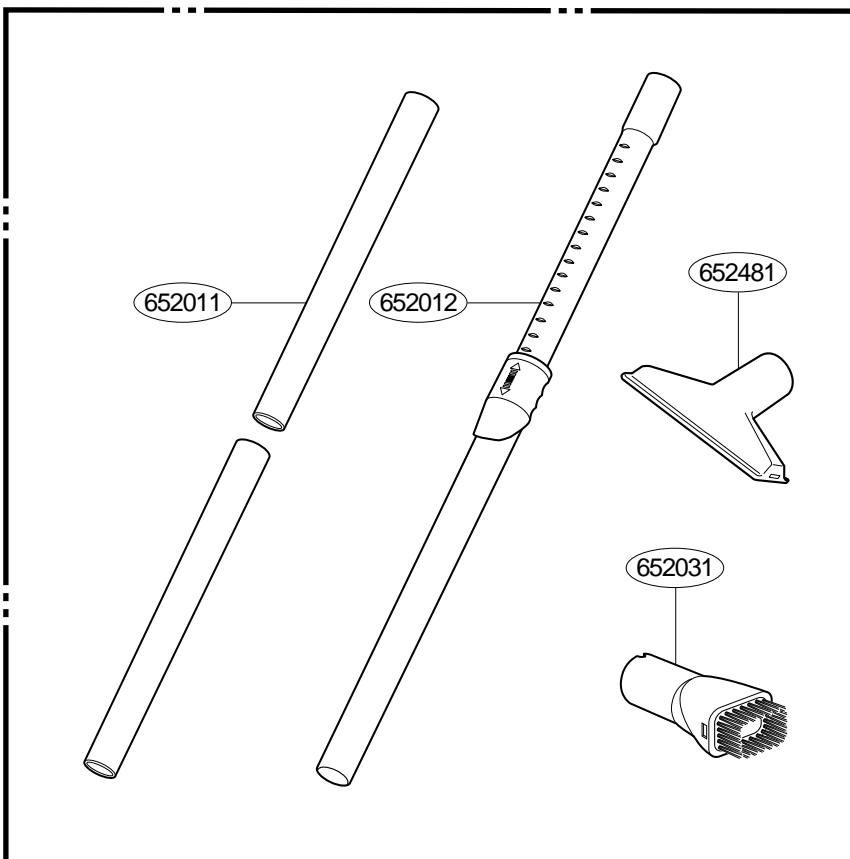
COVER ASSEMBLY, BODY



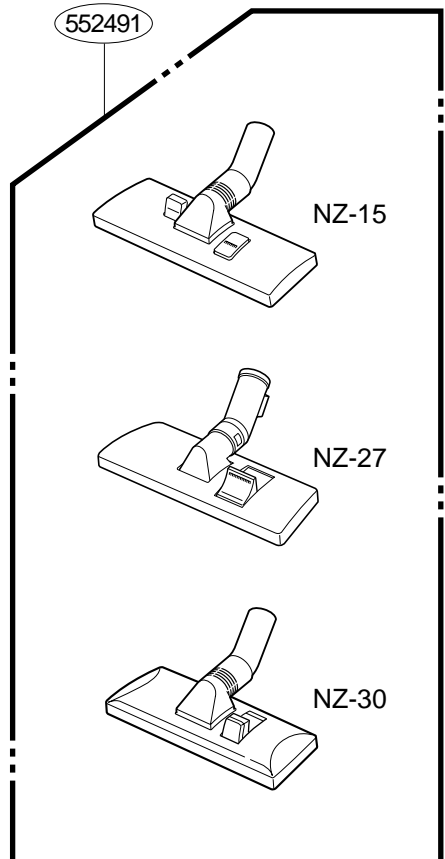
HOSE ASSEMBLY, FLEXIBLE



ACCESSORIES



NOZZLE ASSEMBLY

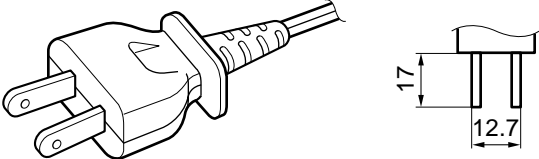
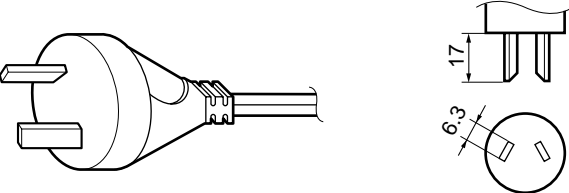
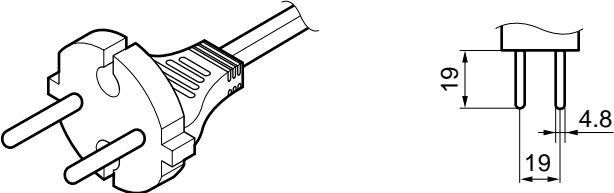
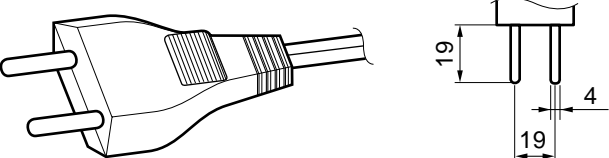
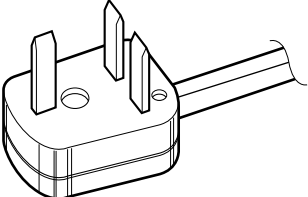


REPLACEMENT PARTS LIST

LOCATION No.	PART No.	DESCRIPTION	REMARK
139201	3920FI4718P	PACKING, DUST SEAL	
149601	4960FI2324A	MOUNT, BAG	
130401	3040FI1496A	BASE, BODY	SHADOW GRAY
	3040FI1496B		MIDDLE GRAY
152301	4170098K	FILTER, MOTOR SAFETY	
144411	4441FI3605C	CASTER ASS Y	BLACK
146601	4660FI2415A	WHEEL	SHADOW GRAY
	4660FI2415B		MIDDLE GRAY
152311	5231FI3512B	FILTER ASS Y, PAPER	
152312	5231FI2443A	FILTER ASS Y, CLOTH	
650581	3I21007N	TOOL, CREVICE	BLACK
	3I21007L		MIDDLE GRAY
146871	4687FI1475	CORD REEL ASS Y	Refer To Appendix
146811	4681FI2373	MOTOR ASS Y, VC	Refer To Appendix
139202	3920FI3600C	PACKING, MOTOR MOUNT	
152302	4I23008B	PACKING, ABSORBING	
139204	3920FI3763B	PACKING, SEAL	
335501	3550FI1607	COVER, FILTER	Refer To Appendix
340261	4026FI3675	LATCH	Refer To Appendix
243501	4350FI3778	RING, CONNECTOR	Refer To Appendix
339201	3920FI3734A	PACKING, FILTER	
335211	3521FI3703F	INDICATOR ASS Y	
235501	3550FI1608A	COVER, BODY	SHADOW GRAY
	3550FI1608B		MIDDLE GRAY
250204	5020FI3782	BUTTON, CONTROL	Rotary, Refer To Appendix
250204	5020FI3783	BUTTON, CONTROL	ON/OFF, Refer To Appendix
249701	4970FI3206A	SPRING, BUTTON	For Button, Control
250202	5020FI3781	BUTTON, CORD RELL	Refer To Appendix
252311	5230FI3767A	FILTER, EXHAUST	
349801	4980FI2427A	SUPPORTER, BOARD	Rotary Type
349801	4980FI2428A	SUPPORTER, BOARD	ON/OFF Type
168711	6871FX2148	PWB(PCB) ASS Y	Rotary, Refer To Appendix
168711	6871FX2153	PWB(PCB) ASS Y	ON/OFF, Refer To Appendix
452151	5215FI1306J	HOSE ASS Y, FLEXIBLE	
452001	3650FI2275A	HANDLE, GRIP	
449401	4940FI4292B	KNOB, SLIDE	
435507	5200FI2269A	PIPE, FITTING	
552491	5249FI1387A	NOZZLE ASS Y, FLOOR	NZ-15
	5249FI2449A		NZ-27
	5249FI1404A		NZ-30
652011	5201FI2324A	PIPE ASS Y, STEEL	
652012	5201FI2443E	PIPE ASS Y, TELESCOPIC	
652031	3I20011E	BRUSH ASS Y, DUST	BLACK
	3I20011H		MIDDLE GRAY
652481	5249FI2259A	NOZZLE ASS Y, UPHOLSTERY	BLACK
	5249FI2259B		MIDDLE GRAY

APPENDIX

1. THE TYPE OF POWER CORD & PARTS NUMBER

TYPE	TYPE OF PLUG	CORD REEL ASS'Y P/NO (L/NO.:146871)	APPLICATION								
A-1											
S-1											
C-2											
C-1											
B-3	 <table border="1" data-bbox="710 1628 971 1809"> <thead> <tr> <th colspan="2">Color identification of fuse</th> </tr> </thead> <tbody> <tr> <td>Brown</td> <td>13A</td> </tr> <tr> <td>Yellow</td> <td>5A</td> </tr> <tr> <td>Blue</td> <td>3A</td> </tr> </tbody> </table>	Color identification of fuse		Brown	13A	Yellow	5A	Blue	3A		
Color identification of fuse											
Brown	13A										
Yellow	5A										
Blue	3A										

2. COLOR & PARTS NUMBER

LOCATION NO.	DESCRIPTION	COLOR				
		COBALT BLUE	SHADOW GRAY	LIGHT SILVER	MIDNIGHT BLUE	DEEP RED
335501	COVER, FILTER	3550FI1607A		3550FI1607B	3550FI1607C	3550FI1607D
340261	LATCH	4026FI3675A		4026FI3675B	4026FI3675C	4026FI3675D
243501	RING, CONNECTOR	4350FI3778A		4350FI3778B	4350FI3778C	4350FI3778D
250202	BUTTON, CORD REEL		5020FI3781A			
250204	BUTTON, CONTROL (for Rotary)	5020FI3782A		5020FI3782B	5020FI3782C	5020FI3782D
250204	BUTTON, CONTROL (for ON/OFF)	5020FI3783A				

LOCATION NO.	DESCRIPTION	COLOR				
335501	COVER, FILTER					
340261	LATCH					
243501	RING, CONNECTOR					
250202	BUTTON, CORD REEL					
250204	BUTTON, CONTROL (for Rotary)					
250204	BUTTON, CONTROL (for ON/OFF)					

LOCATION NO.	DESCRIPTION	COLOR				
335501	COVER, FILTER					
340261	LATCH					
243501	RING, CONNECTOR					
250202	BUTTON, CORD REEL					
250204	BUTTON, CONTROL (for Rotary)					
250204	BUTTON, CONTROL (for ON/OFF)					

LOCATION NO.	DESCRIPTION	COLOR				
335501	COVER, FILTER					
340261	LATCH					
243501	RING, CONNECTOR					
250202	BUTTON, CORD REEL					
250204	BUTTON, CONTROL (for Rotary)					
250204	BUTTON, CONTROL (for ON/OFF)					

3. MOTOR & P.W.B ASS'Y & CORD REEL ASS'Y PARTS NUMBER

L/NO.	P/NO	DESCRIPTION	REMARK
146811	4681FI2373B	MOTOR ASS'Y, VC	VMC-500E1, 220V 50 / 60Hz
146811	4681FI2373C	MOTOR ASS'Y, VC	VMC-500E3, 240V 50Hz
146811	4681FI2373D	MOTOR ASS'Y, VC	VMC-500E5, 230V 50Hz
146811	4681FI2373F	MOTOR ASS'Y, VC	VMC-500L1, 110V 60Hz
146811	4681FI2373G	MOTOR ASS'Y, VC	VMC-500L2, 120V 60Hz

146871	4687FI1475H	CORD REEL ASS'Y	B-3, 5m, United Kingdom
146871	4687FI1475K	CORD REEL ASS'Y	C-2, 5m
146871	4687FI1475L	CORD REEL ASS'Y	C-1, 5m, chile
146871	4687FI1475T	CORD REEL ASS'Y	C-1, 5m
146871	4687FI1477F	CORD REEL ASS'Y	C-2, 6m

168711	6871FX2148C	PWB(PCB) ASS'Y	230V / 50Hz, VMC-500E5, for Rotary
168711	6871FX2153C	PWB(PCB) ASS'Y	230V / 50Hz, VMC-500E5, for ON/OFF

MEMO



P/No. : 3828Fi5870A

June 2002
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