



VACUUM CLEANER **SERVICE MANUAL**

CAUTION

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

MODEL : V-C3850ND/NT/NDV/NTV/RD/RT/RDV/RTV
V-C3852ND/NT/NDV/NTV/RD/RT/RDV/RTV
V-C3854RTV
V-C3860RD/RT/RDV/RTV



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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 clean 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 clean 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.

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 telescopic tube, hose or dust bag is clogged or not.

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

SERVICING PRECAUTIONS

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.

SPECIFICATIONS

• **MODEL** : REFER TO THE COVER PAGE

• **POWER SOURCE** : ON RATING PLATE

• **POWER CONSUMPTION** : ON RATING PLATE

• **POWER CONTROL** :

- **MAIN** : ROTARY ON BODY

(V-C3850RD/RT/RDV/RTV)

(V-C3854RTV)

(V-C3860RD/RT/RDV/RTV)

ON/OFF ON BODY

(V-C3850ND/NT/NDV/NTV)

(V-C3852ND/NT/NDV/NTV)

- **SUB** : VACUUM POWER ADJUSTMENT BY SLIDE KNOB

• **CAPACITY** : 3.3 ℓ

• **CORD LENGTH** : 7 m

• **HOSE LENGTH** : 1.5 m / 1.8 m

• **NET WEIGHT** : 4.1 kg

• **PACKING WEIGHT** : 7.0 kg

• **NET DIMENSION** : 400 × 280 × 220 (L × W × H)mm

• **PACKING DIMENSION** : 495 × 330 × 290 (L × W × H)mm
(with steel pipe)
565 × 330 × 290 (L × W × H)mm
(with telescopic pipe)

• This specifications are subject to change according to the buyer's request.

• ATTACHMENTS

HOSE 1EA

STEEL PIPE ASS'Y..... 2EA

TELESCOPIC PIPE ASS'Y 1EA

PLASTIC PIPE 2EA

NOZZLE ASS'Y1EA

CREVICE TOOL (ON BOARD) 1EA

DUST BRUSH (ON BOARD).....1EA

CLOTH BAG ASS'Y (OPTION)1EA

EXTRA PAPER BAG ASS'Y (PAPER, OPTION)1EA

UPHOLSTERY NOZZLE(OPTION)1EA

QUILT, NOZZLE ASM(OPTION).....1EA

FEATURES

THIS VACUUM CLEANER IS THE MOST MODERN STYLE GOODS, SUITABLE FOR HOUSEHOLD USE AND IT RUNS AFTER A NEW VARIATION IN ORDER TO MEET MODERN LIFE SENSE BY IMPROVING THE DESIGN, THE STRUCTURE AND THE POWER.

1. Strong Suction Power

This vacuum cleaner has a strong suction power because it utilizes a highly efficient and powerful motor.

2. Automatic Cord Winding Mechanism

It is very convenient because it winds the cord automatically after operating the unit.

3. Vacuum Power Adjustment

It is very convenient because vacuum power varies with cleaning work by rotating the control button.

4. Convenient Push Button Switch

Using the switch located in the main body, this vacuum cleaner can be operated easily.

5. Excellent Running

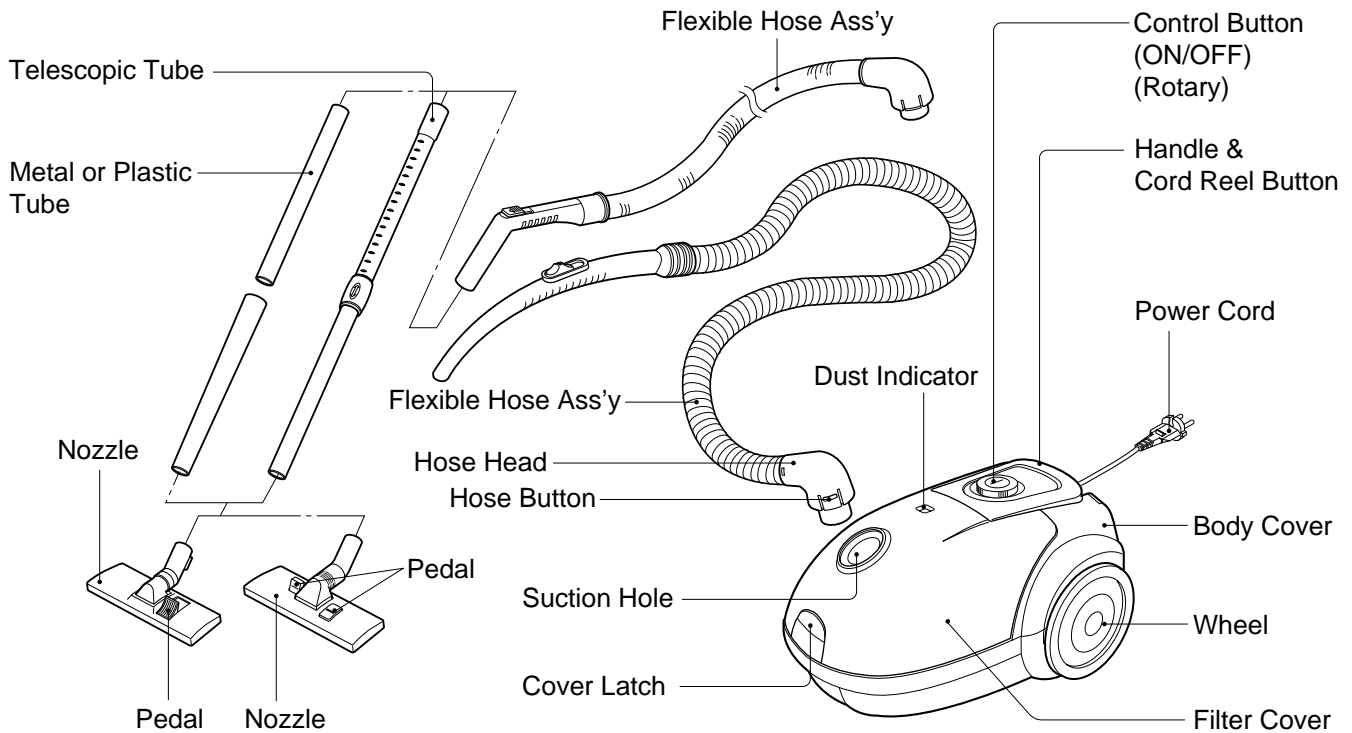
Running is excellent by adopting large wheel.(~ 150)

6. Miscellaneous

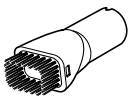
1) The dust indicator shows you red color when to exchange the filter bag or to clean the cloth bag.

2) The washable cloth bag can be used for a long time.

CONTROL LOCATION



ATTACHMENTS



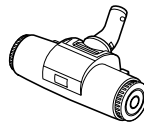
Dusting Brush
(On Board)



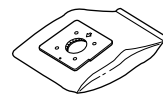
Crevice Tool
(On Board)



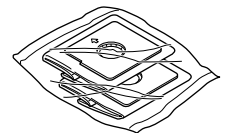
Upholstery Nozzle
(Option)



Quilt Nozzle Ass'y
(Option)

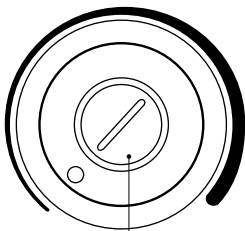


Cloth Bag
(Option)



Filter Bag
(Option)

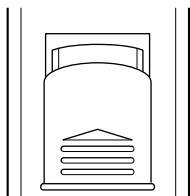
CONTROL PANEL



Control Button

To allow precise regulation of the suction power of the vacuum cleaner or to suit the type of cleaning work being undertaken, simply rotate the control button, or push "Control Button"

VACUUM POWER ADJUSTMENT



When you want to control the vacuum power for curtains and clothes, slide the slide knob on the handle.

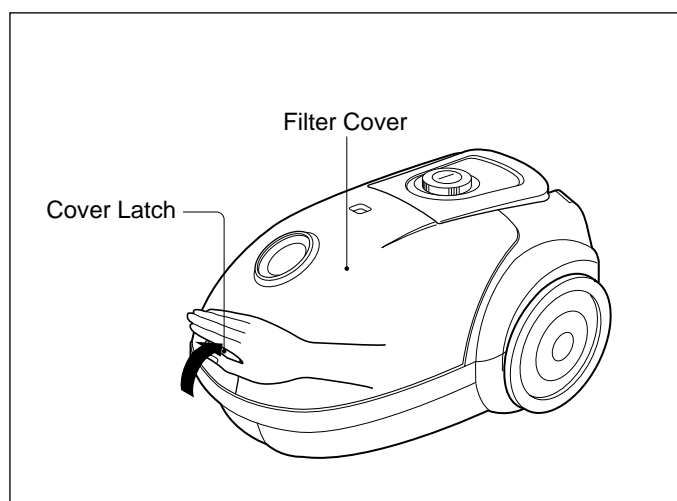
DISASSEMBLY INSTRUCTIONS

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

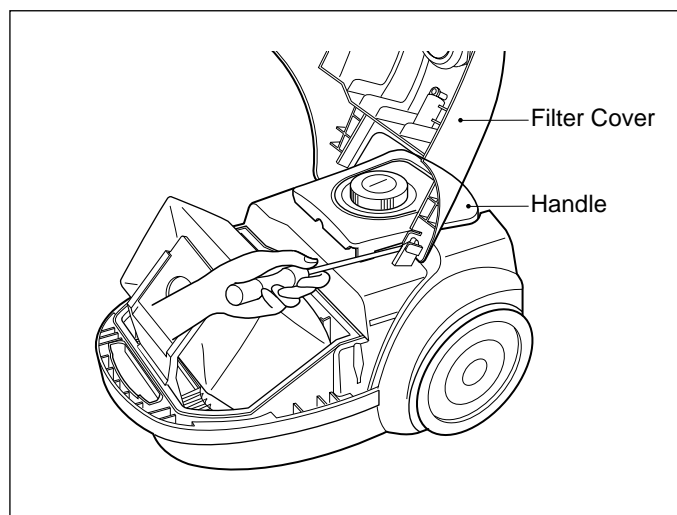
- Almost all of the parts of this vacuum cleaner can be disassembled with a screw driver and each connecting component easily fits each other. Disassemble one by one referring to the exploded view.
- If possible, don't disassemble except for the necessary parts. It is not necessary to disassemble the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

1. Filter Cover Assembly Replacement

- 1) Open filter cover by pushing cover latch.

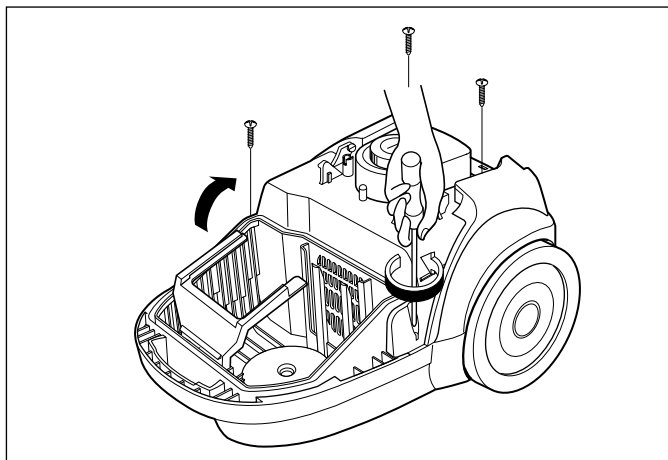


- 2) First, lift the filter cover
- Push the hinge side by inserting flat screw driver in gap between hinge and handle. Then the "Handle" will be detached.
 - As same method, detach the filter cover.

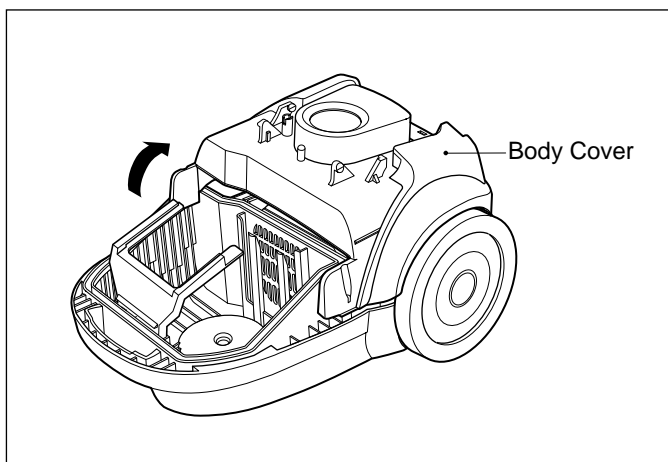


2. Body Cover Assembly Replacement

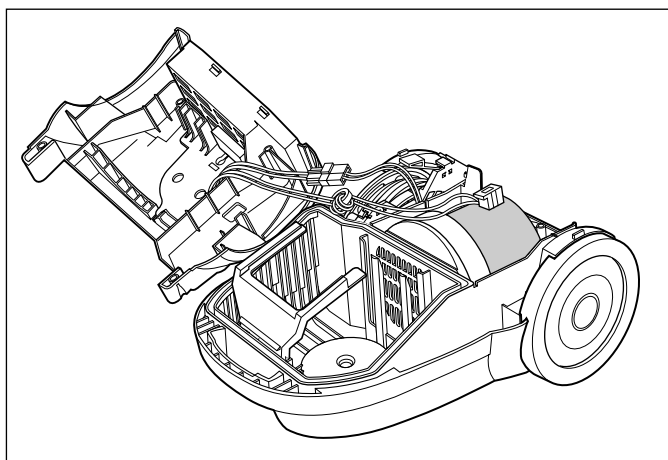
- 1) Remove the four screws fastening the body base.



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

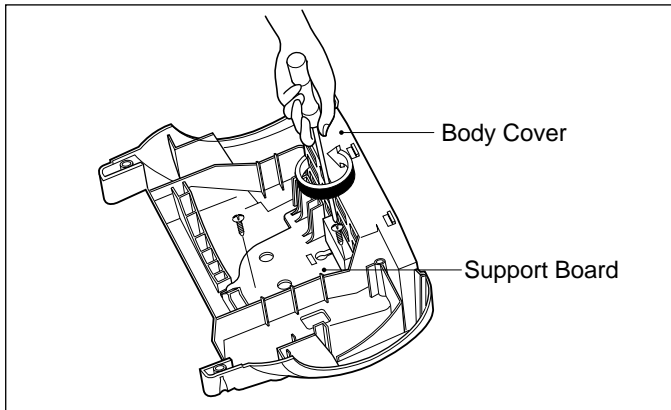


- 3) Strip off the lead wires from the motor & cord reel.

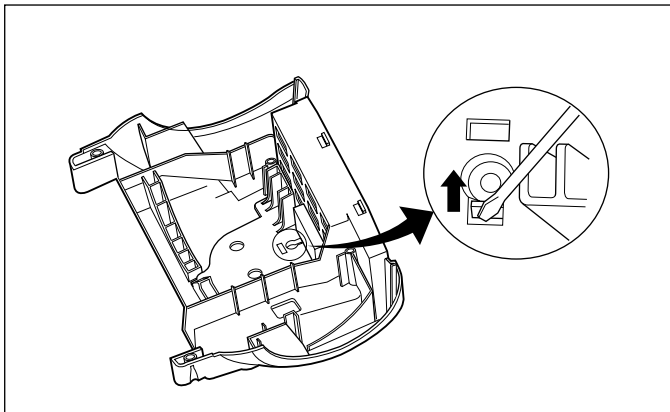


3. P.W.B Assembly Replacement

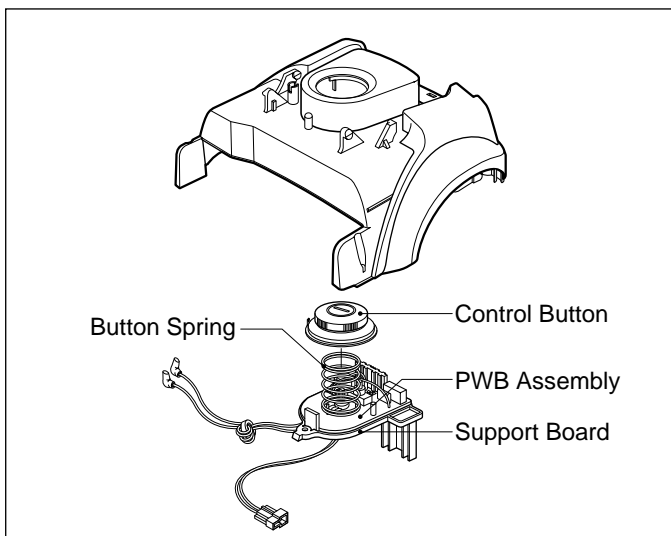
1) Remove a screw fastening "Support Board" on body cover



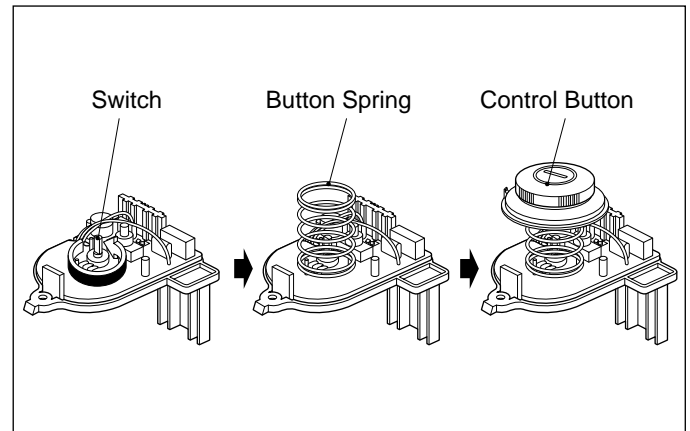
2) Push the flat driver in the direction of arrow.



3) Detatch P.W.B assembly, control button, button spring and support board from body cover.

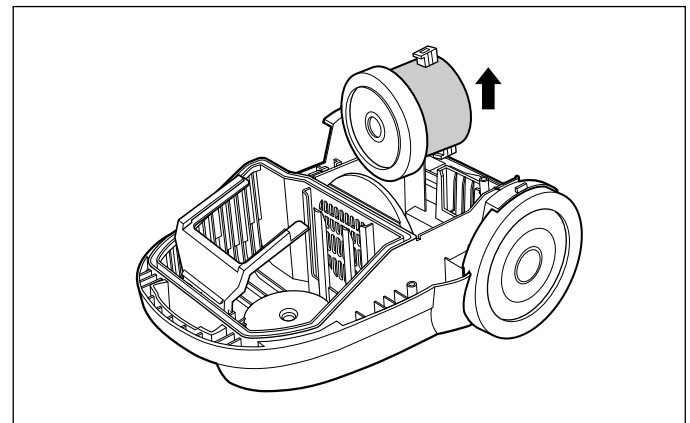


4) When reassembling, assemble control button after rotating the switch of P.W.B assembly in the direction of the arrow.



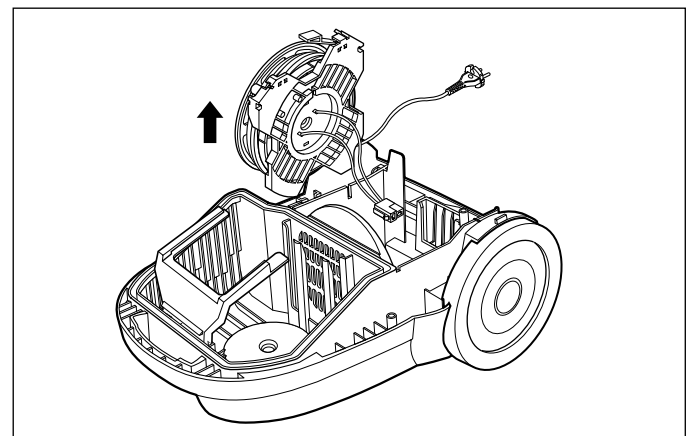
4. Motor Assembly Replacement.

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



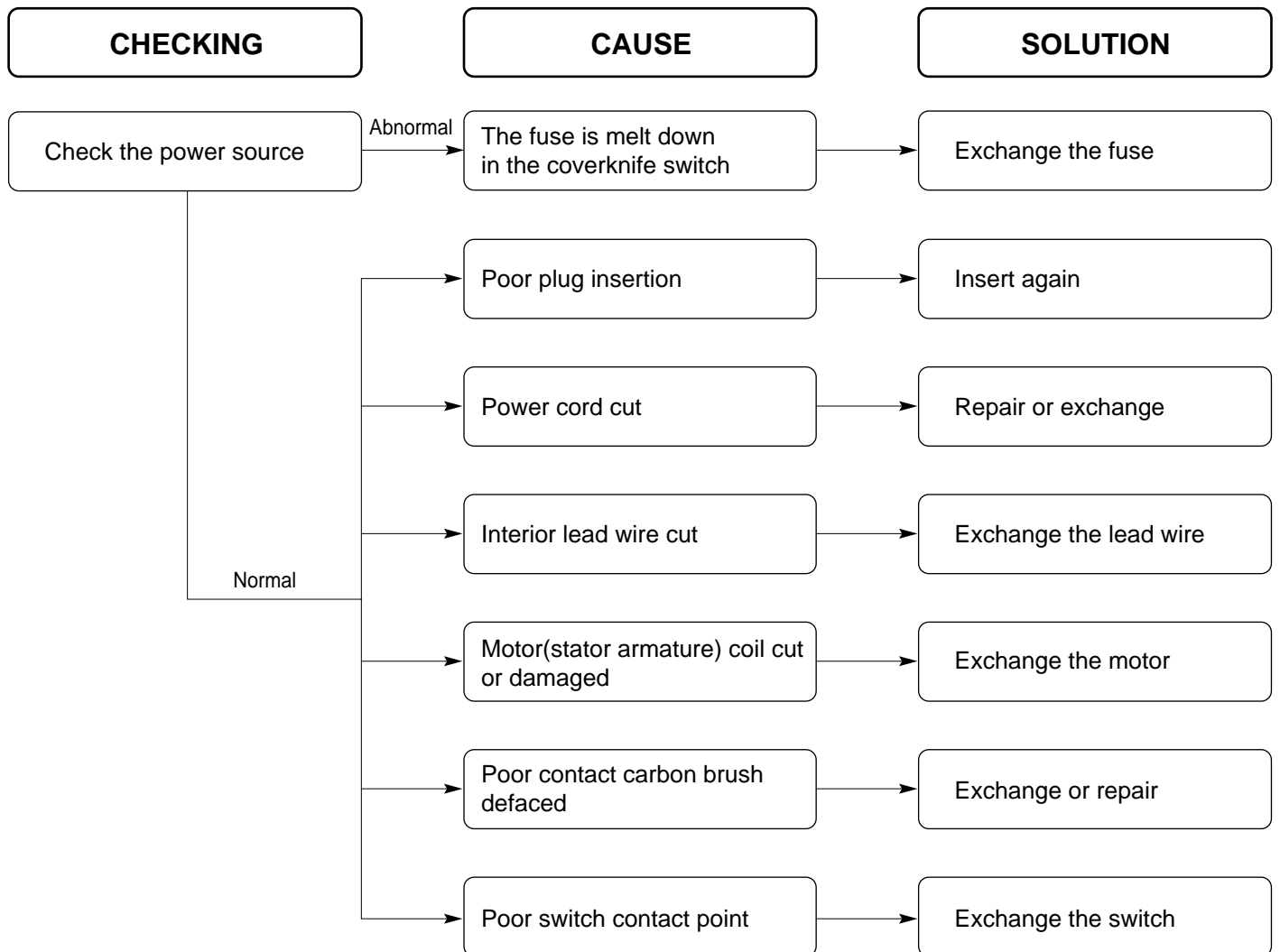
5. Cord Reel Assembly Replacement

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

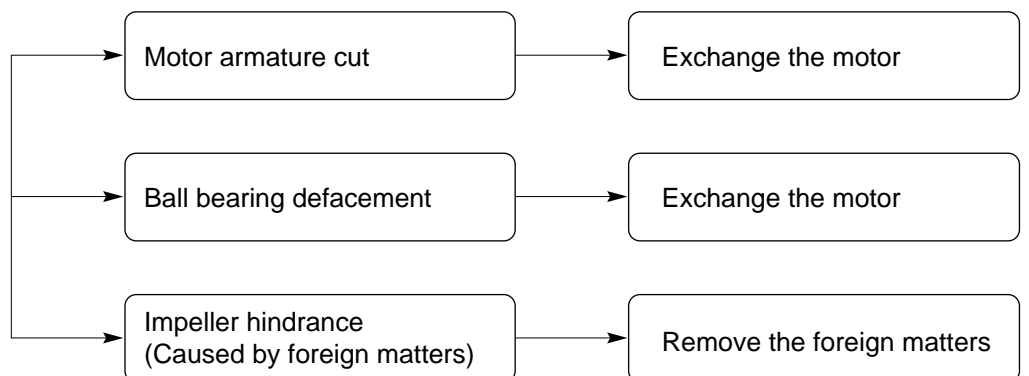


TROUBLE SHOOTING GUIDE

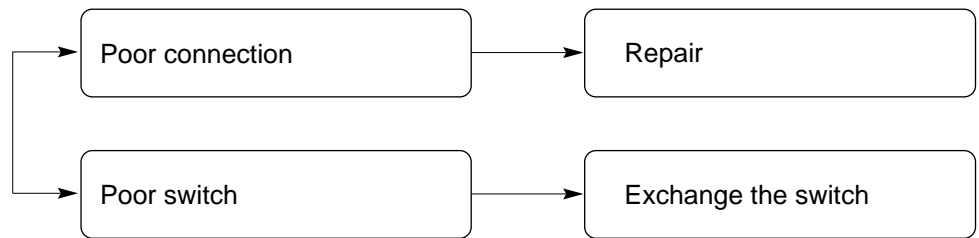
1. SWITCH ON BUT MOTOR DOES NOT RUN.



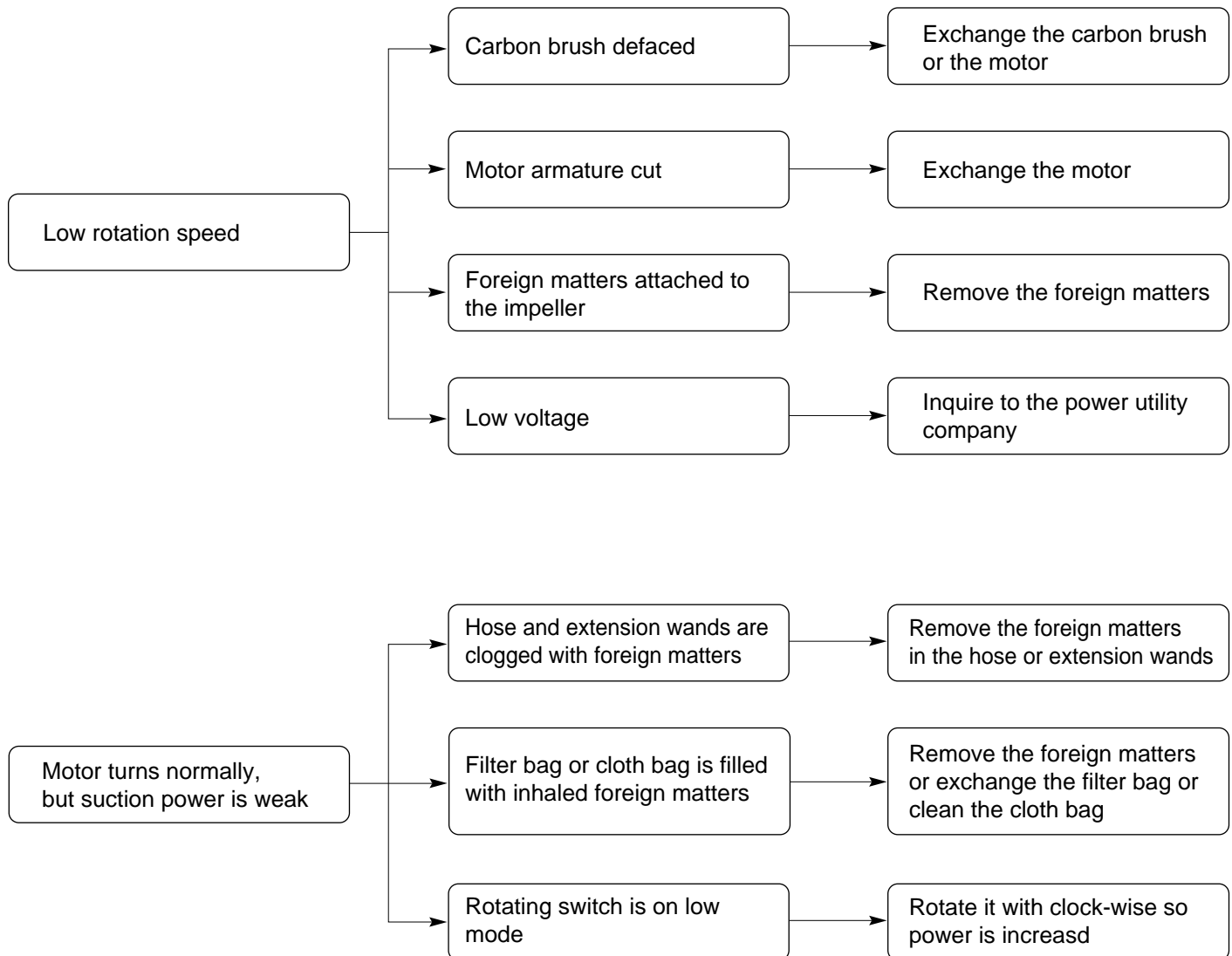
2. SWITCH ON, MOTOR DOES NOT RUN BUT BUZZES.



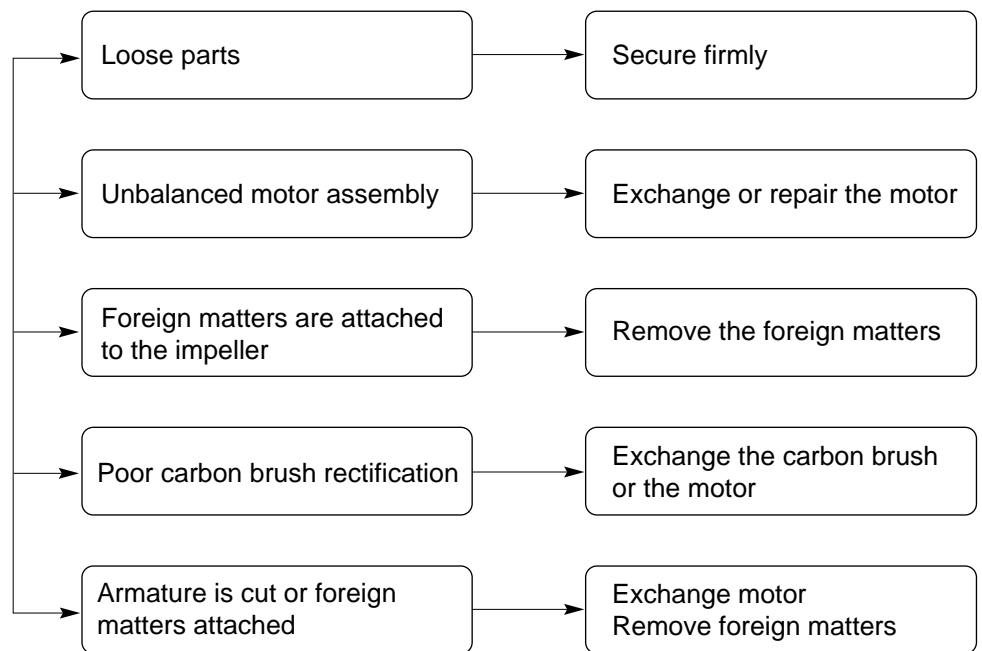
3. SWITCH OFF BUT MOTOR RUNS.



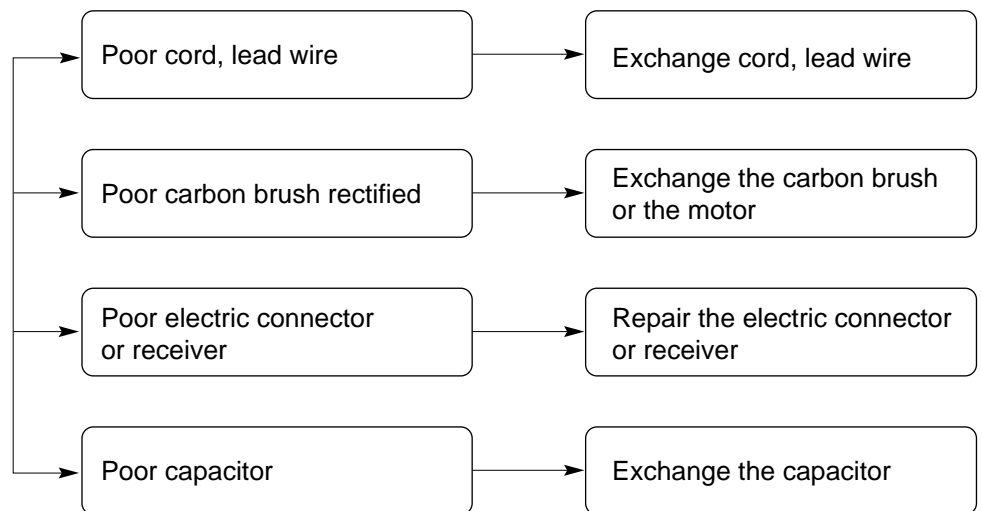
4. WEAK SUCTION POWER



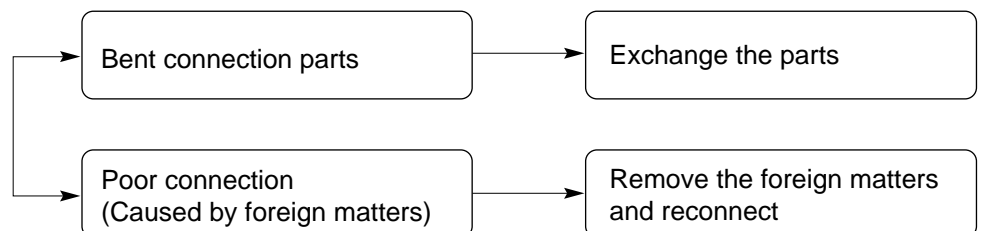
5. VIBRATION NOISES



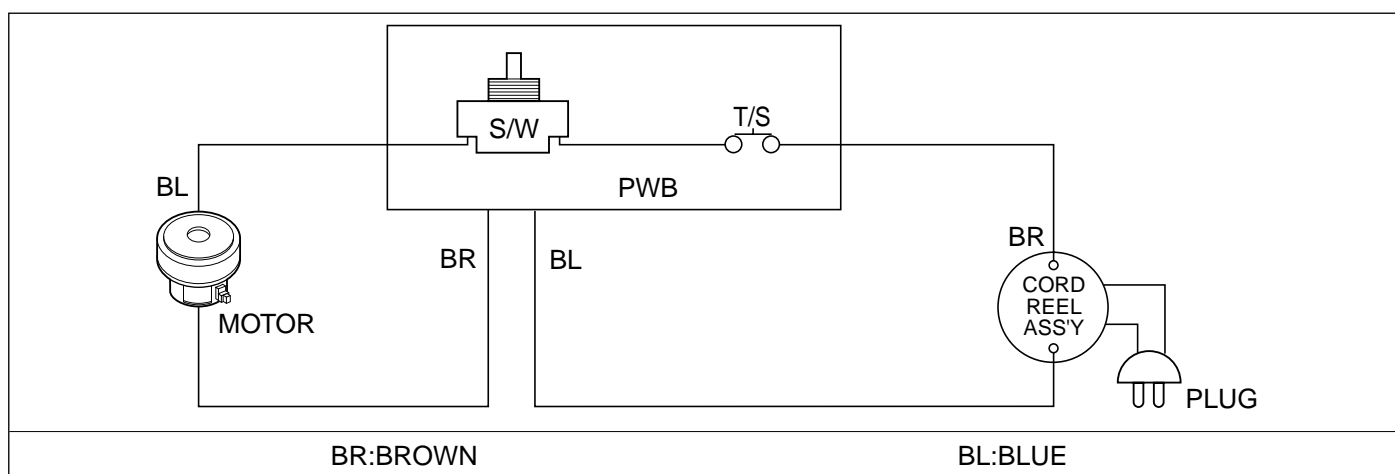
6. RADIO, TV RECEPTION DISTURBANCE



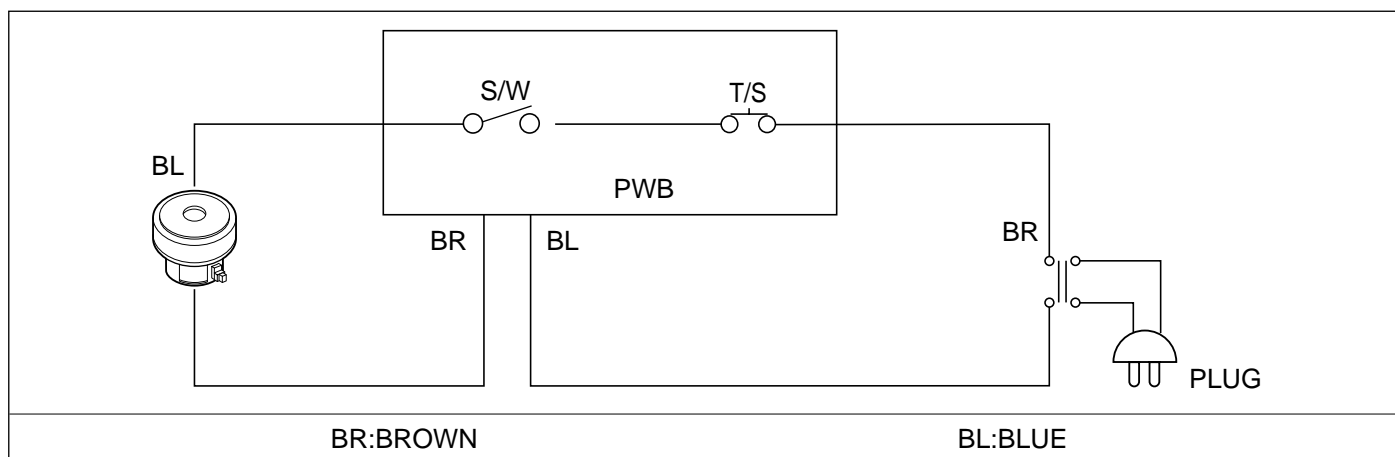
7. IMPROPER TUBE OR NOZZLE CONNECTION



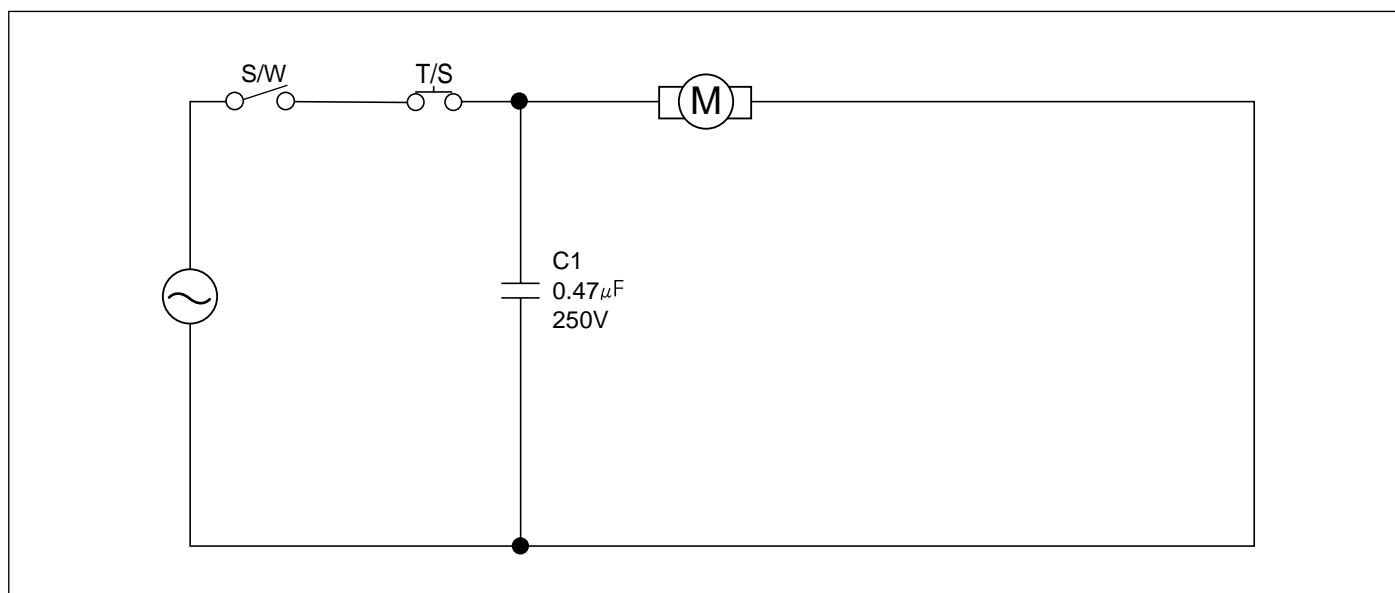
V-C3850ND/NT/NDV/NTV
V-C3852ND/NT/NDV/NTV



SCHEMATIC DIAGRAM

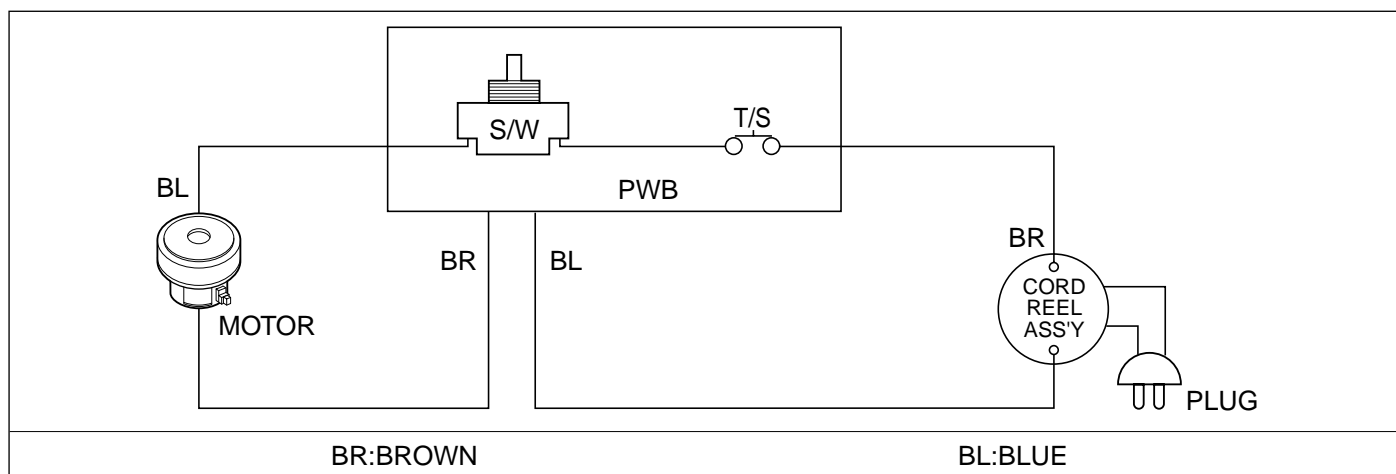


CIRCUIT DIAGRAM

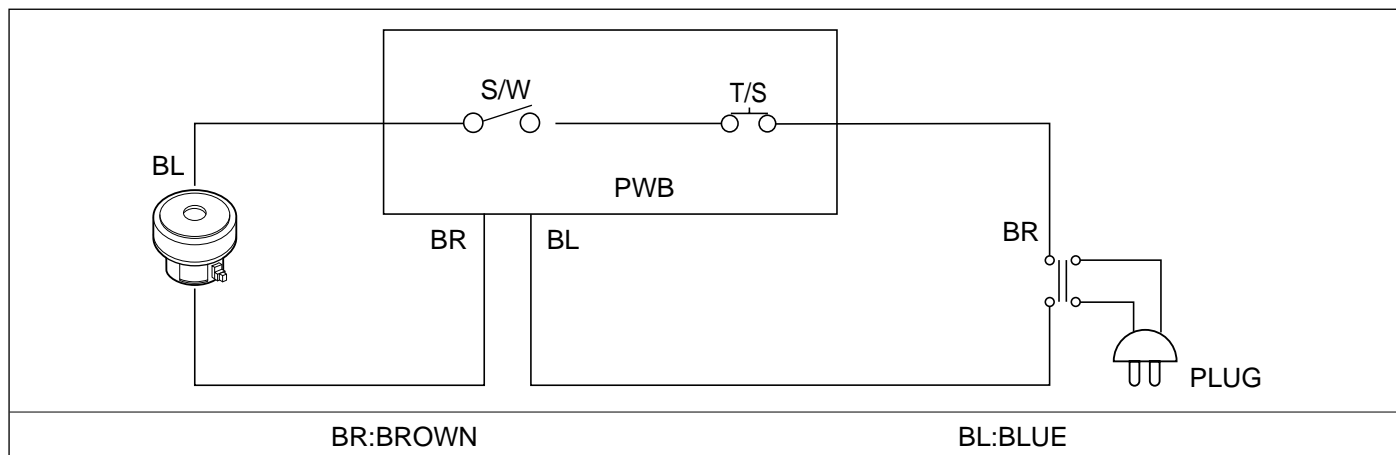


BLOCK DIAGRAM

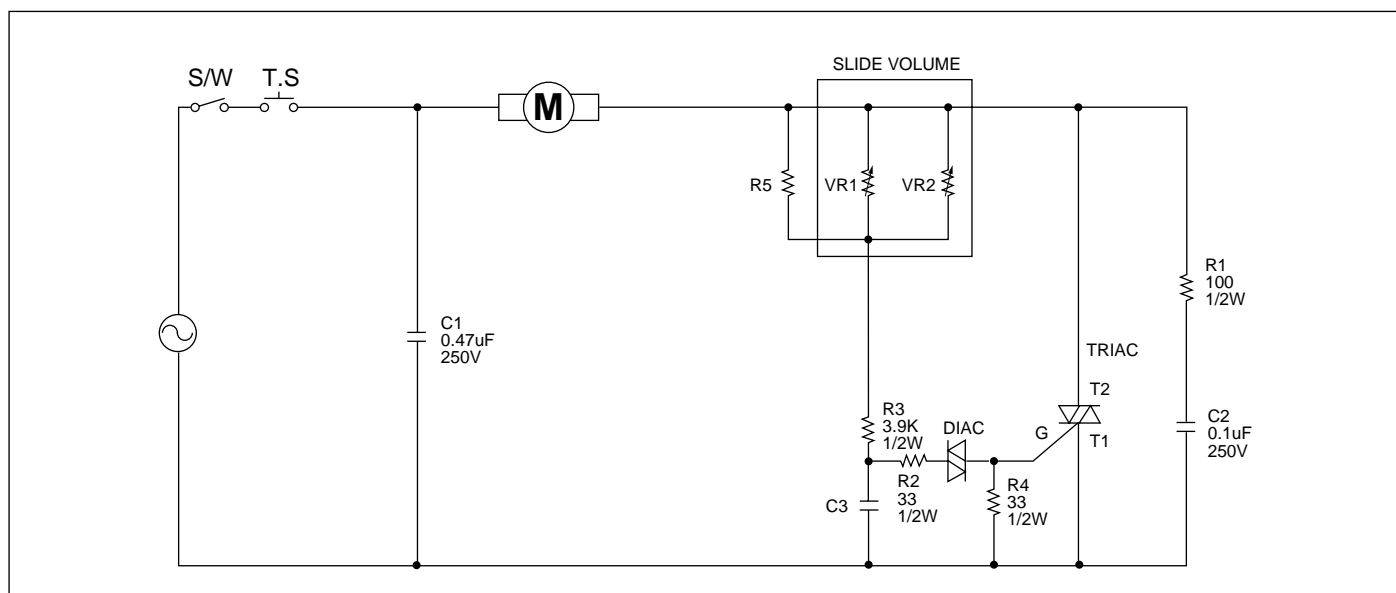
V-C3850RD/RT/RDV/RTV V-C3854RTV
V-C3852RD/RT/RDV/RTV V-C3860RD/RT/RDV/RTV



SCHEMATIC DIAGRAM

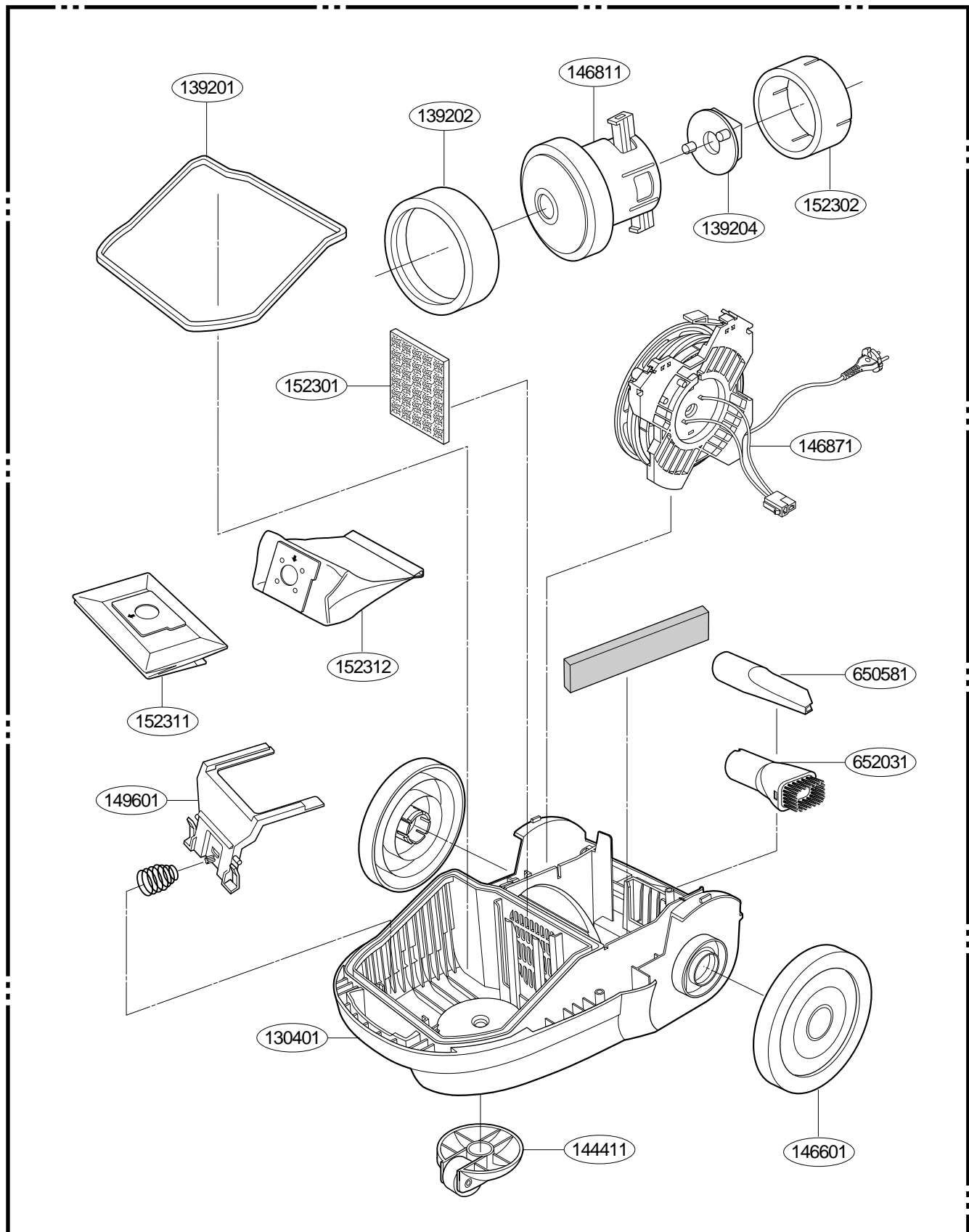


CIRCUIT DIAGRAM



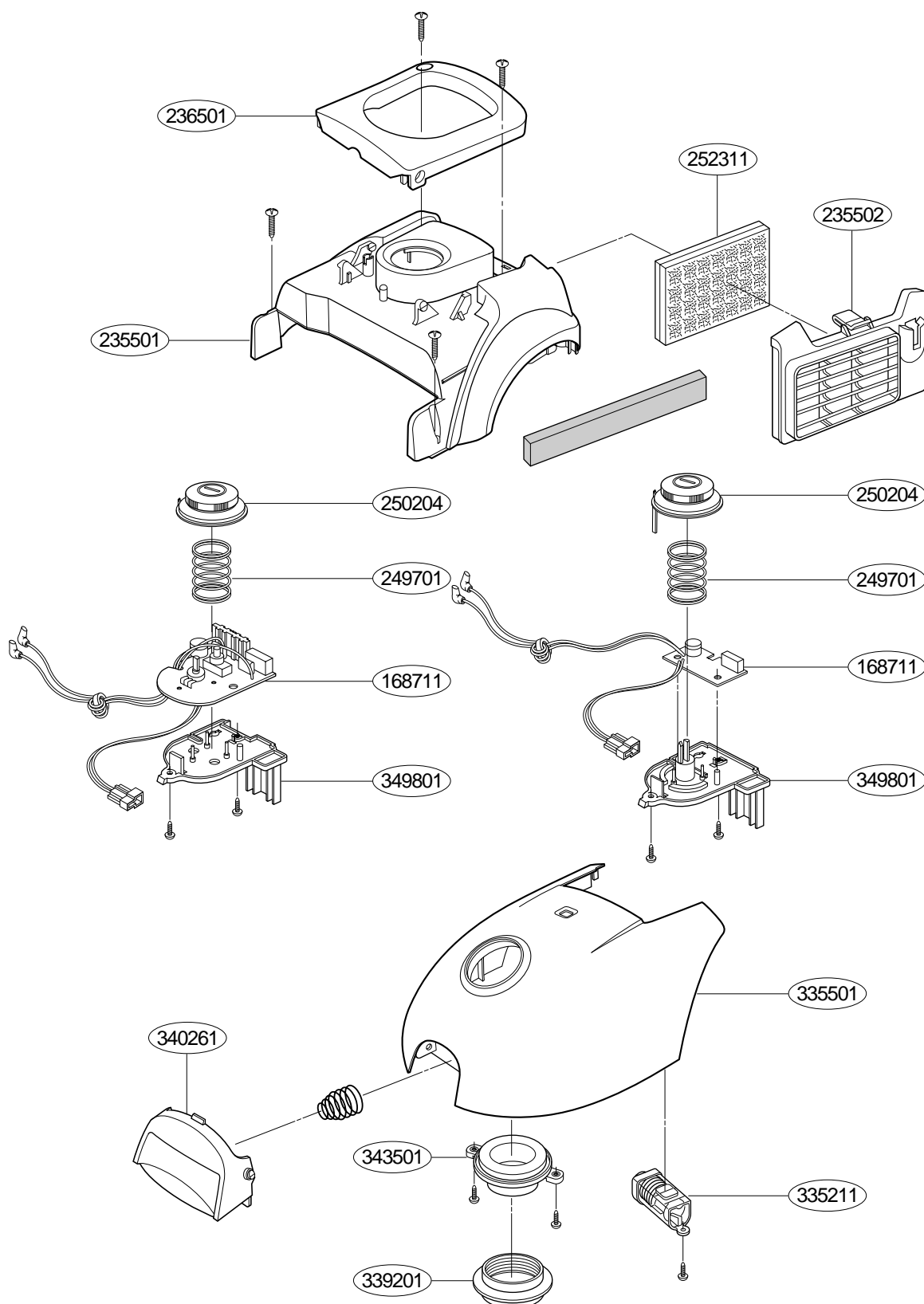
EXPLODED VIEW

BASE ASSEMBLY, BODY

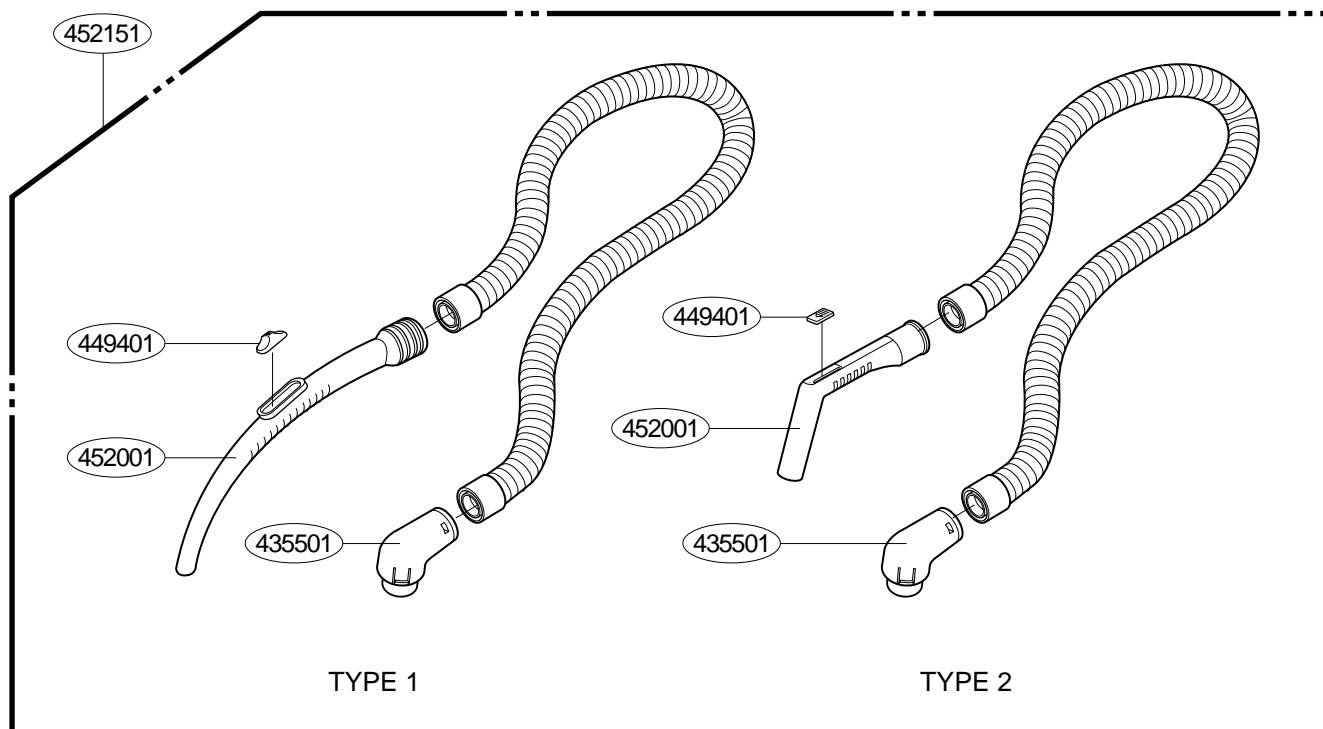


EXPLODED VIEW

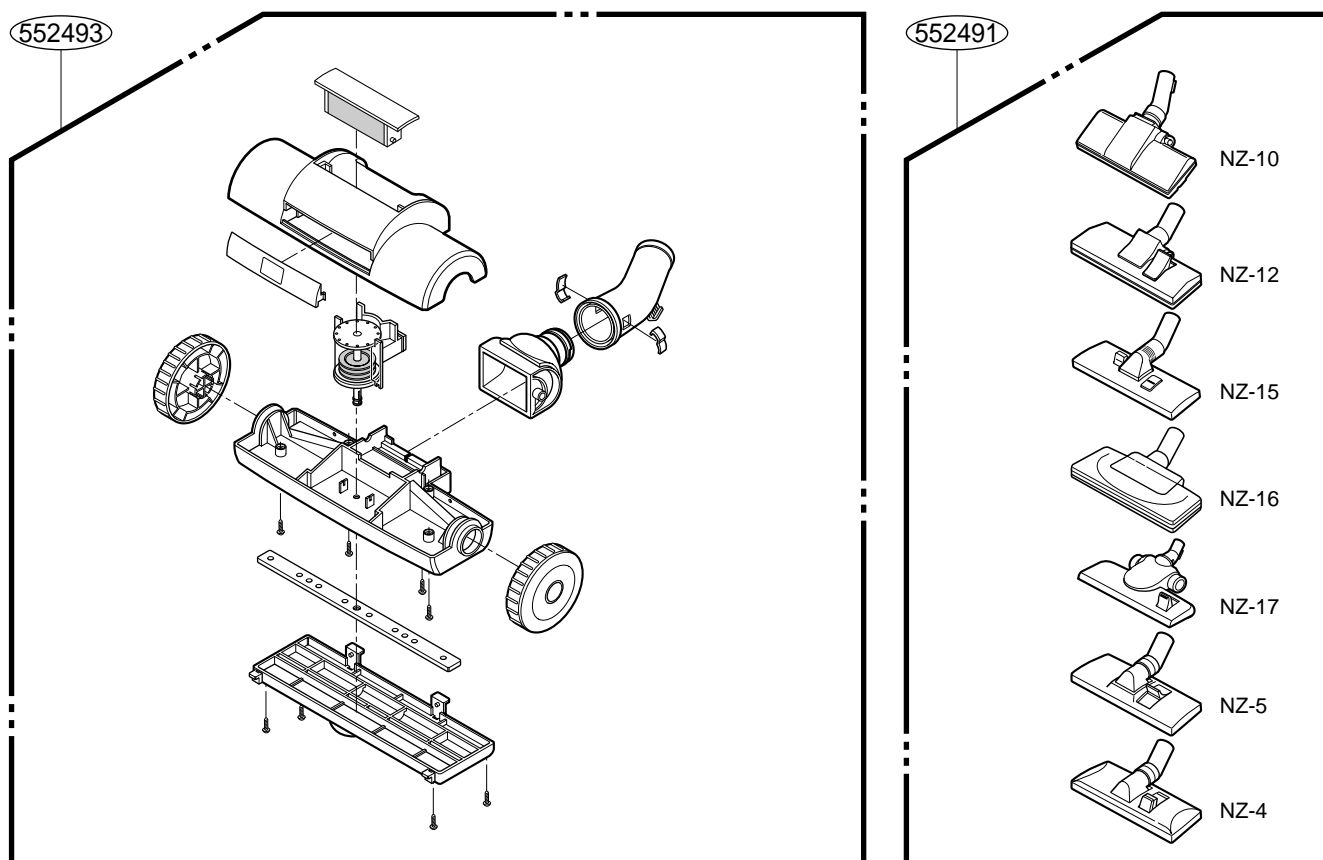
COVER ASSEMBLY, BODY



HOSE ASSEMBLY, FLEXIBLE

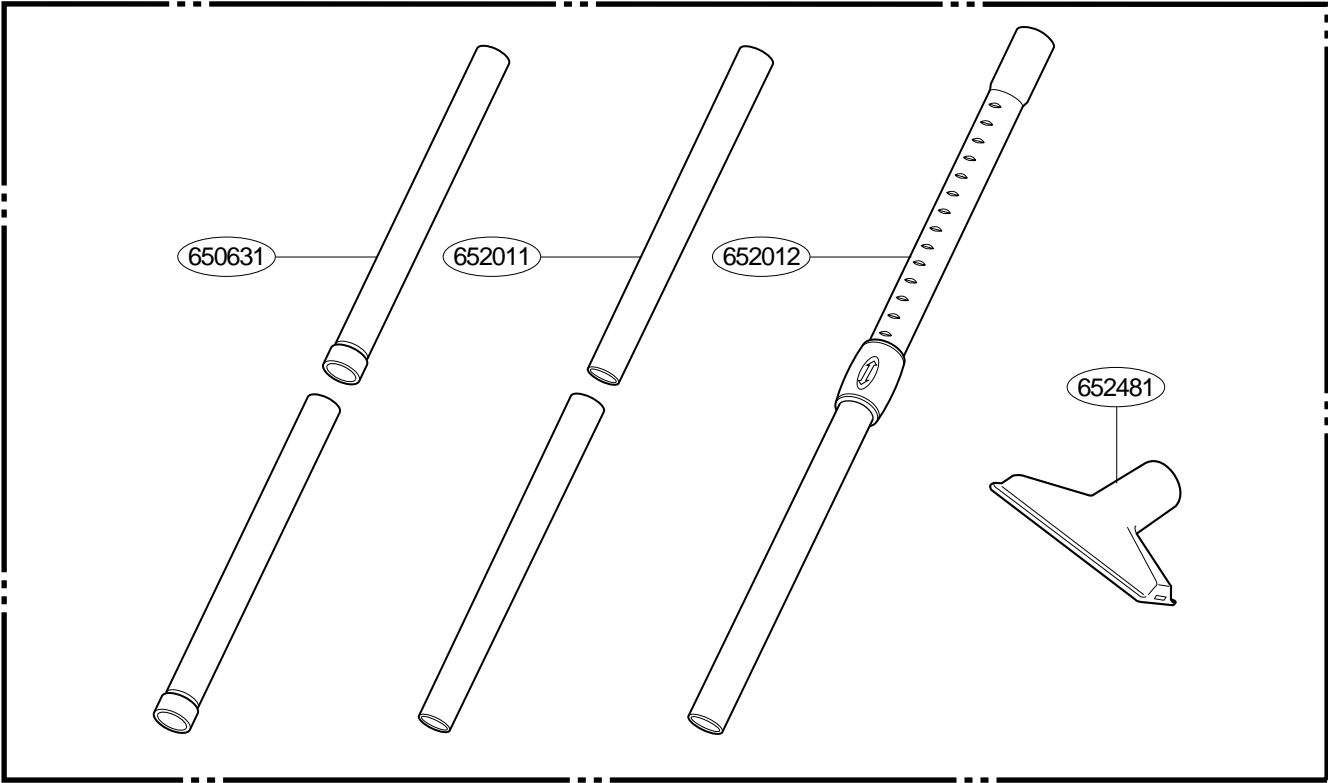


NOZZLE ASSEMBLY



EXPLODED VIEW

ACCESSORIES



REPLACEMENT PARTS LIST

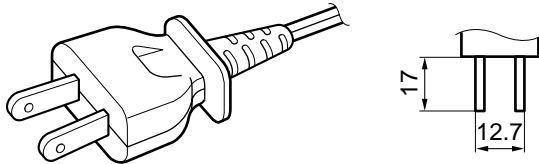
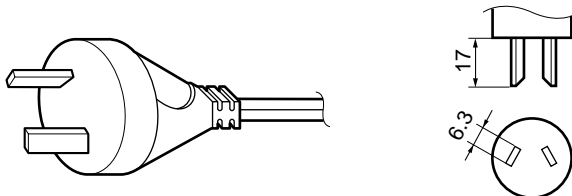
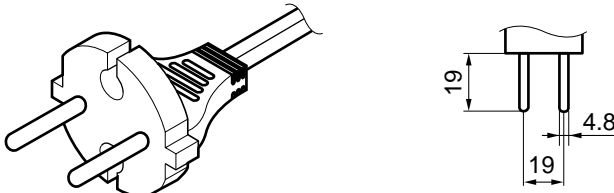
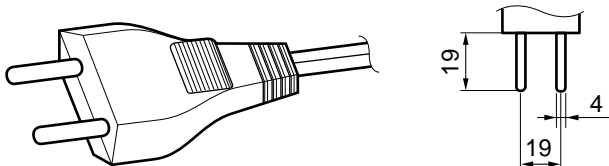
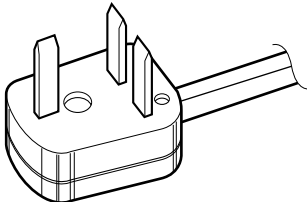
LOCATION No.	PART No.	DESCRIPTION	REMARK
139201	3920FI4718M	PACKING, DUST SEAL	NR
149601	4960FI2322A	MOUNT, BAG	
149601			
149601			
130401	3040FI1490A		SHADOW GRAY
130401		BOSE, BODY	
130401			
152301	4I70098K	FILTER(MECH) MOTOR SAFETY	POLYESTER
144411	4441FI3605C	CASTER ASS'Y	BLACK
144411			
144411			
146601	4660fi2412A	WHEEL	SHADOW GRAY
146601			
146601			
152311	5231FI3512B	FILTER ASS'Y, PAPER	
152312	5231FI2443A	FILTER ASS'Y, CLOTH	
650581	3I21007N	TOOL, CREVICE	BLACK
650581	3I21007L		MIDDLE GRAY
652031	3I20011E	BRUSH ASS'Y, DUST	BLACK
652031			MIDDLE GRAY
146871	4687FI1472	CORD REEL ASS'Y	Refer To Appendix
146811	4681FI2456	MOTOR ASS'Y, VC	Refer To Appendix
139202	3920FI3766A	PACKING, MOTOR MOUNT	NBR
152302	4I23008B	PACKING, ABSORBING	PU-FOAM
139204	3920FI3763A	PACKING, SEAL	
335501	3550FI1578	COVER, FILTER	Refer To Appendix
340261	4026FI3671	LATCH	Refer To Appendix
243501	4350FI3776	RING, CONNECTOR	Refer To Appendix
339201	3920FI3734	PACKING, SEAL	
335211	3521FI3703A	INDICATOR ASS'Y	
236501	3650FI1490	HANDLE	Refer To Appendix
235501	3550FI1579	COVER, BODY	Refer To Appendix
235502	3550FI1580	COVER, REAR	Refer To Appendix
250204	5020FI3774	BUTTON, CONTROL	Rotary, Refer To Appendix
250204	5020FI3777	BUTTON, CONTROL	ON/OFF, Refer To Appendix
249701	4970FI3206A	SPRING, BUTTON	HSWR

REPLACEMENT PARTS LIST

LOCATION No.	PART No.	DESCRIPTION	REMARK
252311	5231FI3772A	FILTER ASS'Y, EXHAUSTER	
252311	5231FI3772A		
349801	4980FI2425	BOARD, SUPPORT	Rotary, Refer To Appendix
349801	4980FI2426	BOARD, SUPPORT	ON/OFF, Refer To Appendix
168711	6871FX2148	PWB(PCB) ASS'Y	Rotary, Refer To Appendix
168711	6871FX2148	PWB(PCB) ASS'Y	ON/OFF, Refer To Appendix
452151	5215FI1306A	HOSE ASS'Y, FLEXIBLE	OPTION(TYPE 2)
452151	5215FI1248A		OPTION(TYPE 1)
452001	3650FI2275A	HANDLE, GRIP	TYPE 2
436501	3650FI1471A		TYPE 1
449401	4940FI4292B	KNOB, SLIDE	TYPE 1
449401	4940FI3723A		TYPE 2
435507	5200FI2269A	PIPE, FITTING	TYPE 1,2
443501	4350FI3497A	RING, CLOSING	BLACK
443501	4350FI3497B		MIDDLE GRAY
552491	5249FI2253A	NOZZLE ASS'Y FLOOR	NZ-10
552491	5249FI2393A		NZ-12
552491	5249FI1387A		NZ-15
552491	5249FI1388A		NZ-16
552491	5249FI1389A		NZ-17
552491	5249FI2182A		NZ-5
552491	1112001F		NZ-4, BLACK
552491	1112001H		NZ-4, M/GRAY
552491	1112001G		NZ-4, BLACK
552491	1112001J		NZ-4, M/GRAY
552493	5249FI1390C	NOZZLE, ASS'Y, QUILT	BLACK
552493	5249FI1390E		BLACK+BLUE
652011	5201FI2324A	PIPE ASS'Y, STEEL	2 STEP STEEL
650631	5063FI2291A	WAND ASS'Y	2 STEP PLASTIC
652012	5201FI2443E	PIPE ASS'Y, TELESCOPIC	2 STEP PLASTIC
652012	5201FI2443F		2 STEP PLASTIC
652481	5249FI2259A	NOZZLE ASS'Y, UPHOLSTERY	BLACK
652481	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><tr><th colspan="2">Color identification of fuse</th></tr><tr><td>Brown</td><td>13A</td></tr><tr><td>Yellow</td><td>5A</td></tr><tr><td>Blue</td><td>3A</td></tr></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	BASF BLUE	SHADOW GRAY			
335501	COVER, FILTER		3550FI1378A				
340261	LATCH		4026FI3671A				
24350	RING, CONNECTOR		4350FI3776A				
236501	HANDLE		3650FI1490A				
235501	COVER, BODY		—	3550FI1579A			
235502	COVER, REAR		—	3550FI1580A			
250204	BUTTON, CONTROL (for Rotary)		5020FI3774A				
250204	BUTTON, CONTROL (for ON/OFF)		5020FI3777A				
349801	BOARD, SUPPORT (for Rotary)			4980FI2425A			
349801	BOARD, SUPPORT (for ON/OFF)			4980FI2426A			

LOCATION NO.	DESCRIPTION	COLOR	BASF BLUE	SHADOW GRAY			
335501	COVER, FILTER		3550FI1378A				
340261	LATCH		4026FI3671A				
24350	RING, CONNECTOR		4350FI3776A				
236501	HANDLE		3650FI1490A				
235501	COVER, BODY		—	3550FI1579A			
235502	COVER, REAR		—	3550FI1580A			
250204	BUTTON, CONTROL (for Rotary)		5020FI3774A				
250204	BUTTON, CONTROL (for ON/OFF)						
349801	BOARD, SUPPORT (for Rotary)						
349801	BOARD, SUPPORT (for ON/OFF)						

LOCATION NO.	DESCRIPTION	COLOR	BASF BLUE	SHADOW GRAY			
335501	COVER, FILTER		3550FI1378A				
340261	LATCH		4026FI3671A				
24350	RING, CONNECTOR		4350FI3776A				
236501	HANDLE		3650FI1490A				
235501	COVER, BODY		—	3550FI1579A			
235502	COVER, REAR		—	3550FI1580A			
250204	BUTTON, CONTROL (for Rotary)		5020FI3774A				
250204	BUTTON, CONTROL (for ON/OFF)						
349801	BOARD, SUPPORT (for Rotary)						
349801	BOARD, SUPPORT (for ON/OFF)						

LOCATION NO.	DESCRIPTION	COLOR	BASF BLUE	SHADOW GRAY			
335501	COVER, FILTER		3550FI1378A				
340261	LATCH		4026FI3671A				
24350	RING, CONNECTOR		4350FI3776A				
236501	HANDLE		3650FI1490A				
235501	COVER, BODY		—	3550FI1579A			
235502	COVER, REAR		—	3550FI1580A			
250204	BUTTON, CONTROL (for Rotary)		5020FI3774A				
250204	BUTTON, CONTROL (for ON/OFF)						
349801	BOARD, SUPPORT (for Rotary)						
349801	BOARD, SUPPORT (for ON/OFF)						

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

L/NO.	P/NO	DESCRIPTION	REMARK
146811	4681FI2456A	MOTOR ASS'Y, VC	VMC-460E5, 230 / 220V / 50Hz
146811	4681FI2457A	MOTOR ASS'Y, VC	VMC-420E5, 230 / 220V / 50Hz

146871	4687FI1472J	CORD REEL ASS'Y	C-2, 6.8m

168711	6871FX2148A	PWB(PCB) ASS'Y	230V / 50Hz, VMC460E5, for Rotary
168711	6871FX2153A	PWB(PCB) ASS'Y	230V / 50Hz, VMC420E5, for ON/OFF
168711			
168711			
168711			
168711			
168711			
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