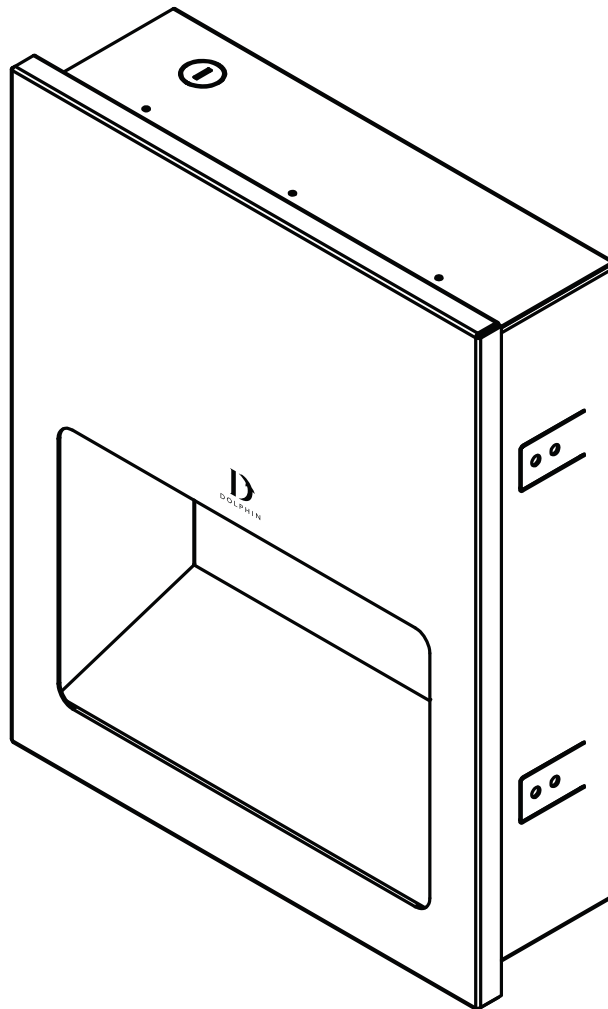




High-Speed Hand Dryer

BC28-2SCA



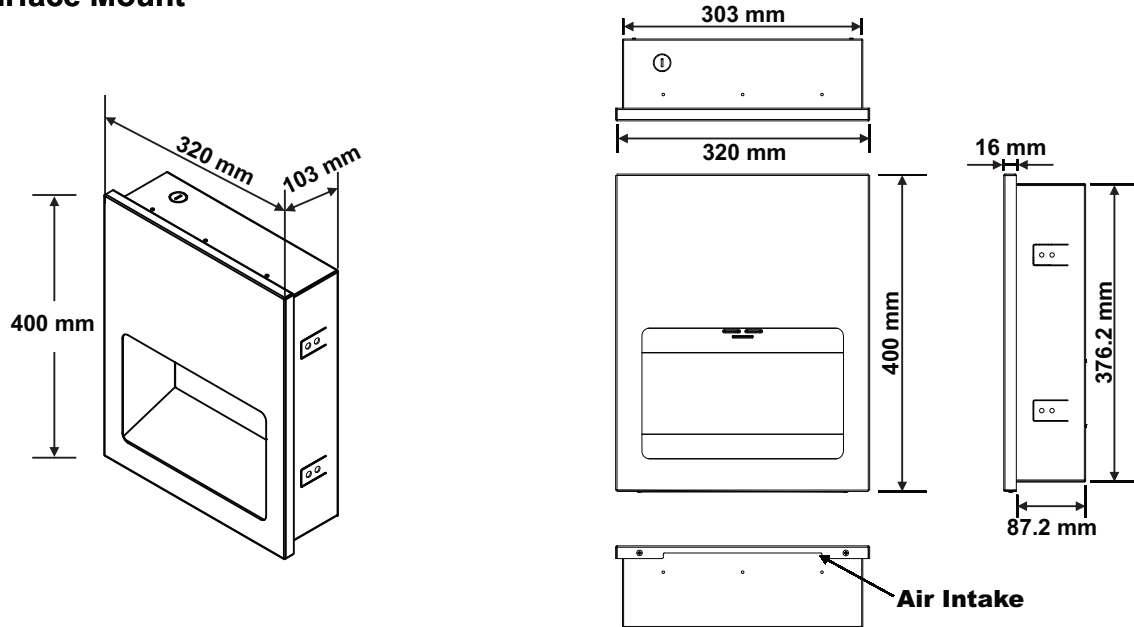
Recessed high speed hand dryer



High-Speed Hand Dryer

Operating Instructions and Parts Manual

Surface Mount



TECHNICAL SPECIFICATIONS

| ITEM CATEGORY | PERFORMANCE DATA |
|---------------------------|--|
| Operating Voltage | 220-240 Vac, 50/60 Hz, 0.84-1.0 kW |
| Warm Air Speed Output | Standard [82±2 m/s], Adjustable, The range is [70-82 m/s] |
| Motor Type | 325-500 W, 22000-29000 r.p.m., Adjustable; Brush Type, Dual Ball Bearings |
| Motor Thermal Protection | Auto Resetting Thermostat turns unit off at 95 °C [203 °F] |
| Heater Element On | Standard [500±50 W]. Range [325-500 W] controlled by air speed adjustment |
| Heater Element Off | 0 W |
| Heater Thermal Protection | Auto Resetting Thermostat turns unit off at 85 °C [185 °F] Resets at 75 °C [167 °F], Thermal cut-off at 142 °C [288 °F] |
| Drying Time | Less than 15 seconds |
| Stand-by Power | Less than 0.5 W |
| Circuit Operation | Infrared Automatic, self adjusting |
| Sensor Range | Standard [150±20 mm], Adjustable, The range is [100-230 mm] |
| Timing Protection | 60 seconds auto shut off |
| Sound Level | MIN 72.8 dB to 77.6 dB MAX @ 1m |
| Drip proof | IP24 |
| Isolation | CLASS 1 |
| Net Weight | 6.6 kg |
| Shipping Weight | 8.2 kg |
| Unit Size | 320 mm (W) x 400 mm (H) x 103 mm (D) |

FRONT PLATE TYPE/ FRONT PLATE FINISH

BC27-2SCA- Stainless steel; #4 satin finished. (AISI 304 t:1.2 mm)

General safety information

⚠ WARNING This product is intended for installation by a qualified service person. Use 1.2 mm² solid conductor for wiring.

⚠ WARNING Disconnect power at the service breaker before installing or servicing. Full pole disconnection device must be incorporated in the fixed wiring in accordance with the wiring rules.

⚠ DANGER Failure to properly ground unit could result in severe electrical shock and/or death.

⚠ WARNING All units must be supplied with a 3-wire service. The ground wire must be connected to the dryer's backplate.

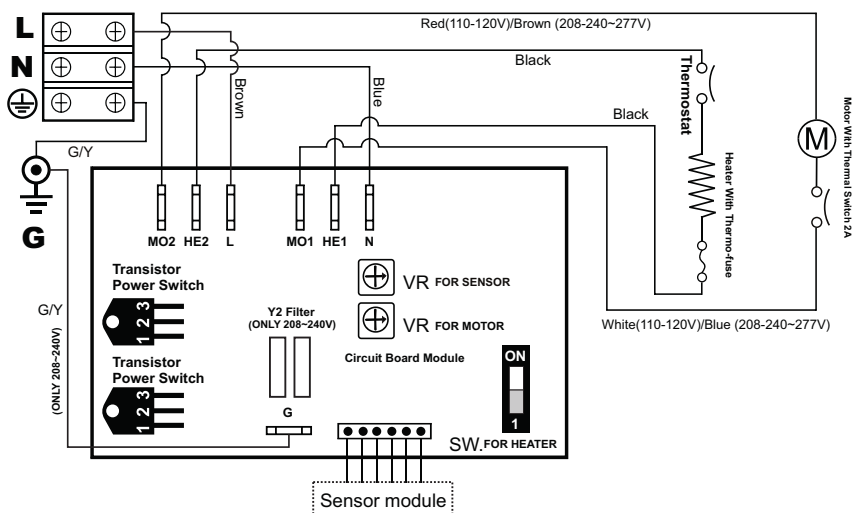
【 Type Y attachment 】

If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a qualified person in order to avoid a hazard. Disconnect the fixed wiring only in accordance with the wiring rules.

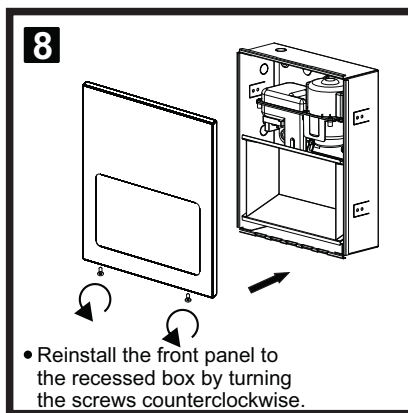
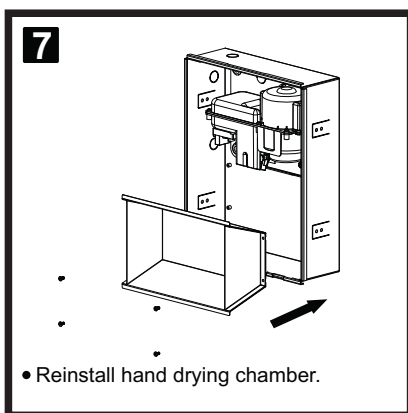
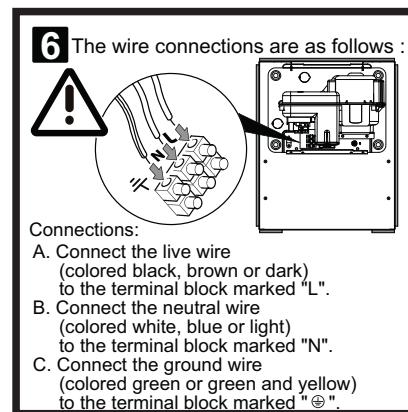
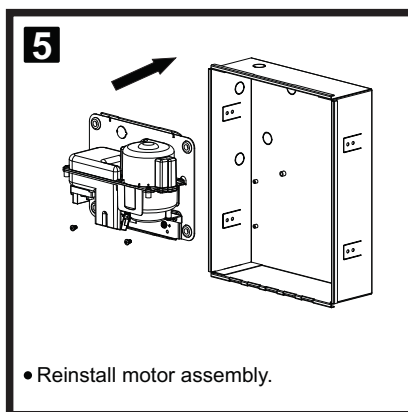
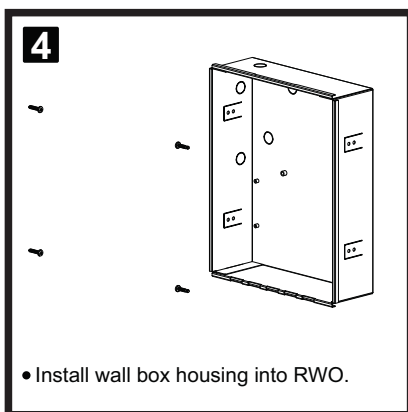
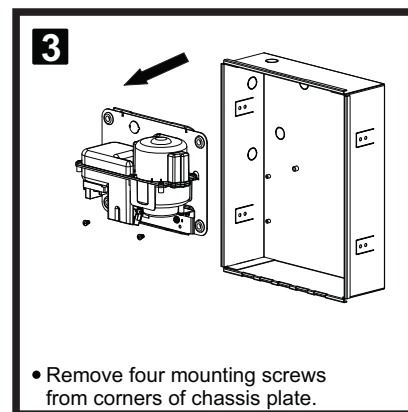
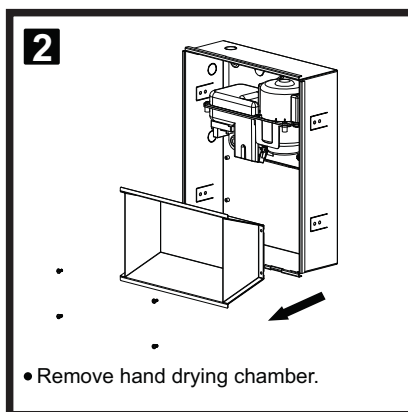
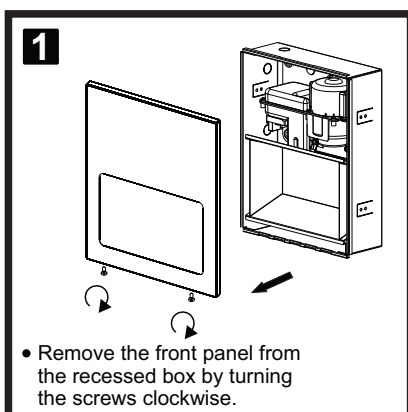
This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Circuit Diagram



Installation Rough wall opening: 307 x 380 x 91 mm



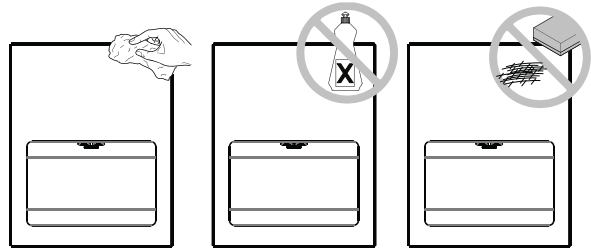
Recommended mounting heights - from bottom edge of dryer above finished floor (AFF)

| | |
|----------------------|---------|
| Men | 1270 mm |
| Women | 1194 mm |
| Children 4-7 years | 889 mm |
| Children 8-10 years | 991 mm |
| Children 11-13 years | 1092 mm |
| Children 14-16 years | 1194 mm |
| Wheelchair | 1016 mm |

Cleaning and Maintenance

Periodic cleaning of the unit is recommended to ensure optimum performance.

- Disconnect the electrical supply.
- Remove the two cover-mounting screws.
- Remove the cover.
- Clean all dust lint from the interior of the dryer.
- Wipe the cover with a damp cloth and mild cleaning solution. Do not Soak. Never use abrasives to clean the cover. Dry completely.
- Replace the cover. Do not over tighten the screws.

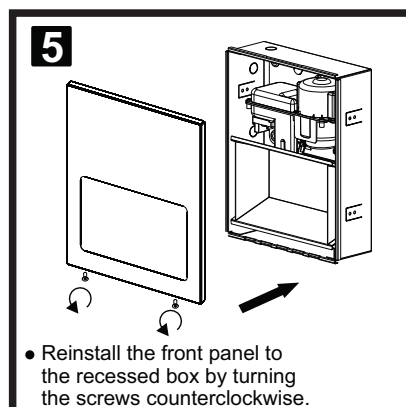
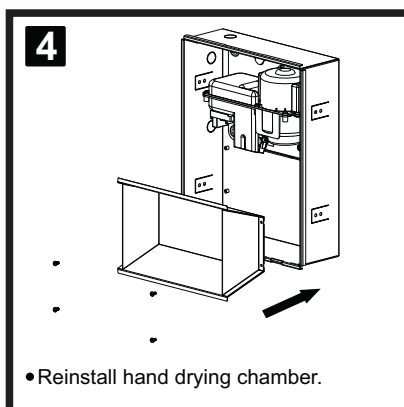
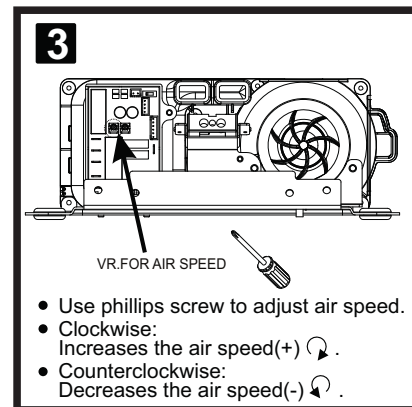
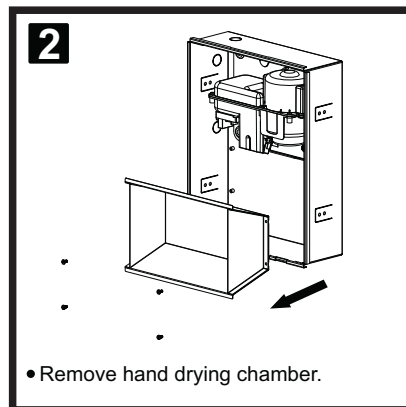
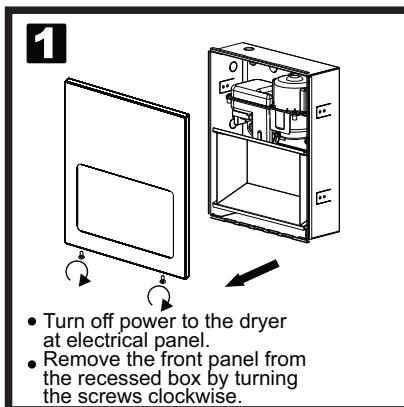


Operation

- No-touch operation.
- Shake excess water from hands.
- Place hands under the outlet to start operation.
- Rub hands lightly and rapidly.
- Stops automatically after hands are removed.

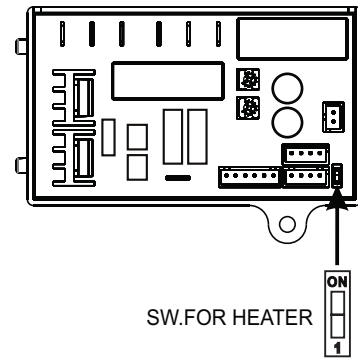
Setting Adjustment

A. Warm air speed adjustment



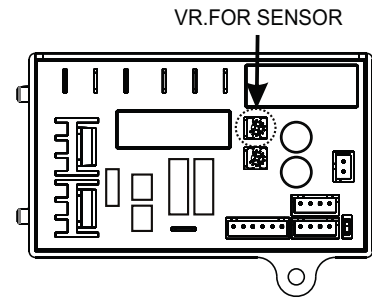
B. Heater Element Switch ON/OFF

1. Switch off the power, loosen the cover screws and remove the cover.
2. Adjust the heater switch on the CBM with a small plastic or wood flat blade probe.
 - 2-1. Heater ON: Slide the switch to "ON".
 - 2-2. Heater OFF: Slide the switch to "1".

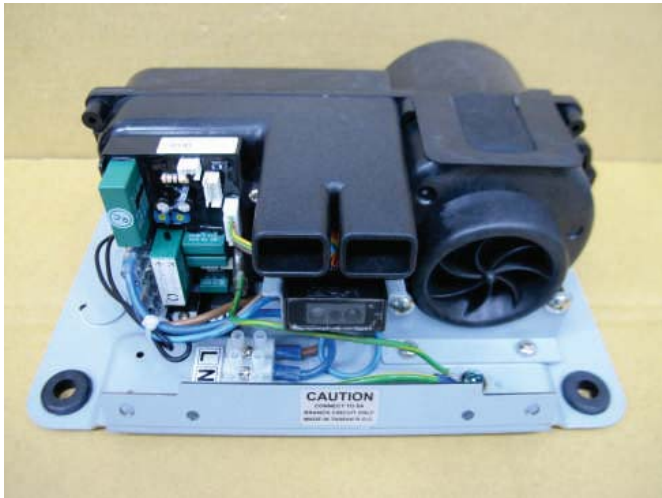


C. Sensor range adjustment

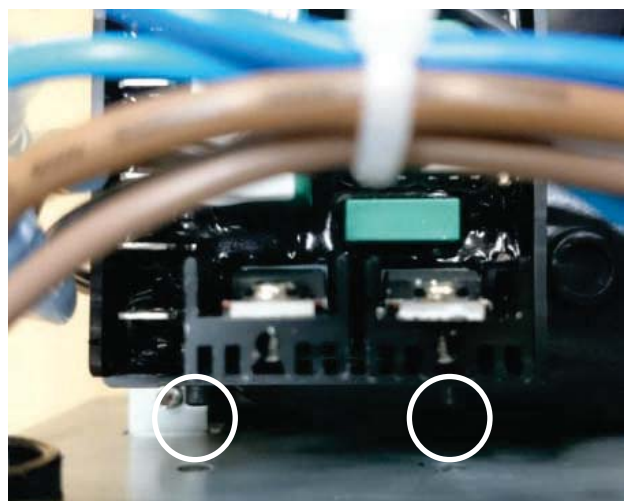
1. The recommended unit sensor range is 150 mm. This can be adjusted from 100 mm to 230 mm.
2. Clockwise: Increases the sensing range(+)
3. Counterclockwise: Decreases the sensing range(-)
4. **DO NOT OVERTURN!**



Timer replacement

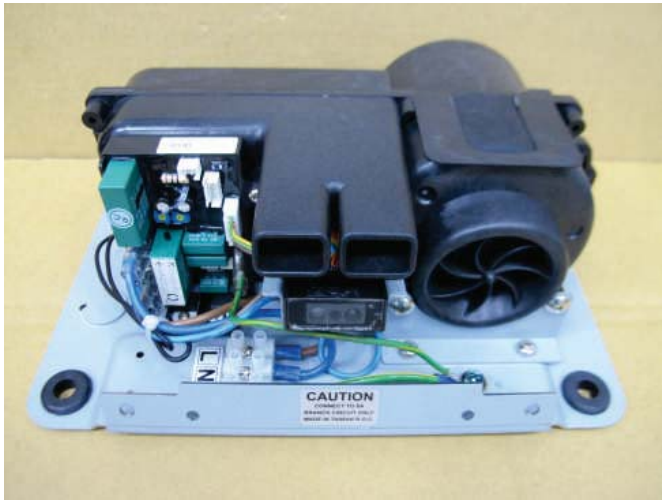


1. Pull off the six wires and remove the fixing screws of the timer.

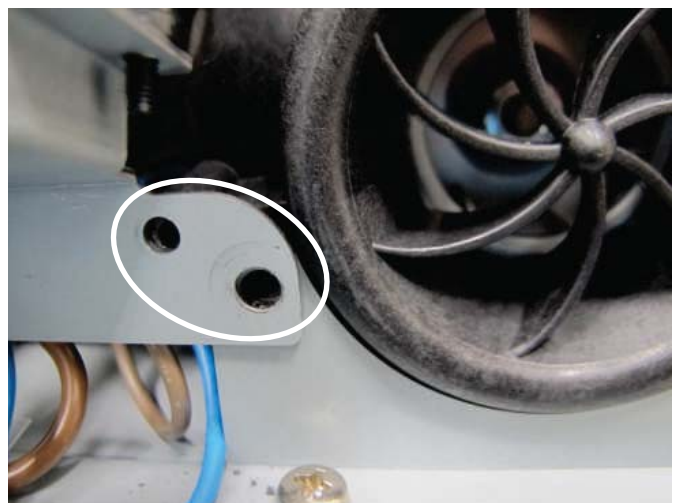
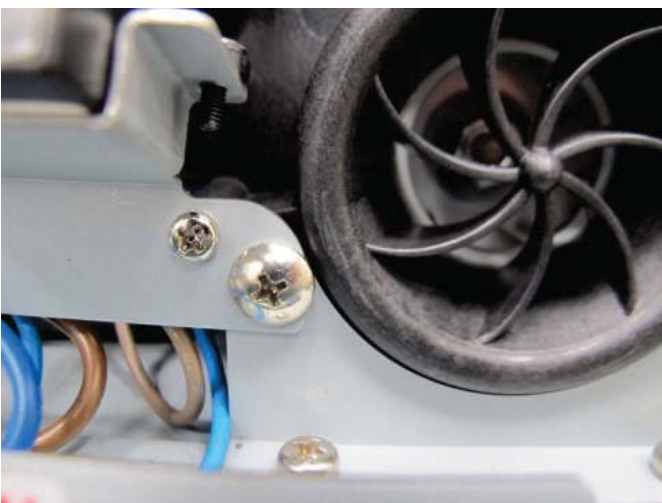


2. Ensure that the two flanges on the timer to be wedged in the two holes are on the base plate.
3. Fix the timer to the blower and connect the four wires to the timer as the photos of procedure 1.

Sensor replacement

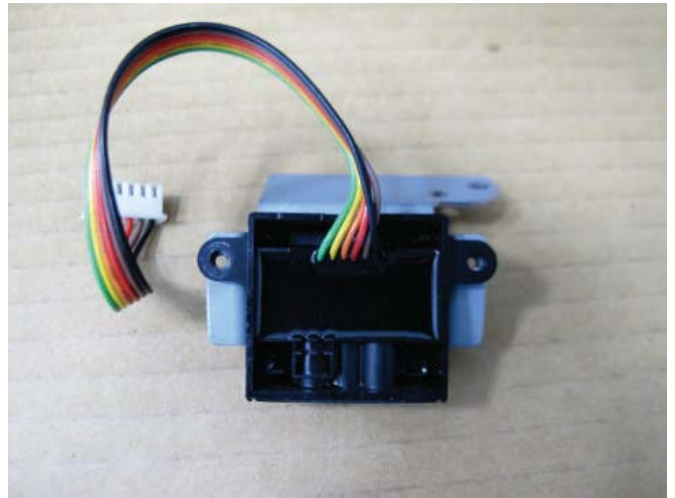


1. Pull off the wires that connect timer and remove the fixing screws of the timer.
2. Fix the sensor on the sensor bracket as in the photos of procedure 1, and plug the wires on the timer.



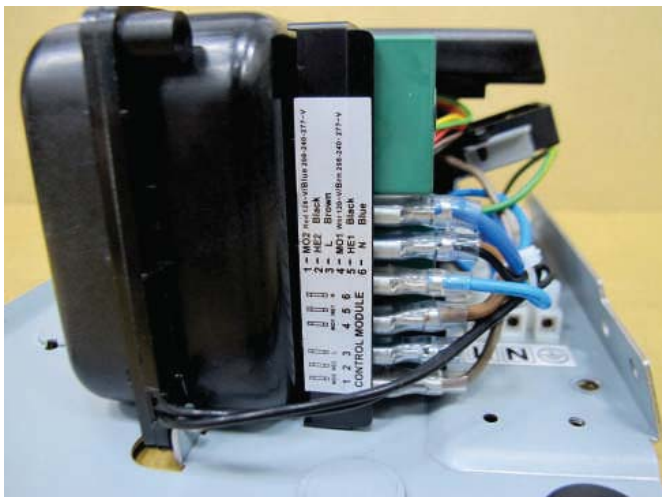
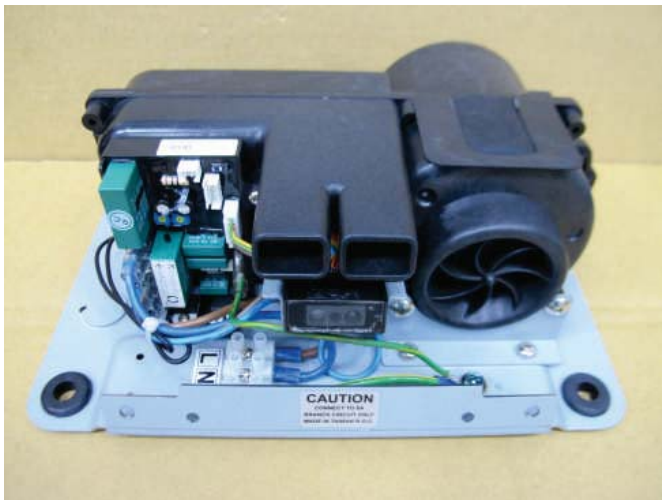
3. Remove the screws from the sensor bracket to take out the sensor.

Sensor replacement

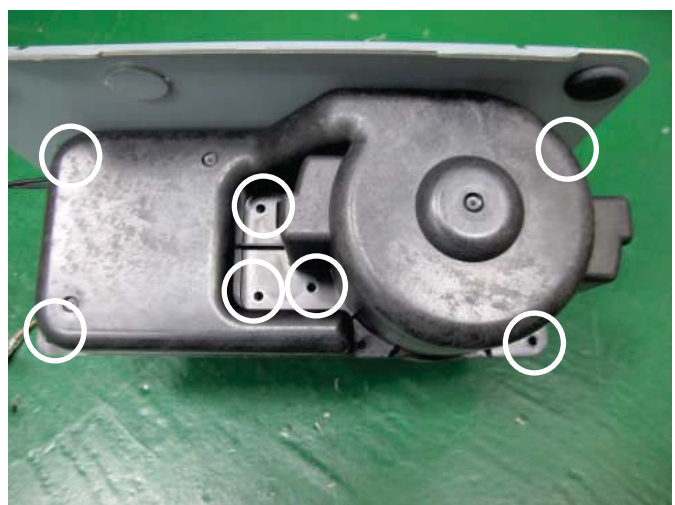


4. Remove the black screws on the sensor. Install the new sensor and reverse Steps 1~3 to fasten the sensor.

Motor replacement

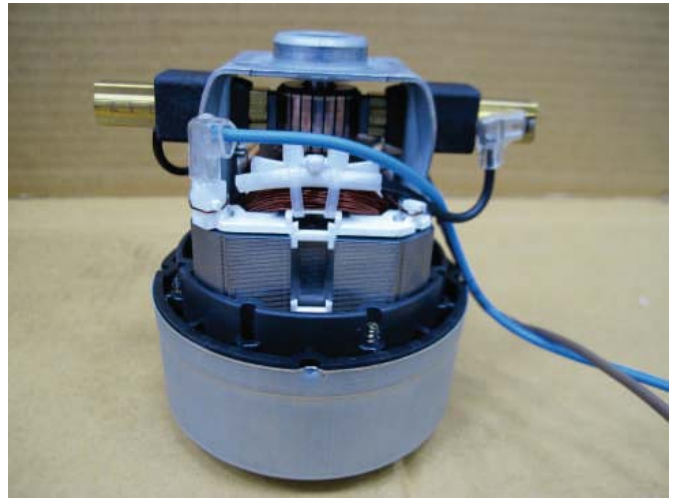
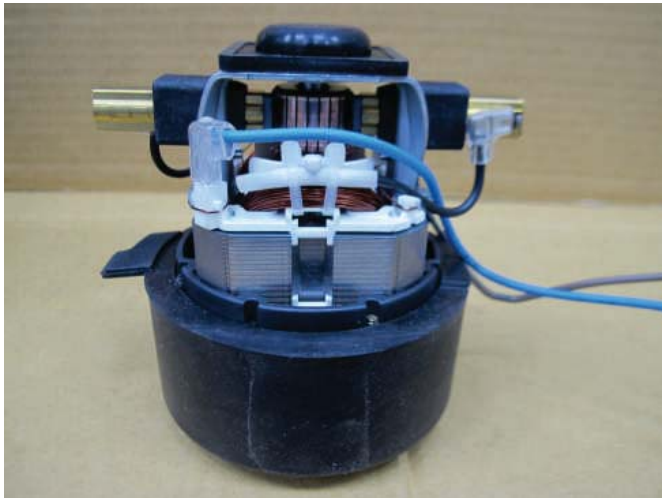


1. Remove the wires that connect motor to the timer.

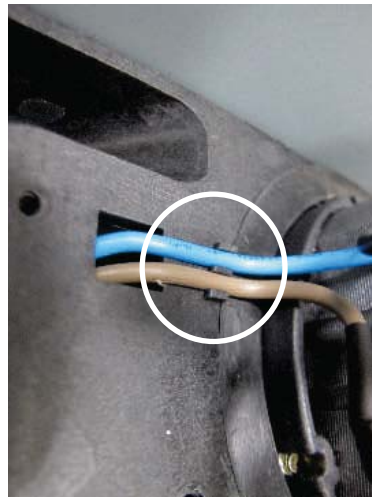
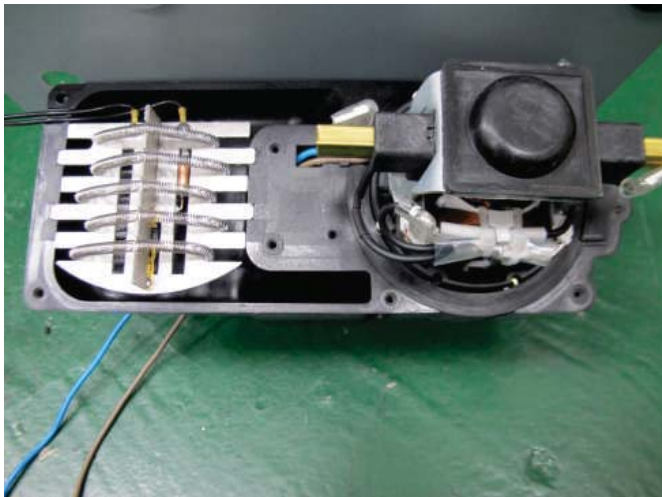


2. Loosen the fixing screws of the blower and remove the blower housing.

Motor replacement

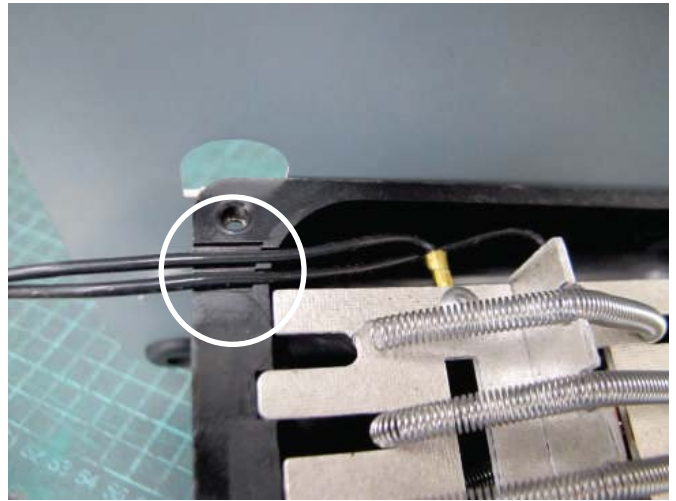
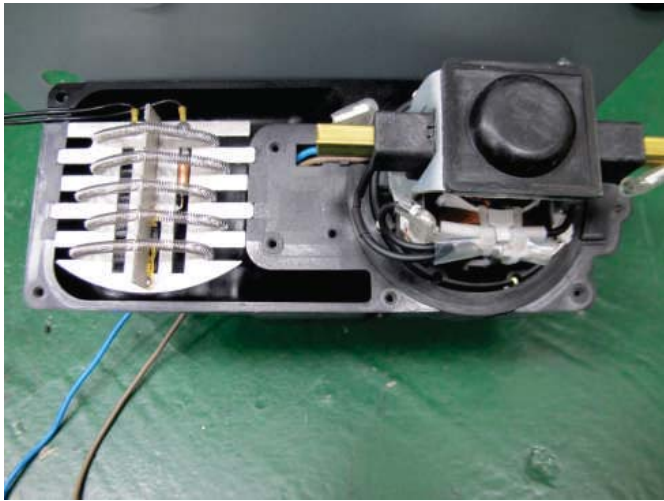


3. Remove and retain both motor rubbers on the top and at the bottom. Place the two motor rubbers on the new motor. Reverse Steps 1 and 2 to place the new motor firmly in the motor housing.



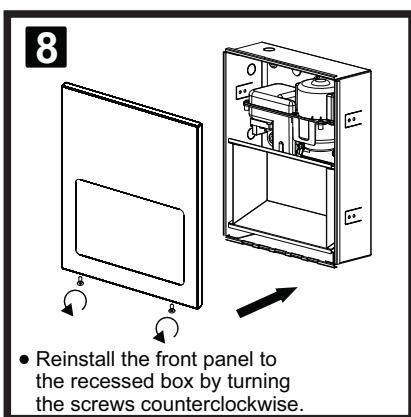
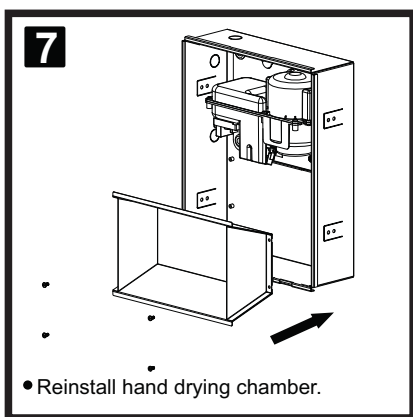
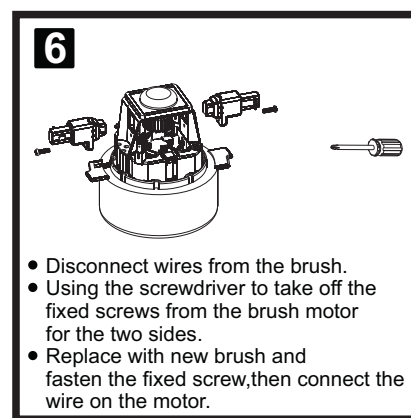
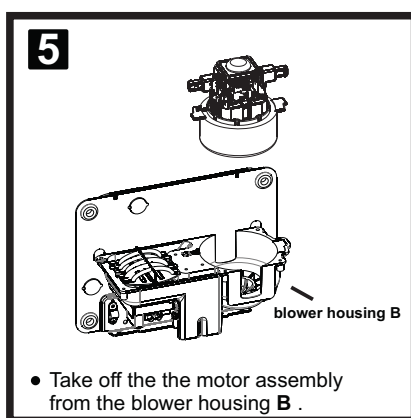
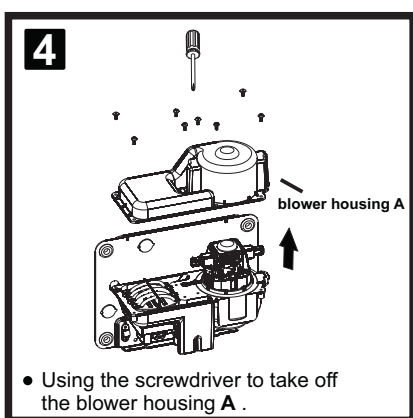
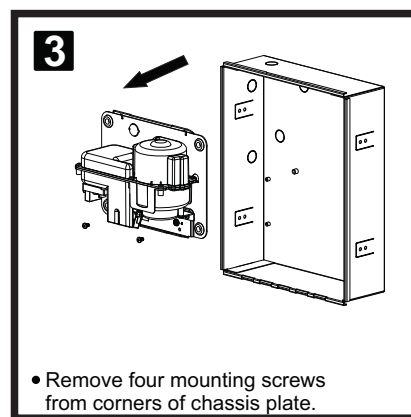
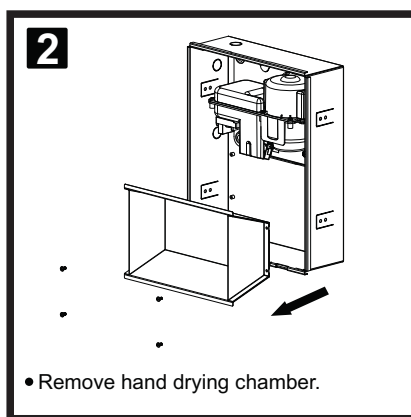
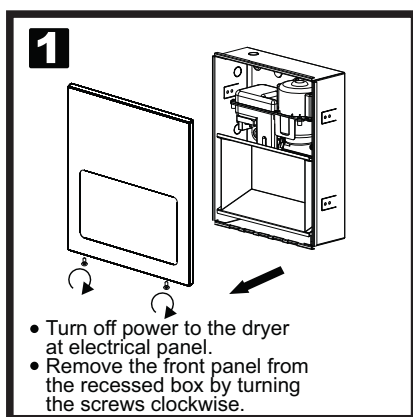
4. To replace the motor, install the motor rubber (large/small) on the motor, and place the motor under the fan blower. The wire set must be fixed to the ditch in the lower housing of the blower.

Heater replacement



3. To replace the heater, the wire set must be fixed to the ditch in the lower housing of the blower.

Brushes replacement



THIS UNIT MUST BE FITTED AND SERVICED BY SUITABLY QUALIFIED PERSONNEL

Tools Required



- Philips Screwdriver
- Slotted Screwdriver
- Wire Cutter
- Modular Crimping Cuts Tool

Important Information

This Product falls within the scope of the Waste Electrical & Electronic Equipment Directive 2012/19/EU. (WEEE)



NOTE: This Product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

Troubleshooting

| Symptom |
|--|
| If the dryer will not run |
| The dryer cycles by itself or runs constantly |
| The dryer makes a loud noise and does not run for a complete cycle |
| The dryer runs but air stream is low pressure and/or low velocity |

| Corrective Actions for Initial Installation Failures |
|--|
| First ensure that the breaker supplying the dryer is operational. If it is, disconnect the power and remove the dryer cover. Taking suitable precautions to avoid shock hazard, reconnect the power and check for Voltage at the terminal block. Verify that connections are made correctly. |
| Ensure that there is no obstruction on or in front of the IR sensor. Clean any dirt or debris off the sensor lens. If problem persists, replace sensor and CBM. |
| Ensure that the supply Voltage is correct. Dryer will make a loud humming noise if the input Voltage is too high. Verify Voltage requirement on unit rating label and correct supply as required. If CBM has been damaged, replace CBM, IR sensor module and VR component and cable. |
| Ensure that the supply Voltage is correct. Dryer will run weakly if the input Voltage is too low. Verify Voltage requirement on unit rating label and correct supply as required. |

| Symptom |
|---|
| If the dryer will not run |
| The IR sensor only "sees" close range objects |
| The heater gets hot but no air stream is produced |
| The dryer only blows cold air during a full cycle |
| The air stream is low pressure and velocity |

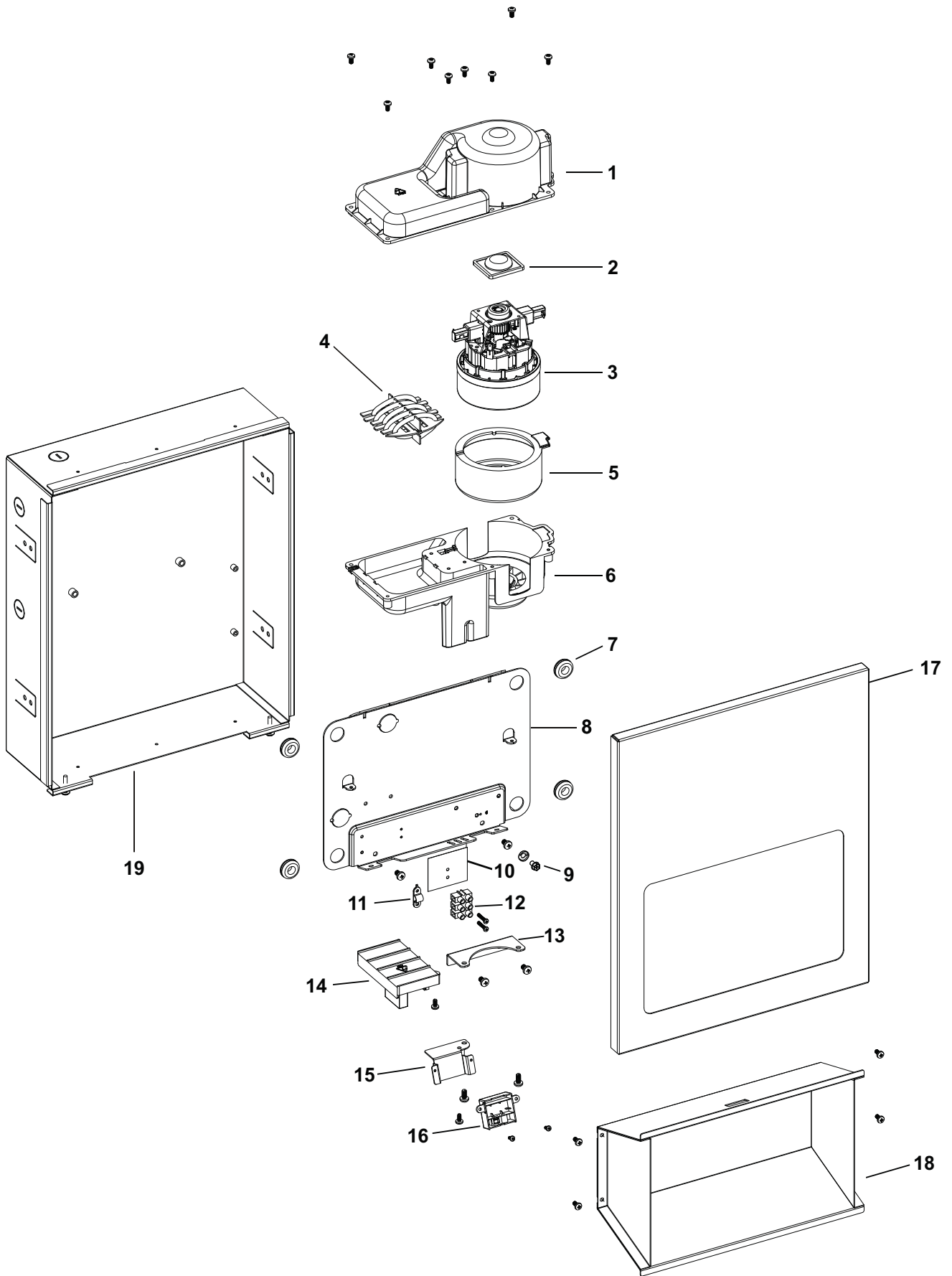
| Corrective Actions for In-Service Failures |
|---|
| First ensure that the breaker supplying the dryer is operational. If it is, disconnect the power and remove the dryer cover. Replace the CBM and IR sensor module. Taking suitable precautions to avoid shock hazard, reconnect the power and check for Voltage at the terminal block. |
| Ensure that there is no obstruction on or in front of the IR sensor. Clean any dirt or debris off the sensor lens. If problem persists, replace sensor and CBM. |
| Disconnect the power. Remove the dryer cover and disassemble the blower-motor/fan housing. Replace the fan motor. |
| Disconnect the power. Remove the dryer cover and disassemble the blower-motor/fan housing. Test the thermostat for open circuit. Check the heater element for signs of burning or breakage. Damaged element must be replaced. |
| Check the output nozzle for obstructions. If none are present, disconnect the power. Remove the dryer cover. Remove any dust/lint buildup from intake vent slots. Disassemble the blower-motor/fan housing. Check the motor brushes for worn condition ($\leq 25/64$ " [10 mm] graphite remains) and replace them, if necessary. |

Warranty

Limited 3 year warranty

Please see our website or contact us on 01424 202224 for more details.

Parts Diagram



Parts list

| Key | Description |
|-----|---------------------------------|
| 1 | Blower housing - Upper |
| 2 | Motor rubber - Small |
| 3 | Motor |
| 4 | Heater element |
| 5 | Motor rubber - Large |
| 6 | Blower housing - Below |
| 7 | Rubber grommet - Base |
| 8 | Base plate |
| 9 | Grounding screw with cup washer |
| 10 | Insulation Mylar |
| 11 | Nylon cable clamp |
| 12 | Terminal block |
| 13 | Blower mounting bracket |
| 14 | Circuit Board Module |
| 15 | Sensor bracket |
| 16 | Sensor module |
| 17 | Enclosure (Casing) |
| 18 | Dry hand chamber |
| 19 | Recessed box |