

Owner's Manual: 1015 SQ Speed Demon

One-Gallon Vortex Mixer

Models 0-1015-PBSQ (110V, 60Hz, Digital Display)

Models 0-1015-SQDL (110V, 60Hz, Dig Display w/Door Lock)

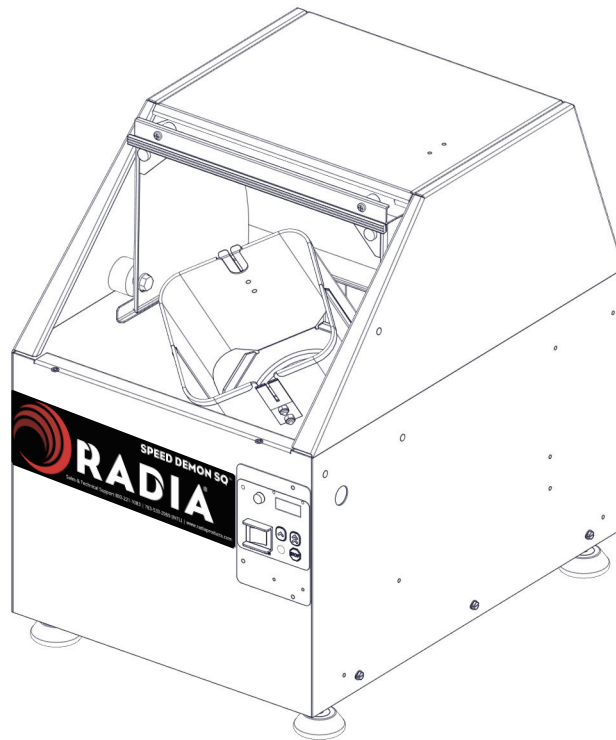


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1. Safety Information

Review this owner's manual and read all warning labels on the machine prior to use.

The three main safety notifications used in this manual and on the warning labels are **WARNING**, **CAUTION** and **NOTICE**. They have specific meanings and indicate the potential dangers from misuse of the machine.

	"WARNING!" indicates a hazardous situation, which, if not avoided, could result in death or serious injury. These serious injuries could include permanent loss of function or significant disfigurement, disability, considerable pain and suffering, amputations, severe burns, and loss or impairment of vision or hearing. Take all necessary precautions to avoid unnecessary injury.
	"CAUTION!" indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury.
	"NOTICE" indicates practices that do not involve physical injury but may damage the machine.

Safety Information, Continued..

1.1 Safety Precaution Labels

 WARNING ADVERTENCIA AVERTISSEMENT	MOVING PARTS INSIDE PARTES EN MOVIMIENTO PIÈCES EN MOVEMENT
-Do not open door until machine comes to complete stop; moving parts inside could cause serious injury.	
-No abra la puerta hasta que la maquina se detenga completamente, las partes internas en movimiento pueden causar heridas graves.	
- Ne pas ouvrir la porte avant que la machine ne s'arrête complètement. Pièces en mouvement à l'intérieur pourraient provoquer des blessures graves.	

Part No. 1784963

 WARNING ADVERTENCIA AVERTISSEMENT	WARNING ADVERTENCIA AVERTISSEMENT
-This machine is not explosion proof rated.	
-Review product label, Material safety Data Sheet, and HMIS rating of materials and exposures prior to mixing to determine potential hazards.	
-Use in dry and well-ventilated environment where dust and flammable vapors are not present; risk of physical injury exists if used in hazardous environment.	
-All containers must be properly sealed and void of leaks.	
-Esta máquina no tiene la clasificación de prueba de explosión.	
-Revise la etiqueta del producto, la hoja informativa de datos de seguridad, su clasificación HMIS antes de mezclar y exposiciones de materiales peligrosos para determinar los peligros potenciales.	
-Use en un ambiente seco y bien ventilado donde polvo y vapores inflamables no estén presentes; Riesgo de daño físico existe si es utilizado en un ambiente peligrosos.	
-Todos los contenedores deben estar bien sellados y sin fugas.	
-Cette machine n'est pas classé antidéflagrant.	
-Examen e'tiquette du produit, Fiche de données de sécurité, Et matériel HMIS cote et expositions, avant de faire le mélange pour déterminer les risques potentiels.	
-Utilisation a'sec et bien aere' environnement ou'la poussie're et les vapeurs inflammables ne sont pas presents; risque de blessure physique existe si utilise' en environnement dangereux.	
-Tous les conteneurs doivent être correctement scellés pour éviter les fuites.	

Part No. 1780899

 WARNING ADVERTENCIA AVERTISSEMENT	WARNING ADVERTENCIA AVERTISSEMENT
- Machine must be properly grounded before use; improper grounding could cause electric shock and injury.	
-Disconnect power cord before servicing, cleaning or removing any cover, and follow lockout/ tagout procedures in owner manual; failure to disconnect power could cause electric shock and injury.	
-Review Owners Manual before installing or operating.	
- La maquinaria debe ser apoyada correctamente en el suelo antes de usar, el no apoyarla puede causar choque eléctrico y daños.	
-Desconecte la energía antes de dar mantenimiento, limpiar o quitar cualquier cubierta, y siga los procedimientos de bloqueo/etiquetado del manual, Fallar en desconectar puede causar choque eléctrico y daños.	
- Revise el manual del usuario antes de instalar u operar.	
- La machine doit être correctement mise à la terre avant de les utiliser mise à la terre incorrecte peut provoquer un choc électrique et de blessure.	
- De'branchez le cordon d'alimentation avant de procéder à l'entretien, le nettoyage ou le retrait des capots: suivez la procédure d'isolation/consignation procédures dans le manuel de l'opérateur; E'chec de de'brancher la source d'alimentation peut provoquer shock and électrique blessures.	
-Re'examiner le fonctionnement manuel avant l'installation.	

Safety Information, Continued..

1.2 Safety Precaution Summary

DO NOT WARNING!

 **DO NOT** attempt to replace any damaged electrical wire or components. Improper replacement could result in electric shock and serious injury. Only a qualified service representative should attempt to repair or replace any damaged electrical components.

 Review this owner's manual before installing or operating.

 The machine must be properly grounded prior to use. In the case of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current.

 The machine's power cord has a grounding wire with an appropriate grounding plug. This plug must be inserted into an electrical outlet that is properly installed and grounded according to all local codes and ordinances.

 If you must repair or replace the power cord or plug, **DO NOT** connect the grounding wire to either flat-blade terminal. The wire with insulation having an outer surface that is green (with or without yellow stripes) is the grounding wire.

 Check with a qualified electrician if you don't completely understand these grounding instructions, or if you are not sure whether the machine is properly grounded. **DO NOT** modify the plug provided; if it won't fit in the outlet, have a proper outlet installed by a qualified electrician.

 Disconnect the power cord before servicing, cleaning, or removing any covers

 Follow the lockout/tagout procedures of your company.

 **DO NOT** open the door until the machine comes to a complete stop.

 To avoid electric shock, don't get the timer, control panel, or wiring wet.

 This machine is not explosion proof rated. All containers must be properly sealed and void of leaks.

 Review product label, Material Safety Data Sheet, and HMIS rating of materials prior to mixing to determine potential hazards.

 **DO NOT** use solvent-based cleaners or thinners.

 Use in a dry and well-ventilated environment where dust and flammable vapors are not present.

 **“ WARNING:** This product may expose you to chemicals including DEHP, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

CAUTION!

 Keep the work area free of clutter and electrical cords.

 Avoid extension cords. To minimize the risk of improper electrical grounding, extension cords are not recommended. If an extension cords are not recommended. If an extension cord is unavoidable, consult a qualified electrician to determine what type of extension cord will satisfy the grounding, current capacity, and other requirements of the particular situation.

 Use the proper power source. Refer to the machine data plate on the right side panel or the section 2.1, Specifications, in this manual.

 Keep customers away from the work area. This machine should be used only by properly trained individuals.

 Clamp the can carefully to ensure that it is held securely during the mixing cycle.

Product safety labels should be inspected and cleaned periodically to maintain good legibility. Replace any labels that are no longer legible.

2. Introduction

2.1 Application

Congratulations on your purchase of the Speed Demon 1 Vortex Mixer. This machine is designed to accommodate single round pint, quart, or gallon plastic or metal containers weighing up to 15 lb. (6.8 kg). It can also accommodate square quart cans when used in conjunction with the optional adapter, part no. 9784203. See section 9, Ordering, for ordering instructions.

Understand your machine's features and proper operation to take full advantage of its capabilities.

Read this entire manual completely before operating the machine. Practice installing and removing a pail before mixing for the first time.

Keep this manual for future reference.

Always follow all safety instructions!

2.1 Specifications

Unit Size: W 16.5 in. (41.2 cm) D 22.5 in. (57.1 cm) H 23 in. (58.4 cm)

Machine Weight: 133 lb. (60.32 kg)

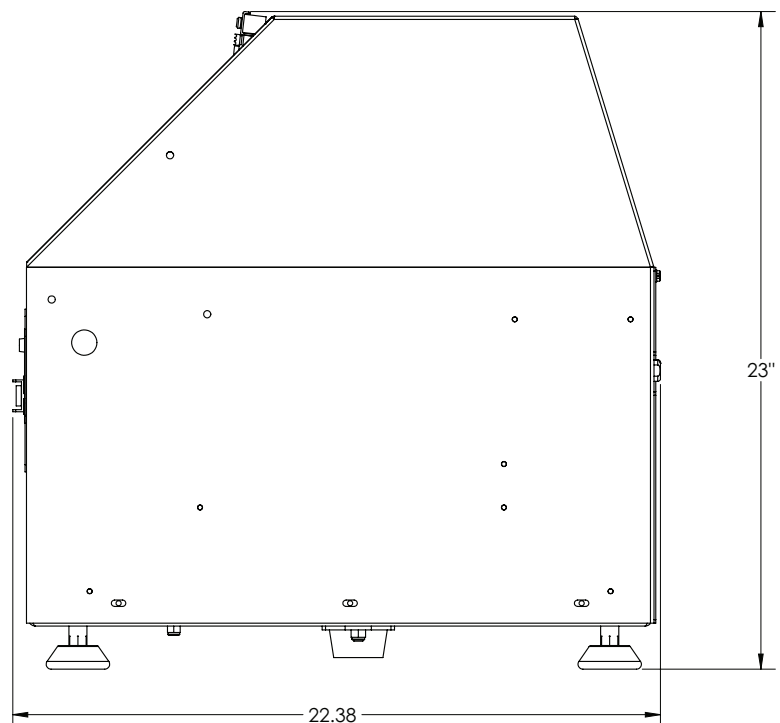
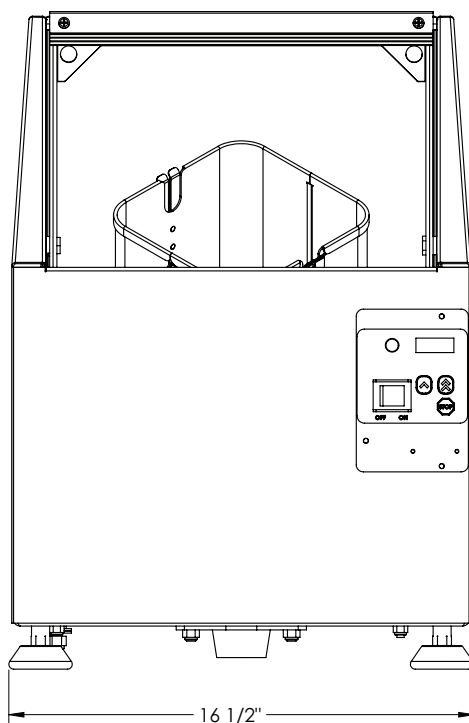
Shipped Weight: 165 lb. (74.8 kg)

Maximum Capacity: 15 lb. (6.8 kg)

Sizes Mixed: One pt., one qt, one gal.

Electric Service: 110 V 60 Hz

Machines rated at 110 V, 60 Hz are for use with a nominal 120 V circuit.

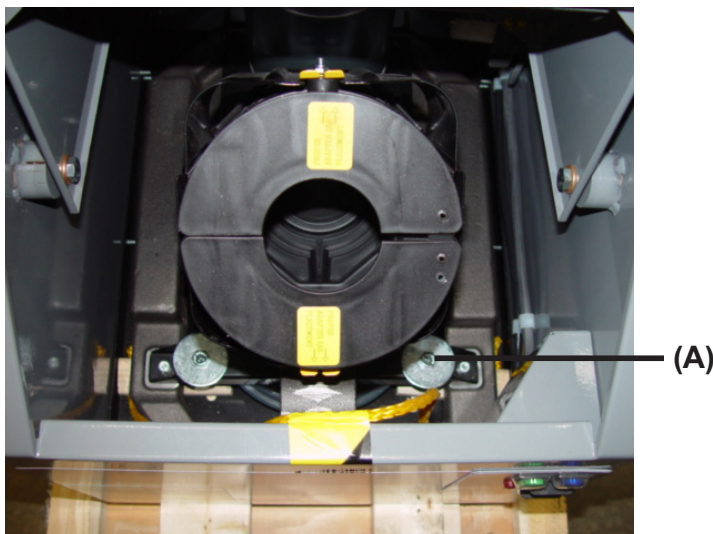


3. Unpacking and Install

This machine was shipped fully assembled.

Before plugging in the machine or attempting to operate it:

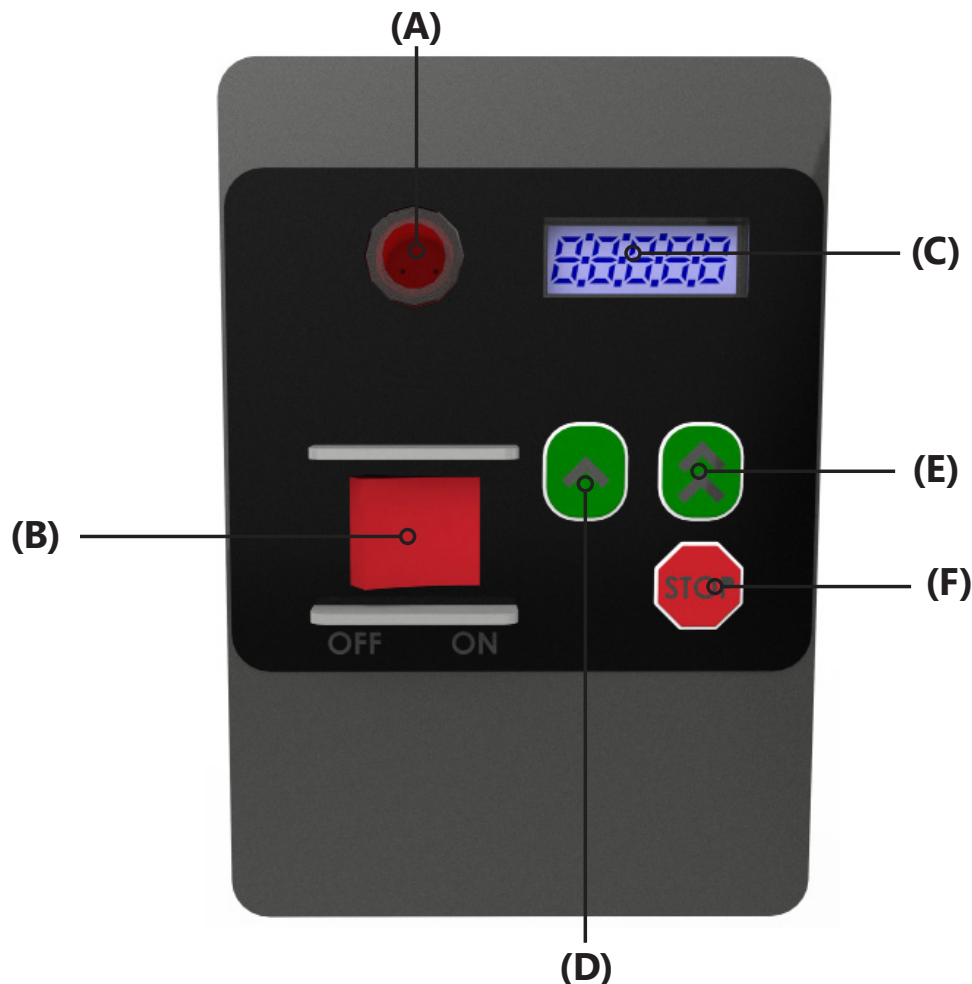
1. Remove all packing material.
2. Remove the locking pins and washers from the top of the shipping rods **(A)**.
3. Push the shipping rods down far enough to remove the retaining pins and washers underneath the pallet.
4. Remove the shipping rods by sliding them up through wood block. Set aside the rods, washers, and retaining pins in case they are needed for shipment of the mixer in the future.
5. Slide the wood block out from under the mid-frame. Remove the tape that holds the rope to the front of the mixer, and set aside the yellow rope and wood blocks.
6. Set the machine on a stable, level surface and plug it in an appropriately grounded outlet (see section 1.2, Safety Precaution Summary, for grounding information).
7. NOTE: If the machine needs to be shipped any time, contact Radia to obtain the appropriate packaging kit, part no. 6784975.



4. Operation - 1015PBSQ & 1015SQDL

4.1 Control Panel

- **Operational Indicator (A):** This light is illuminated during machine operation.
- **Power Switch (B):** Turn the power off and on. (Note: Not used on the SQDL model)
- **Digital Display (C):** Viewing programming revision and cycle time remaining
- **Two-Minute Cycle (D):** Push to set a 2 minute cycle. Press again to increase the cycles in 2 minute increments. (Note: On the SQDL model, the door locks until 9 seconds after the cycle completes.)
- **Three-Minute Cycle (E):** Push to set 3 minute cycle. Press again to increase the cycles in 3 minute increments. (Note: On the SQDL model, the door locks until 9 seconds after the cycle completes.)
- **Stop (F):** Press to stop a cycle before preset time expires
- **Stop (F):** Press to stop a cycle before the preset time expires,

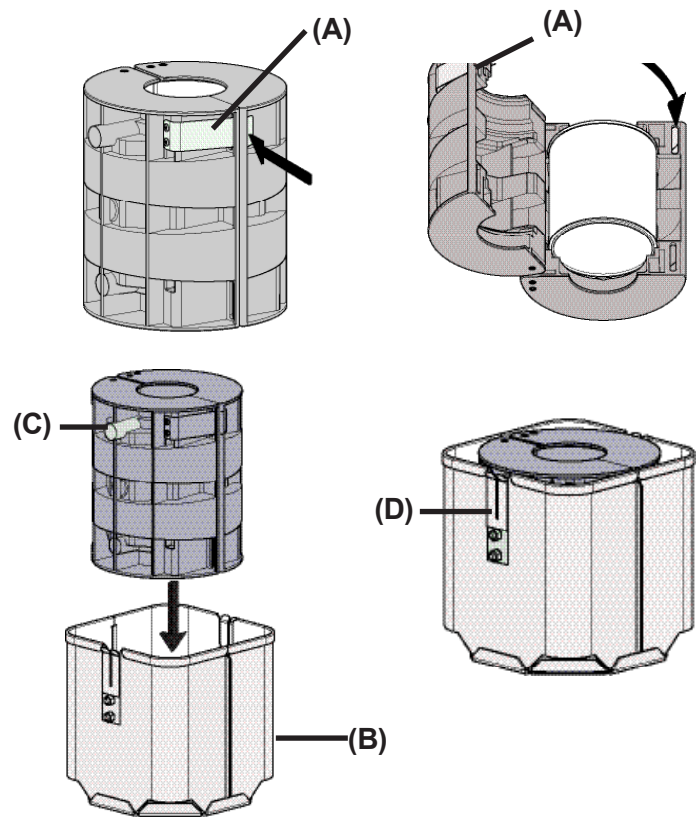


4.2 Install a Container

1. Open the cabinet Door
2. Load the can into the machine for mixing:
 - **Quart Cans:**
 - i. Push the quart adapter clip **(A)** to open the quart adapter.
 - ii. Place the quart container inside the **6784226** adapter, making sure the top of the container aligns with the top of the adapter.
 - iii. Close the adapter, making sure the adapter clip **(A)** is fully engaged.
 - iv. Insert the adapter into the can holder **(B)**. Make sure the adapter lugs **(C)** are lined up with the clip retainers and the adapter is all the way to the bottom of the can holder.
 - **Gallon Cans:** Insert the container into the can holder.
3. Slip the bail handle into the clip retainers **(D)**.
4. Close the cabinet door. The mixer has a safety switch that interrupts operation if the door is open.
5. Select the desired mix time.

▲ If the container handle wasn't properly secured, press the STOP button on the control panel.

NOTE: If colorant has been added to the paint, be sure to reattach paint can lid tightly (using the RED DEVIL EQUIPMENT Lid Press, Part No. 0-5080).



5. Cleaning

▲ Always unplug the power cord before cleaning!
DO NOT get the timer, control panel, or wiring wet.

CLEANING:

Keeping the machine clean is important for reliable operation.

- Colorant or base paint spilled on machine surfaces can be removed using lukewarm water and mild detergent for water-based/glycol colorants.
- To preserve the appearance of the machine, do not use abrasives to clean machine surfaces.

6. Troubleshooting

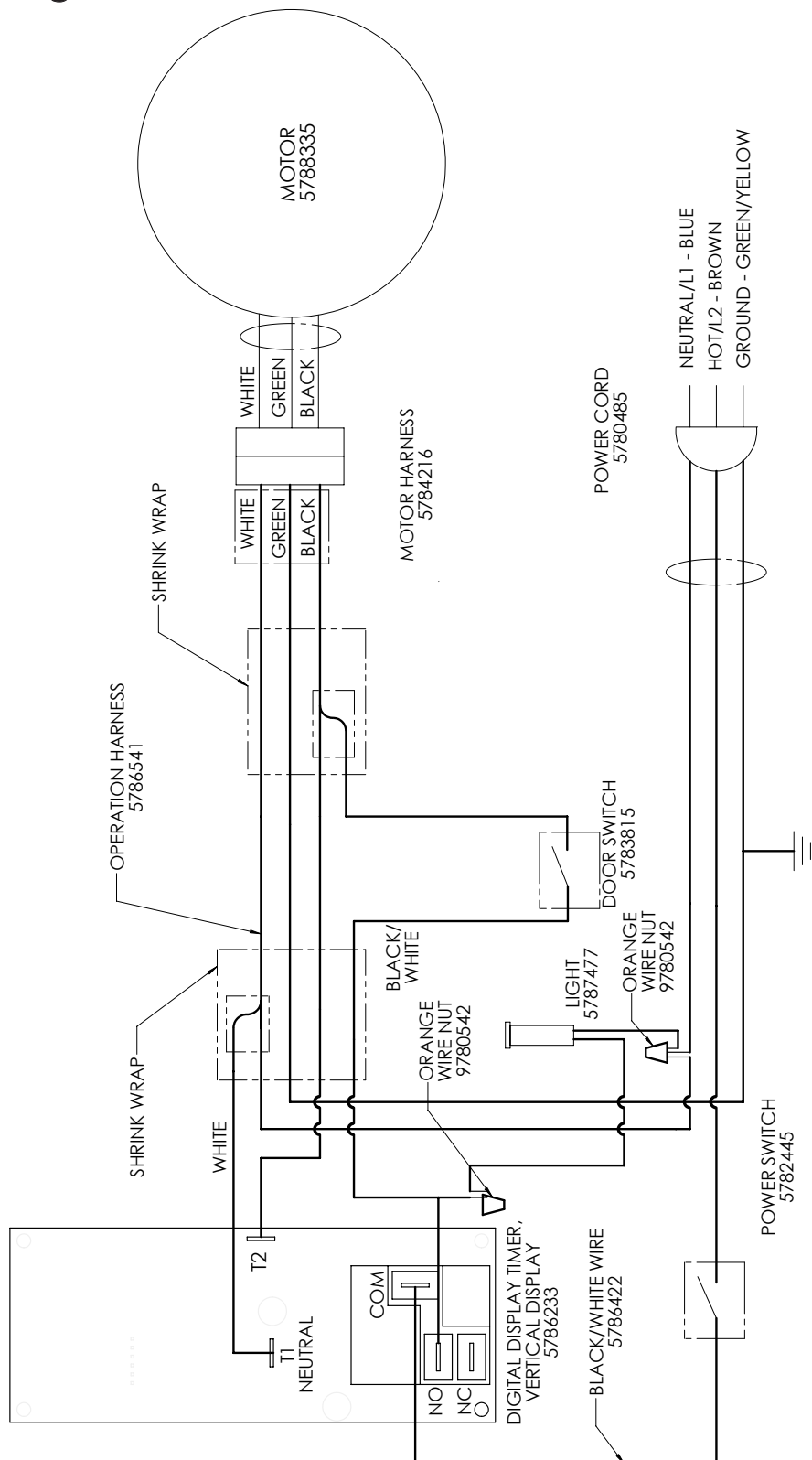


Disconnect the machine from its power source before performing any service.

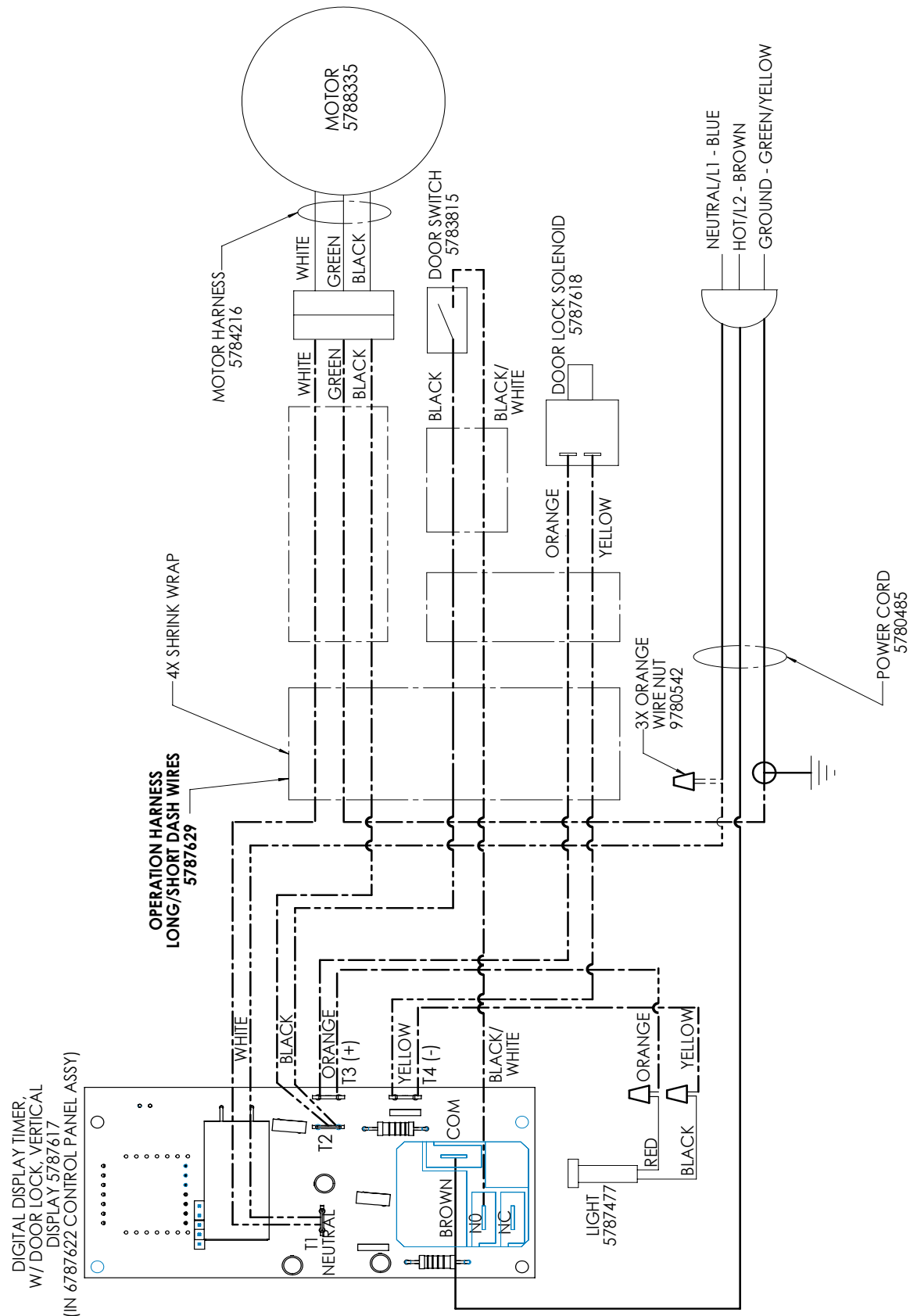
PROBLEM	CAUSE	REMEDY
Machine won't operate	Not connected to power source	Connect to power source
	Building circuit breaker or fuse blown	Reset breaker or replace fuse
	Machine door does not make contact with limit switch	Adjust lever arm on the switch to make contact with door bracket tab when door is closed
	Motor Thermal Protector Activated	Allow to cool, then restart the machine
	Faulty Motor	Contact Radia Customer Care
	Faulty controller	Contact Radia Customer Care
	Faulty door limit switch	Contact Radia Customer Care
	Worm, Damaged, or Loose drive belt	Contact Radia Customer Care
Excessive Vibration	Pail damaged	Fix or replace pail
	Pail not properly seated	Reset pail into holder
	Feet are not level	Adjust and level feet
Machine doesn't shut off at end of mixing cycle	Faulty controller	Contact Radia Customer Care
Machine doesn't shut off when door is opened	Faulty door limit switch	Contact Radia Customer Care
Increasing mechanical noise	Bearings worn or damaged	Contact Radia Customer Care

7. Wiring Diagrams

7.1 PBSQ Wiring

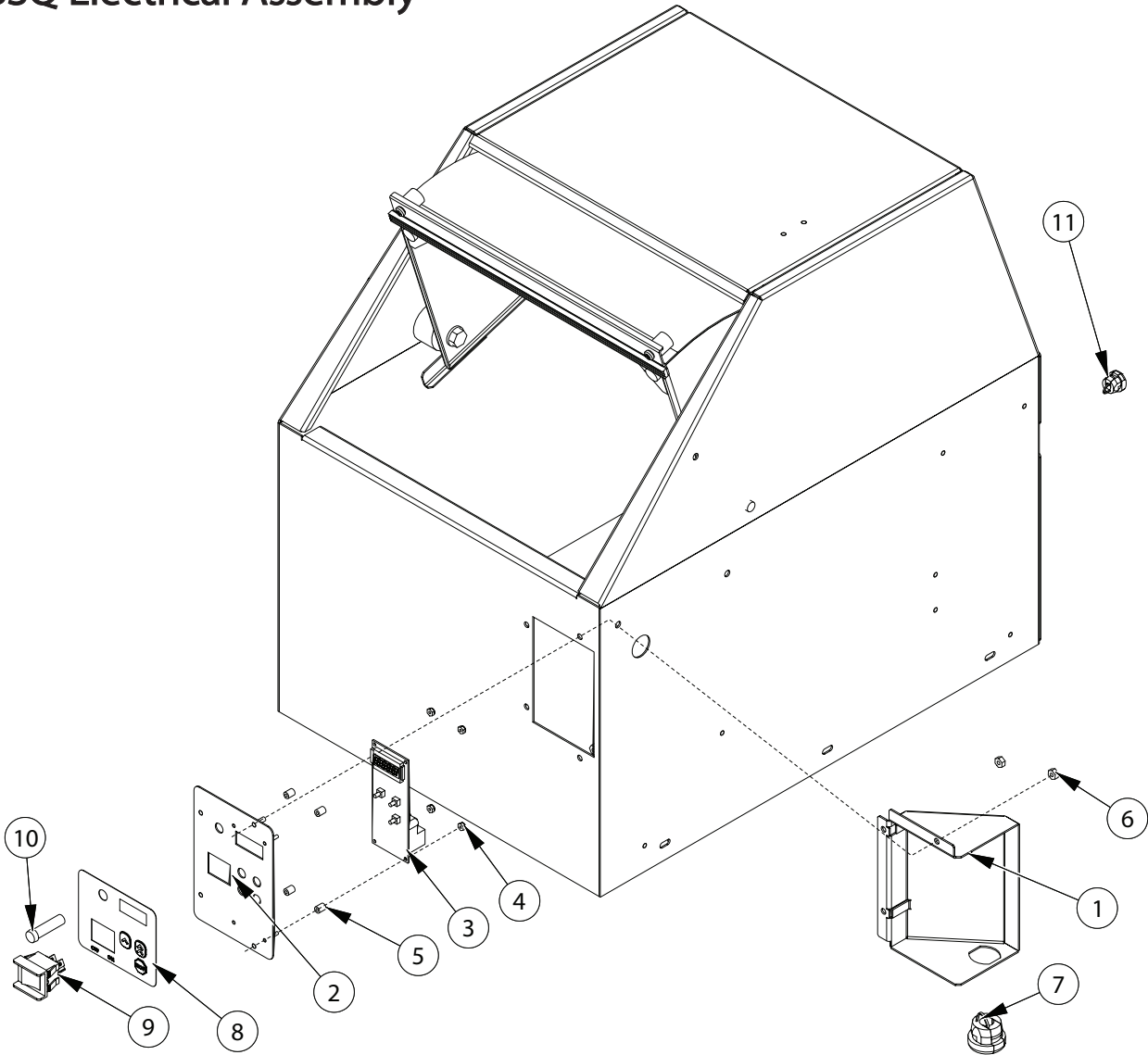


7.2 SQDL Wiring



8. Exploded Views

8.1 PBSQ Electrical Assembly



ID	Description
1	9786423 BOX, DIGITAL DISPLAY - 1015
2	9787479 PANEL, CONTROL, DIGITAL DISPLAY - 1015
3	5786233 TIMER, DIGITAL, VERTICAL, 120V
4	9783595 Nut, Lock, Nylon 4-40
5	9786232 SPACER
6	9781840 Nut, Keps #8-32

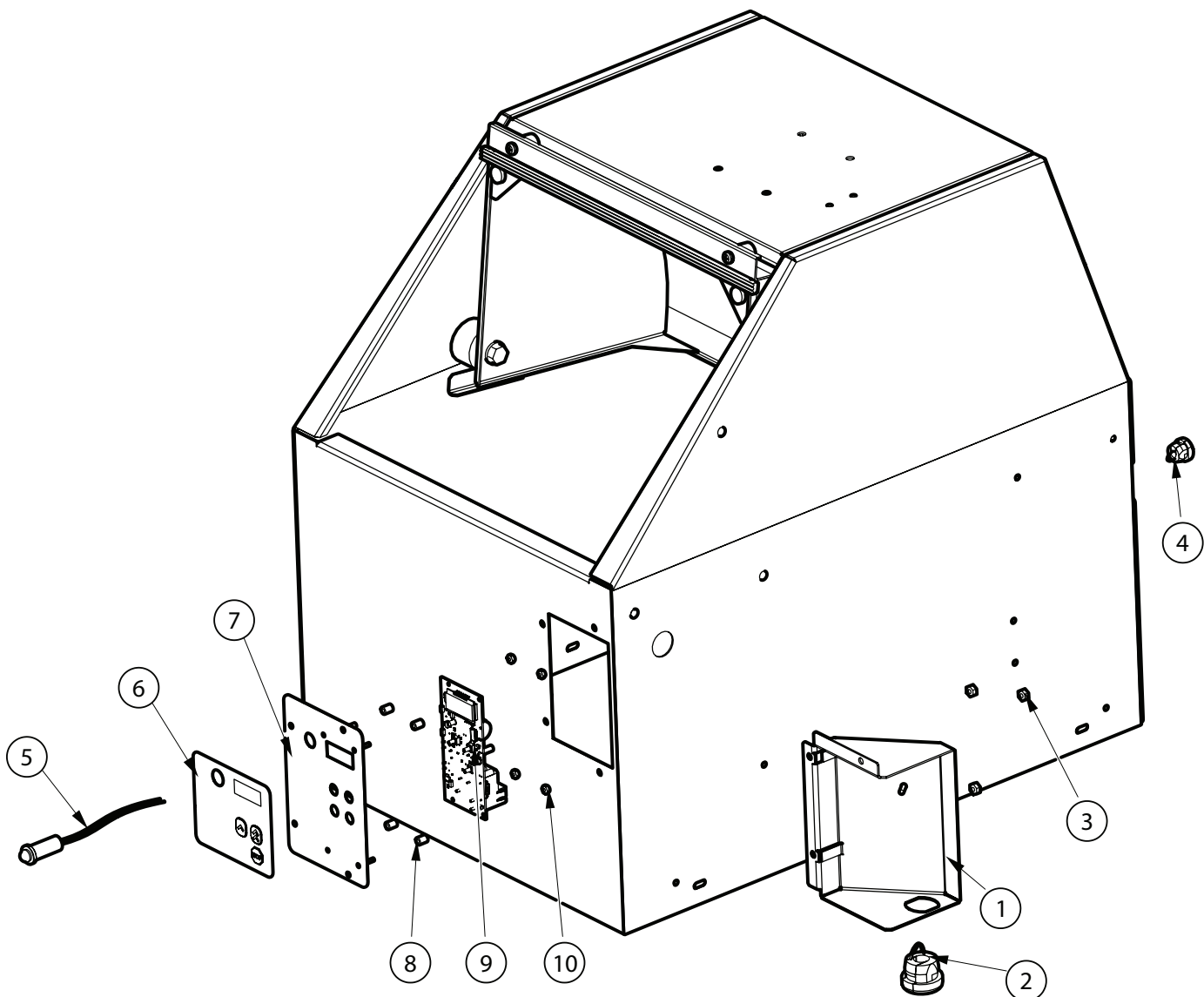
ID	Description
7	9782603 STRAIN RELIEF 5300 PB
8	1787763 LABEL, DIGITAL DISPLAY - 1015
9	5782445 POWER SWITCH
10	5787477 LED INDICATOR, PANEL MOUNT
11	9102519 BUSHING,STR.RELIEF

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

Exploded Views, Continued..

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8.2 SQDL Electrical Assembly



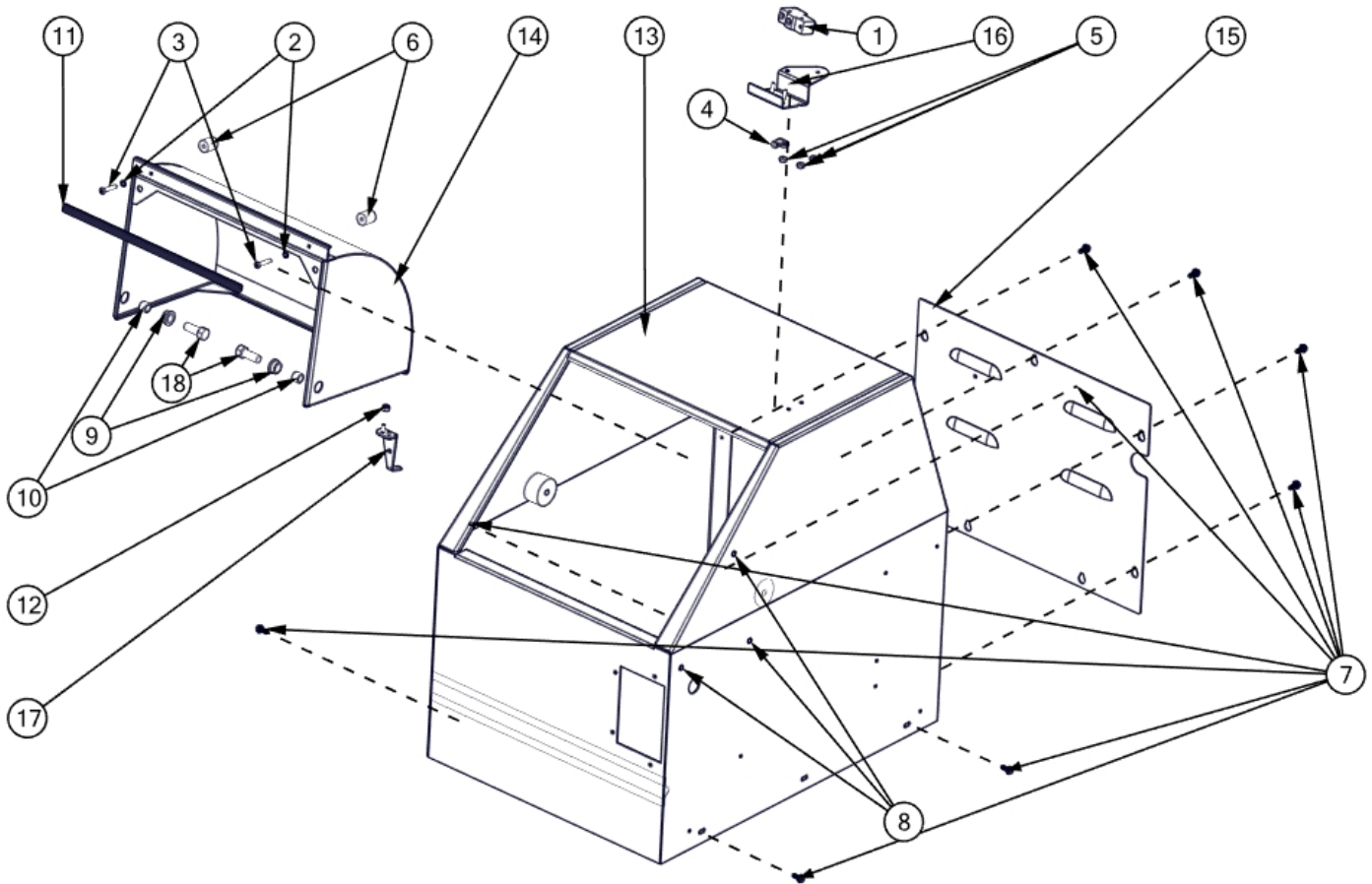
ID	Description
1	9786423 BOX, DIGITAL DISPLAY - 1015
2	9782603 STRAIN RELIEF, 5300PB
3	9781840 Nut, Keps #8-32
4	9102519 BUSHING,STR.RELIEF
5	5787477 LED INDICATOR, PANEL MOUNT
6	1787619 LABEL, DIGITAL , LOCK - 1015

ID	Description
7	9787635 PANEL DIGITAL DISPLAY - 1015
8	9786232 SPACER
9	5787617 DIGITAL , DOOR LOCK - 1015
10	9783595 Nut, Lock, Nylon 4-40

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

...Exploded Views, Continued

8.3 PBSQ Enclosure Components



ID	Description
1	5783815 Switch, Limit 1hp
2	9780633 Washer #10 LOCK
3	9781142 Screw, Pan-Head, 10-32 X .50
4	9781548 CLAMP, CABLE 1_4 HEYCO 3324
5	9781840 Nut, Keps #8-32
6	9782681 BUMPER, DOOR - 5300
7	9783385 Screw, #10-32 SHWH Tap
8	9783672 PLUG, HOLE .250 BLACK NYLON
9	9784425 Bearing, Bronze Flanged
10	9784426 Sleeve, Steel

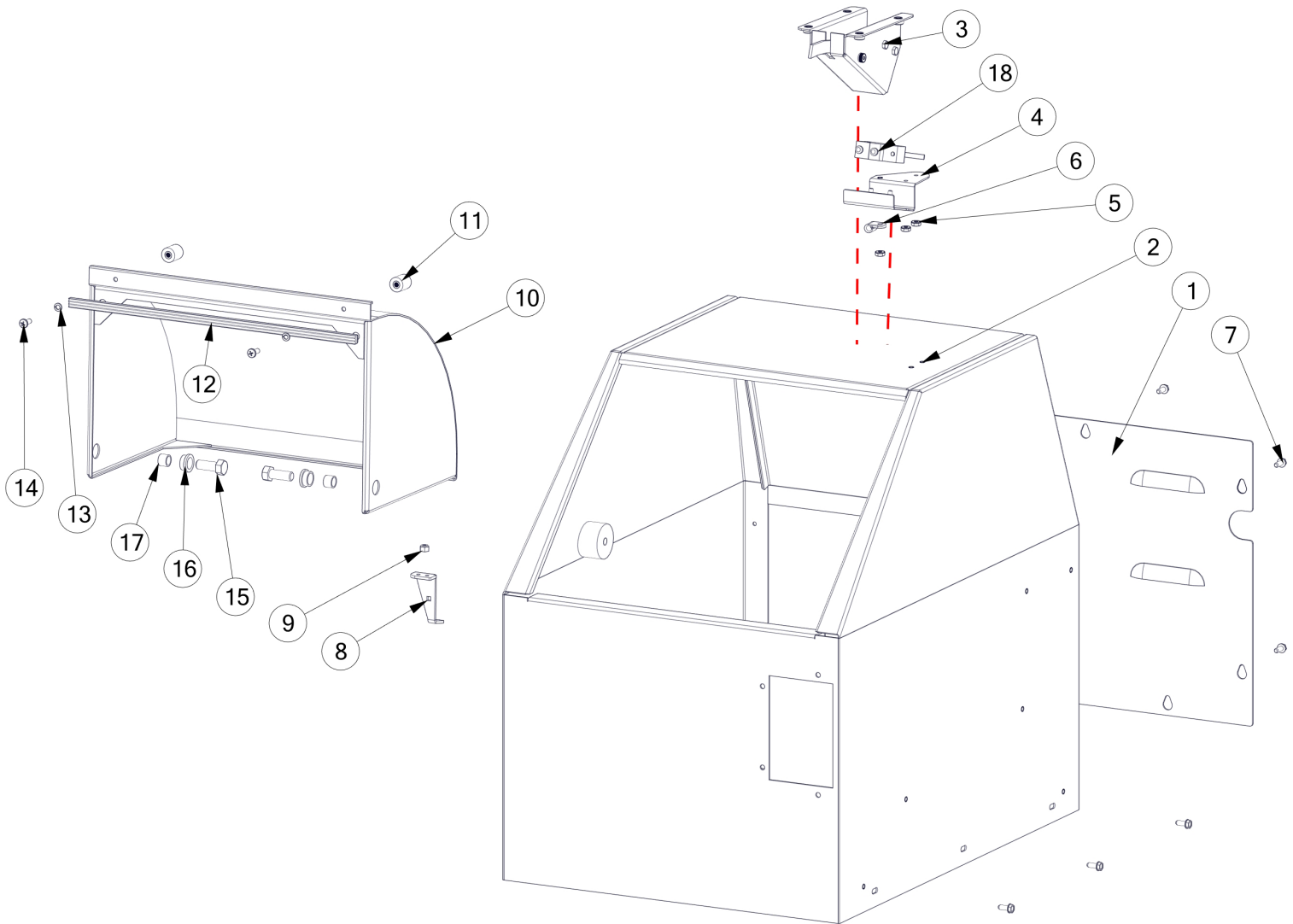
ID	Description
11	9784589 SEAL, DOOR - 1015
12	9785126 Nut #8-32 Nylon Lock
13	9787258 ENCLOSURE WELDT 1015SQ
14	9787259 DOOR WELDT 1015SQ
15	9787260 BACK PANEL 1015SQ
16	9787770 BRACKET, DOOR CLOSED SWITCH - 1015
17	9787773 ACTUATOR, DOOR CLOSED - 1015SQ
18	9788040 Screw Hex Hd 3_8-16 x 1.00 Gr8 ZP Patch

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

Exploded Views, Continued..

...Exploded Views, Continued

8.4 SQDL Enclosure Components



BOM ID	Description
1	9787260 BACK PANEL 1015SQ
2	9787258 ENCLOSURE WELDMENT 1015SQDL
3	6787839 SQDL LOCK ASSEMBLY KIT
4	9787770 BRACKET, CLOSED DOOR SWITCH 1015
5	9781840 NUT, KEPS 8-32 ZINC
6	9781548 CLAMP, CABLE 1/4" HEYCO 3324
7	9783385 SCREW, TAPPING 10-32X1/2 SLOTTED
8	9787773 ACTUATOR, DOOR CLOSED 1015SQ
9	9785126 NUT, NYLOCK 8-32 ZINC
10	9787259 DOOR WELDMENT 1015SQ

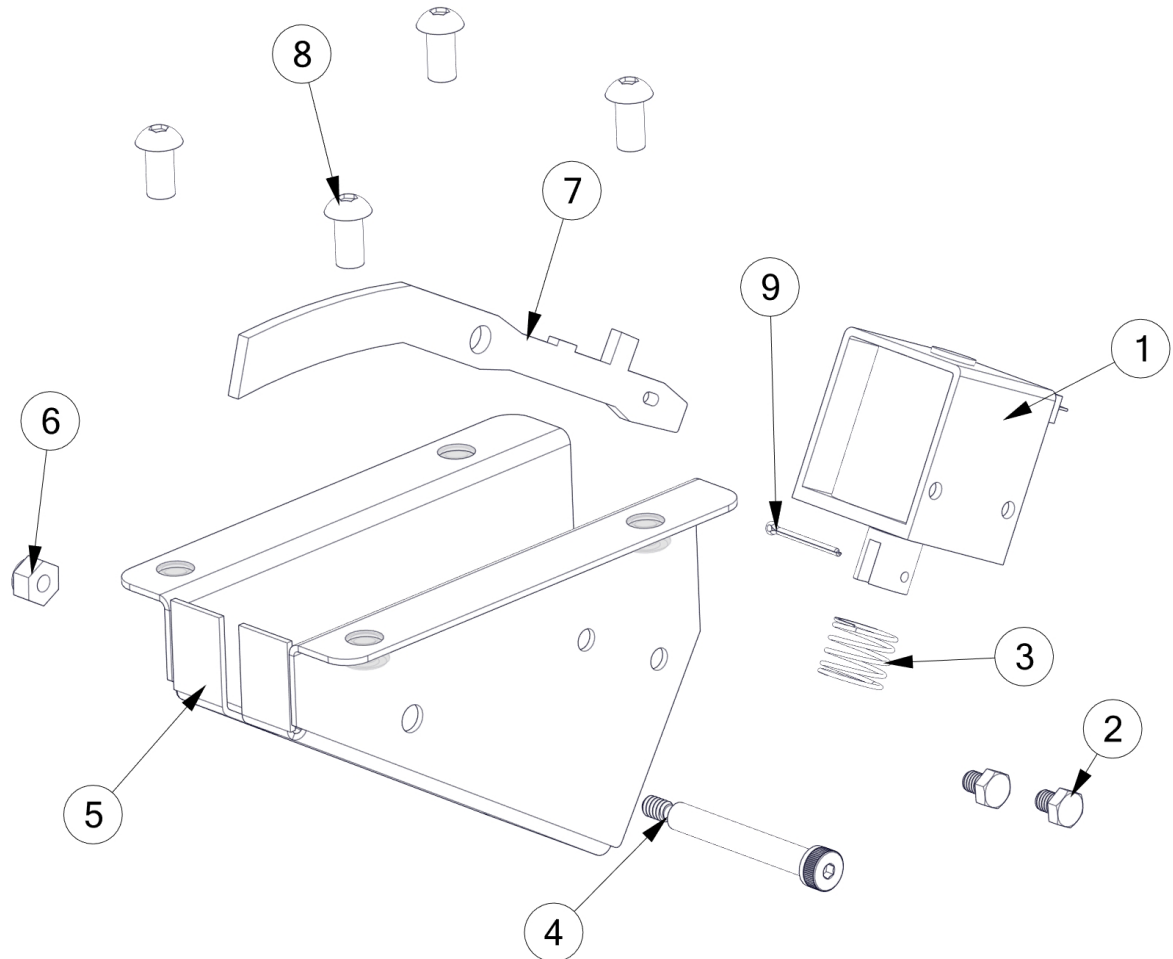
BOM ID	Description
11	9782681 BUMPER, DOOR - 5300
12	9784589 SEAL, DOOR - 1015
13	9780633 WASHER, LOCK #10 ZINC
14	9781142 SCREW, PAN HD 10/32X1/2 MS PHILLIPS
15	9788040 SCREW HEX HD 3/8-16X1 GR8 ZP PATCH
16	9784425 BEARING, BRONZE FLANGED
17	9784426 SLEEVE, STEEL
18	5783815 LIMIT SWITCH 1HP

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

Exploded Views, Continued..

...Exploded Views, Continued

8.5 SQDL 6787771 Door Lock Assy



ID	Description
1	5787618 SOLENOID, 120VDC, DOOR LOCK
2	9787634 SCREW, HEX #10-32 X .25 SS
3	9787624 SPRING, .526 ID X .50 LG
4	9780633 Washer #10 LOCK
5	9780886 SCREW HEX 3_8-16 X 1.00

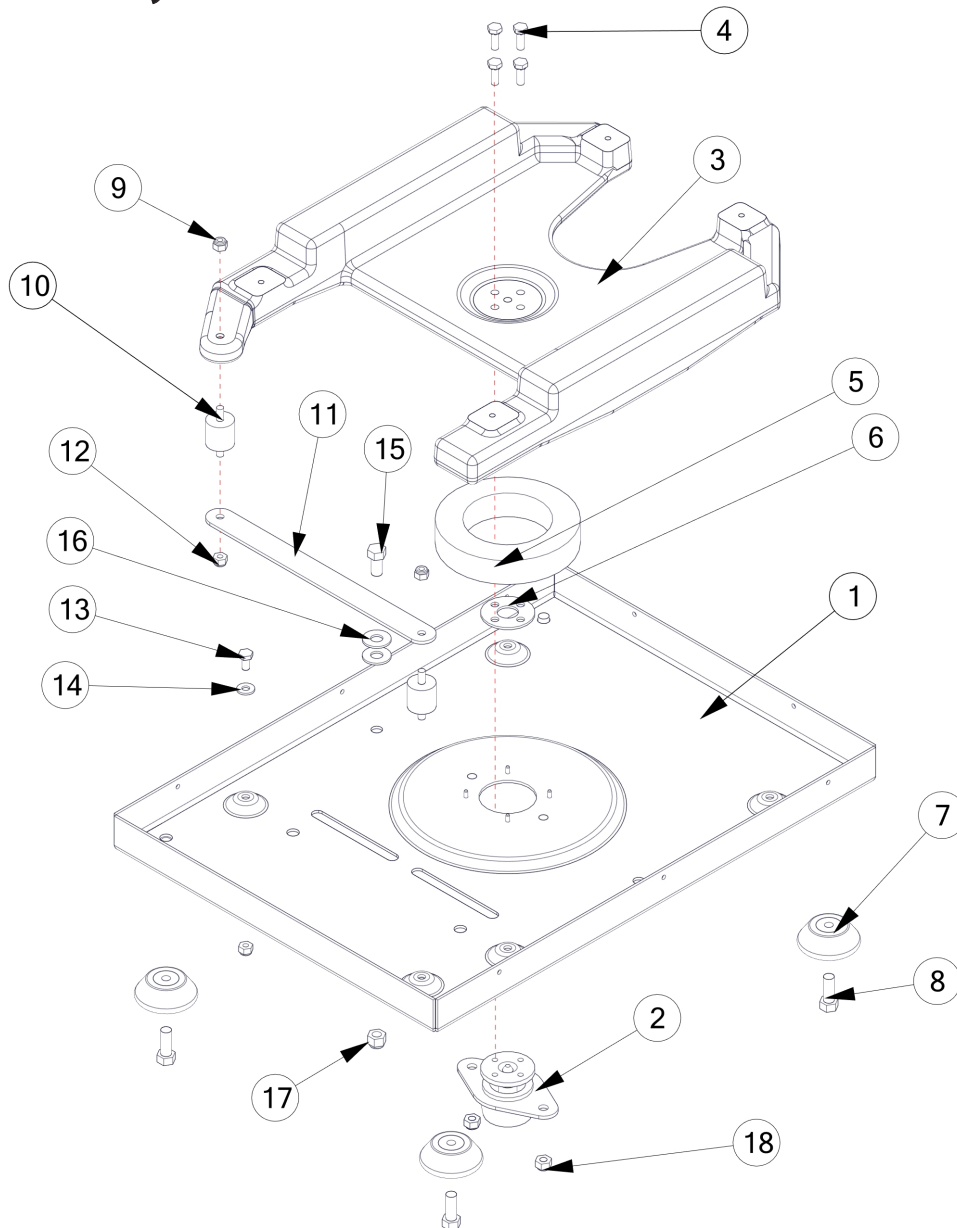
ID	Description
6	9781142 Screw, Pan-Head, 10-32 X .50
7	9787767 DOOR LOCK LEVER - 1015DL
8	9783365 Screw Button 1_4 x .5
9	9782681 BUMPER, DOOR - 5300

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

Exploded Views, Continued..

...Exploded Views, Continued

8.6 Frame Assembly



ID	Description
1	9787275 BASE, WELDMENT - 1015SQ
2	9784517 ISOLATOR ASBY - 1015SQ
3	9784512 FRAME, CAST MID - 1015SQ
4	9788088 Screw Hex Hd 1/4-20x.75 GR8 ZP Patch
5	9784521 DISC, DAMPER - 1015SQ
6	9784695 SPACER, ISOLATOR - 1015SQ
7	9782044 Foot, Floor Stand
8	9788040 Screw Hex Hd 3_8-16x1.00 GR8 ZP Patch
9	9780343 Nut 1_4-20 Nylon Lock
10	9781929 ISOLATOR, RUBBER - 5300

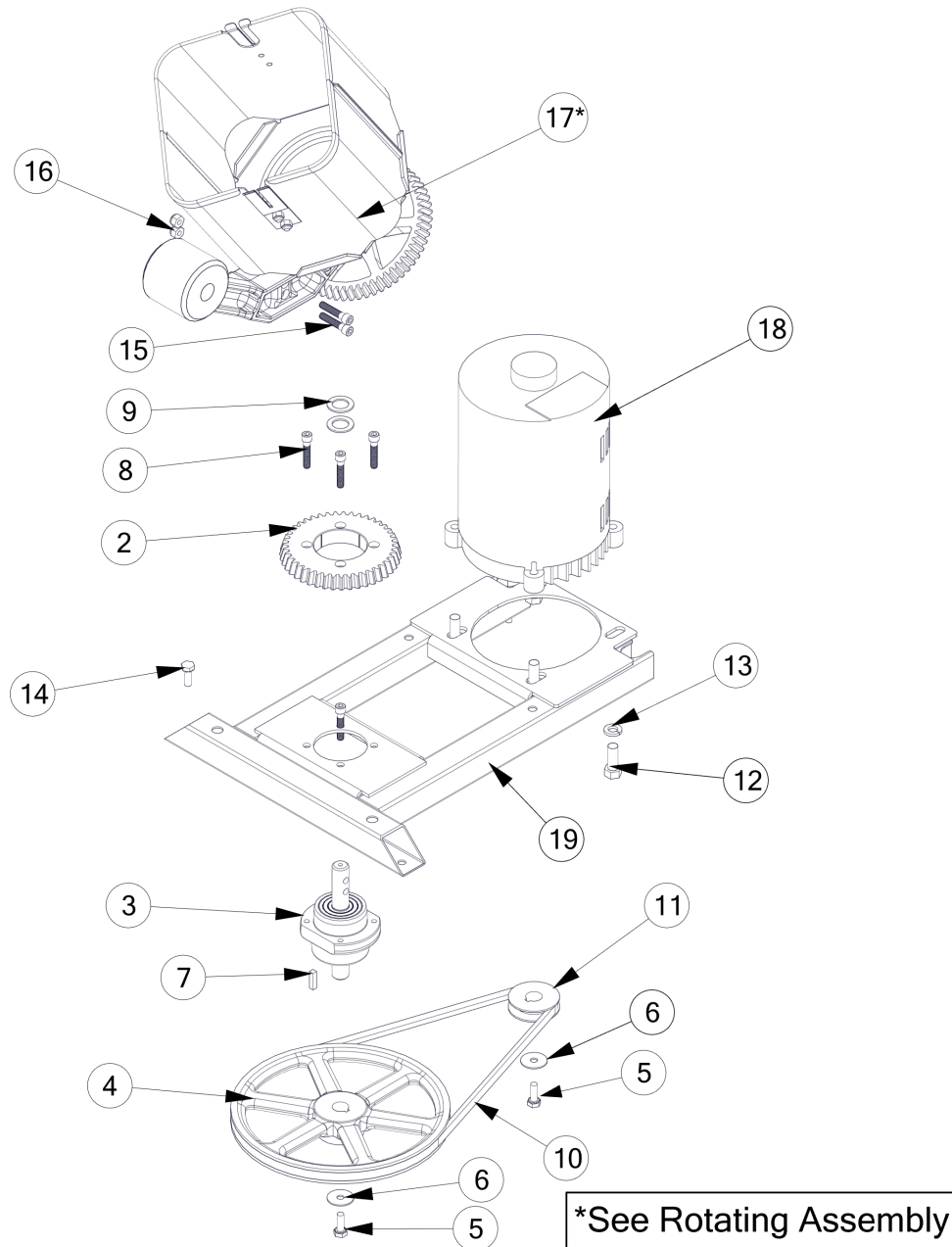
ID	Description
11	9784520 BRACE, SUPPORT - 1015SQ
12	9780343 Nut 1_4-20 Nylon Lock
13	9784698 SCREW, HEX 1_4-20 X .50
14	9760514 Washer 1_4 SAE .281 ID
15	9780144 Screw Hex 3_8-16 x .75
16	9161100 Washer, Flat 3_8 USS
17	9780193 NUT, NYLOCK 3_8-16
18	9780182 Nut, Nylock 5_16-18

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

Exploded Views, Continued..

...Exploded Views, Continued

8.7 Drive Assembly



ID	Description
2	9784510 GEAR, SMALL BEVEL - 1015
3	9784547 BEARING HOUSING ASSY - 1015
4	9781918 PULLEY, BIG - 1015
5	9788088 Screw Hex Hd 1/4-20x0.75 GR8 ZP Patch
6	9781414 Washer Fender 1_4
7	9784334 Key, Square .187 x .750
8	9788089 Screw Socket Hd 1_4-20x1.25 Patch
9	9781904 WASHER, SPACER
10	9784527 BELT - 1015
11	9784526 PULLEY, SMALL - 1015SQ

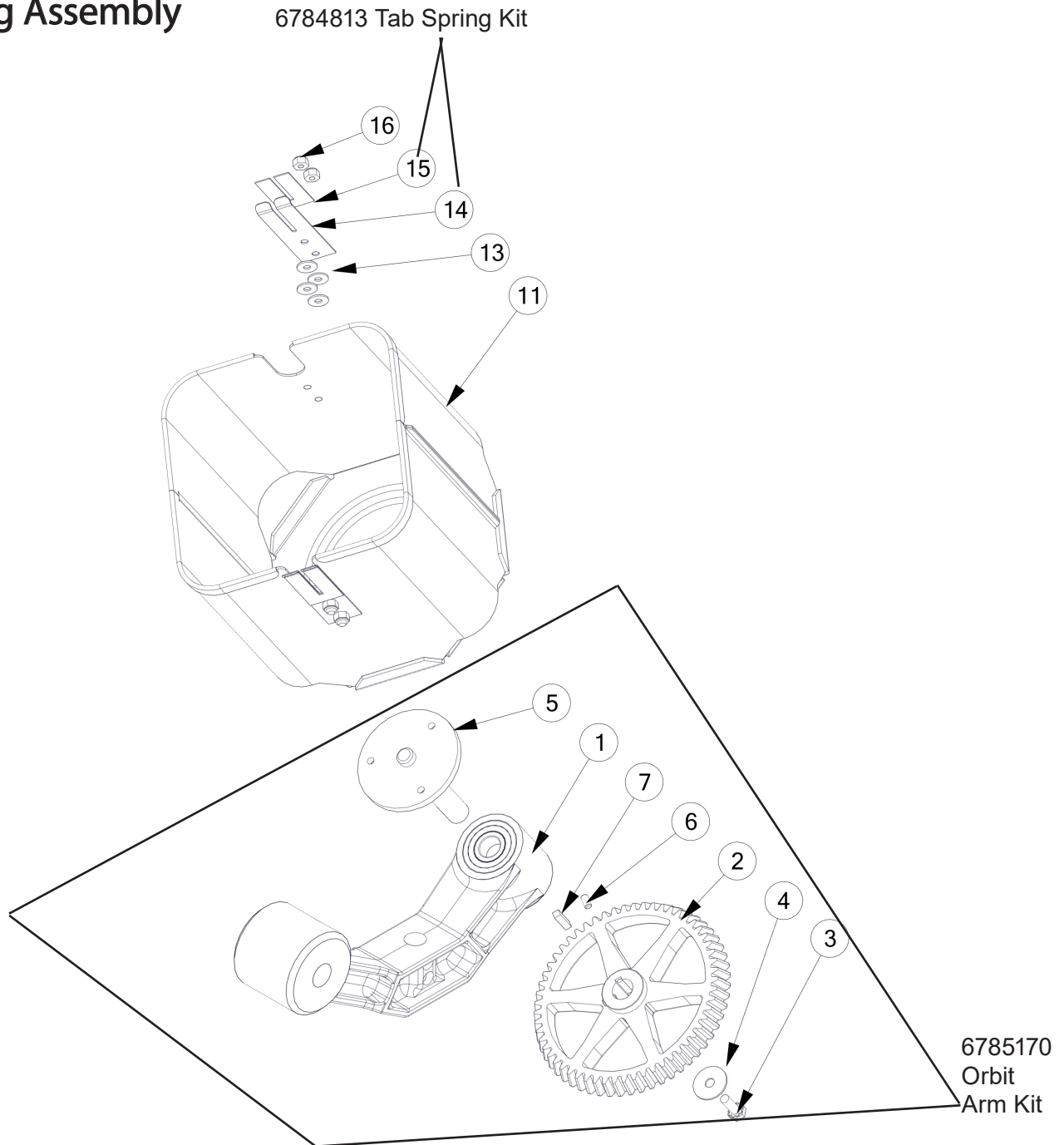
ID	Description
12	9788040 Screw Hex Hd 3_8-16x1.00 GR8 ZP Patch
13	9780402 Washer 3_8 split lock
14	9788088 Screw Hex Hd 1/4-20x0.75 GR8 ZP Patch
15	9788089 Screw Socket Hd 1_4-20x1.25 Patch
16	9780343 Nut 1_4-20 Nylon Lock
17	6784524 ROTATING ARM & CAN ASBY - 1015SQ*
18	5788445 Motor 1/4 Hp 56C, w_harness KIT
19	9784523 Frame, Mix - 1015

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

Exploded Views, Continued..

...Exploded Views, Continued

8.8 Rotating Assembly



ID	Description
1	9784514 ROTATING ARM & C'WEIGHT, CAST - 1015
2	9784509 GEAR, BIG BEVEL - 1015
3	9788088 Screw Hex Hd SEMS Ext 1_4-20x0.75 GR8 ZP Patch
4	9781414 Washer Fender 1_4
5	9784515 SHAFT, CAN DRIVE WELD'T - 1015
6	9784559 SCREW, SET CUP PT #10-24 X .375
7	9784334 KEY, SQUARE .187 X .75

ID	Description
11	9784540 SQUARE CAN HOLDER
13	9780749 Washer, Flat #10
14	9784541 TAB, SPRING. - 1015
15	9784560 PAD, SPRING TAB DAMPER - 1015
16	9781383 NUT, NYLON LOCK #10-32

PART NUMBERS LISTED MAY ONLY BE AVAILABLE IN KIT FORM OR AS AN ASSEMBLY

9. Ordering

Replacement Parts

HOW TO ORDER REPLACEMENT PARTS

Replacement parts can be ordered from Radia by telephone, fax, or email:

RADIA

800-221-1083
763-533-2969
763-533-0015 (FAX)
orders@radiaproducts.com

If you need help in determining the proper part(s) to order, please call Customer Care. at 1-800-221-1083. Always indicate the Model and Serial numbers of the machine when ordering replacement parts.

GENERAL PARTS REPLACEMENT POLICIES

While your machine is under warranty, do not attempt on-site repair or parts replacement without first contacting RADIA. (to protect your warranty). After the warranty expires, replacement parts and recommendations for on-site servicing are available from RADIA. Please contact Customer Care for assistance.

RESTOCKING FEE

A restocking fee will be charged on all unused parts which are returned.



For instructional "How To" videos please visit:
www.radiaproducts.com



10. Warranty

Equipment Covered Under This Warranty

Models 1015SQ, 1015SQDL

Warranty

Radia warrants equipment manufactured by it and bearing its name to be free from defects in material and workmanship.

EXCEPT FOR THE WARRANTY SET FORTH HEREIN, RADIA MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE EQUIPMENT, INCLUDING ANY (a) WARRANTY OF MERCHANTABILITY; (b) WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE; OR (c) WARRANTY AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY; WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE.

This warranty applies only when the equipment is installed, operated and maintained in accordance with written Radia instructions as appearing in the owners' manuals.

This warranty does not cover, and Radia shall not be liable for, any malfunction, damage, or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering or substitution of non-Radia component parts, modification or use for non-intended purposes. Nor shall Radia be liable for malfunction, damage or wear caused by the incompatibility of Radia equipment with structures, accessories, equipment, or materials not supplied by Radia.

Subject to the limitations set forth above, Radia shall (i) repair or replace the equipment (or the defective part) or (ii) credit or refund the price of such equipment. Costs of labor and transportation for service of machines under this warranty will also be covered during the warranty period if Radia elects to repair or replace the equipment. Normal ground freight will be covered for replacement parts sent within the warranty period. For customers outside of the US and Canada, the warranty is for parts only. Ground or common carrier ground freight will be covered for the return of defective items only. In no case shall Radia's liability exceed the amount of the purchase price.

*All warranty repairs must be executed by a Radia Authorized Service Center or warranty will be voided.

THE REMEDIES SET FORTH HEREIN ARE PURCHASER'S SOLE AND EXCLUSIVE REMEDY and RADIA'S ENTIRE LIABILITY FOR ANY BREACH OF THE LIMITED WARRANTY SET FORTH HEREIN.

Please contact your Radia Relationship Manager at 800-221-1083 for specific questions regarding specific questions regarding warranty terms.

For sales or service, please contact

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For instructional "How To" videos please visit:
www.radiaproducts.com

