

Summary	Adjustment of the Ding brake on Wyndstar Doors				
Products Affected	Wyndstar Doors with the Sterling Motor				
Key Word Tags	Sterling, Ding, Brake, Adjustment				
Tools/Equipment (If Required)					
Parts/Materials (If Required)					
Related Media					
Author	Mike Burzlaff	Issue Date	9/27/2016	Status	Active

Please Read The Entire Bulletin Before Proceeding

The following bulletin details the adjustment of the brake on the Sterling motor car wash doors.

MAINTENANCE

Caution: Before attempting to service or remove any components, make certain that the power is disconnected and that the load is completely removed, secured or blocked to prevent injury or property damage.



The disconnect must be in the OFF position and properly locked and tagged before performing the next step of the procedure.

WEAR ADJUSTMENT

Caution: Load to be removed or blocked. Brake may be inoperative during this procedure.

Before air gap "A" reaches .100", adjustment is required. Any delay in adjusting the magnet air gap will result in eventual loss of torque.

Refer to Figure 1 below.

1. Remove cover to expose square head wear adjusting screws (15H) and expose magnet air gap "A."
2. Measure the air gap "A" using 3/8" to 1/2" wide feeler gauge. (Measure at center of magnet.) Air gap must be the same on both sides of magnet.
3. Turn two square head adjusting screws (15H) until air gap "A" measures:
.045/.050 for 1 disc models
4. Replace cover, sealing washers and cover screws.
Tighten to 5 lb. ft. torque.

MEASURE "A"
HERE BOTH
SIDES

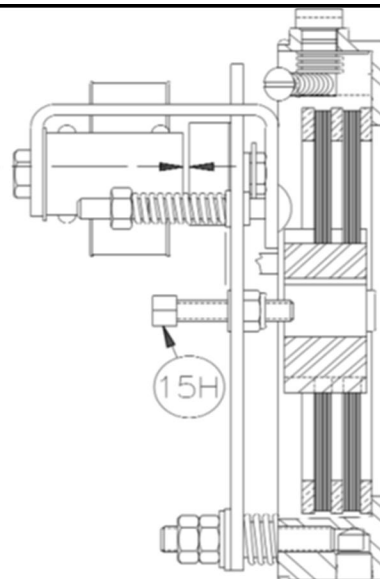


Figure 1

Torque Adjustment

Caution: Load to be removed or blocked. Brake may be inoperative during this procedure.

The magnetic disc brake is factory set for rated static torque. The brake can be adjusted to reduce torque which increases stopping time. Do not attempt to adjust brake for higher torque, as this will cause premature coil burnout.

Refer to Figure 2 below.

1. To adjust, remove cover to expose torque locknuts (15T), which are above torque springs (15S).
2. To increase stopping time and reduce torque, turn both torque locknuts counterclockwise, increasing spring length. Each full turn reduces torque 7% to 10% depending on the model.

NOTE: Maximum spring length is 1.2". At maximum length reduced torque will be:

<u>Rated Torque</u>	<u>Reduced Torque</u>
1.5 lb. ft.	1.0 lb. ft.
3 lb. ft.	2 lb. ft.
6 lb. ft.	4 lb. ft.
10 lb. ft.	7 lb. ft.
15 lb. ft.	10 lb. ft.
20 lb. ft.	13 lb. ft.

3. Replace cover, sealing washers and cover screws. Tighten to 5 lb. ft. torque.

SPRING LENGTH
1" FOR ALL MODELS

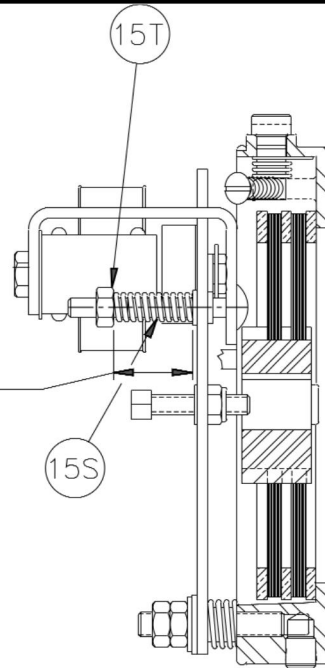
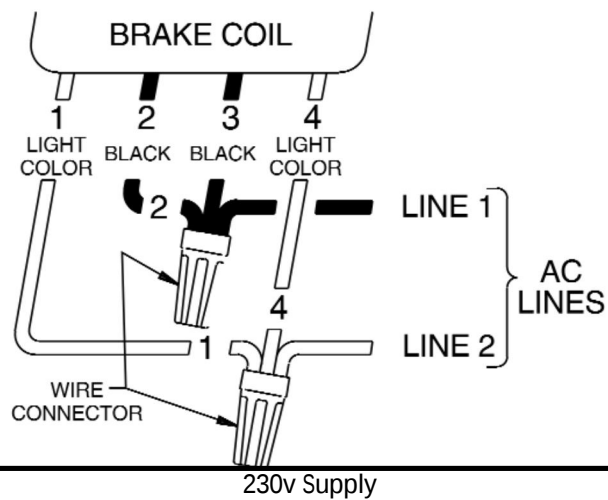


Figure 2

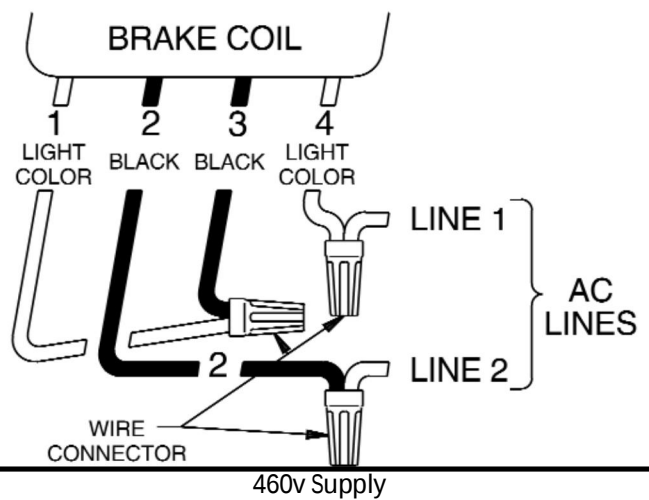
Torque Rating	Spring Color
1.5 lb. ft.	Blue
3 & 6 lb. ft.	Silver
10 & 15 lb. ft.	Bronze
20 lb. ft.	Green

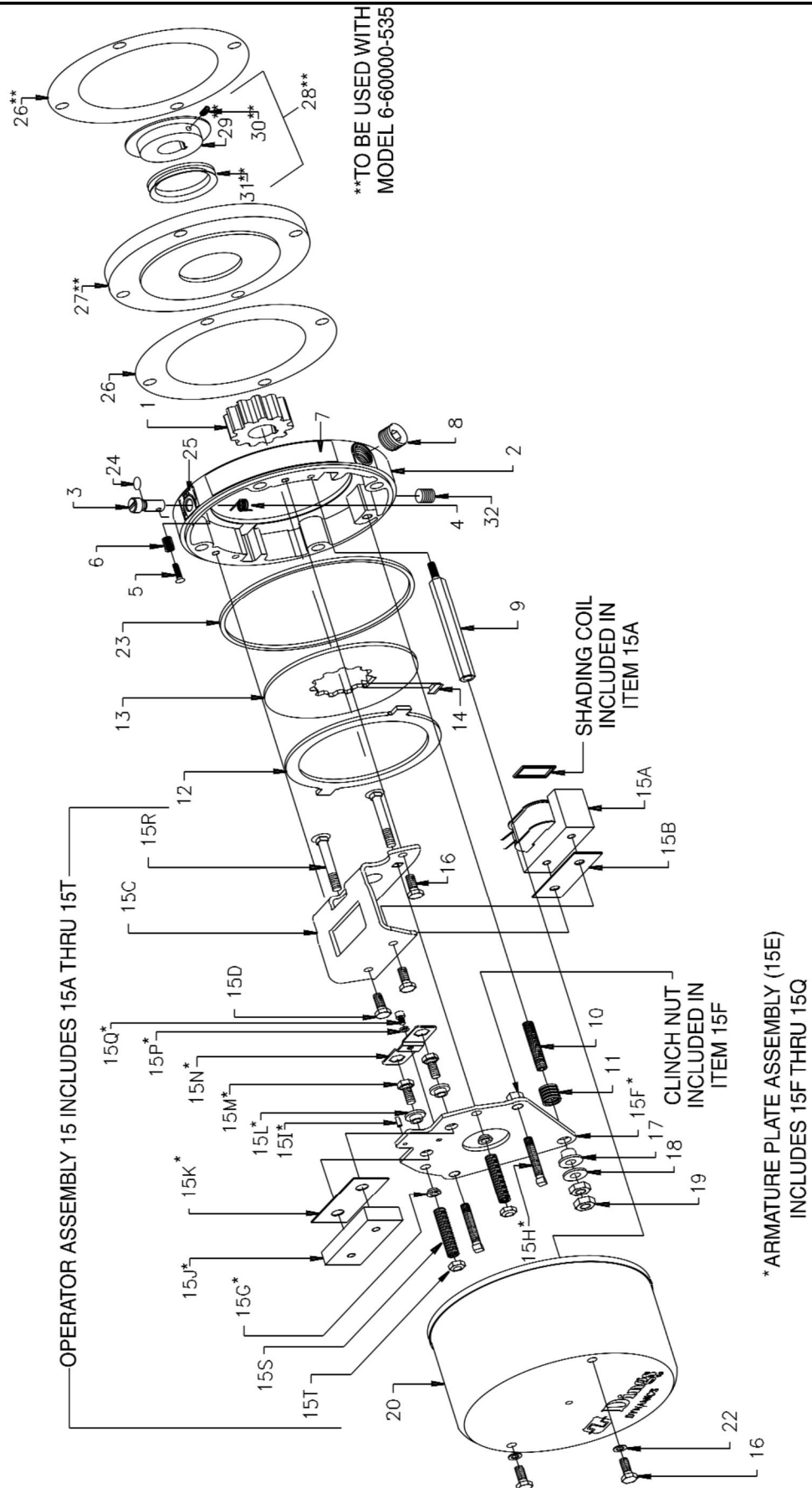
Wiring Diagrams

LOW VOLTAGE CONNECTION



HIGH VOLTAGE CONNECTION







If you have any questions please contact Rytec Customer Support at 1-800-628-1909.