**S³ Winder™ Assembly Instructions**

**KIT CONTENTS**
- 3/8” Medium Duty Drill
- Socket Wrench Kit
- Socket Drill Adapter
- Open End Wrench - 7/16”
- Vice Grip Locking Pliers
- Step Ladder
- 3/16” Dia Drill Bit
- Tape Measure
- Marker
- Gloves
- Safety Glasses/Goggles

The presence of this symbol means WARNING or CAUTION. Serious Injury, Death and / or property damage may occur unless instructions are followed carefully.

**TOOLS NEEDED**

**BEFORE GETTING STARTED**
Please read and understand these instructions completely before proceeding with the installation of the S³ Winder™. Carefully follow these instructions to avoid personal injury or property damage.

Use these instructions for the S³ Winder™ only. The S³ Winder™ is intended to replace the standard spring anchor. (NOTE: If you are using a standard center spring anchor with torsion springs or you are installing an extension spring counterbalance system see the standard garage door installation instruction manual that came with your manufacturer’s door.)

THE S³ Winder™ IS DESIGNED FOR 3-3/8” OFFSET BEARING PLATES (see diagram to the right).

**NOTE:** ALL REFERENCES TO LEFT AND RIGHT ARE MADE ASSUMING A POSITION INSIDE THE GARAGE AND LOOKING OUT.

**BEFORE INSTALLING**

BE SURE THAT THE S³ WINDER™ IS LAGGED INTO STRUCTURALLY SOUND FRAMING MEMBERS & NOT THROUGH WALL BOARD / DRYWALL ONLY!

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**STEP 1**
Mark a Level Line on Header 3-3/4” Below the Centerline of the End Bearing Plates.

**STEP 2**
BE SURE THAT THE S³ WINDER™ IS LAGGED INTO STRUCTURALLY SOUND FRAMING MEMBERS & NOT THROUGH WALL BOARD / DRYWALL ONLY!

INSTALL SPRINGS, BEARING & DRUMS ON THE TORSION TUBE & THRU THE S³ Winder™
2” OD / 1” ID BEARING OR PLASTIC BUSHING
3/8” x 3/4” lg RED HEAD BOLT (4)
LH SPRING ASSEMBLY (RED CONE)
LH DRUM (RED)
LH BEARING PLATE
SINGLE SPRING INSTALLATION - MAY REQUIRE 2 PEOPLE

**STEP 3**

INSTALL SPRINGS, BEARING & DRUMS ON THE TORSION TUBE & THRU THE S³ Winder™
2” OD / 1” ID BEARING OR PLASTIC BUSHING
3/8” x 3/4” lg RED HEAD BOLT (4)
LH SPRING ASSEMBLY (RED CONE)
LH DRUM (RED)
LH BEARING PLATE
DOUBLE SPRING INSTALLATION - MAY REQUIRE 2 PEOPLE

**STEP 4**
ATTACH SPRINGS TO S³ WINDER™
FULLY TIGHTEN RED HEADED BOLTS INCLUDED WITH THE S³ WINDER™

**STEP 5**
ATTACH CABLES TO DRUMS, TAKE UP CABLE SLACK, TIGHTEN SET SCREWS ON DRUMS.

**STEP 6**

LOCK PLIERS TIGHT AGAINST WALL
TAKE UP TENSION IN CABLES WHILE LOCKING PLIERS TIGHT AGAINST WALL
LOCK TORSION TUBE WITH LOCKING PLIERS

**STEP 7a**

AMOUNT TO STRETCH SPRINGS
7’ High Doors = Measured Length of 8 coils + 1/4”
8’ High Doors = Measured Length of 9 coils + 1/4”

**IMPORTANT NOTE**

3-3/8” RESIDENTIAL END BEARING PLATE
BE SURE YOU HAVE 3-3/8” OFFSET END BEARING PLATES WITH YOUR GARAGE DOOR.

**SAFETY ITEMS**

ALWAYS WEAR SAFETY GLASSES OR GOGGLES AND GLOVES WHEN INSTALLING THE S³ WINDER™.

ANY FASTENER THAT IS PAINTED RED INDICATES THAT IT IS UNDER EXTREME TENSION. TENSION MUST BE REMOVED BEFORE ADJUSTING THE FASTENER.
**STEP 8**

**WIND SPRINGS**

Mark cone & S3 Winder™ bracket with a marker to aid in the counting of the number of revolutions of the spring.

Using a commercial quality cordless or corded drill with a 7/16” socket, set to low range (high torque) speed setting; wind the S3 Winder™ in a counterclockwise direction to the number of turns needed to balance the door per the garage door instructions.

Counter clockwise = wind

Clockwise = unwind

Do not rest hands or any part of your body on the spring or the S3 Winder™ while winding or unwinding the springs.

*Only wind or unwind springs when the door is completely closed.*

**STEP 9**

CHECK DOOR BALANCE

Remove locking pliers

After winding springs check the door's balance and either add or subtract tension as needed to achieve sufficient balance.

- To add more tension to the spring(s), set the drill to turn counterclockwise and wind.
- To remove tension from the spring(s), set the drill to turn clockwise and unwind.

**STEP 10**

INSTALL LOCKING BOLT

Once the door is sufficiently balanced, install a red headed bolt to lock the S3 Winder™ in position. There are four locking points spaced at 90° apart from one another. It may be necessary to align one of the four threaded holes with the locking slot.

**SPECIAL NOTICE**

- Always remove the lock bolt prior to winding or unwinding the S3 Winder™. If the bolt is not removed the S3 Winder™ will be permanently damaged. A replacement S3 Winder™ will then be required to be installed.

- The S3 Winder™ is designed for 3 complete wind / unwind cycles of new springs. After 3 uses it is recommended to replace the S3 Winder™ with a new unit.

- The S3 Winder™ works on 12” & 15” radius track. It is not designed for use on low headroom doors.

- Garage doors springs are under extreme tension and can cause serious injury or death. To avoid serious injury or death, do not remove any screws or fasteners in the assembly, or the structural member to which the S3 Winder™ is attached to while the spring is under tension.

These instructions are to be used as a supplement to the standard garage door installation instruction manual that came with your garage door.

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