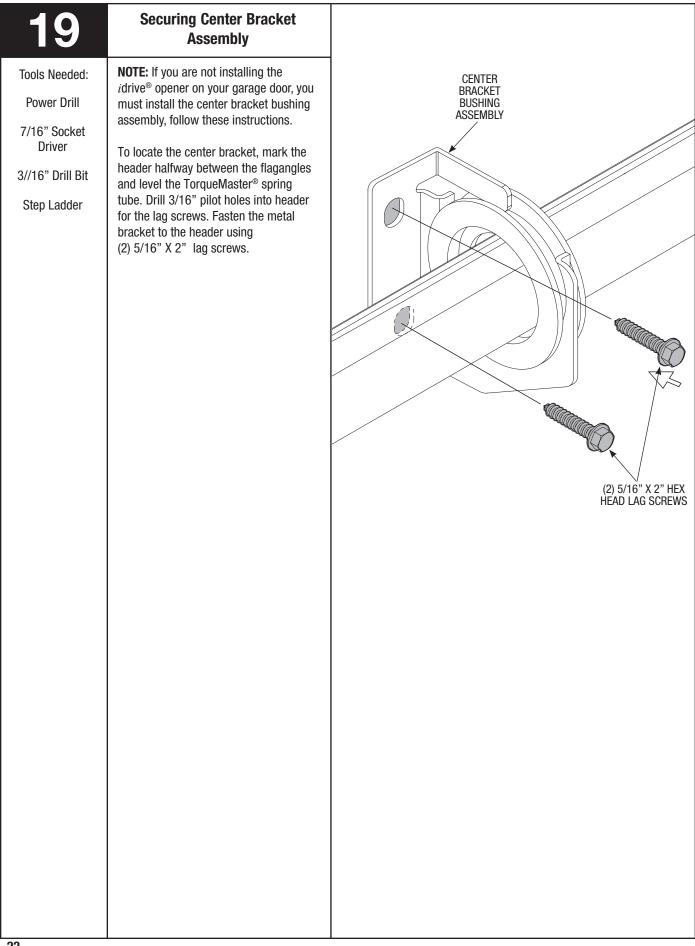
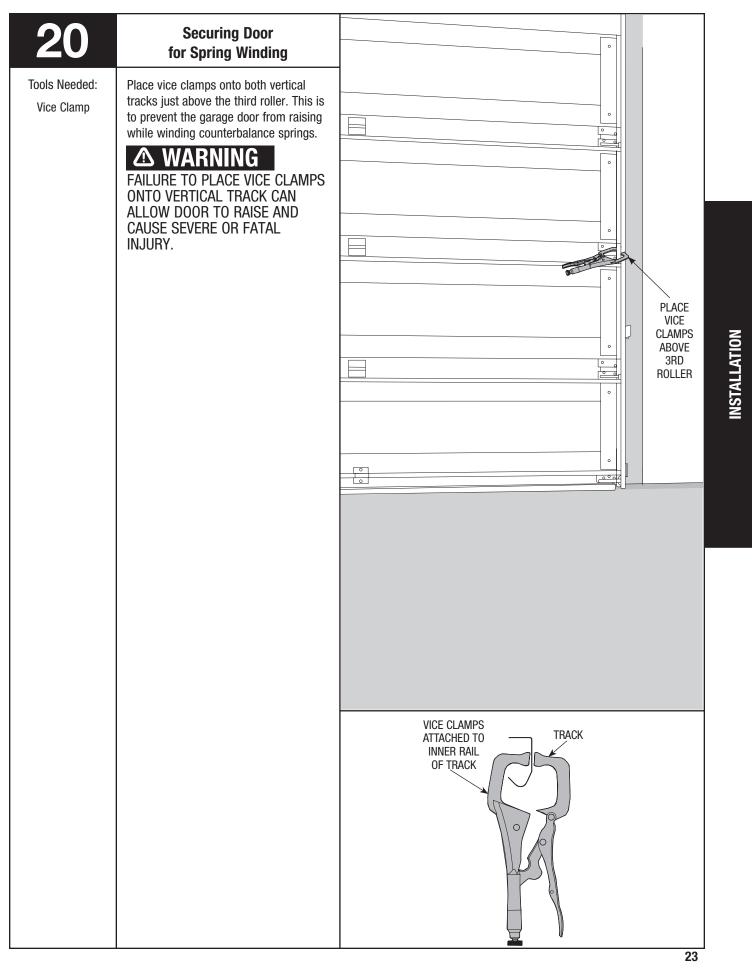
18	End Brackets	SPLINES GROOVE
Tools Needed: Power Drill	<b>IMPORTANT:</b> WARNING TAGS MUST BE Securely attached to both end Brackets.	DISCONNECT CABLE GUIDE HOLE
	SECURELY ATTACHED TO BOTH END	CABLE GUIDE
		21

INSTALLATION



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21	Cable Adjustment	1/2 WRAP SHOWN FIRST GROOVE
Tools Needed: Pliers Flat Tip Screwdriver Step Ladder	Starting on the right hand side, rotate the cable drum until the set screw faces directly away from the header. Torque tube cam peak should be pointing straight up. Loosen the set screw no more than 1/2 turn. Using locking pliers, pull on the end of the cable to remove all cable slack. IMPORTANT: A MINIMUM OF A 1/2 WRAP IS REQUIRED FOR PROPER DOOR OPERATION. CABLE MUST BE TAUT AND IN THE SPIRAL, OR THREAD, OF THE CABLE DRUM. Check to ensure the cable is aligned and seated in the first groove of the cable drum. Snug the set screw, and then tighten an additional 1-1/2 turns. Left side will be adjusted in Step 23. IMPORTANT: ENSURE THE CABLE IS ALIGNED AND SEATED IN THE FIRST GROOVE OF THE CABLE DRUM PRIOR TO WINDING SPRINGS. Measure approximately 6" of cable and cut off excess cable. Insert end of cable in hole of cable drum. NOTE: Illustrations show the right hand TorqueMaster <sup>®</sup> Plus drum, left hand TorqueMaster <sup>®</sup> Plus drum is symmetrically opposite.	CAM PEAK SET SCREW RIGHT HAND DRUM L1/2 WRAP SHOWN GROOVE CAM PEAK SET SCREW RIGHT HAND DRUM CABLE DRUM HOLE 0000 CABLE HERE 0000 CABLE HERE 00000 CABLE HERE 00000 CABLE HERE 00000 CABLE HERE 00000 CABLE HERE 00000 CABLE HERE 00000 CABLE HERE 000000 CABLE HERE 000000 CABLE HERE 000000000 CABLE HERE 00000000000000000000000000000000000

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<b>99</b>	Winding Springs		RECOMMENDED	SPRING TURN	S			
22	tinung opiniga	Door Height	Spring Turns	Door Height	Spring Turns			
Tools Needed:		6'-0"	14	7'-0"	16			
Ratchet Wrench		6'-3"	14-1/2	7'-3"	16-1/2			
	IT IS RECOMMENDED THAT LEATHER GLOVES BE WORN WHILE WINDING	6'-5"	15	7'-6"	17			
5/8" Socket	THE TORQUEMASTER® PLUS SPRINGS.	6'-6"	15	7'-9"	17-1/2			
3" Extension	FAILURE TO WEAR GLOVES MAY CAUSE INJURY TO HANDS.	6'-8"	15-1/2	8'-0"	18			
Gloves	Double check to ensure the counterbalance cable is aligned in the first groove of the cable drum as shown in Step 21.	6'-9"	15-1/2	Cow				
	Staring with the right hand side, place a mark on winding shaft (or socket) and end bracket. Turn the pawl knob on the end bracket to the upper position.	END BRACKET MARKS F/8" SOCKET						
	<b>IMPORTANT:</b> USING A RATCHET WITH A 16 MM (5/8") SOCKET (NOTE: A 76 MM (3") EXTENSION IS ALSO RECOMMENDED FOR ADDED CLEARANCE FROM THE HORIZONTAL ANGLE.), WIND THE SPRING BY ROTATING THE WINDING SHAFT <u>COUNTER CLOCKWISE</u> , WHILE WATCHING THE MARK ON THE WINDING SHAFT. DO NOT USE IMPACT GUN TO WIND SPRING(S).							
	<b>IMPORTANT:</b> PAWL KNOB MUST BE IN UPPER POSITION TO ADD/ REMOVE REQUIRED NUMBER OF SPRING TURNS. After 2-3 turns, remove the ratchet and adjust the cable on the left side. Ensure the cables are in the first groove and the cable drums, as shown in Step 21.	EXTENSION EXTENSION EXTENSION END BRACKET FIND BRACKET PAWL KNOB IN UPPER POSITION PRIOR TO WINDING OR MAKING ADJUSTMENTS TO THE SPRINGS, ENSURE YOU'RE WINDING IN THE PROPER DIRECTION AS STATED IN THE INSTAL LATION INSTRUCTIONS ON THE PINOTE THE						
	<b>NOTE:</b> Single spring applications require no spring winding of the left hand side but need cable tension adjustments.							
	<b>IMPORTANT:</b> COUNTERBALANCE CABLE TENSION MUST BE EQUAL ON BOTH SIDES PRIOR TO FULLY WINDING SPRINGS.							
	SEE THE SPRING TURN CHART FOR THE REQUIRED NUMBER OF TURNS: For single spring applications:							
	Return to the right hand and continue winding the spring to the required number of turns for your door. Place pawl knob in lower position.							
	For double spring applications: Place a mark on the winding shaft and end bracket. Place the ratchet with 5/8" socket onto the left hand winding shaft end. To wind the spring, rotate the winding shaft <u>clockwise</u> , while watching the mark on the winding shaft.							
	Rotate the winding shaft to the required number of turns for your door. Then return to the right hand side and wind the right hand spring to the required number of turns. Place pawl knob in lower position on both sides.	INSTALLATION INSTRUCTIONS. OTHERWISE, THE SPRING FITTINGS MAY RELEASE FROM SPRING IF NOT WOUND IN THE PROPER DIRECTION AND COULD RESULT IN SEVERE OR FATAL INJURY.						

