



**NOTE:** FOR PROPER OPERATION, THE "S" HOOK MUST BE INSTALLED AS SHOWN TO PREVENT IT FROM WORKING ITS WAY LOOSE AND ALSO TO MAINTAIN SHUTTER BLADE CLEARANCE.

**ASSEMBLY INSTRUCTIONS**

1. IN ORDER TO MOTORIZED THE SHUTTER, TWO (2) HOLES NEED TO BE DRILLED IN THE CENTER FLANGE. POSITION THE SHUTTER MOTOR AND BRACKET ON THE SHUTTER FRAME SO THAT THE MOTOR ARM IS AS CLOSE TO THE CENTER OF THE SHUTTER AS POSSIBLE. THE BOTTOM EDGE OF THE MOTOR BRACKET SHOULD SIT ON THE INSIDE EDGE OF THE SHUTTER FRAME. MATCH, MARK AND DRILL THE TWO (2) 3/16" DIAMETER HOLES USING THE MOTOR BRACKET AS A TEMPLATE. BOLT THE MOTOR BRACKET TO THE SHUTTER FRAME USING THE #10 BOLTS, FLAT WASHERS AND HEX NUTS SUPPLIED. TO AVOID SHUTTER BLADE INTERFERENCE, ATTACH THE HARDWARE WITH THE HEADS OF THE BOLTS ON THE INSIDE (SHUTTER SIDE) AND THE HEX NUTS ON THE OUTSIDE ( MOTOR BRACKET SIDE ).
2. PLACE A SMALL S-HOOK IN THE APPROPRIATE HOLE POSITION, LISTED IN THE TABLE A, ACCORDING TO THE SIZE OF THE SHUTTER. CAUTION: INSTALL "S" HOOK AS SHOWN IN THE DETAIL. MOVE THE CRANK ARM TO THE "UP" (VERTICAL) POSITION. WITH THE SHUTTER BLADES IN THE CLOSED POSITION, CUT THE CHAIN LINKAGE TO THE CORRECT LENGTHS AND ATTACH THEM TO THE S-HOOKS IN THE TIE BARS. DISCARD THE EXTRA CHAIN LINKAGE.
3. IN THE TOP FLANGE OF THE SHUTTER, DRILL TWO (2) 1/8" DIAMETER HOLES APPROXIMATELY 1" TO THE OUTSIDE OF THE TIE BARS. TO MOUNT THE RETURN SPRINGS, REMOVE THE SPRING CLAMPS ( U-SHAPED PIECES ) FROM THE SPRINGS. THEY WILL NOT BE USED. HOOK THE END OF EACH SPRING INTO THE DRILLED HOLES. CONNECT THE OTHER END OF THE SPRINGS TO THE APPROPRIATE HOLE POSITION, SHOWN IN THE "RETURN SPRING" COLUMN OF THE TABLE A (ACCORDING TO APPLICABLE SHUTTER SIZE). ADJUST THE TENSION OF THE SPRINGS TO HOLD THE SHUTTER BLADES CLOSED.
4. CHECK VOLTAGE AND PHASE ON THE MOTOR NAMEPLATE. CONNECT WIRING AND TEST SHUTTER OPERATION.

**TABLE A**

SHUTTER MODEL	HOLE IN TIEBAR ( DOWN FROM THE TOP)	
	"S" HOOK FOR CHAIN	RETURN SPRING
39	1	3
45	1	3
51	1	3
57	1	3
66	4	3
4515	1	3
4527	1	3
6024	1	3
6036	1	3

1	REVISED AND REDRAWN	MAD	7-01-13
NO.	REVISION	BY	DATE
MATERIAL		DO NOT SCALE THIS DRAWING	



**DESCRIPTION** ASSEMBLY INSTRUCTIONS FOR MOTORIZED OPERATION OF LRW 39, 45, 51, 57, 66, 4515, 4527, 6024 & 6036 SHUTTERS

DR. MAD	CK. _____	APP'D. _____
SCALE NTS	DWG. NO. 401-121	
DATE 07-01-13	SHEET 1 OF 1	