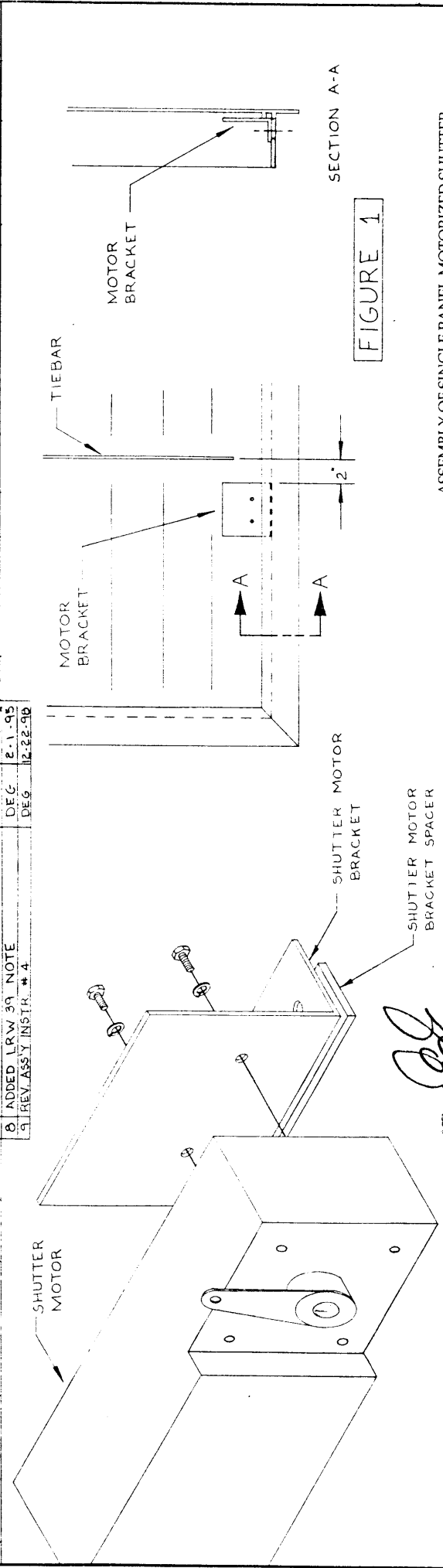


AF 8620	3	ADDED LRV 3	LEU	9-7-88	6	ADDED SHUTTER MOTOR BRACKET SPACE	SV ASSY	ITEM	DRWG/STOCK	PART	PART OR ASSY DESCRIPTION	MATE.	DWG	QTY
	4	REVISED FOR CRANK ARM FIG. 143, DESC.	DEG	3-27-89	7	ADDED LRV 39 TO FIGURE 3	DI	NO.	NUMBER	NO.			SIZE	PER
	5	REV. ASSY. INE	LEU	4-17-89	8	ADDED LRV 39 NOTE	DEG							UNIT
					9	REV. ASSY. INSTR. * 4	DEG							



ENGINEERING DEPARTMENT

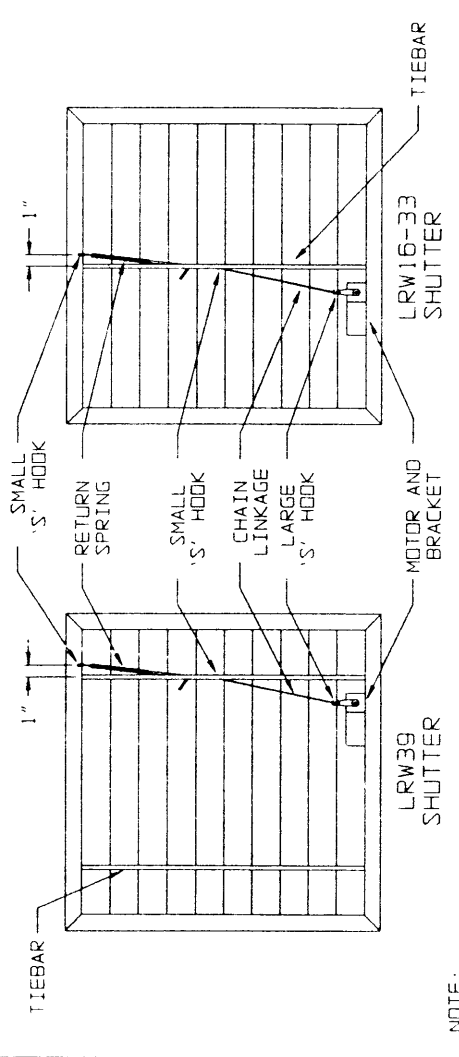
DEC 22 1998

RELEASED

ASSEMBLY OF SINGLE PANEL MOTORIZED SHUTTER
MODELS LRW 16, 21, 23, 27, 33 & 39

1. IN ORDER TO MOTORIZED THE SHUTTER, HOLES MUST BE DRILLED IN THE BOTTOM SHUTTER FRAME TO MOUNT THE SHUTTER MOTOR BRACKET. WORKING FROM THE BACK OF THE SHUTTER (TIE BAR SIDE), PLACE THE SHORT LEG OF THE BRACKET ON THE INSIDE BOTTOM EDGE OF THE SHUTTER FRAME, APPROXIMATELY 2" TO THE LEFT OF THE TIE BAR. ON THE DUAL TIE BAR LRW39, USE THE TIE BAR ON THE RIGHT SIDE ON THE SHUTTER. PUSH THE MOTOR BRACKET TO THE REAR OF THE SHUTTER SO THAT THE BOTTOM SHUTTER BLADE, WHEN OPEN, DOES NOT CONTACT THE BRACKET. USING THE MOTOR BRACKET AS A TEMPLATE, MATCH, MARK AND DRILL TWO (2) 3/16" DIAMETER HOLES IN THE BOTTOM SHUTTER FRAME. SEE FIGURE 1.
2. VERIFY THAT THE CRANK ARM IS MOUNTED ON THE MOTOR AS SHOWN IN FIGURE 2. IF NOT, THEN TURN CRANK ARM OVER TO MATCH FIGURE 2.
3. PLACE SHUTTER MOTOR BRACKET SPACER IN THE NOTCH ON THE INSIDE BOTTOM OF THE SHUTTER FRAME. MOUNT THE MOTOR BRACKET WITH THE MOTOR ATTACHED, TO THE SHUTTER BY BOLTING THROUGH THE SHUTTER MOTOR BRACKET. THE SHUTTER MOTOR BRACKET SPACER AND THE DRILLED HOLES IN THE SHUTTER FRAME USING THE TWO (2) #10 BOLTS, LOCK WASHERS AND HEX NUTS SUPPLIED.
4. PLACE A SMALL 'S' HOOK IN THE HOLE IN THE TIE BAR APPROXIMATELY HALF WAY UP THE TIE BAR. MOVE THE CRANK ARM TO THE "UP" POSITION, AS IN FIGURE 3 WITH THE SHUTTER BLADES IN THE CLOSED POSITION, CUT THE CHAIN LINKAGE TO THE CORRECT LENGTH AND ATTACH IT TO THE 'S' HOOK IN THE TIE BAR. DISCARD EXTRA CHAIN LINKAGE AND 'S' HOOKS.
5. TO MOUNT THE RETURN SPRING, DRILL A 1/8" DIAMETER HOLE APPROXIMATELY 1" TO THE RIGHT OF THE TIE BAR IN THE FLAT EDGE OF THE UPPER FRAME. CONNECT A SMALL 'S' HOOK TO THE END OF THE RETURN SPRING. ATTACH THIS HOOK TO THE DRILLED HOLE IN THE FRAME AND THEN CONNECT THE WIRE END OF THE RETURN SPRING TO AN UPPER HOLE IN THE TIE BAR. ADJUST THE TENSION OF THE SPRING TO HOLD THE SHUTTER BLADES CLOSED. THE SPRINGS SHOULD HAVE ONLY ENOUGH TENSION TO KEEP THE SHUTTER CLOSED.
6. CHECK VOLTAGE AND PHASE ON NAMEPLATE OF SHUTTER MOTOR. CONNECT WIRING AND TEST SHUTTER OPERATION.

FIGURE 1



NOTE: LRW39 IS CURRENTLY A DOUBLE PANEL SHUTTER. SEE DWG. 401-121

FIGURE 2

FIGURE 3

2	ADDED LRV 16, 21, 23 TO DESC.	MLM	11-18-85
1	REVISED FOR NEW MTR ARM	MLM	8-27-85
NO.	REVISION	BY	DATE
MATERIAL DO NOT SCALE THIS DRAWING			
DESCRIPTION			
ASSEMBLY INSTRUCTIONS FOR MOTORIZED OPERATION OF LRW 16, 21, 23, 27, 33 & 39 SHUTTERS			
DR. LEU	CK.	DWG. NO.	APPROV.
SCALE		401-130	
DATE		8-15-83	
			SHEET 1 OF 1



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