

# FILM-TECH

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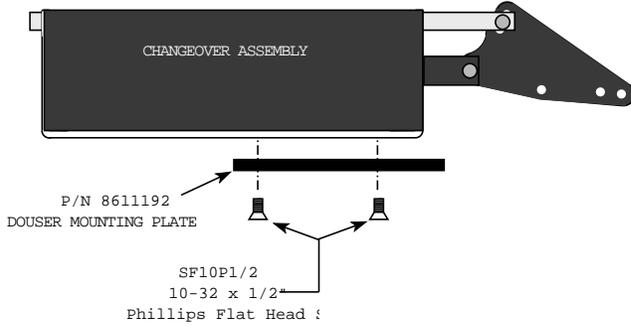


**KELMAR**

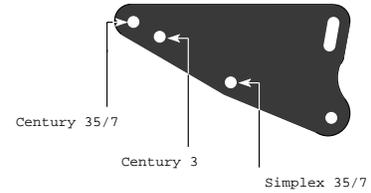
Systems Inc., 284 Broadway, Huntington Station, NY 11746 • 631.421.1230 • FAX 631.421.1274

**Electric Changeover Instructions**

**Basic Assembly Detail**

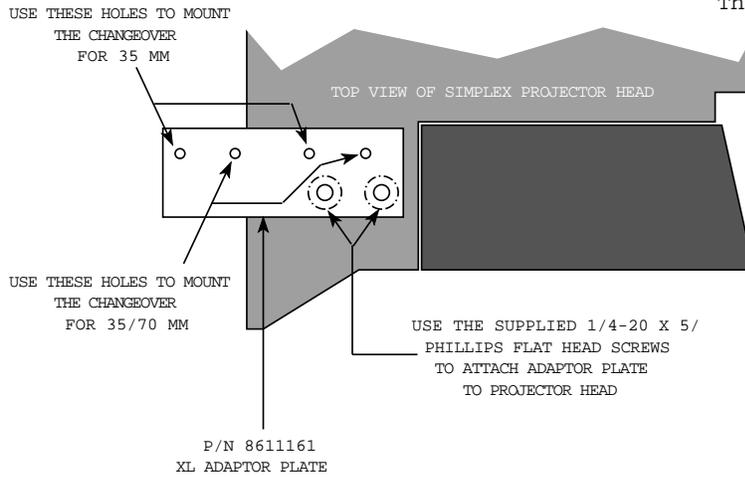


**Universal Bell Crank**



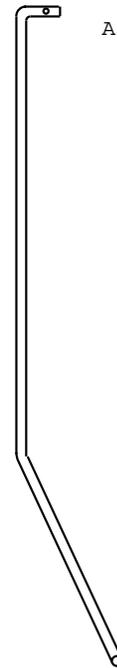
***Use appropriate holes as shown for proper clearance, geometry and douser travel***

**Mounting Details for ECS35/70**



**Orientation of XL Douser Link**

This End Attaches to Bell



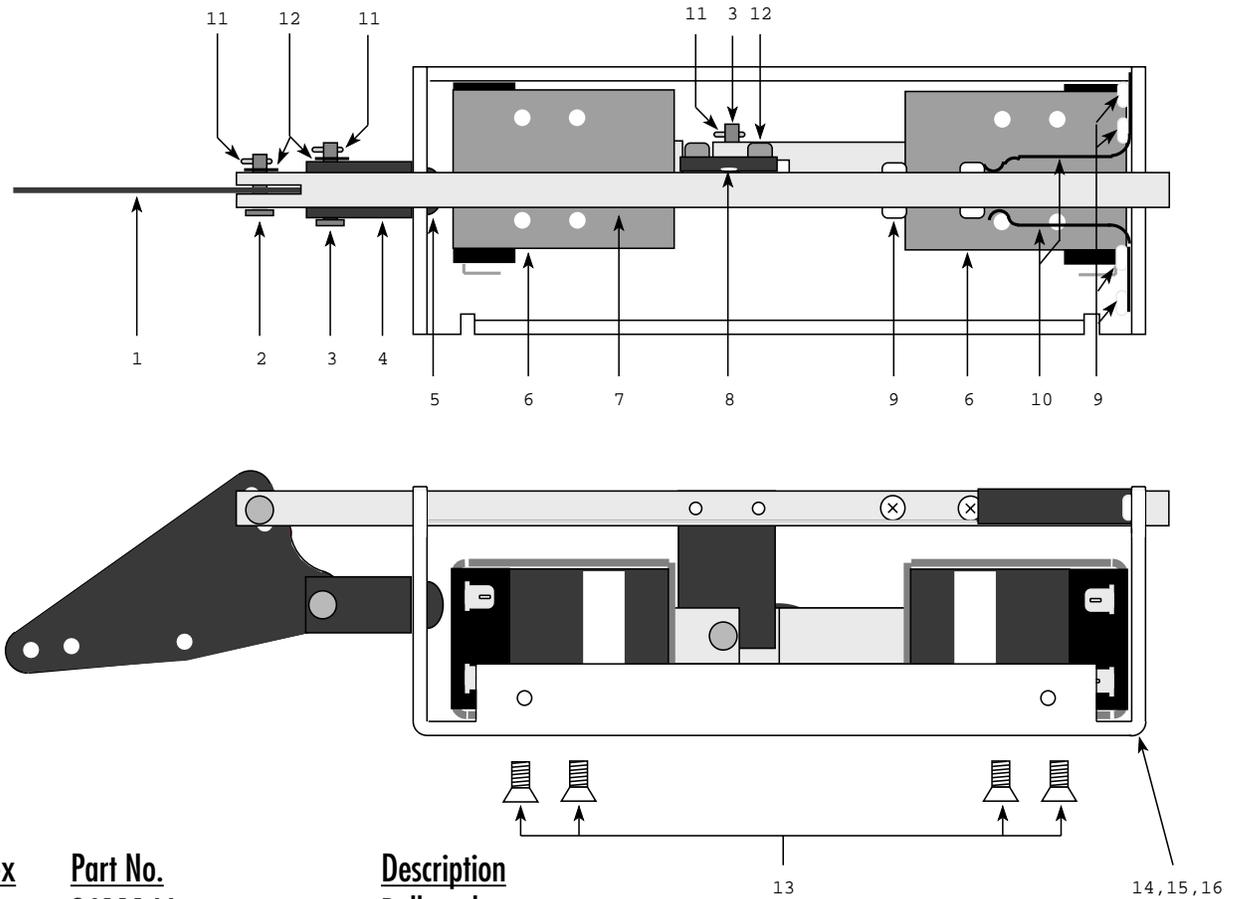
After Inserting into Bell  
Secure with  
#4 Washer and Cotter Pin

This End Attaches to Douser:

Remove the Old Connector from the Douser  
Then Insert this End and Secure with  
#4 Washer and Cotter Pin.

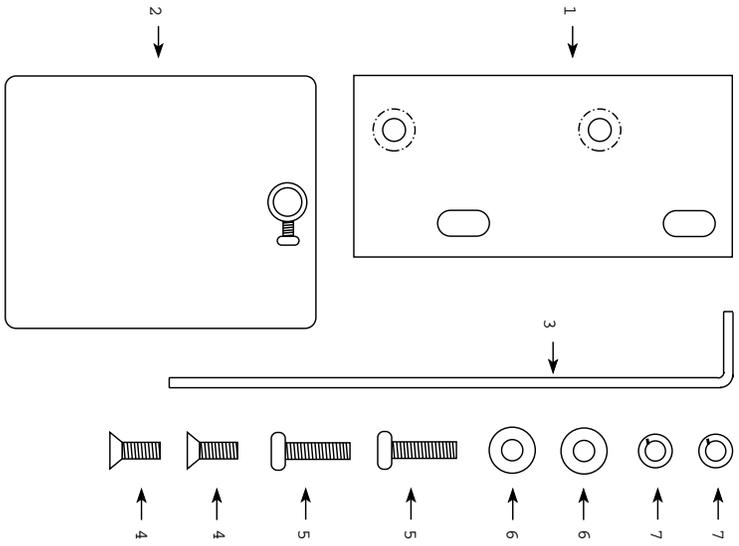
**Electrical Connections:**

- Green** - **Ground**
- White** - **Common**
- Black** - **Open**
- Red** - **Close**



<u>Index</u>	<u>Part No.</u>	<u>Description</u>
1	8611146	Bellcrank
2	MS-20392-1C-15	Clevis Pin, .125 Dia (E.L. =. 469)
3	MS-20392-1C-17	Clevis Pin, .125 Dia (E.L. =. 531)
4	8611145	Pivot, Bellcrank
5	SHBCS10x3/8	Screw, 10-32 x 3/8" Button Head Allen
6	S4-3008	Solenoid, Coil 120 VAC
	S4-3009	Solenoid, Coil 240 VAC
	S4-3016	Solenoid, Coil 24 VAC
7	8611144	Push Rod
8	8611147	Connector
9	SP4P1/8	Screw, 4-40 x .125 Phillips Pan Head
10	8611148	Spring
11	MS-24665-1010	Cotter Pin, .062 Dia
12	SHCS6x3/8	Screw, 6-32 x .375 Socket Head Cap
13	SP8F1/4	Screw, 8-32 x .250 Phillips Flat Head
14	8611190	Chassis
15	8611191	Cover
16	SP6P1/4	Screw, 6-32 x .250 Phillips Pan Head (4)

**ECC-35/SA & ECC-70 Hardware Kit**



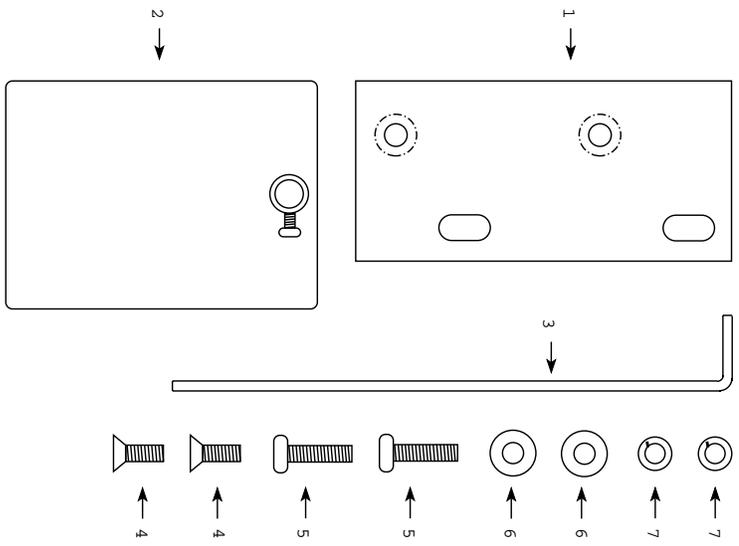
Index	Part No.	Description
1	8611192	Changeover Mounting Plate
2	8611193-1	Douser Plate Assembly 35 MM "SA"
	8611196	Douser Plate Assembly 70 MM "JJ"
3	8611154	Link for Douser Plate 35 MM "SA"
	8611165	Link for Douser Plate 70 MM "JJ"
4	SF10P1/2	Screw, 10-32 x 1/2" Phillips Flat Head
5	SP10P5/8	Screw, 10-32 x 5/8" Phillips Pan Head
6	WA10	Washer, #10 Flat
7	WAL10	Washer, #10 Split Lock

**Complete Kit**

Part No.	Description
8611141-1	ECC-35/SA Hardware Kit
8611143	ECC-70 Hardware Kit

Includes all of the listed parts

**ECC-35/C Hardware Kit**



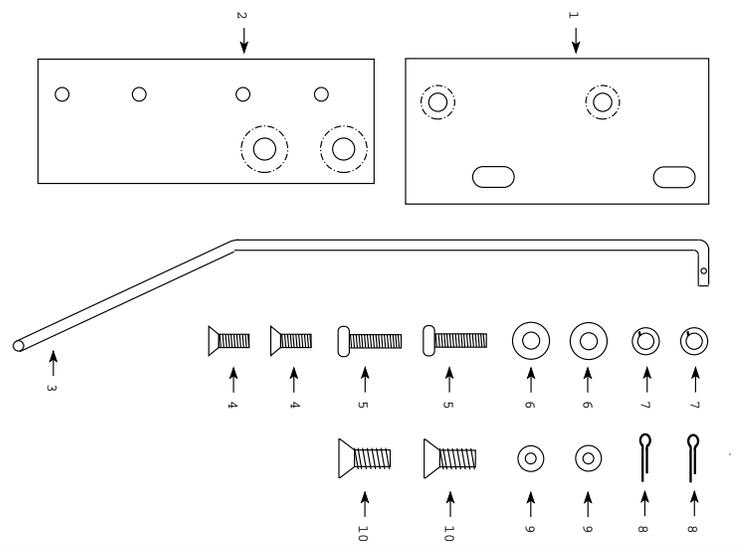
Index	Part No.	Description
1	8611192	Changeover Mounting Plate
2	8611193-2	Douser Plate Assembly 35 MM "C"
3	8611154	Link for Douser Plate 35 MM
4	SF10P1/2	Screw, 10-32 x 1/2" Phillips Flat Head
5	SP10P5/8	Screw, 10-32 x 5/8" Phillips Pan Head
6	WA10	Washer, #10 Flat
7	WAL10	Washer, #10 Split Lock

**Complete Kit**

Part No.	Description
8611141-2	ECC-35/C Hardware Kit

Includes all of the listed parts

**ECS-35/70 Hardware Kit**



Index	Part No.	Description
1	8611192	Changeover Mounting Plate
2	8611161	XL Adaptor Plate
3	8611164	Link for Douser Plate "XL"
4	SF10P1/2	Screw, 10-32 x 1/2" Phillips Flat Head
5	SP10P5/8	Screw, 10-32 x 5/8" Phillips Pan Head
6	WA10	Washer, #10 Flat
7	WAL10	Washer, #10 Split Lock
8	MS-2465-10	Cotter Pin
9	WA4	Washer, #4 Flat
10	SF25P5/8	Screw, 1/4-20 x 5/8" Phillips Flat Head

**Complete Kit**

Part No.	Description
8611142	ECS-35/70 Hardware Kit

Includes all of the listed parts