FORTIS
SECURITY PRODUCTS

750-TD

Transaction Drawer

Installation and Service Manual

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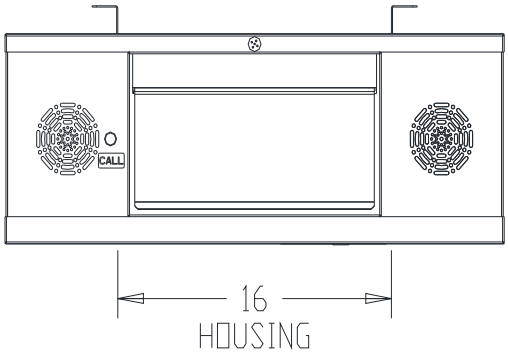
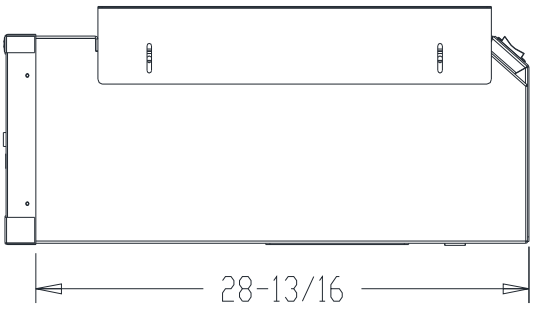
Specifications

Dimensional Specifications





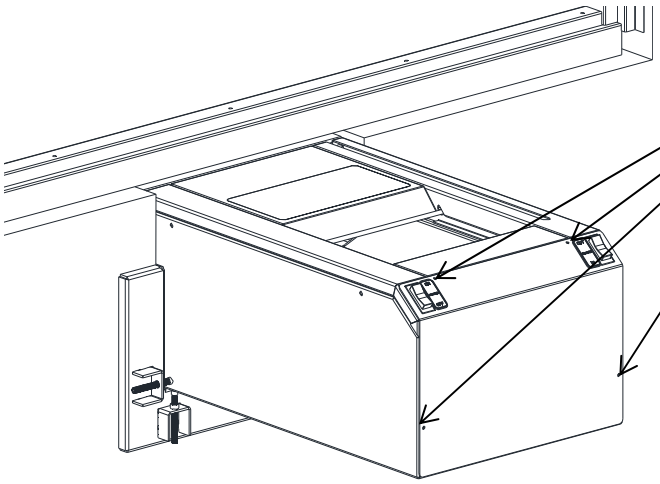
Electrical Specifications

120 volt 15 amp dedicated circuit.

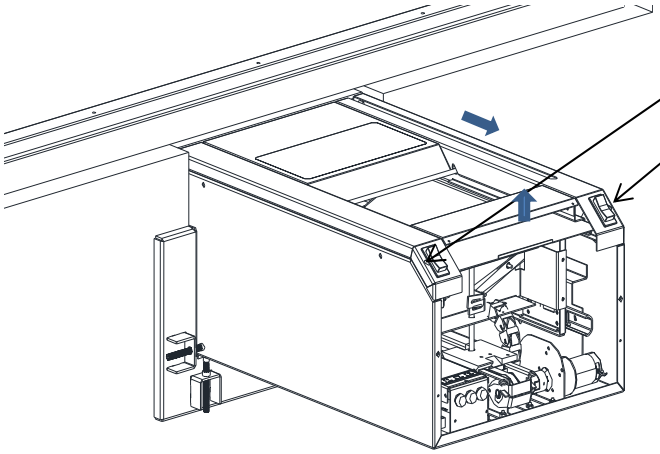
Audio

Microphone: 2K impedance condenser type
Speaker: 8Ω impedance, 4” square
Call Button: Normally open contact

Opening Drawer

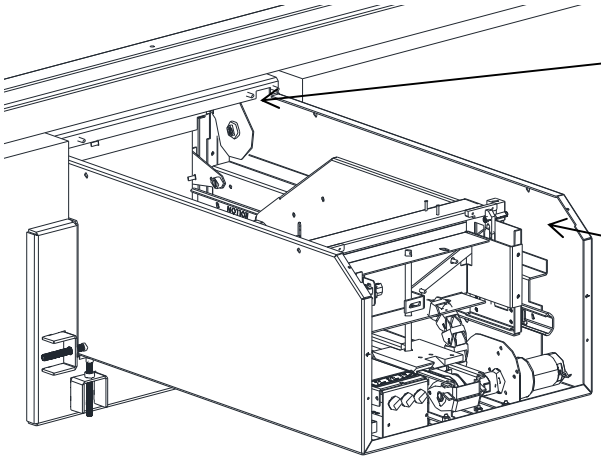


Remove back cover by removing 4 screws



Remove the top of the drawer by removing two hidden screws thru the holes located next to the in/out switch and the heater switch. Once these are removed unplug the wiring harness on the lower left side. Then tip the top up approx. ½" and slide the top toward you.

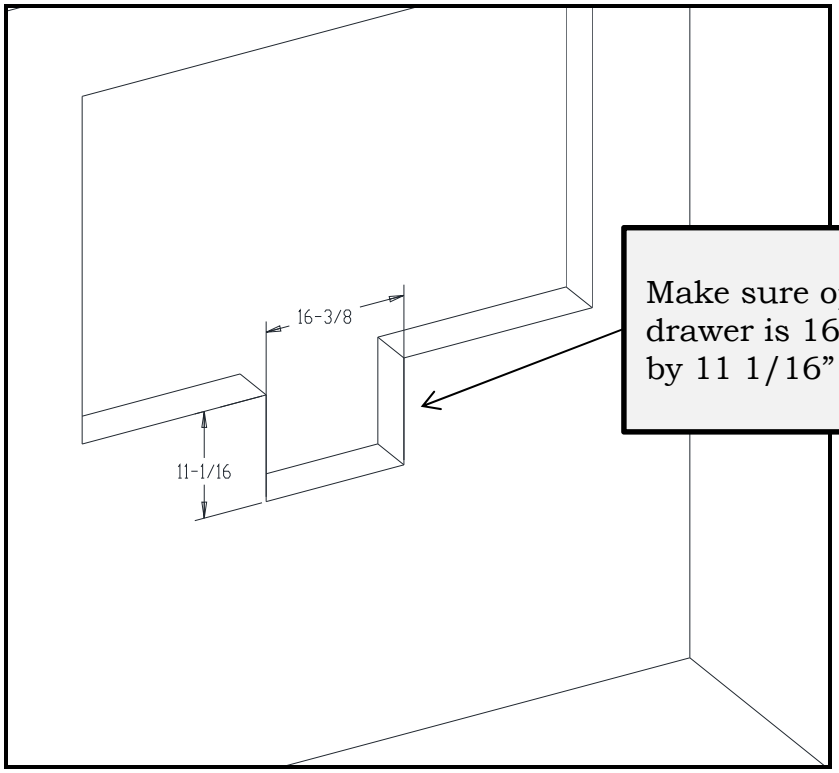
Note the studs that locate the far side of top.



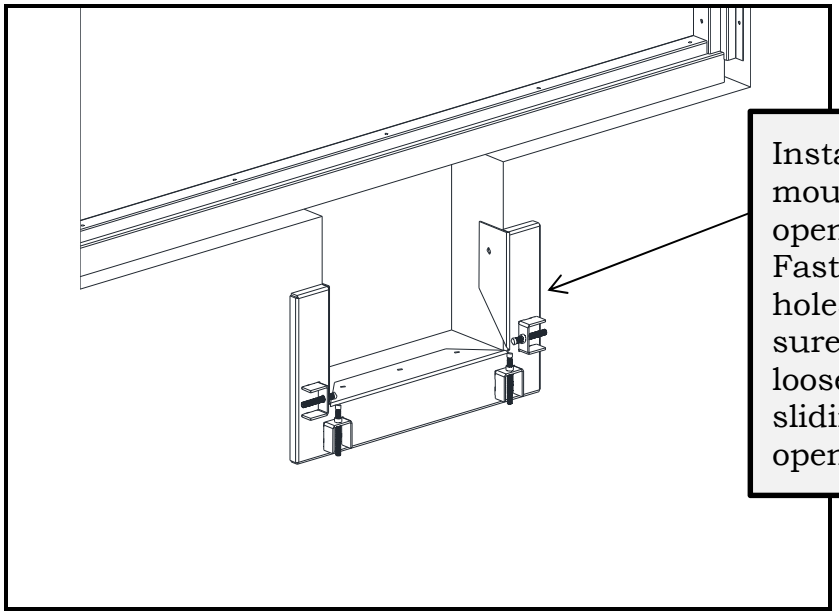
Once the top has been removed you will have easy access to all components inside drawer.

WHEN INSTALLING TOP MAKE SURE THAT YOU LINE UP THE SLIDING COVER WITH THE PINS ON THE BACK OF THE HOPPER

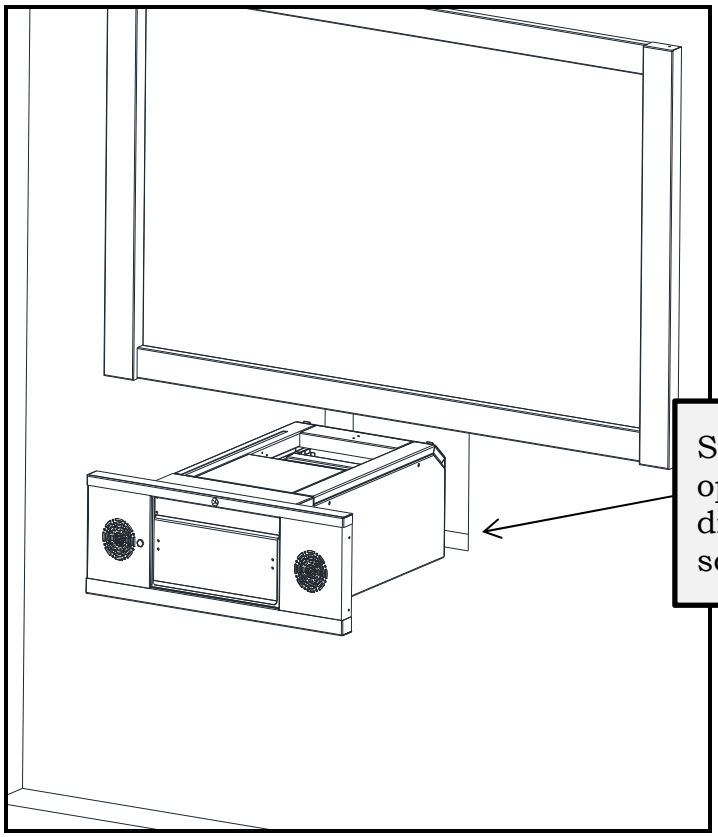
Installation Procedure



Make sure opening for drawer is 16 3/8” wide by 11 1/16” tall

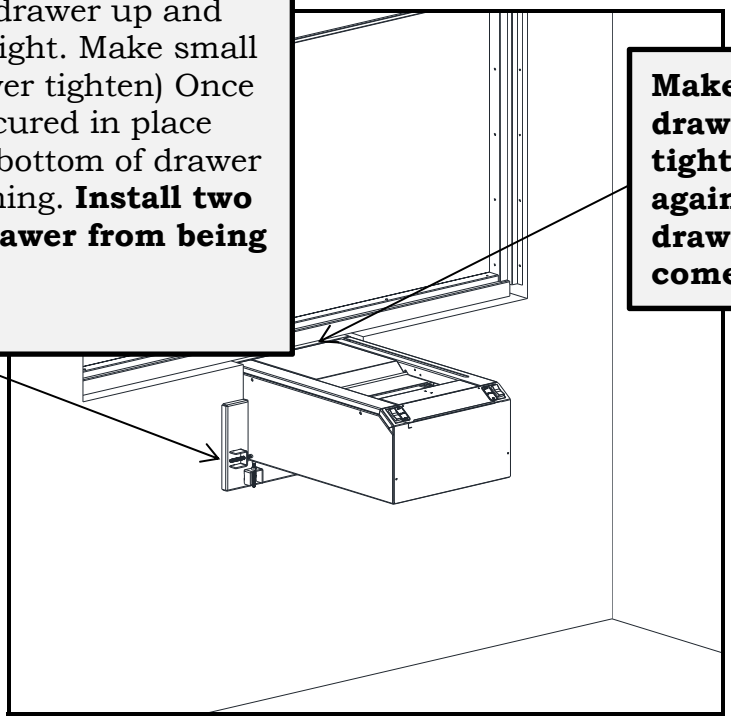


Install optional mounting bracket into opening as shown. Fasten in place using holes in flanges. Make sure clamp screws are loosen all the way before sliding drawer into opening.

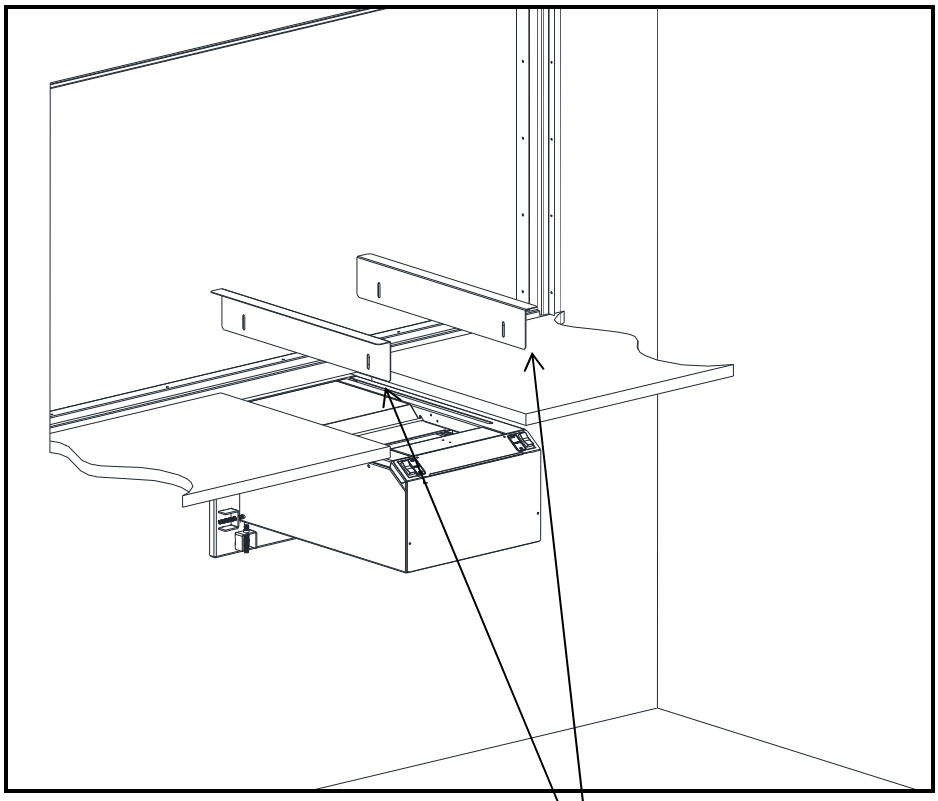


Slide drawer into opening. Be careful so drawer does not get scratched.

Clamps can adjust the drawer up and down as well as left to right. Make small adjustments. (Do not over tighten) Once you have the drawer secured in place drill two holes through bottom of drawer into bottom of wall opening. **Install two lag bolts to prevent drawer from being pulled out of opening**.

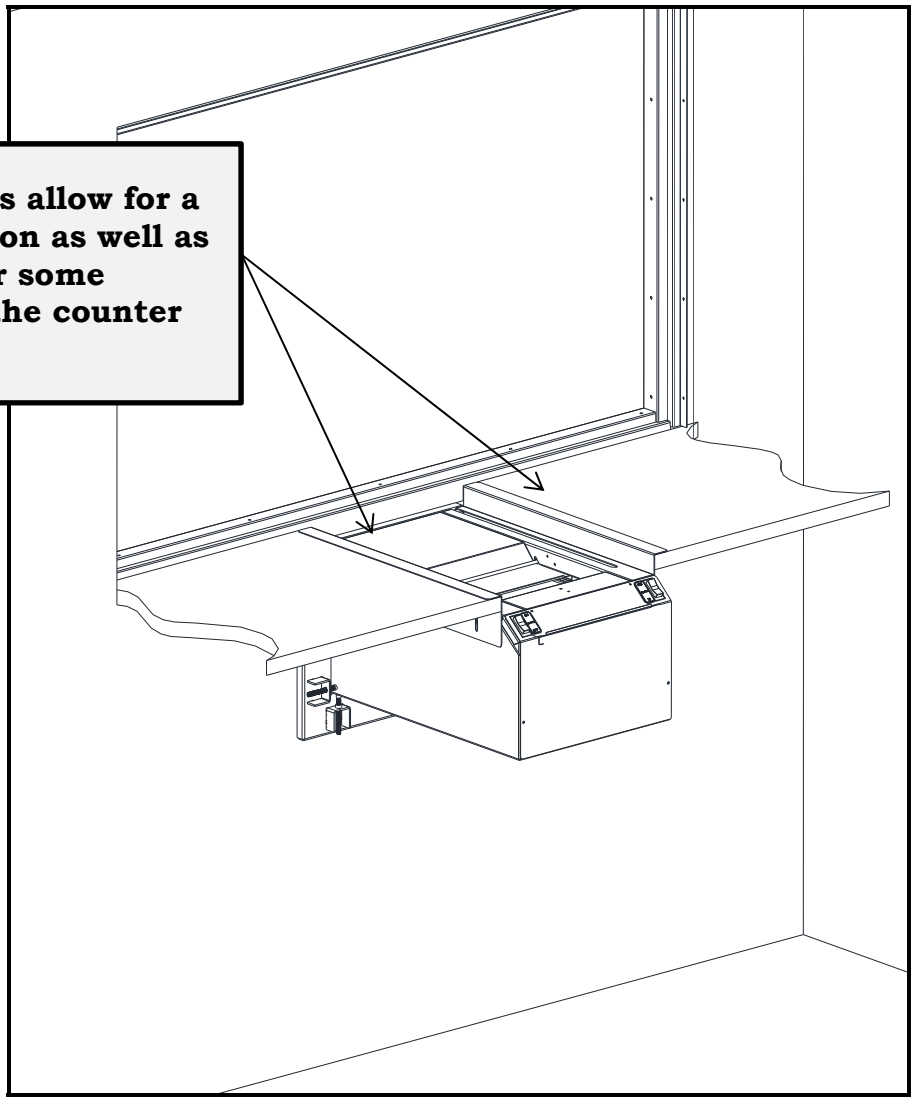


Make sure that the top of drawer can slide off. Do not tight the clamps so tight against the bottom of drawer that the top will not come off.



Counter tops should not run all the way up against the deal drawer sides. Hold counter tops approx. ¼” back on both sides of drawer. Install counter top trims angles. There are two slots in each angle that will line up with threaded holes in sides of drawer body. The angles should be installed so that they are all the way down against the top surface of the counter top (The slots allow for varying counter thicknesses). You can actually use these to help support the weight of the drawer.

Stainless angles allow for a clean installation as well as give the drawer some support off of the counter top



Care and Maintenance

New Installation

Fortis Security Products recommends leaving any protective film on the unit during installation to protect finished surfaces.

In the case of new construction, adding protective coverings while construction is underway is advised. Dust, fine debris, and chemicals used to clean concrete and masonry, can be harmful to the finish and interfere with equipment functionality.

Once installation, construction, and project cleanup are complete:

- Remove all surface dirt and dust using a soft cloth
- When cleaning painted or stainless surfaces always spray the rag with the cleaner and then wipe the surface. Never spray the surface. This will keep the cleaner from coming in contact with materials that could be harmed by cleaners.
- **Never use a hose or pressure washer to clean the equipment!**

Annual Maintenance

Fortis Security Products recommends cleaning and inspecting the equipment as required.

1- Guide rails should be greased every 6 months (use a white lithium grease)

2- **Do Not** spray cleaners on moving parts (such as sliding stainless covers or drive yoke mechanism). Wet rag with cleaner and wipe clean.

3- **Do Not** spray lubricants on any moving parts other than lubricating rails in step 1. Most moving or sliding components have UHMW applied to friction surfaces. The UHMW could come off if cleaners or lubricants are sprayed on them.

750-TD Operation

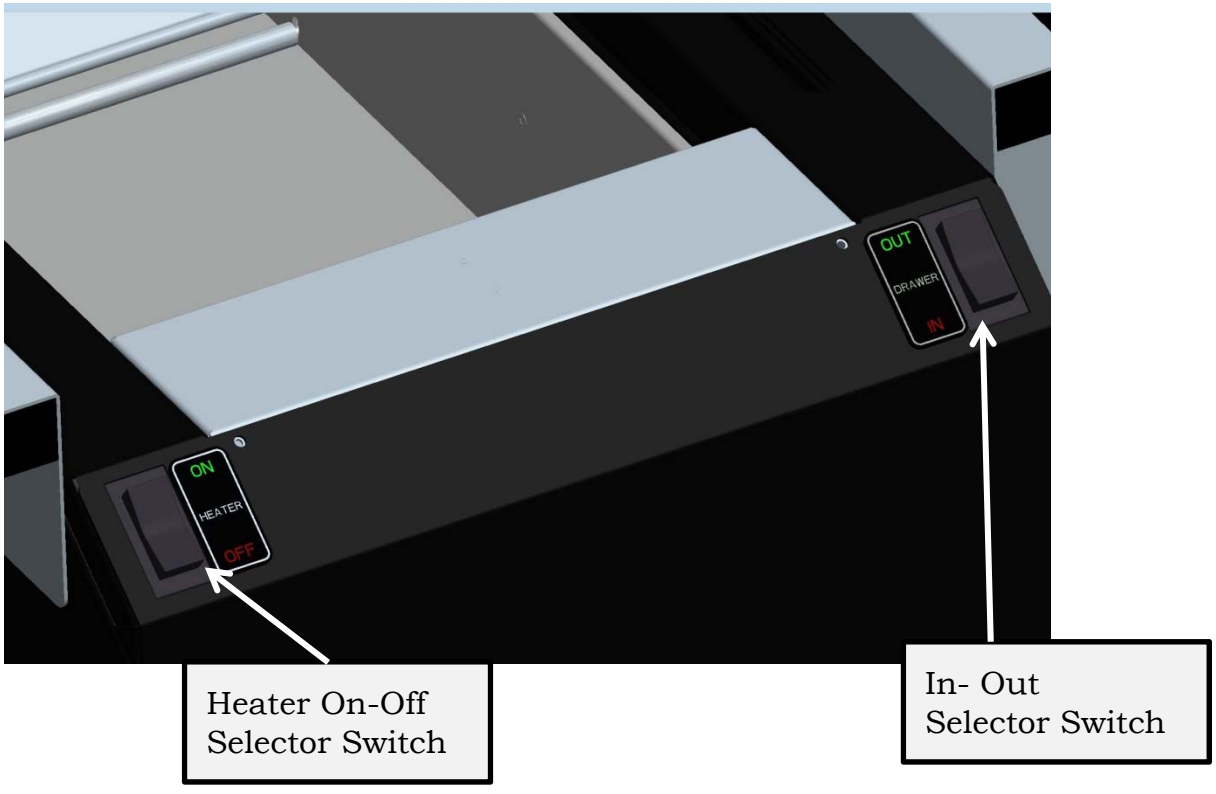
Teller Side

In-Out Switch

Controls which direction the hopper is sent. Depressing the switch to OUT extends the hopper out towards the customer. Depressing the switch to the IN position retracts the hopper back in towards the teller.

Heater Switch

Turns the **optional** heater on or off.



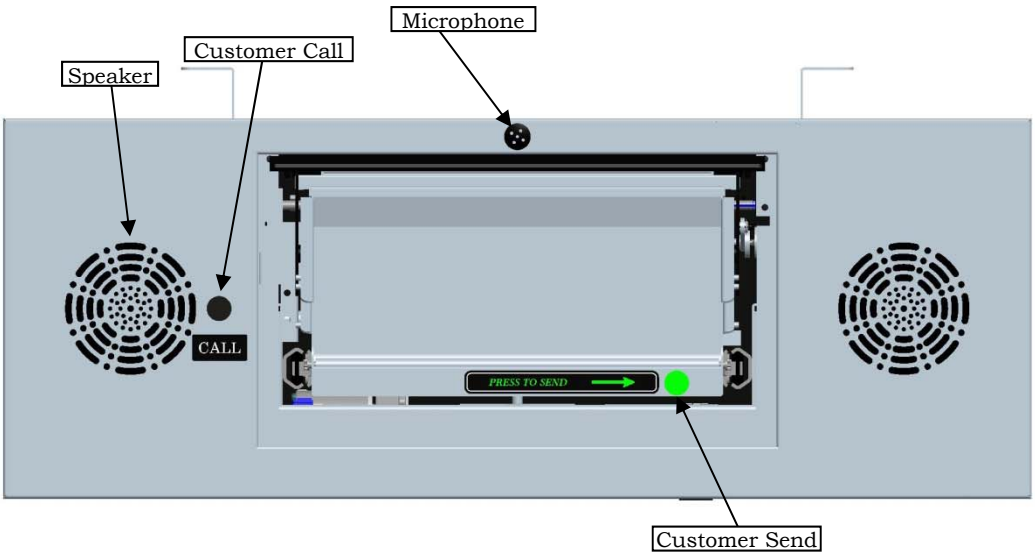
Customer Side

Customer Send

Depressing the customer send button will send the hopper back in towards the teller. The hopper will automatically return to the teller.

Customer Call

Activates the audio system.



System Operational Sequence

Teller Out

The cycle begins with the hopper located all the way in. Press and hold the In-Out switch in the OUT position. (If the safety bar is depressed during the send cycle the hopper will automatically return to the teller until it is released.) Once the teller opening is closed the outer door will open and the hopper will extend outward towards the customer.

Teller In/Customer Send

Two methods can be used to return the hopper to the teller. The customer can depress the send button (hopper will automatically return), or the teller can select “in” on the “In-Out” rocker switch. Either method can be used. The hopper will automatically return (closes the outer door, and opens the inner door before stopping in the “in” position.

Heater (Optional)

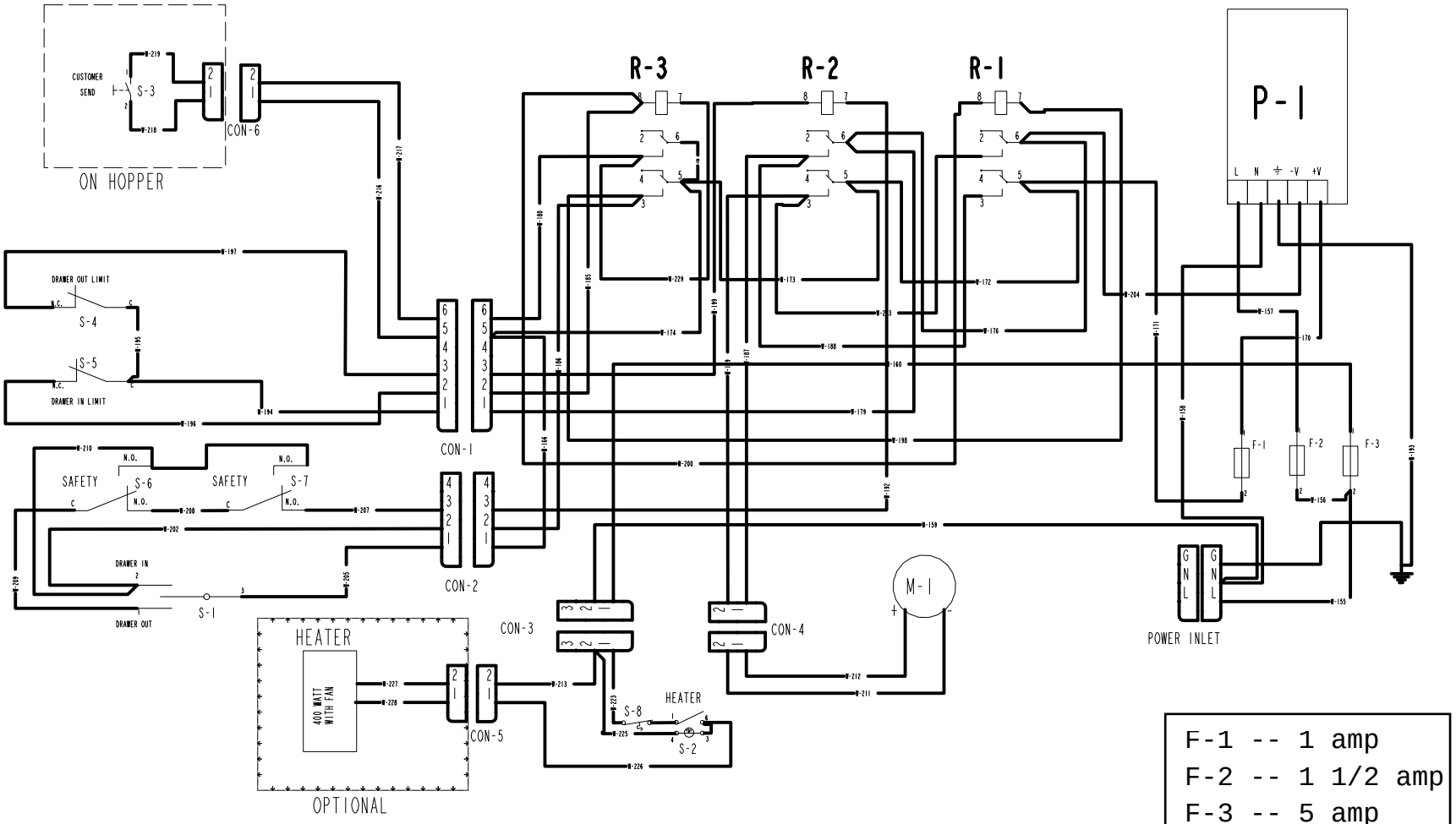
The heater switch will turn the heater on and off. There is an indicator on the switch that will illuminate when the heater is on. An internal thermostat will keep the drawer from getting to hot.

Troubleshooting and Repair

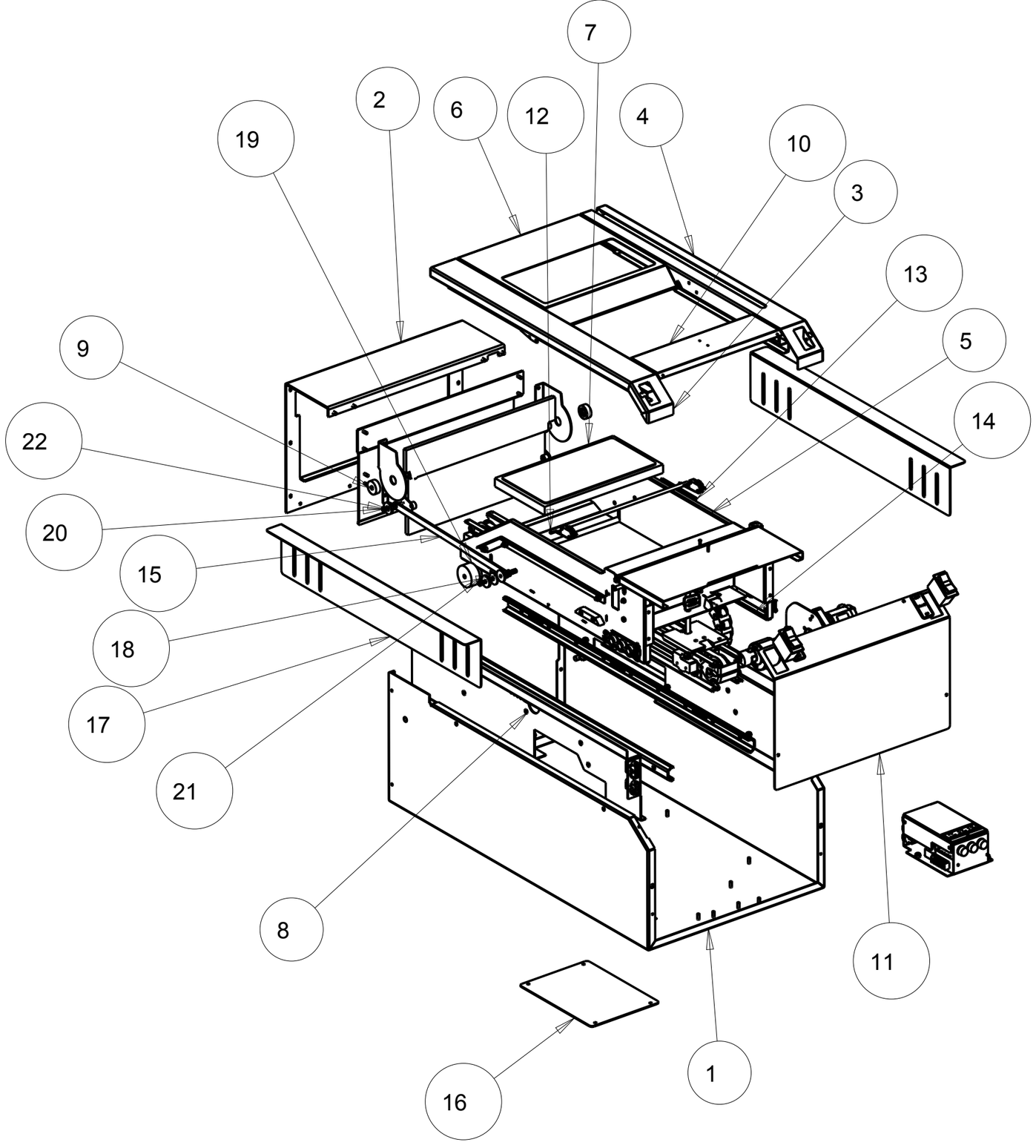
Problem	Possible cause	Correction
Hopper needs to travel farther		Adjust outbound limit switch toward customer. Max travel is 17 ¾" from outside wall.
When teller pushes the outbound switch the hopper starts out but stops and backs up	Safety switch is being activated	Clear obstruction
Hopper will not come in when customer pushes the customer send.	Make sure switch is working	Test Switch
Hopper goes out and will not stop unless you release switch	Outbound limit switch is defective or out of adjustment	Adjust or replace switch
Hopper comes in and will not stop unless you release switch	Inbound limit switch is defective or out of adjustment	Adjust or replace switch
Heater will not come on	Check to see if switch indicator is on.	*If indicator is on check power to heater assembly. If indicator is off check fuse as well as thermostat*
	Check thermostat located under the rear cross member	

Problem	Possible cause	Correction
Hopper will not move in either direction	Check to make sure drawer has power 120 volts	Tripped circuit breaker
	Check to make sure power supply power light is on.	Replace bad fuses
	Check fuses	Replace Fuse
	Motor is running but the slide yoke is not moving	Check for broken belt. Replace if necessary.

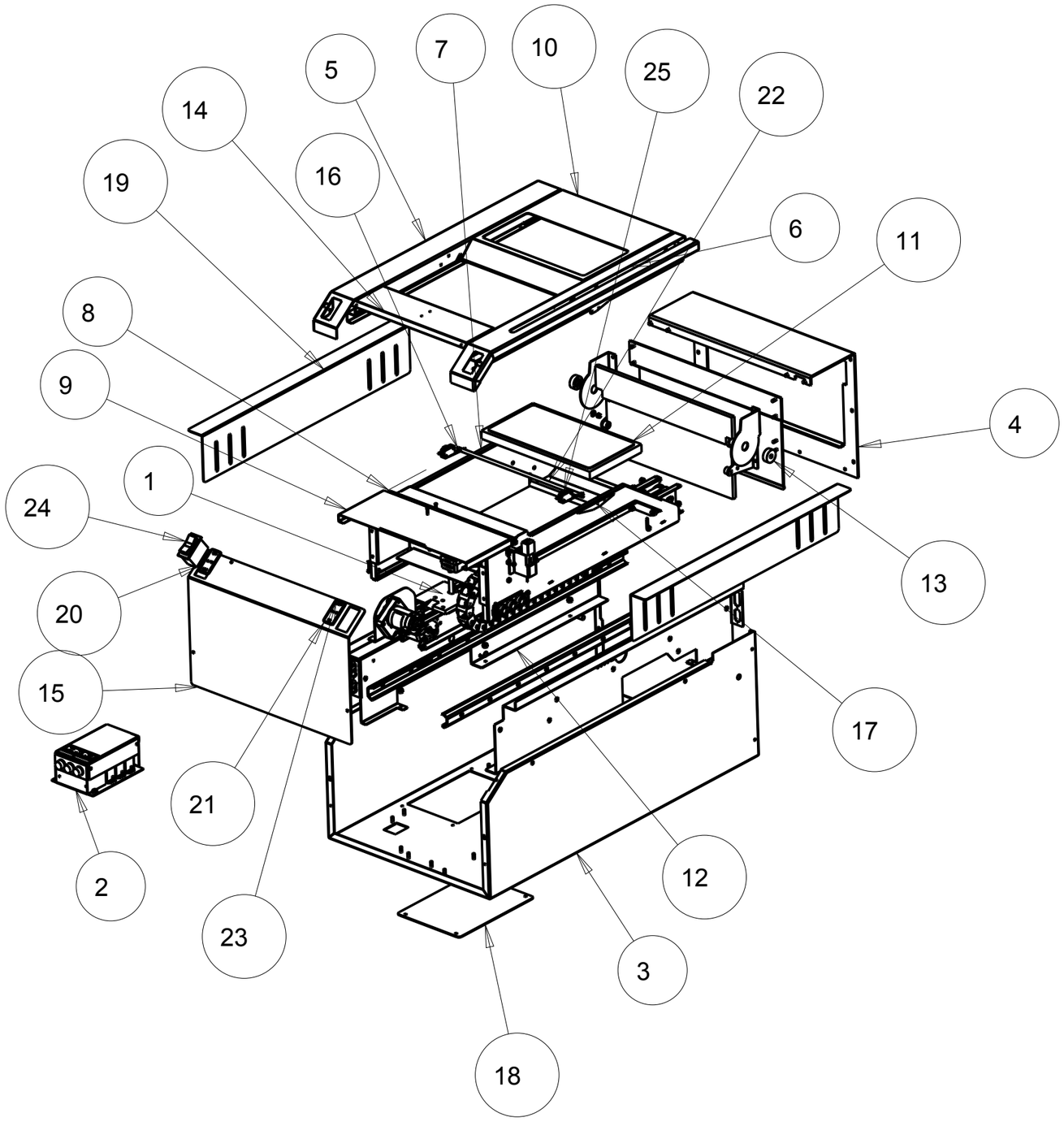
750-TD TRANSACTION DRAWER



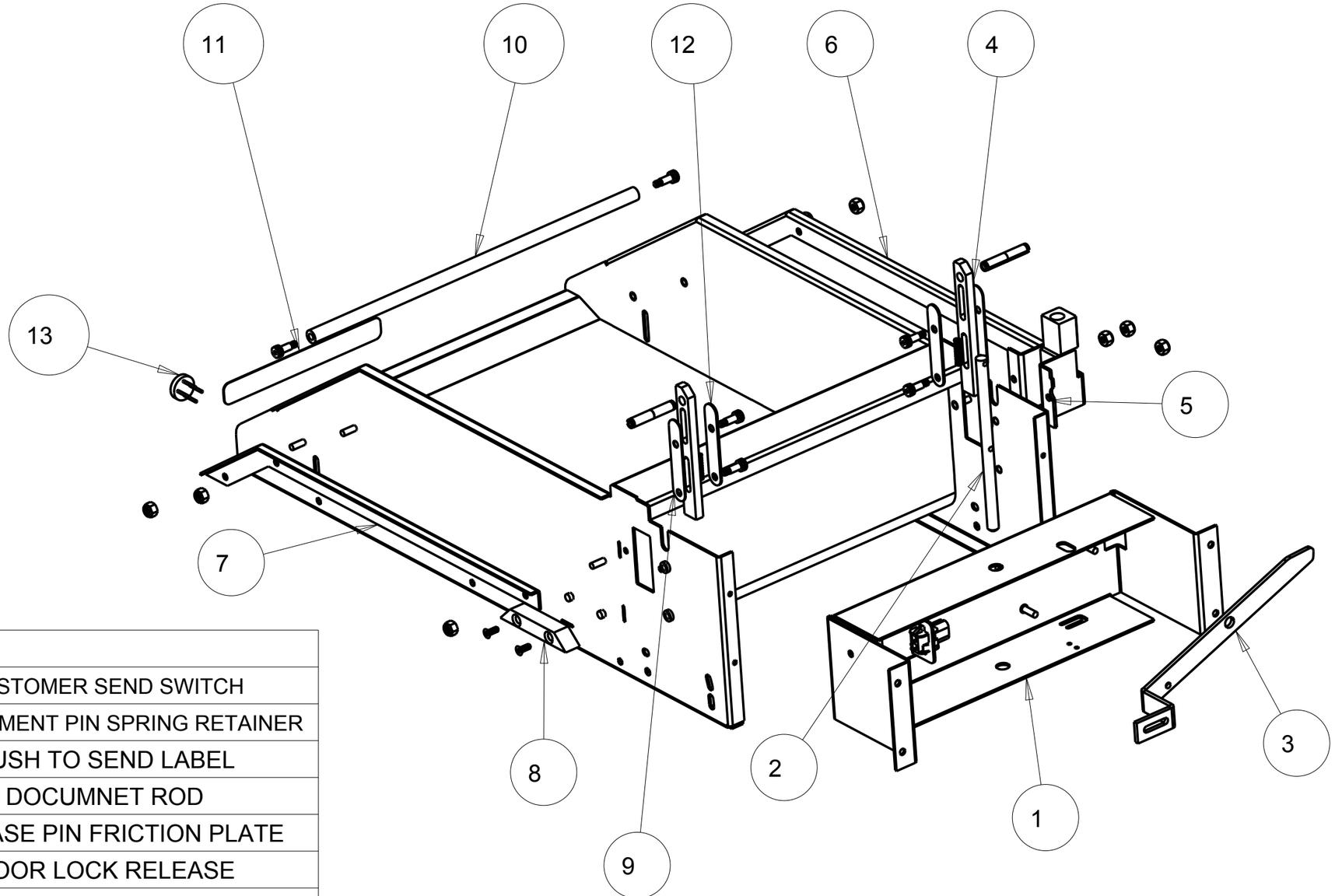
F-1 -- 1 amp
F-2 -- 1 1/2 amp
F-3 -- 5 amp



22	1	SPLIT_BUSHING	SPLIT BUSHING
21	1	SPACER_1	SPACER
20	1	SPACER	DOOR LOCK LINKAE CLIP
19	1	FS12-0088	HOPPER GUIDE
18	2	FS12-0068	SPACER
17	2	FS12-0067	COUNTER TRIM
16	1	FS12-0057	HEATER BLANK COVER
15	1	FS12-0052	LOCK LINKAGE ARM
14	2	FS12-0044	GUIDE BEARING ADJUSTER
13	1	FS12-0039	SLIDING COVER RELEASE RAMP
12	1	FS12-0037	SAFETY BAR
11	1	FS12-0036	BACK COVER
10	1	FS12-0035	REAR UPPER COVER
9	2	FS12-0025	DOOR PIVOT BLOCK
8	2	FS12-0024	GUIDE RAIL SUPPORT
7	1	FS12-0023_WINDOW	BULLET RESISTANT COVER
6	1	FS12-0023	FRONT SLIDING COVER
5	1	FS12-0020	HOPPER WELDMENT ONLY
4	1	FS12-0019	COUNTER TRIM W/ MAN SLOT
3	1	FS12-0018	COUNTER TRIM NO SLOT
2	1	FS12-0010	BULKHEAD
1	1	FS12-0001	MAIN HOUSING
INDEX	QTY	PART NUMBER	DESCRIPTION



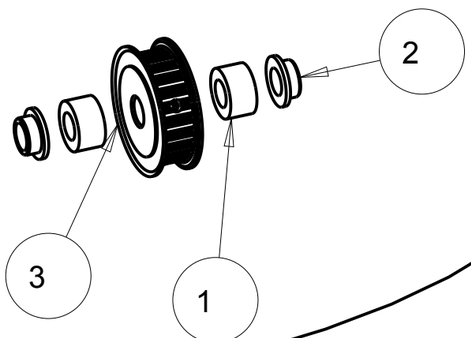
25	2	SR-0065	SAFETY SWITCH
24	1	SR-0021	HEATER ON / OFF SWITCH
23	1	SR-0020	HOPPER IN / OUT SWITCH
22	1	FS12-0088	HOPPER GUIDE BLOCK
21	1	FS12-0081	IN OUT SWITCH LABEL
20	1	FS12-0080	HEATER SWITCH LABEL
19	2	FS12-0067	COUNTER TRIM
18	1	FS12-0057	HEATER BLANK COVER
17	1	FS12-0039	SLIDING COVER RELEASE RAMP
16	1	FS12-0037	SAFETY BAR
15	1	FS12-0036	BACK COVER
14	1	FS12-0035	REAR UPPER COVER
13	2	FS12-0025	DOOR PIVOT BLOCK
12	2	FS12-0024	GUIDE RAIL SUPPORT
11	1	FS12-0023_WINDOW	BULLET RESISTANT WINDOW
10	1	FS12-0023	UPPER FRONT COVER
9	2	FS12-0022	REAR SLIDING COVER
8	2	FS12-0021	FRONT SLIDING COVER
7	1	FS12-0020	HOPPER WELDMENT ONLY
6	1	FS12-0019	COUNTER TRIM WITH MAN/ SLOT
5	1	FS12-0018	COUNTER TRIM NO SLOT
4	1	FS12-0010	BULKHEAD
3	1	FS12-0001	MAIN HOUSING
2	1	ELECTRICAL_PANEL	
1	1	DRIVE	
INDEX	QTY	PART NUMBER	DESCRIPTION



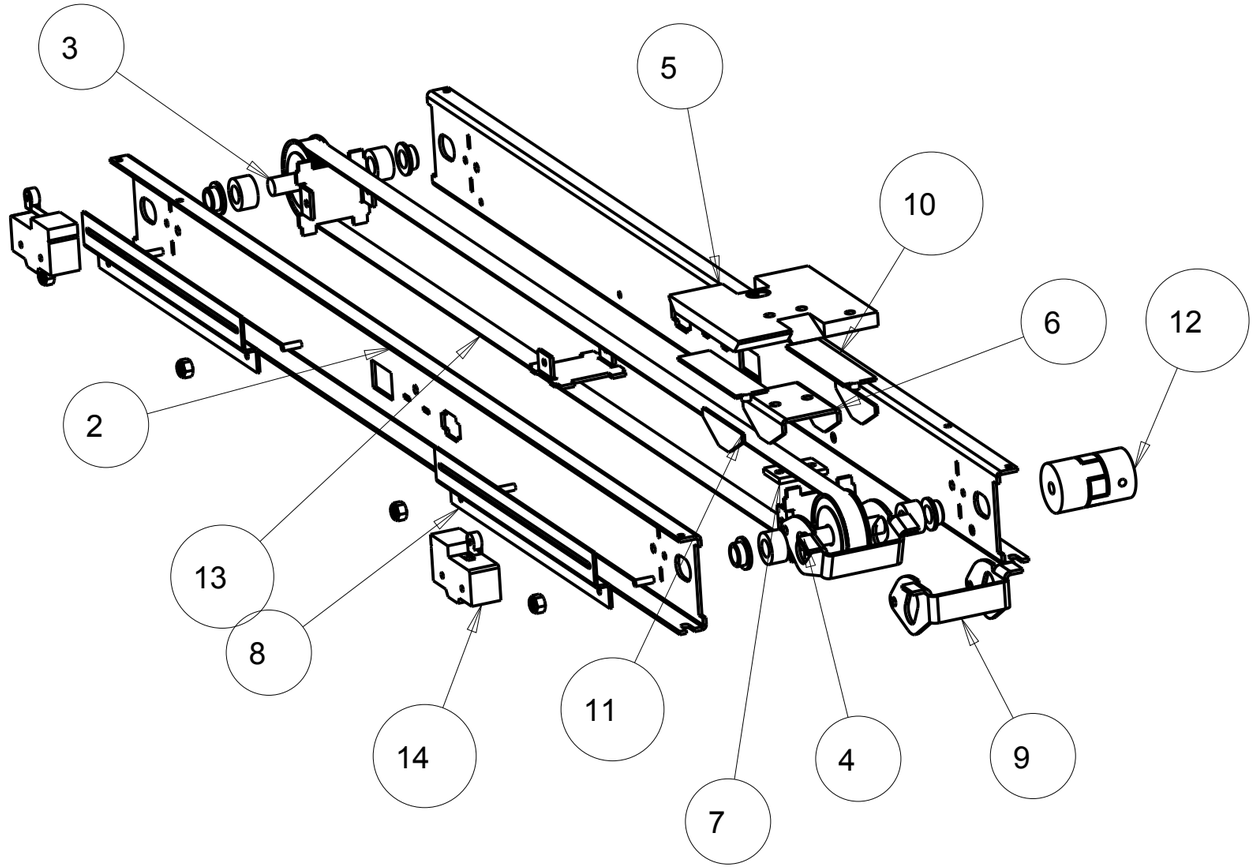
13	1	SR-0031	CUSTOMER SEND SWITCH
12	2	FS12-0090	ENGAGEMENT PIN SPRING RETAINER
11	1	FS12-0083	PUSH TO SEND LABEL
10	1	FS12-0066	DOCUMNET ROD
9	2	FS12-0065	RELEASE PIN FRICTION PLATE
8	1	FS12-0056	DOOR LOCK RELEASE
7	1	FS12-0043	R.H. DOOR LIFT GUIDE
6	1	FS12-0042	L.H. DOOR LEFT GUIDE
5	1	FS12-0040_WELD	MANUAL HANDLE BRACKET
4	3	FS12-0038	SLIDING COVER RELEASE PIN
3	2	FS12-0030	MANUAL RELEASE ARM
2	1	FS12-0029	ENGAGEMENT ROD
1	1	FS12-0028	ENGAGEMENT PIN MOUNT
INDEX	QTY	PART NUMBER	DESCRIPTION

3	1	MS_0030	PULLEY
2	2	MS-0032	BUSHING
1	2	MS-0031	SPACER
INDEX	QTY	PART NUMBER	DESCRIPTION

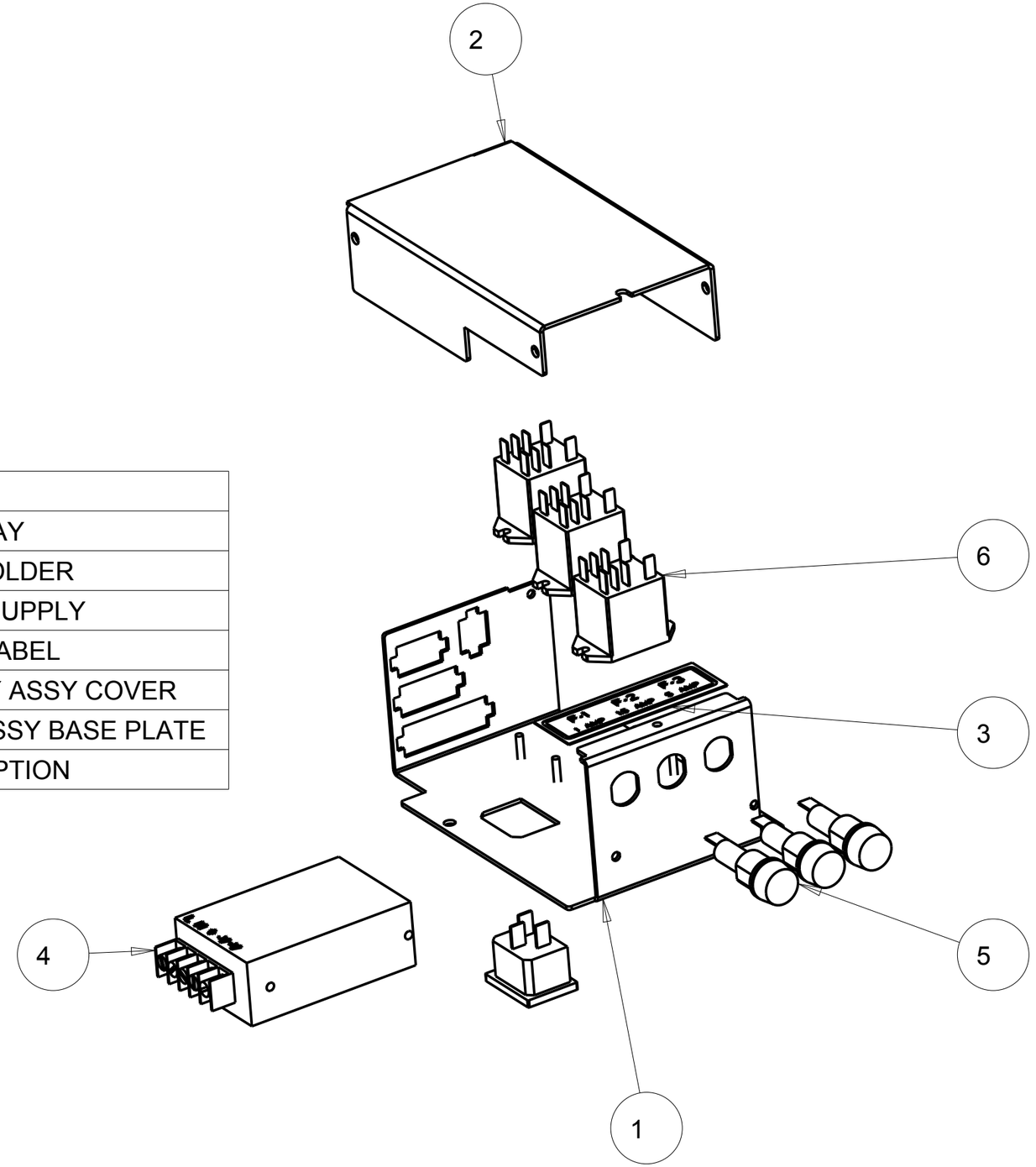
TIMING PULLEY AND SPACER
PARTS FRONT AND BACK



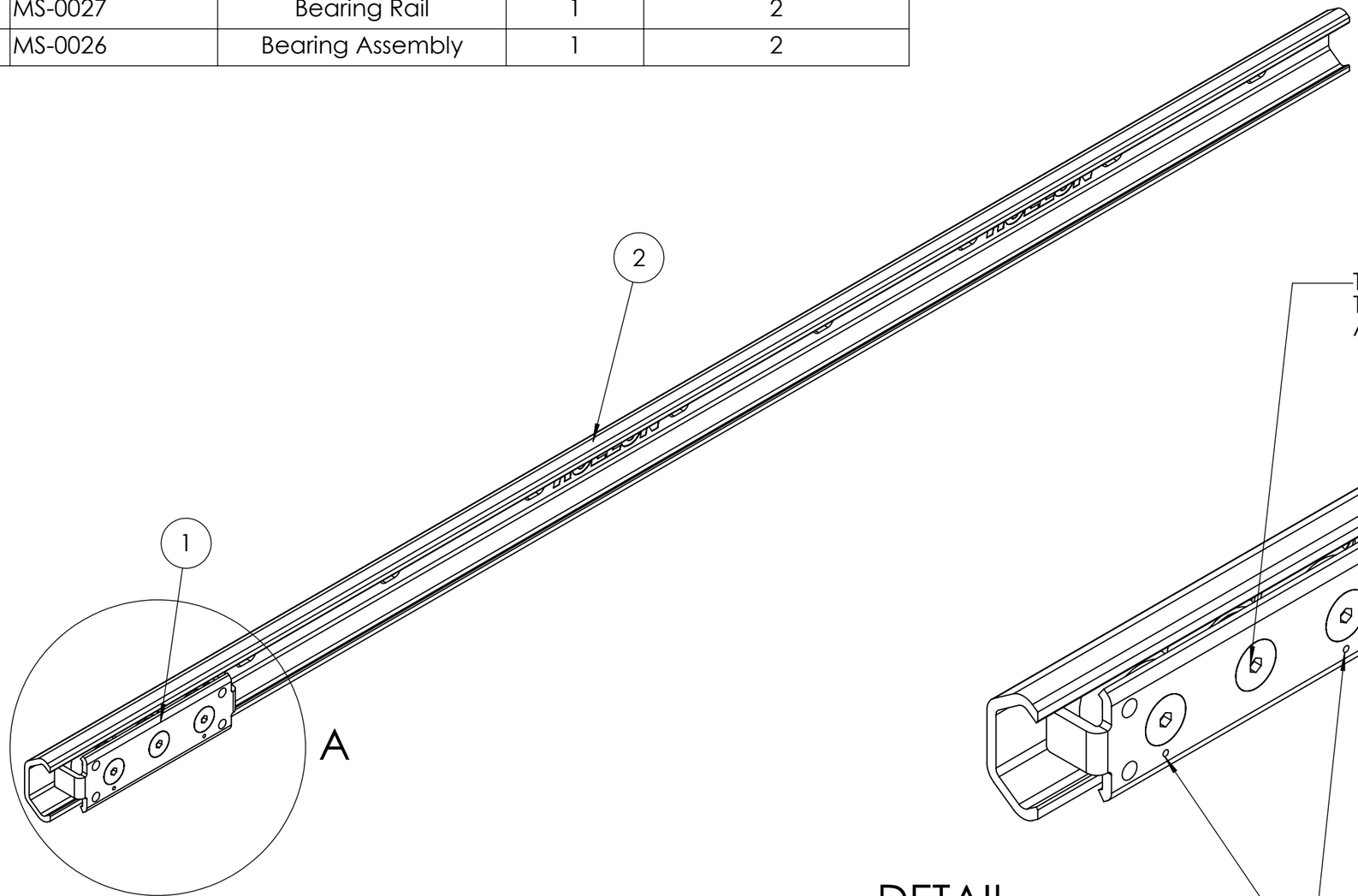
14	2	SR0008	LIMIT SWITHES
13	1	MS-0036	BELT
12	1	MS-0033-2_MS-0034-1	DRIVE COUPLING ASSEMBLY
11	2	FS12-0086	YOKE GUIDE FRICTION PLATE
10	2	FS12-0085	DRIVE YOKE FRICTION PLATE
9	2	FS12-0009	BELT TENSIONER BRACKET
8	2	FS12-0008	LIMIT SWITCH BRACKET
7	1	FS12-0007	BELT ENGAGEMENT BRACKET
6	1	FS12-0006	YOKE GUIDE BRACKET
5	1	FS12-0005	DRIVE YOKE
4	1	FS12-0004	DRIVE SHAFT
3	1	FS12-0003	IDLER SHAFT
2	2	FS12-0002	DRIVE SIDE PLATE
1	3	FABRICATED_SPACER	THREADED SPACER
INDEX	QTY	PART NUMBER	DESCRIPTION

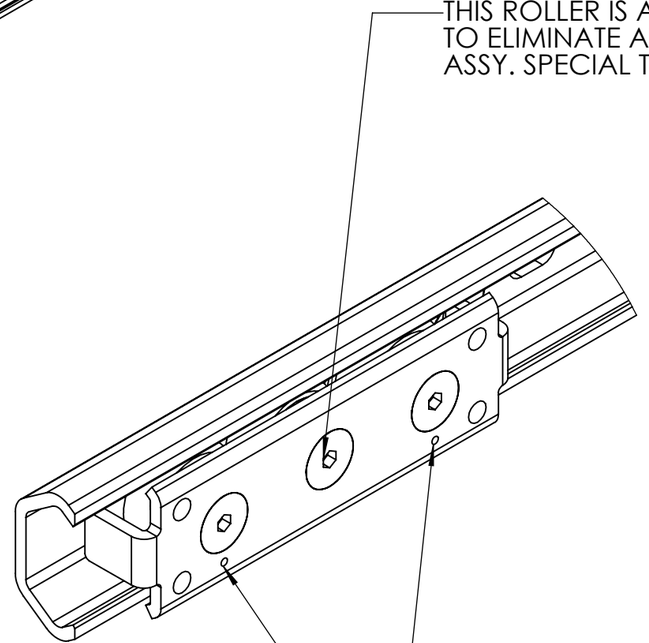


6	3	SR-0046	RELAY
5	3	SR-0026	FUSE HOLDER
4	1	MT-022	POWER SUPPLY
3	1	FUSE_LABEL	FUSE LABEL
2	1	FS12-0055	POWER SUPPLY ASSY COVER
1	1	FS12-0054	POWER SUPPLY ASSY BASE PLATE
INDEX	QTY	PART NUMBER	DESCRIPTION



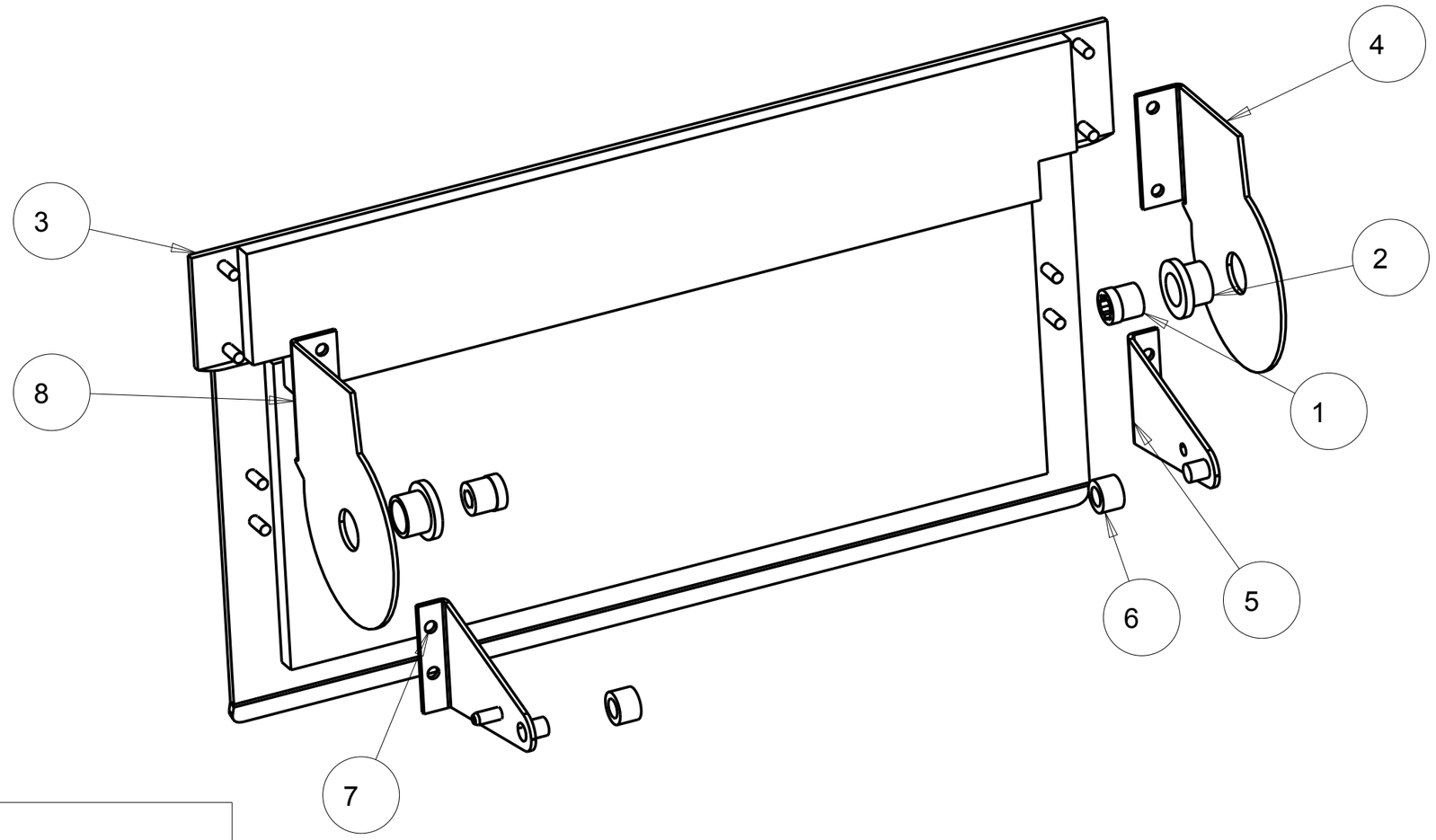
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	QTY PER DRAWER
1	MS-0027	Bearing Rail	1	2
2	MS-0026	Bearing Assembly	1	2



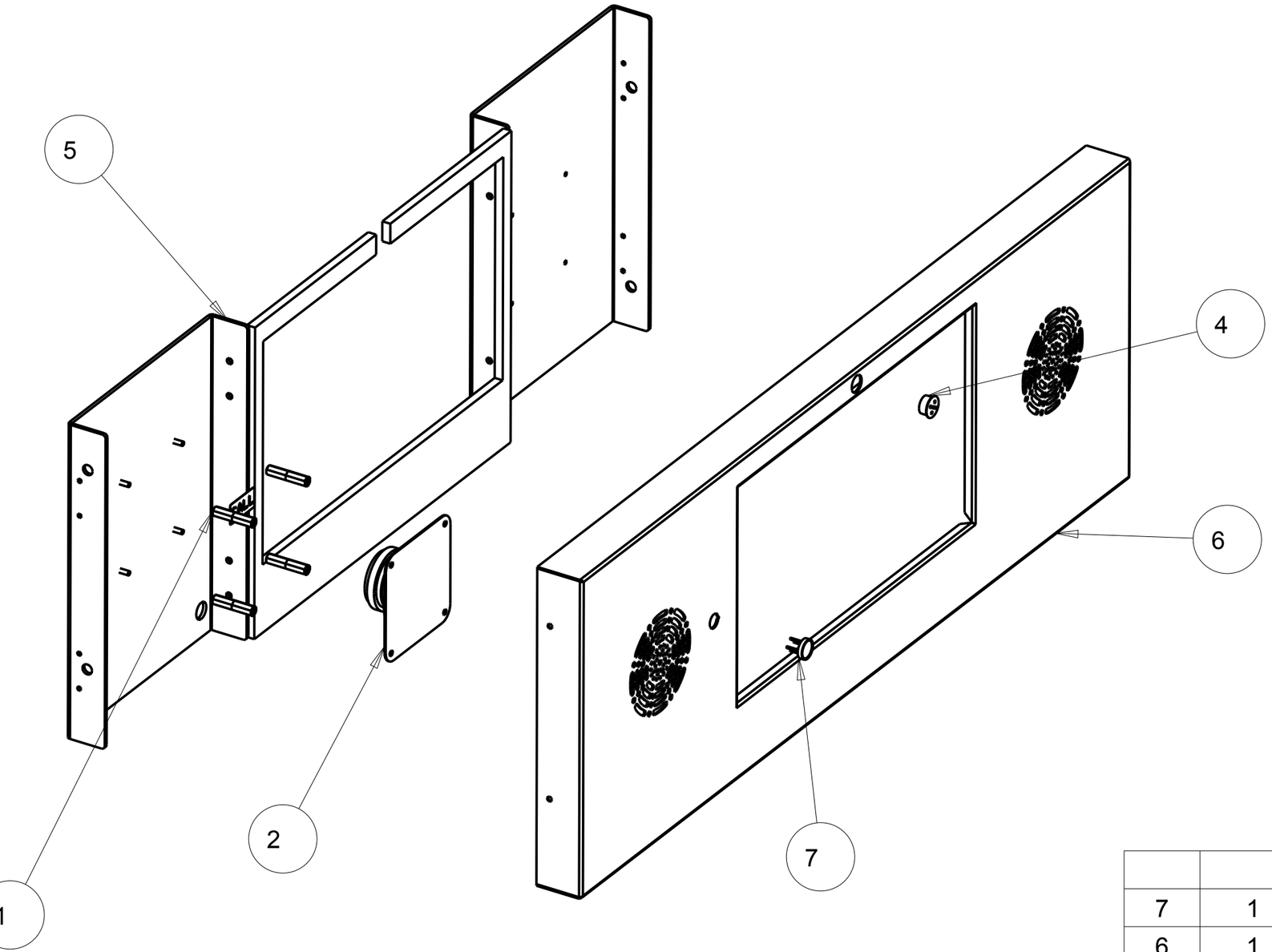


DETAIL A

SCALE 1 : 1



8	2	FS12-0013B	R.H. PIVOT BRACKET
7	1	FS12-0045	R.H. DOOR LIFT BRACKET
6	2	FS12-0033	DOOR LIFT ROLLER
5	1	FS12-0032	L.H. DOOR LIFT BRACKET
4	1	FS12-0012	L.H. DOOR PIVOT BRACKET
3	1	FS12-0011	OUTER DOOR
2	2	DOOR_PIVOT_BUSHING	DOOR PIVOT BUSHING
1	2	ALLEN_NUT	DOOR MOUNT ALLEN NUT
INDEX	QTY	PART NUMBER	DESCRIPTION



7	1	SR-0030	CALL BUTTON
6	1	FS12-0060	STAINLESS FASCIA
5	2	FS12-0050	BACKUP PANEL
4	1	FS01-0027	MICROPHONE
3	1	CALL_LABEL	
2	1	AV-0005	SPEAKER
1	4	6_32_STANDOFF	THREADED STANDOFFS
INDEX	QTY	PART NUMBER	DESCRIPTION