

HAMILTON AIR

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Interactive Remote Teller Model IRT-5000



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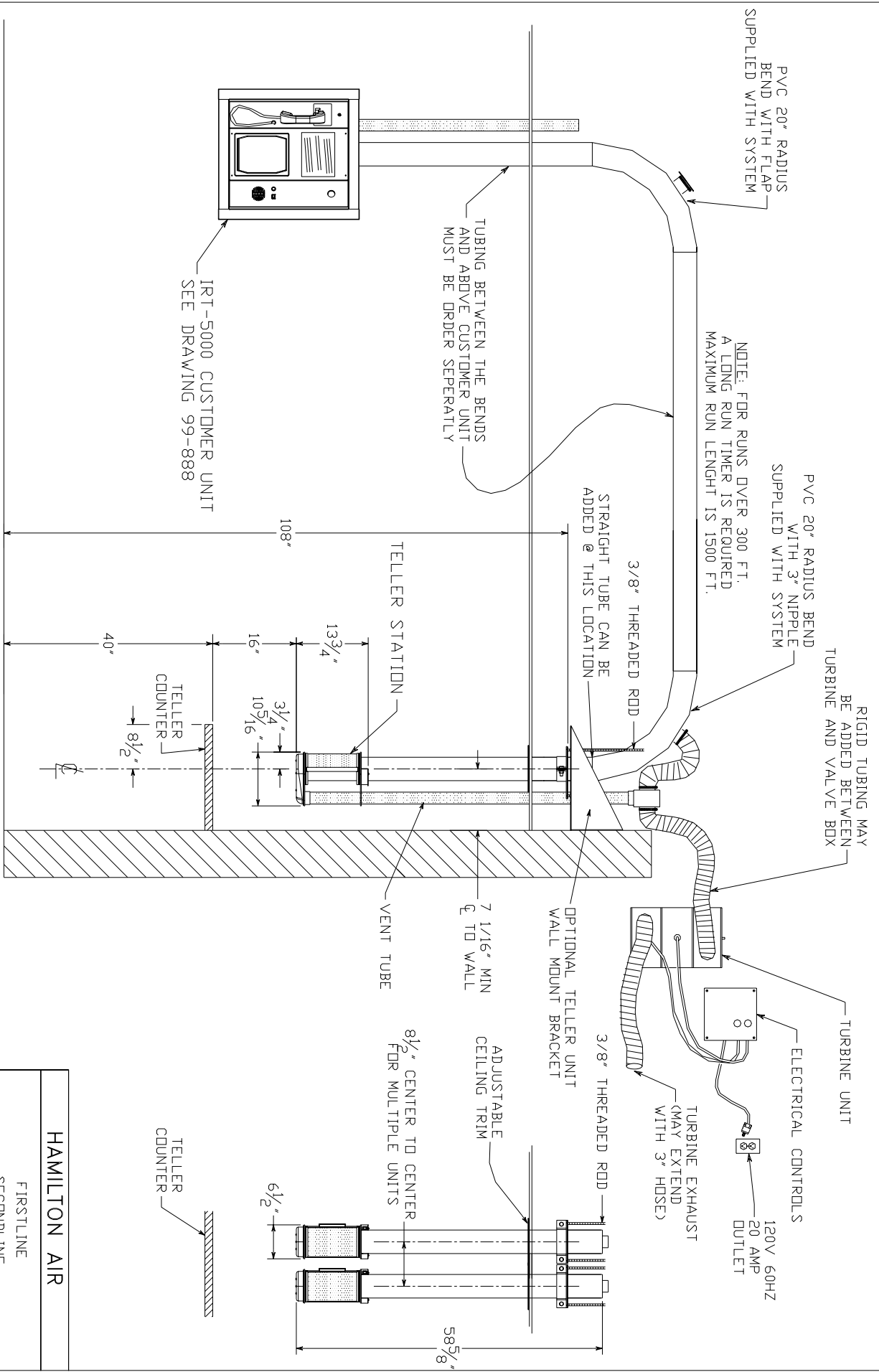
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NOTE: TURBINE SHOWN ATTACHED TO TELLER END OF SYSTEM, TURBINE MAY BE CONNECTED TO CUSTOMER UNIT

NOTE: TURBINE AND CONTROL BOX MAY BE REMOTELY LOCATED IN UTILITY CLOSET, MECHANICAL ROOM, ETC.

Rev - 1	REV1
Rev - 2	REV2



IRT-5000 CUSTOMER UNIT
SEE DRAWING 99-888

HAMILTON AIR

FIRSTLINE
SECONDLINE
THIRDLINE

Drawing Number : DWG# Date : DATE

Interactive Remote Teller Model IRT-5000

Description:

The Interactive Remote Teller Model IRT-5000 is a remote mounted tube system with full two-way audio and video communication via a microphone and speaker or with the handset for private conversation. The IRT-5000 has a 4-1/2" tube system utilizing remote mounted turbine motors for quiet operation at both end stations. There is also a remote mounted electrical control unit for all connections between end stations and turbine motors. Electrical requirements are also located at this electrical control box and the IRT-5000 customer unit. The unit is capable of transporting goods, weighing up to 5 lbs., very quickly, for up to 300 feet standard, and 1500 feet, with optional long run timers. With built in safety, the customer door has double safety switches that reset the door to the full open position if triggered. Also, the unit will only operate if the teller end station door is closed and will shut off if the door is opened while in operation. We can also supply Hamilton's "Double Sided Teller" unit for use as the teller end station as an option. Note: When the "double Sided Teller" unit is used the turbine unit must be connected to the IRT-5000 customer units end of the tube run.



Standard "End Station"



IRT-5000 Customer Unit

Operation:

The Interactive Remote Teller Model IRT-5000 will activate a ring tone on the teller audio/video console with the call teller button pressed or if the handset is lifted from its cradle. When the teller console has selected the unit for communication, there is full two way audio and video. This means that the customer will see and hear the teller as the teller will see and hear the customer. The transaction is transported via the integrated HT-19 Pneumatic Transport Tube System. The HT-19 System will only operate if the teller door is closed. Placing the carrier inside the IRT-5000 customer unit, and depressing the "send carrier" button, will send the carrier to the teller end station. If something blocks the IRT door and trips the safety switches the door fully opens and stops. When the teller door is closed the carrier is automatically sent to the customer.

Interactive Remote Teller Model IRT-5000

Bill of Materials:

As Shown in Figure #1

Quantity	Description	Part Number
1	Standard Teller Units Complete	99-881
1	IRT-5000 Customer Unit	99-888
Optional	Double Sided Teller	99-849
2	PVC 20" Radius Bends with 3" Nipple	T9608
2	PVC to Steel Tube Adapters	T9705
2	PVC Tube Sleeves	T9602
1	Flap Valve Kit	T9715
1	HT-19 Turbine Unit	B5470
1	IRT-5000 Electrical Control Unit	99-889
1	HT-19 Air Flow Control Valve	B5471
96	Inches of 3" Diameter Hose	B2948
4	Hose Clamps 3"	H1074

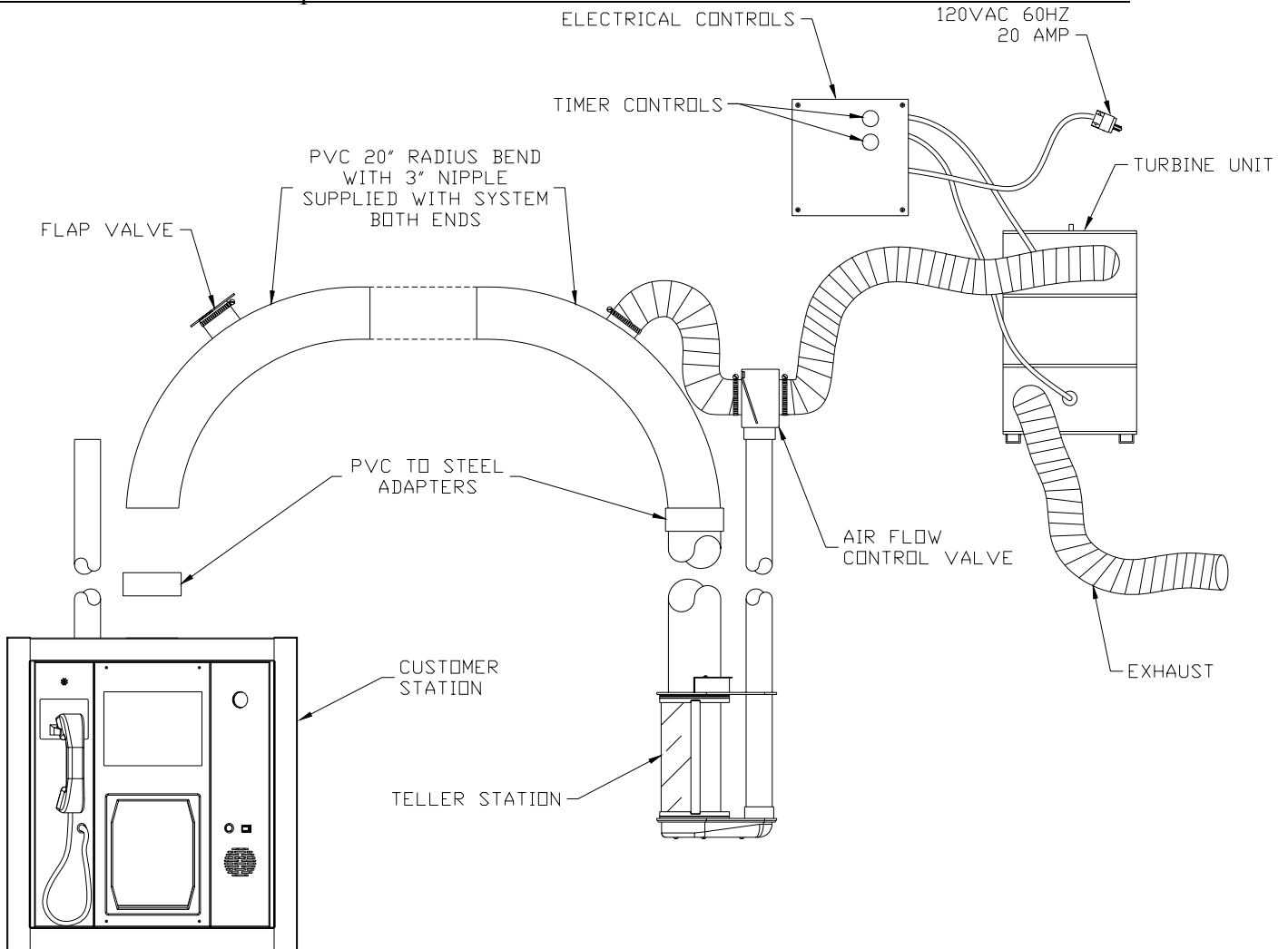


Figure 1

Interactive Remote Teller Model IRT-5000

Installation:

Location:

The Turbine Unit and Electrical Control Unit should be mounted in close proximity to each other to accommodate connecting the turbine power cables to the electrical control unit. **Extending the cables between the Turbine Unit and Electrical Control Unit is NOT recommended.** The Turbine Unit and Electrical Control Unit should be mounted in a location that noise from the turbine motors will not offend the users. This can be in a remote location such as a machine room, utility closet, above ceiling, etc. The three inch (3") hose, between the Turbine Unit and the Air Flow Control Valve, can be lengthened, with rigid pipe, to accommodate this remote location. The exhaust can also be ducted to a remote location, with three inch (3") hose and/or rigid pipe, to reduce noise. Size requirements are shown in figure #2.

Electrical:

The power, for the IRT-5000 Customer unit, is provided through a factory installed, fixed power cord, located on the rear of the unit. The unit requires a 120 volts AC, 60 Hz, 15 amp outlet. One 15 amp circuit can supply up to ten (10) IRT-5000 customer units.

The power, for the HT-19 Pneumatic Transport System, is provided through the Electrical Control Unit. The Electrical Control Unit requires a 120 volts AC, 60 Hz, 20 amp outlet. A power cord, with fixed 20 amp plug, is factory wired to the electrical control unit. The turbine motors will be field wired to the electrical control unit. This is explained in the "Field Electrical Connections" section of this manual. The interconnect cables from the terminals is also field wired to the electrical control unit and explained in the "Field Electrical Connections" section.

Air Flow Control Valve:

The Air Flow Control Valve will be located on top of the black exhaust tube from the back of one of the teller terminals. This terminal will now be considered the "Power Station" and the other the "End Station". **If a "Double Sided Teller" terminal is used, it is required to be the "End Station" and connection of the Airflow Control Valve will be on the standard terminal.** Using silicone adhesive, seal the two and a quarter inch (2-1/4") I.D. coupler, on the Airflow Control Valve, over the black exhaust tube. Confirm that the black exhaust tube is sealed to the teller terminal also. Attach the Airflow Control Valve so to have sufficient clearance for the connection of the three inch (3") hoses to the other couplers. Connect a length of three inch (3") hose to the top fitting of the turbine unit and the other end to the air flow control valve fitting marked **"To Turbine" (This is the fitting opposite of the rubber flap inside the Airflow Control Valve.** Example: When turbine creates pressure, this rubber flap closes off the 3" hose connected to the elbow, forcing the air down the 2-1/4" exhaust tube and into the teller terminal lifting the carrier) as shown in Figure 5. Then connect the fitting with the flap, on the air flow control valve, to the three inch (3") fitting, on the tube elbow, located above the power station.

Interactive Remote Teller Model IRT-5000

Size Requirements:

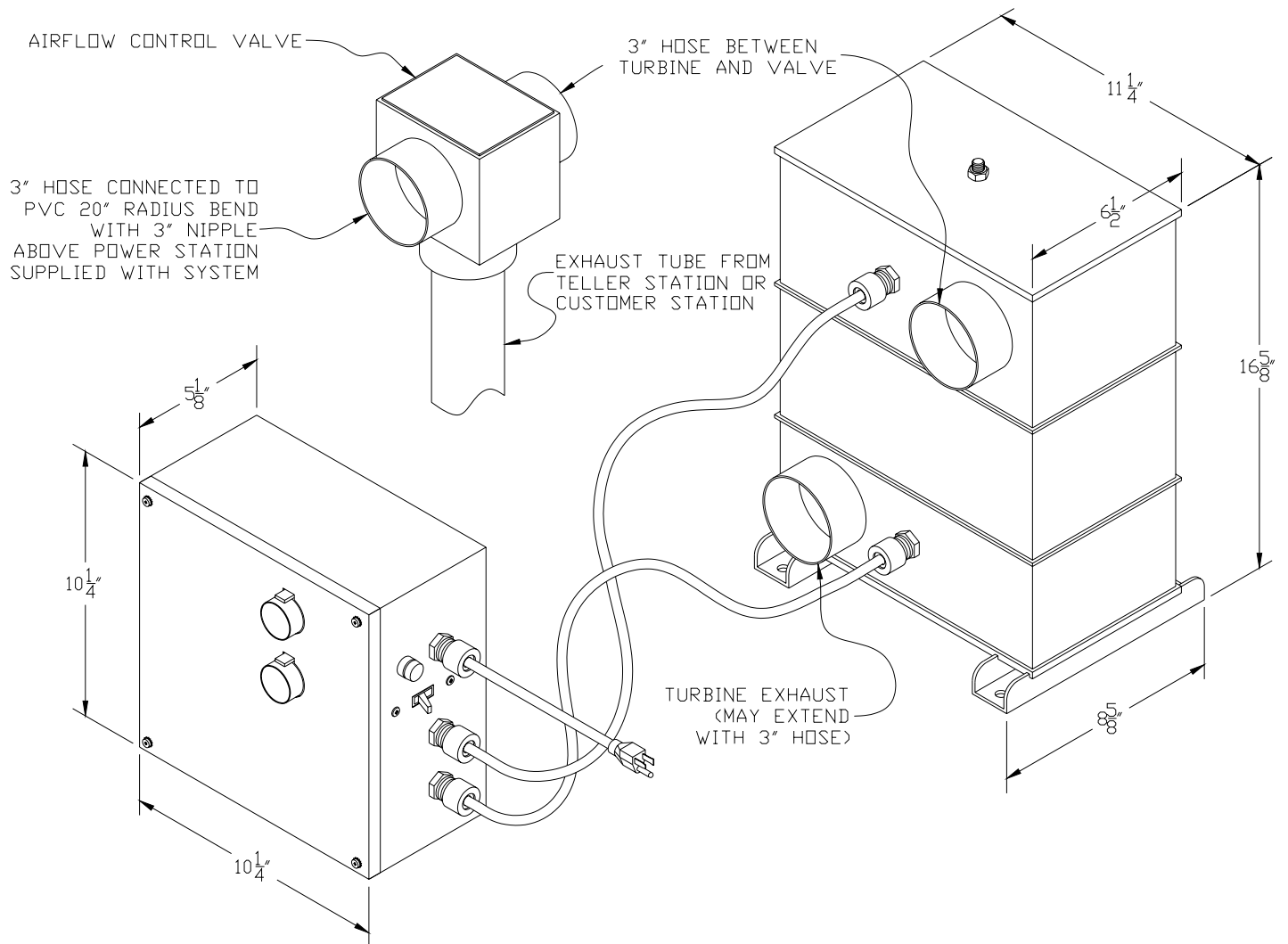
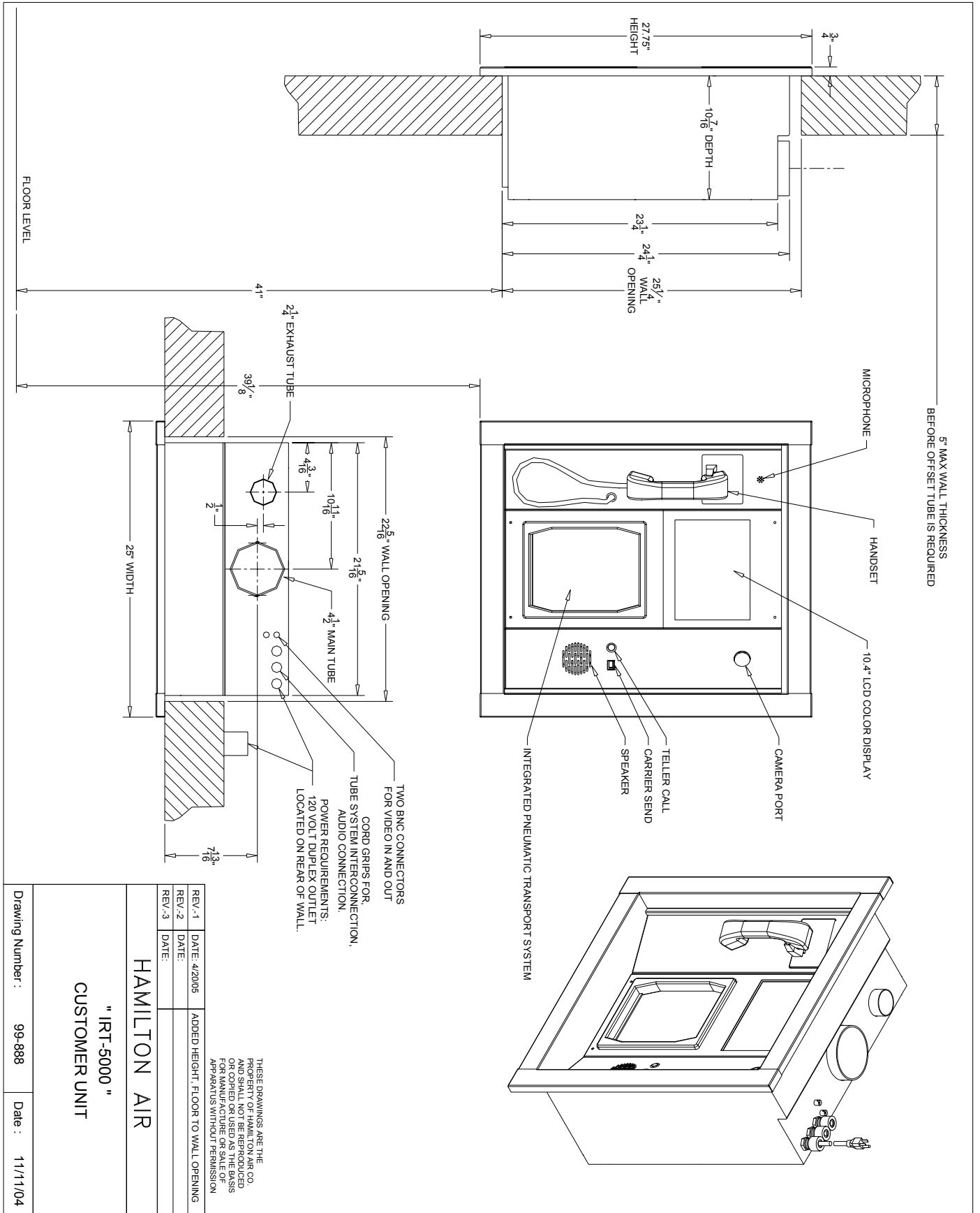


Figure 2

Drawing 99-888 IRT-5000 Customer Unit:



Interactive Remote Teller Model IRT-5000

Field Electrical Control Unit Connections:

Note: Make all connections with main power disconnected.

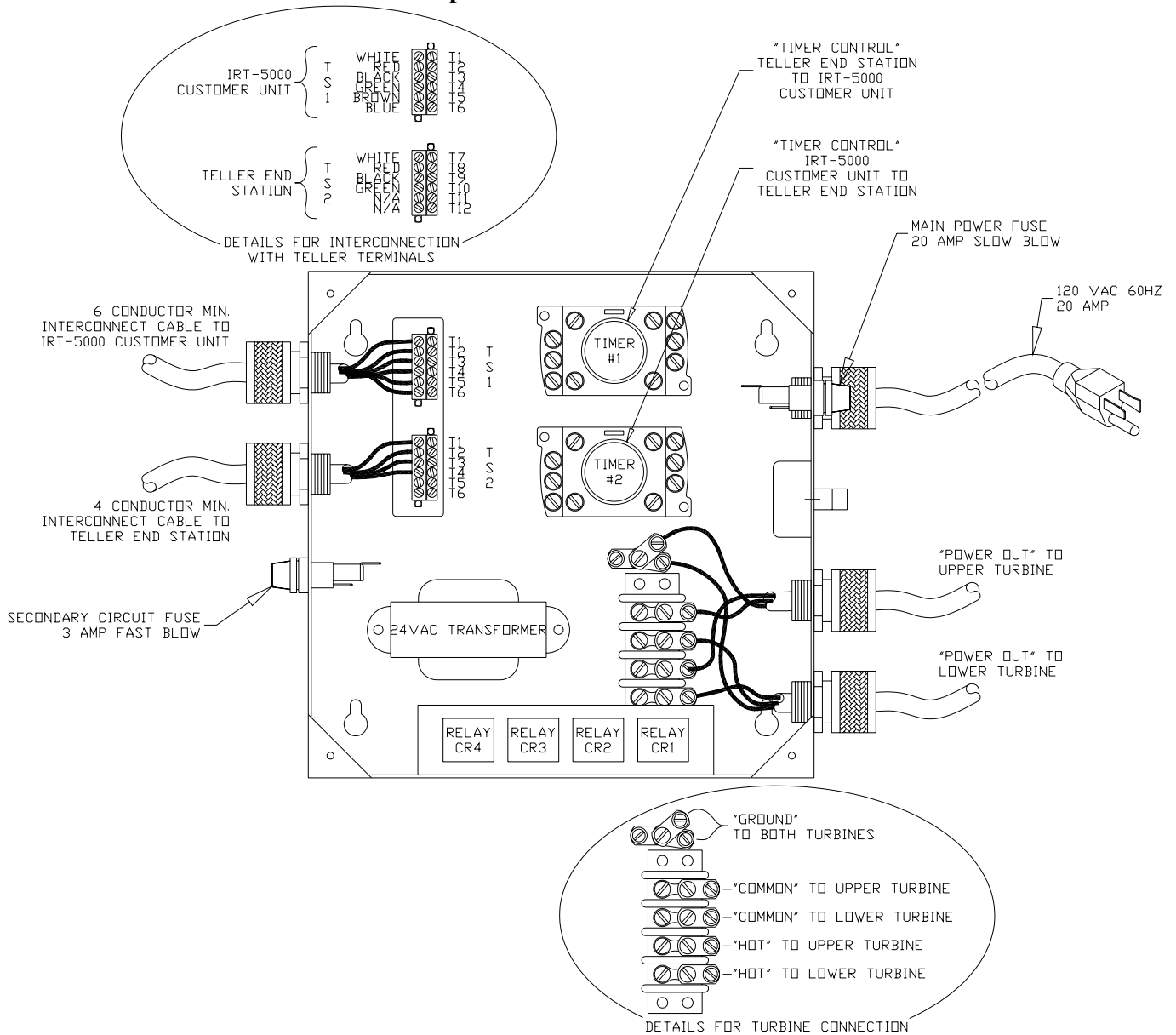


Figure 3

Interactive Remote Teller Model IRT-5000
Field Electrical Connections:

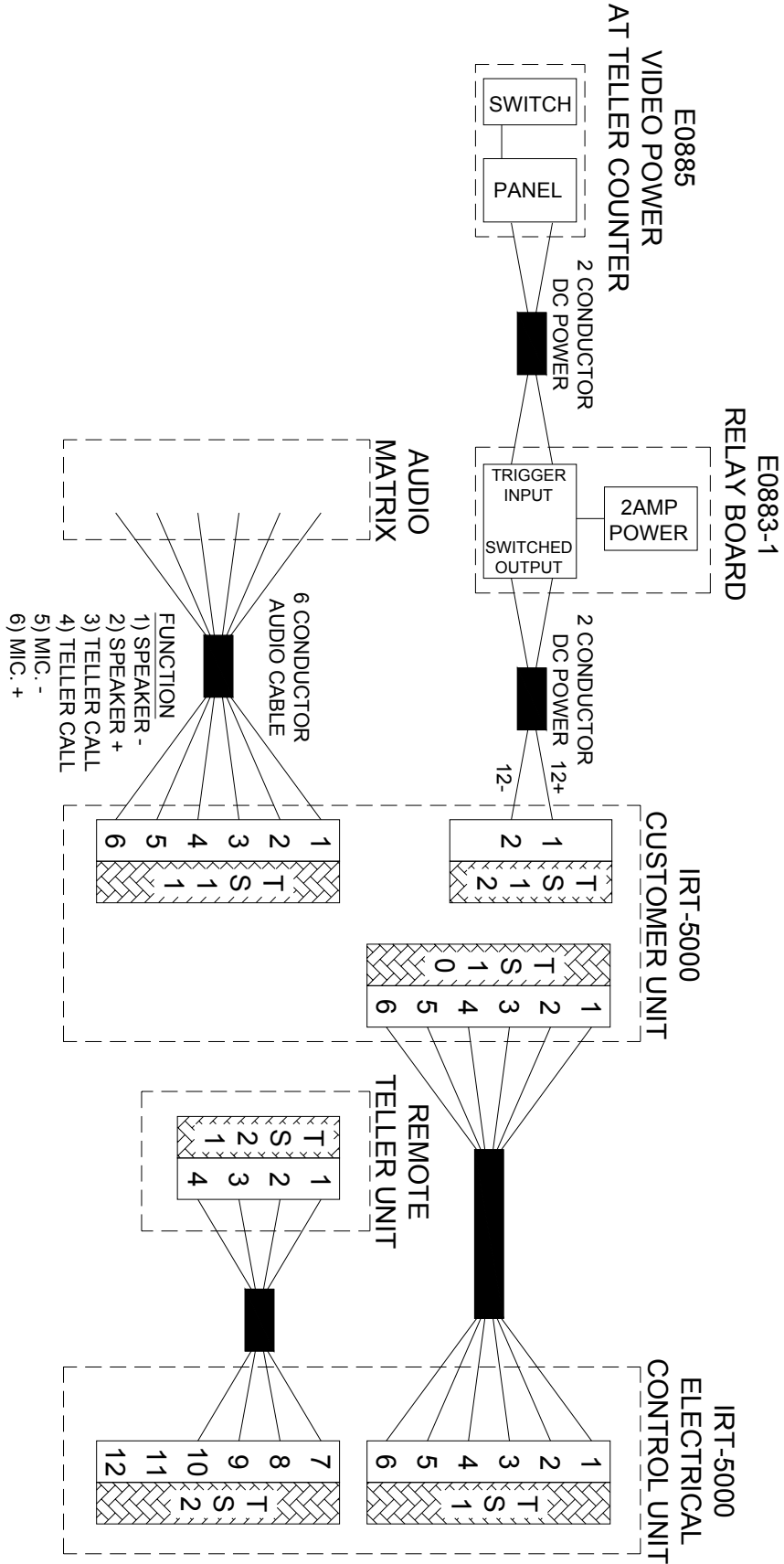


Figure 4

Interactive Remote Teller Model IRT-5000

Turbine Unit and Air Flow Control Valve Details:

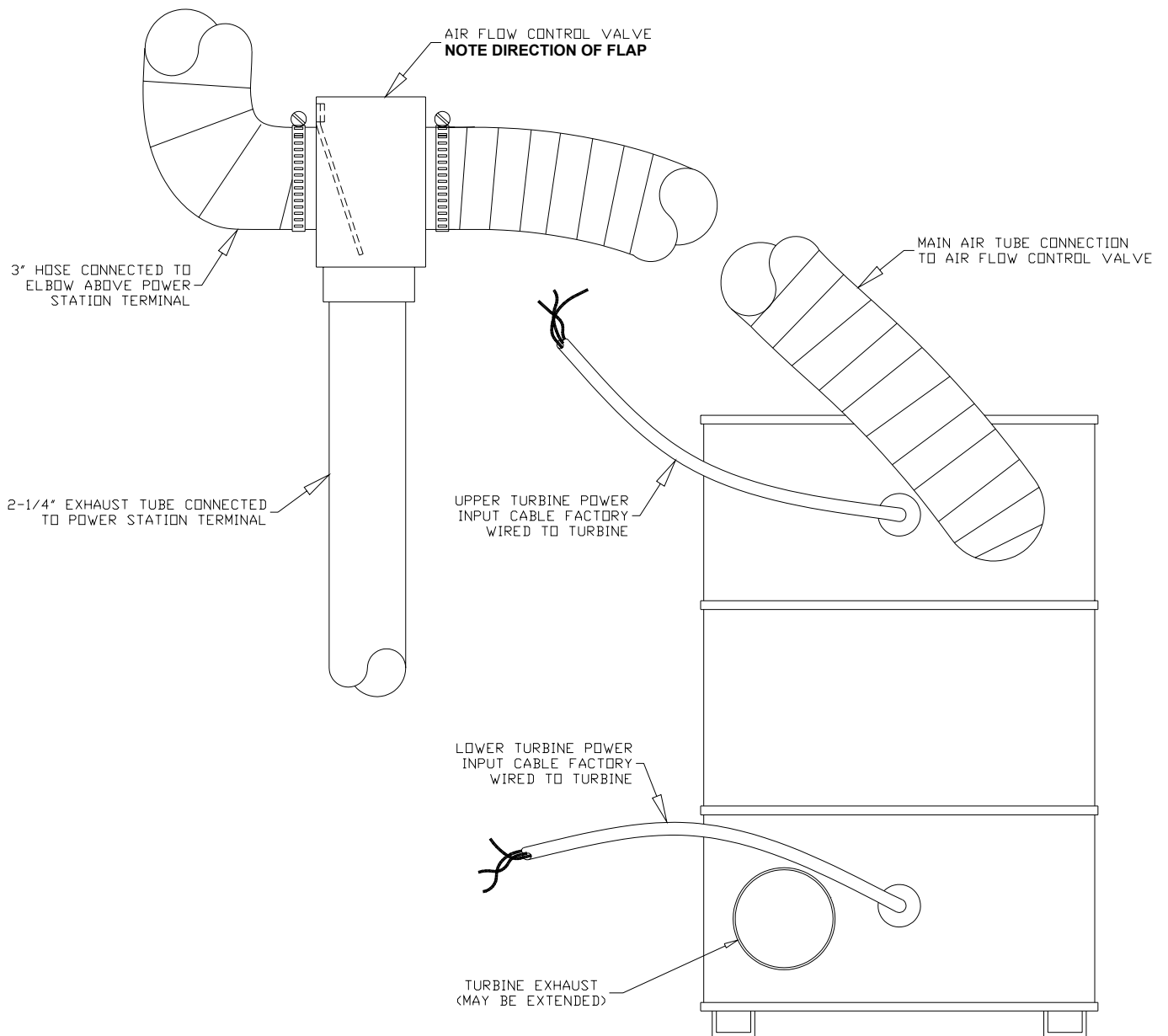
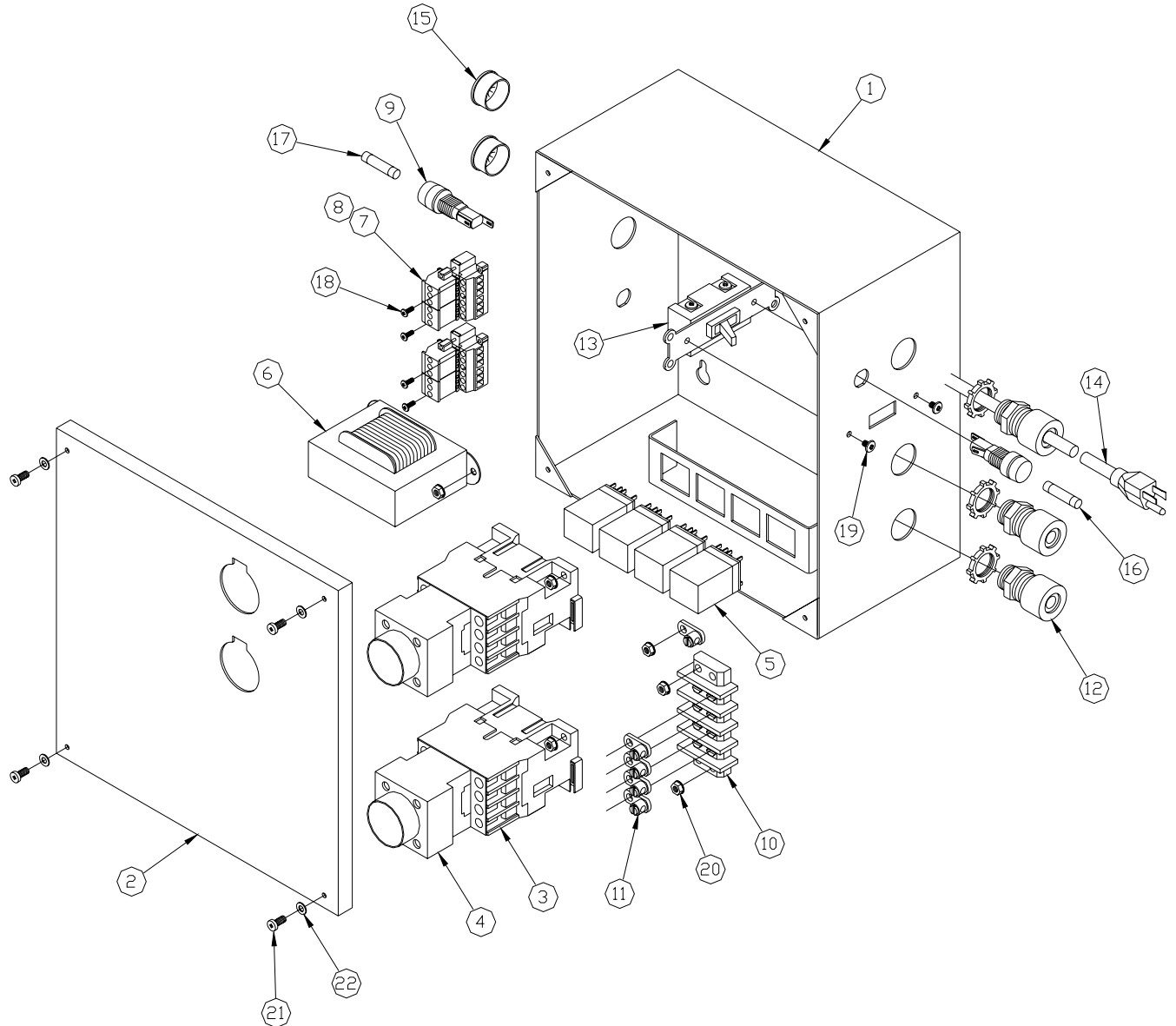


Figure 5

Interactive Remote Teller Model IRT-5000

Electrical Control Cabinet Exploded Parts Detail:



REF.#	P/N	DESCRIPTION	QUANT.
1	B5472	MAIN BODY PANEL	1
2	B5473	COVER PANEL	1
3	E0362	CONTACTOR (TELEMECANIQUE #LC1D18B7)	2
4	E0510	TIME DELAY (TELEMECANIQUE #LADT2)	2
	E0370	LONG RUN TIME DELAY(TELEMECANIQUE#LA2DT4) OPT.	
5	E0124	RELAY, 24VAC 4PDT (TYCO #KHAU-17A11-24)	4
6	E0504	24VAC TRANSFORMER (HOBART #P-1372)	1
7	E0363	PLUG, TERMINAL BLOCK (PHOENIX #1835135)	2
8	E0364	HEADER, TERMINAL BLOCK (PHOENIX #1788389)	2
9	E0263	FUSE HOLDER (LITTELFUSE #H342858)	2
10	E0365	4 POSITION TERMINAL STRIP (CINCH #4-142)	1
11	E0625	CONNECTION LUG (T&B #71003)	7

REF.#	P/N	DESCRIPTION	QUANT.
12	E0366	CORD GRIP (T&B #2522)	3
13	E0628	SINGLE POLE SWITCH (LEVITON #3031-2)	1
14	E0367	POWER CORD 14/3, 8' LONG (20amp)	1
15	E0368	BUSHING (HEYCO #2119)	2
16	E0267	20 AMP SLOW BLOW FUSE (MDA-20)	1
17	E0369	3 AMP FAST BLOW FUSE (AGC-3)	1
18	H0588	4-40 x 3/8 PHILLIPS MACHINE SCREW	4
19	H0137	6-32 x 3/8 PHILLIPS MACHINE SCREW	2
20	H0155	6-32 HEX NYLON LOCK NUT	9
21	H0392	8-32 x 3/8 PHILLIPS MACHINE SCREW	4
22	H0589	#8 EXTERNAL TOOTH LOCK WASHER	4