



**HIRED-HAND®**

# Curt-O-Matic

*Emergency Ventilation System*

## Engineered for a lifetime of reliable operation!



**Figure 1**  
**CURT-O-MATIC II**

CURT-O-MATIC automatically drops the side curtains of your confinement house if power should fail, or (with optional thermostat) in the event of high temperature extremes preventing thousands of dollars in potential loss – a huge return for a small investment!

1. Inspect Curt-O-Matic for damage in transit. Check for loose, missing, or damaged parts. Refer to **Parts List on Page 4**.
2. If there are any missing parts or shipping damage, do not attempt to repair the unit. Contact your Distributor.

### **MAINTENANCE**

Check Curt-O-Matic periodically to ensure proper arm operation.

### **FEATURES**

- CM II and CM III are available in 120 or 240 Volt models
- CM II is now available in 208v Models
- Curtain Chain Kit
- Easy Installation
- Simple 3-wire hook-up
- 5 Minute (Approximately) time delay
- 5 year warranty
- Curt-O-Matic III can be hooked up to your Alarm systems electronic audible, to signal alarm if arm on system should drop.

### **! WARNING**

When the CURT-O-MATIC is connected and activated, THE ARM MAY RELEASE AT ANY TIME.

#### **PRECAUTIONS MUST BE OBSERVED.**

Disconnect the power cord, remove curtain cable, and drop the arm before maintenance. Failure to properly disconnect system can result in property damage, serious injury, or death!

### **WARRANTY**

*The CURT-O-MATIC has been manufactured with the finest materials and components available, and is backed by a five year warranty against electrical and mechanical defects in material and workmanship. If the Curt-O-Matic fails to operate during this period, return it prepaid to the place of purchase for repair or replacement without charge at the manufacturer's option. Damage by accident or abuse is not covered by this warranty. This warranty gives you specific legal rights and you may have other rights which vary from state to state.*

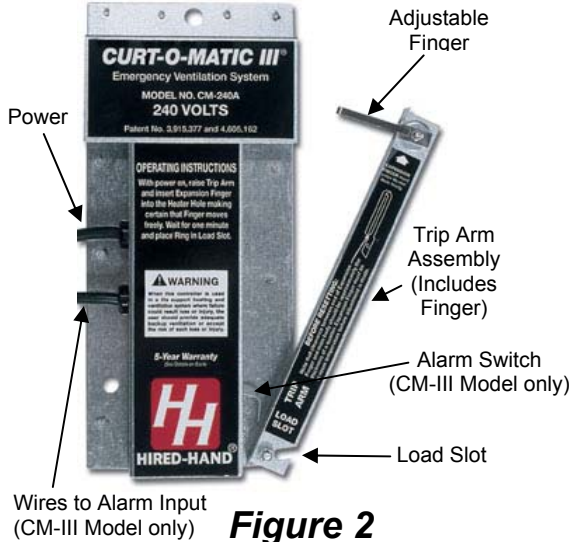


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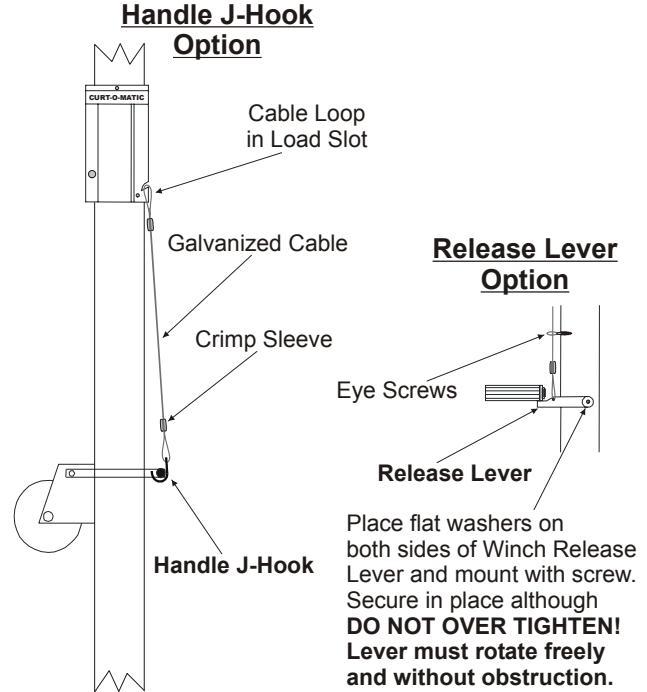
## INSTALLATION



**Figure 2**  
**Curt-O-Matic III**

### Inside

Winches mounted on post inside house:  
**Curt-O-Matic** should be mounted at least 16" above winch. Mount the Winch Release Lever as shown in **Figure 3**. Place the Cable Loop in the Curt-O-Matic Load Slot. Run cable through eye screws to Winch Release Lever.



**Figure 3**  
**Assembly Components**

Place flat washers on both sides of Winch Release Lever and mount with screw. Secure in place although **DO NOT OVER TIGHTEN!** Lever must rotate freely and without obstruction.

## ! WARNING

1. DO NOT secure the Winch Handle J-Hook to the Winch Handle. The Winch Handle should ONLY be resting in the J-Hook.
2. DO NOT over-tighten the Winch release Lever mounting screw to the wall.
3. DO NOT mount the Curt-O-Matic on any flammable surface.
4. Use ONLY accessories and hardware supplied by Hired-Hand.

### Outside

Winch mounted outside on corner of building:  
If this set-up is used with a Power-Trak, the **Curt-O-Matic** should be mounted on the lower U-bolt on the corner bracket while using the Handle J-Hook. Refer to **Figure 3**. Otherwise, mount the unit above winch in a convenient location.

### Chain Adjustment Kit

Fasten spring hook (or Quick Link) to curtain cable with cable clamp. Secure one end of chain to building with the lag screw. Chain can be connected to spring hook to preset drop. This will restrict how far the curtain will fall. Refer to **Figure 4**

## NOTES

1. The Curtain fall distance depends on system setup and Quick-Link location. Set the Quick-Link location as necessary to accommodate the proper curtain position when the Curt-O-Matic is activated/curtains lowered.
2. Verify the Winch or Winch Handle can not become tangled with the Cable and/or Chain. Relocate Cable or chain if necessary.
3. Test the setup when installation is complete to ensure proper curtain drop distance and operation without interference with the winch or winch handle.
4. Figures are examples ONLY.



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## Electrical Connections

**CM II** – 240 volt models should be connected to fan circuit.

**CM III** – 240volt models should be connected to fan circuit. The CM III can be connected to the AAllI, Farm Hand Alarm, or other N.O. or N.C. alarm systems using the Com., N.O., & N.C. wires from the auxiliary switch. This allows the alarm to activate in the event that the arm trips.

### NOTE

Ensure that the CM II / CM III is connected to the same circuit and/or phase as the PowerTrak and/or primary source of ventilation.

## Operating Instructions

With power on, raise the trip arm and insert Expansion Finger into the heater hole making

certain that the finger moves freely. Wait for one minute and place cable loop in the Curt-O-Matic load slot.

## Trouble Shooting

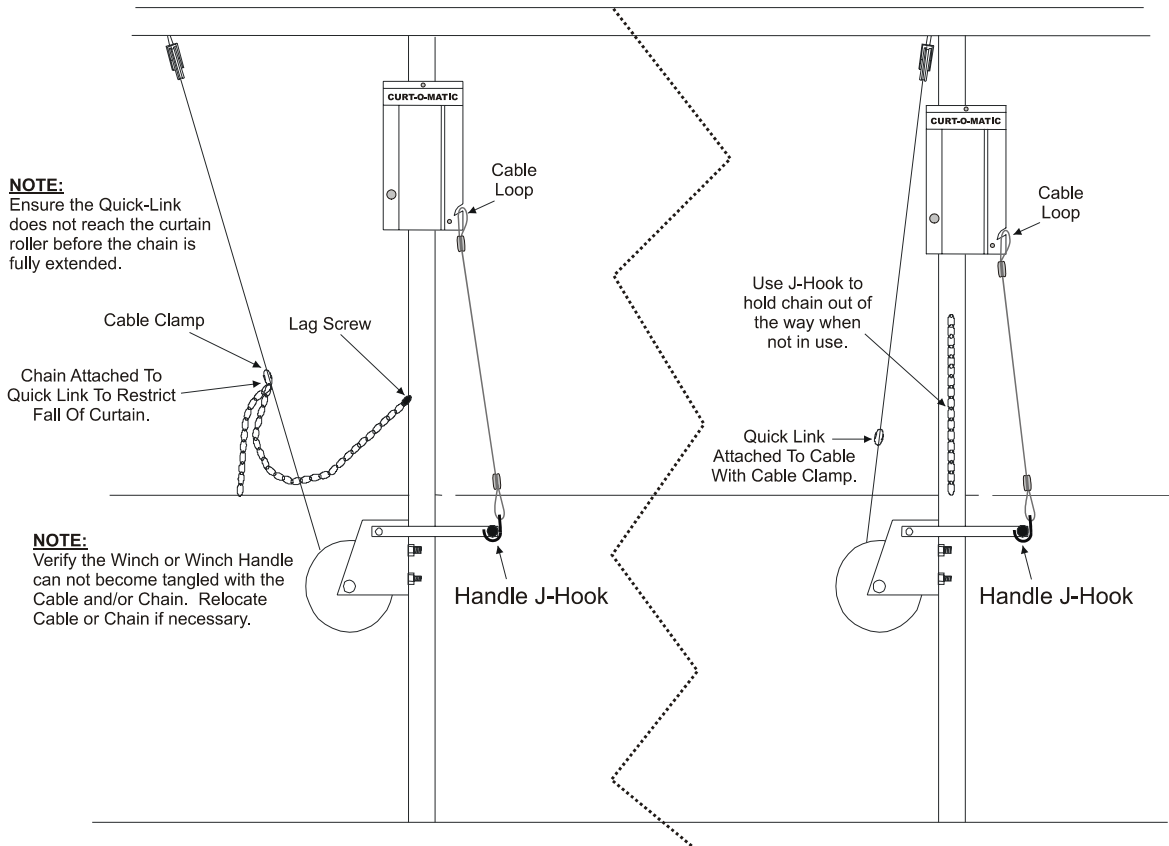
If the trip arm releases too soon, allow the finger to completely cool then expand expansion finger to where it will just enter heater hole freely at room temperature. If the trip releases too late, compress expansion finger slightly.

Do not insert the adjustable finger into the Curt-O-Matic when any resistance to insertion is felt. When the finger is completely cool, the trip arm must be allowed to fall freely without resistance.



### CAUTION

To allow proper finger adjustment and prevent a burn hazard, ensure that the Expansion Finger is completely cool before adjustment is attempted.



**Figure 4**  
**Chain Adjustment Kit Application**



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### CM-2 PRODUCT NUMBERS

Part #	Model	Description	Electrical
6608-0100	CM-2-120-K-0	CM-2 120V 50/60 Hz	120v, 50/60 Hz
6608-0101	CM-2-120-K-S	CM-2 120V 50/60 Hz, Single with T-Stat Assy	120v, 50/60 Hz
6608-0102	CM-2-120-K-D	CM-2 120V 50/60 Hz, Double with T-Stat Assy	120v, 50/60 Hz
6608-5005	CM-2-208-X-S	CM-2 208V 50/60 Hz, Single with T-Stat Assy	208v, 50/60 Hz
6608-5006	CM-2-208-X-0	CM-2 208V 50/60 Hz	208v, 50/60 Hz
6608-0105	CM-2-240-X-0	CM-2 240V 50/60 Hz	240v, 50/60 Hz
6608-0106	CM-2-240-X-S	CM-2 240V 50/60 Hz, Single with T-Stat Assy	240v, 50/60 Hz
6608-0107	CM-2-240-X-D	CM-2 240V 50/60 Hz, Double with T-Stat Assy	240v, 50/60 Hz

### CM-3 PRODUCT NUMBERS (Used with Alert Alarm III, Farm Hand Alert Alarm, or other Systems)

Part #	Model	Description	Electrical
6608-0110	CM-3-120-K-0	CM-3 120V 50/60 Hz	120v, 50/60 Hz
6608-0113	CM-3-120-K-S	CM-3 120V 50/60 Hz, Single with T-Stat Assy	120v, 50/60 Hz
6608-0114	CM-3-120-K-D	CM-3 120V 50/60 Hz, Double with T-Stat Assy	120v, 50/60 Hz
6608-0115	CM-3-240-X-0	CM-3 240V 50/60 Hz	240v, 50/60 Hz
6608-0118	CM-3-240-X-S	CM-3 240V 50/60 Hz, Single with T-Stat Assy	240v, 50/60 Hz
6608-0119	CM-3-240-X-D	CM-3 240V 50/60 Hz, Double with T-Stat Assy	240v, 50/60 Hz

### Accessories:

Part #	Model	Description
1503-1508	CBL SJT 18-3 Black	Cable, 18 AWG, 3 Conductor
6450-1220	/Kit IK CM Single	Installation kit for CM Single
3005-0102	T-STAT, T19SB-1C SS single SPDT	Stainless Steel Thermostat
3005-2130	TSTAT, T19PC-3C C/F Liquid Tight	Water-Tight Thermostat
6614-2290	TSTAT Assy, T19PC-3C 20' PBC F/C	Thermostat Assembly w/Cord for 120v only

### Hardware Parts List:

Part #	Description	Quantity (for SINGLE Kit)	Quantity (for DOUBLE Kit)
6450-1220	Curt-O-Matic Single Kit	↓ All parts below ↓	
6450-1002	Curt-O-Matic Double Kit		↓ All parts below ↓
6408-2228 or 1030-1383	Winch Handle J-Hook, 3/4"	1	2
0404-1026	Lever Winch Release	1	2
1003-1463	Fender Washer, 3/16 (for Lever)	2	4
1004-1386	Screw, Hex, 10-12 x 1 (for Lever & CM Mounting)	3	4
6408-1223	Cable Assy 1/16 x 5 ft.	1 Assembly	2 Assemblies
1031-1486	Wire Rope/Cable, 1/16 – 1 x 7	1 @ 5 ft.	2 @ 5 ft./ea
1015-1472	Swedge 1/16 (Crimp Sleeve for Wire Rope)	2	4
1004-1397	Lag Screw Eye, 1/4 x 1 1/2 (Eye Cable Guide)	2	6
1006-1501	Chain	1 @ 4 ft.	2 @ 4 ft./ea
1012-1467	Quick Link, 1/4	1	2
1015-1469	Cable Clamp, 1/8	1	1
1004-1392	Lag Screw, 3/8 x 2", Hex	1	1
1004-1222	Screw Hook, 8-15 x 2 round bent	1	1
1001-1456	3/8-16, Hex Nut (for house Corner Brkt.)	1	1
3006-1535	Wire Con. Nut, Blue (for CMIII Switch Hookup)	3	3