Dor-O-Matic®

# Opti-Guard™ Camera System

## Installation Instructions


**DOR - O - MATIC®**
7350 W. Wilson Ave.
Harwood Heights, IL 60706

| | |
|---|---|
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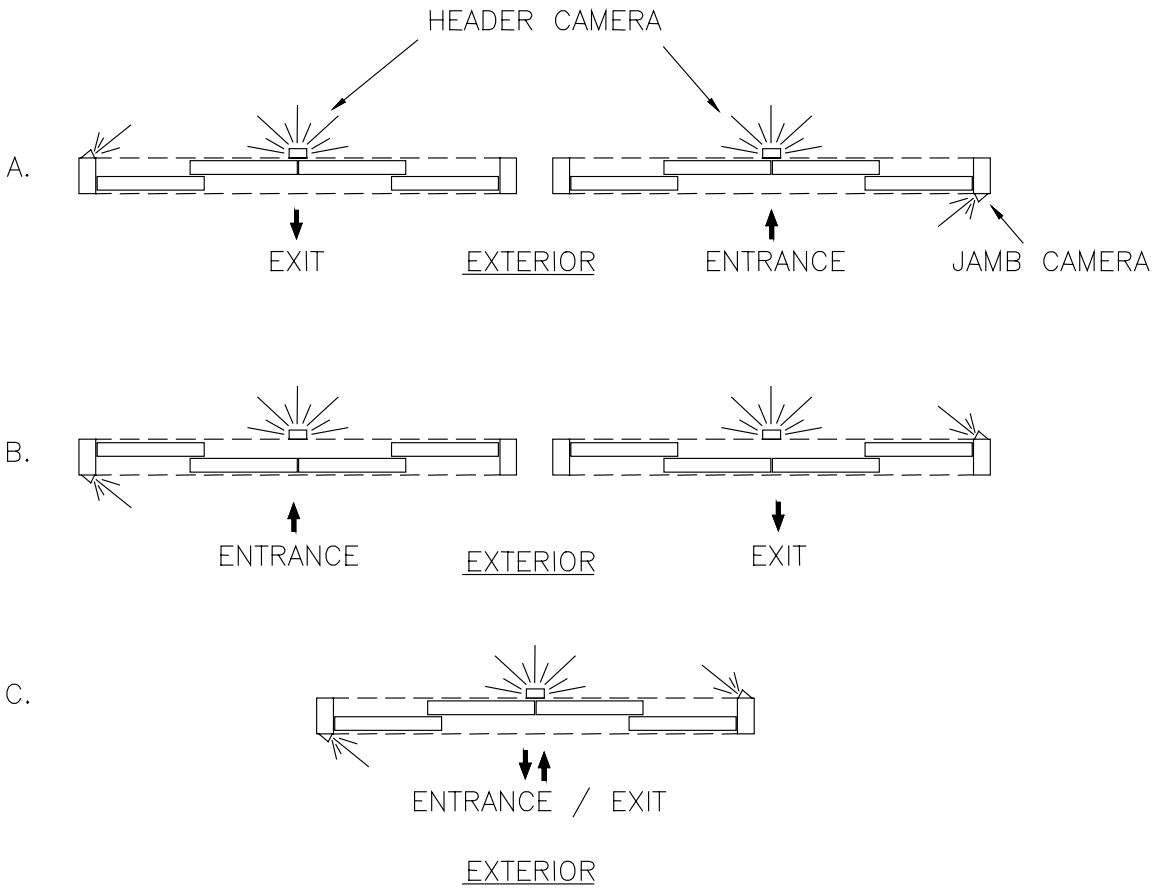
| Tech Support: | 888-942-9945 |
| Sales FAX: | 708-867-0291 |

www.doromatic.com

*THE CAMERA PACKAGE*



RECOMMENDED CAMERA LOCATIONS



**INTRODUCTION**

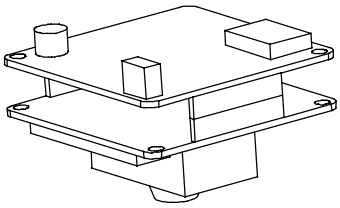
The 81958-900 Camera Package combines high-resolution and color to provide superior security and safety for an automatic sliding door system. For this purpose, each application contains a 3.5 mm pinhole camera with a wide range of sight for maximum viewing purposes.

**TECHNICAL SPECIFICATIONS**

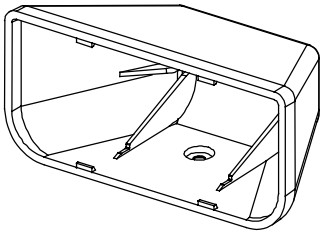
| | |
|---|---|
| Horizontal Resolution | 450 TV Lines |
| Pick-up Device | 1/3" Interline CCO |
| Scanning System | 625 interlaced (NTSC)<br>625 interlaced (PAL) |
| Synchronization | Internal |
| Output Signal | Standard composite signal 1VPP composite video in at 75 ohms |
| Light Sensitivity | 3 Lux (Scene) |
| Electronics Iris | 1/60~1/100,000 (NTSC)<br>1/50~1/100,000 (PAL) |
| Signal to Noise Ratio | 46 db or more (AGC off) |
| Gamma | 0.45 |
| AGC | On (4-26dB Max) |
| Power Consumption | W/ Line Lock 2.44W or less<br>W/o Line Lock 2.22W or less |
| Ambient Temperature<br>• Operation<br>• In Storage | <br>-10° to +55° C<br>-20° to +70° C |
| Relative Humidity<br>• Operation<br>• In Storage | <br>- under 90% non-condensing<br>- under 95% non-condensing |
| Supply Voltage | 12VDC |
| Power Supply | 120VAC, 50/60 Hz |
| Mounting Height | 52" from finished floor |
| Dimensions<br>• Header Camera<br>• Jamb Camera | <br>1.85"H x 3.56"W x 1.65"D<br>2.55"H x 1.63"W x .50"D |
| Housing Material | Thermoplastic ABS |
| Color of Housing | Standard black bead blasted to MT11000 |
| Cable Lengths<br>• Header Camera<br>• Jamb Camera | <br>26' w/ transom, 22' w/o transom<br>16' w/ transom, 12' w/o transom |
| Weight | 26 grams |

**COMPONENT ID: PER DOOR PACKAGE**

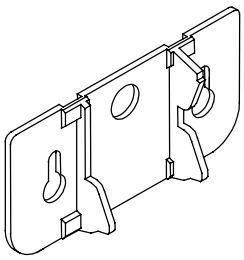
81953-600: QTY 2
Hi-Resolution Color Camera



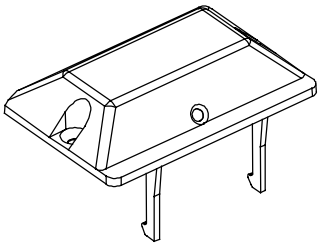
81983-600: QTY 1
Header Camera Housing



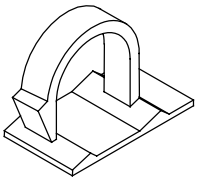
81986-600: QTY 1
Header Camera
Backplate



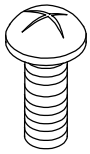
81987-600: QTY1
Jamb Camera Bracket



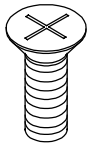
81314-600: QTY 6
Cord Clip



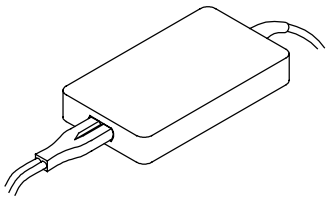
4299100789: QTY 2
Round Head Screw,
Thread-forming
Header Camera Mounting



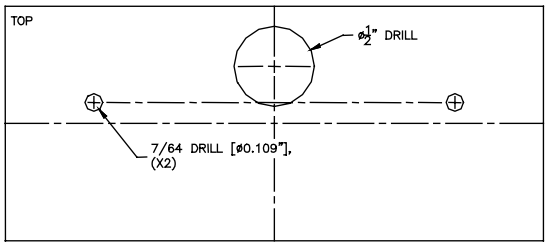
65507-680: QTY 2
Flat Head Screw,
Thread-forming
Jamb Camera Mounting



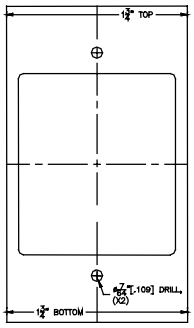
81959-600: QTY 1
Power Source Kit



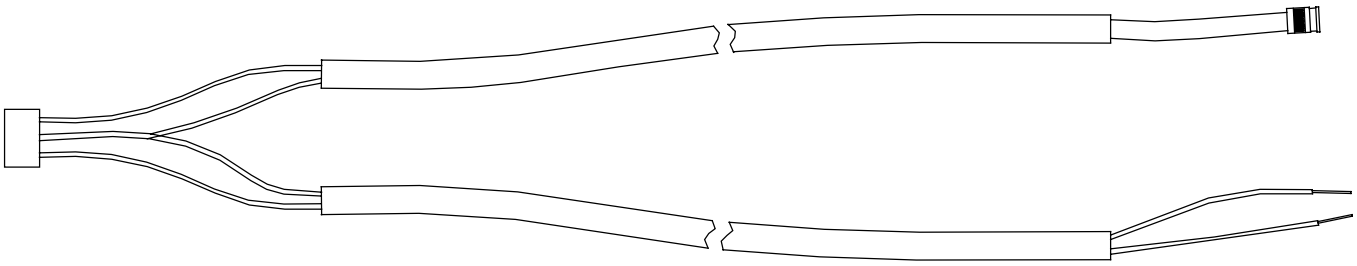
81955-084: QTY 1
Header Camera Template




81957-084: QTY 1
Jamb Camera Template




81954A600 (26FT), 81954B600 (16FT) OR 81954C600 (22FT), 81954D600 (12FT)
Video/Power Cable
(lengths dependent on package with or without transom)



**SAFETY PRECAUTIONS**

- Shut off all power going to the header before you begin.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing test that may result in unexpected reactions by the door.
- Always check placement of all wiring before powering up to insure that moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards upon completion of installation.

**HEADER CAMERA INSTALLATION**

1. Locate the center of the door opening on the header cover. Header Camera may be off center due to any presence or motion sensors that may currently exist.
2. Remove the header template from the packaging and apply to the surface. FIG. 1

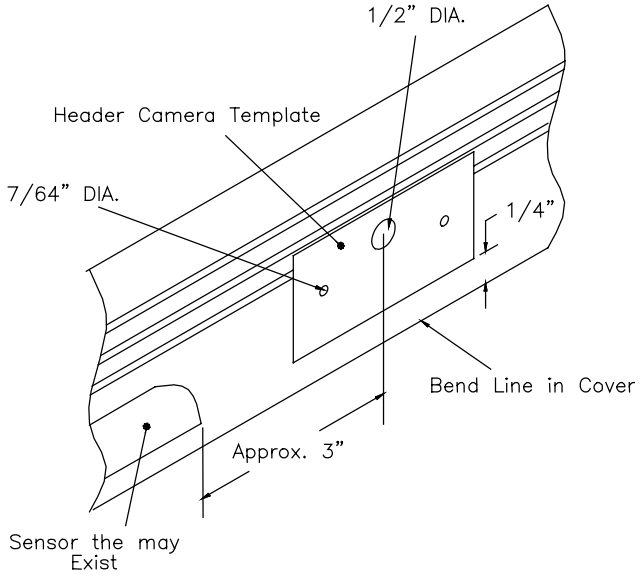



**FIG. 1**

3. Center-punch and drill ½" diameter hole for wire passage, and 7/64" pilot holes for screws, as marked on template. Remove and discard template.
4. Remove the header camera mounting screws from their packaging and screw them into the 7/64" pilot holes, leaving a minimum of 1/8" distance in between the screw heads and the header surface.
5. Remove the backplate from its packaging and position the clearance holes over the screws. Place backplate against the header surface. Slide downward for proper positioning and fasten screws carefully. DO NOT overtighten or back plate may be damaged.
6. Carefully remove 1 of the color cameras, the housing, and video/power cable (12ft for doors without transom option, 16ft for doors with transom) from their packaging. Insert cable end through wire passage hole on header cover and backplate as shown in FIG. 2.

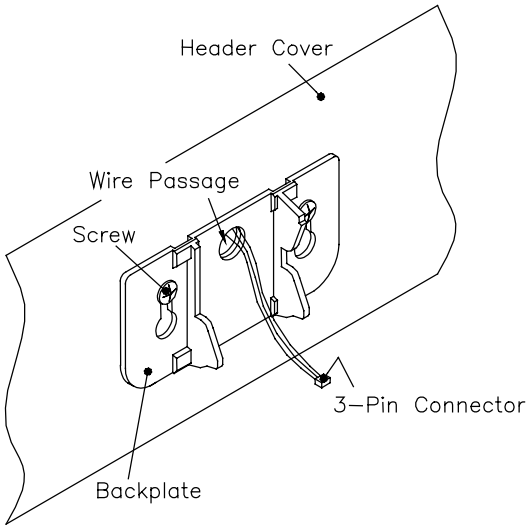



**FIG. 2**

7. Attach cord clips on inside of the header cover to support the weight of the cable, then snap the black coaxial end into the loops. Plug the cable into the 3-pin connector on the camera circuit board, then insert the camera into the housing as shown in **FIG. 3.** Be sure to align the camera eye with the “peep” hole on the housing.

   Note: If connector is not in correct position, camera may be damaged.

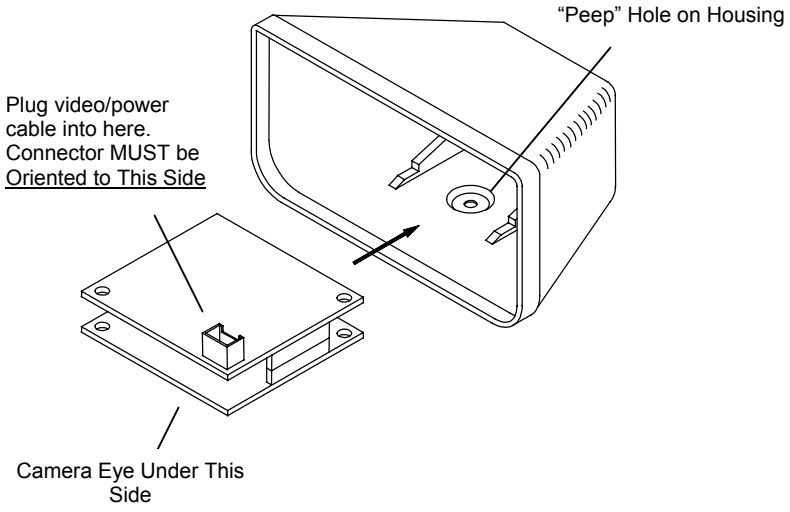



**FIG. 3**

8. Once the camera is properly positioned inside the housing, snap the housing onto the backplate. Be careful not to pinch the cable**.** FIG. 4A and 4B

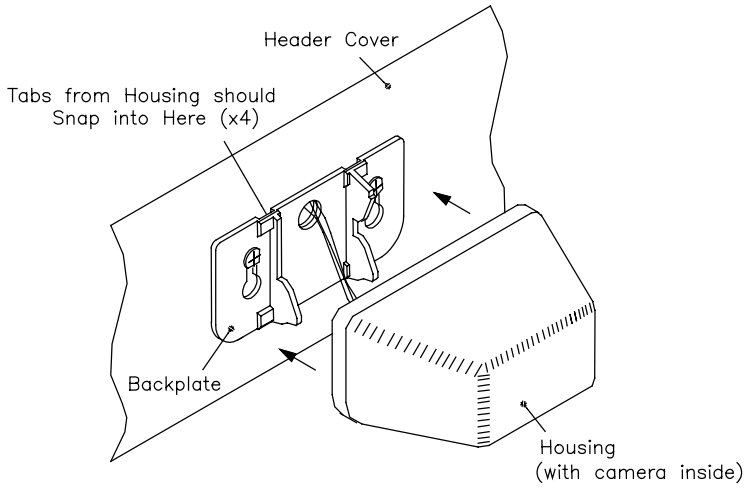



**FIG. 4A**

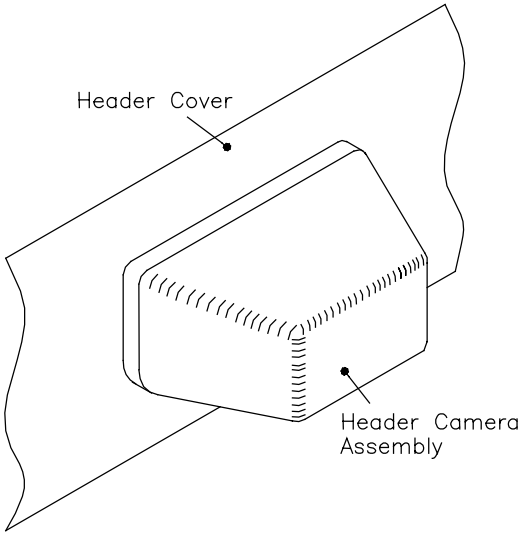



**FIG. 4B**

9. That completes the installation of the Header Camera Assembly. The next step is to run the thin, red and black cables from the previously attached clips on the back side of the header cover, through the cable channel in the header extrusion (as shown in FIG. 5) and across the header into the area between the transformer and the tensioner pulley. FIG 6

   NOTE: Attach cord clips as needed to the header. Allow some slack for the header cover to be opened. However, ensure that excess cable does not interfere with moving parts.

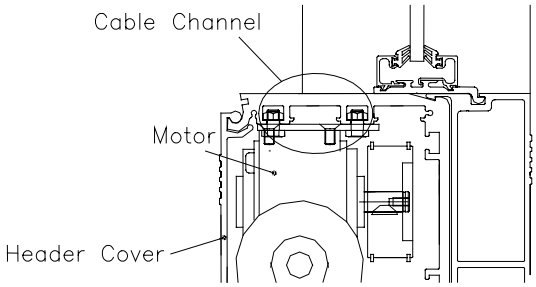



**FIG. 5**

10. Leave the thin red and black cables hanging in between the transformer box and the tensioner pulley. FIG. 6 That's where the power source is to be located. (Described later)

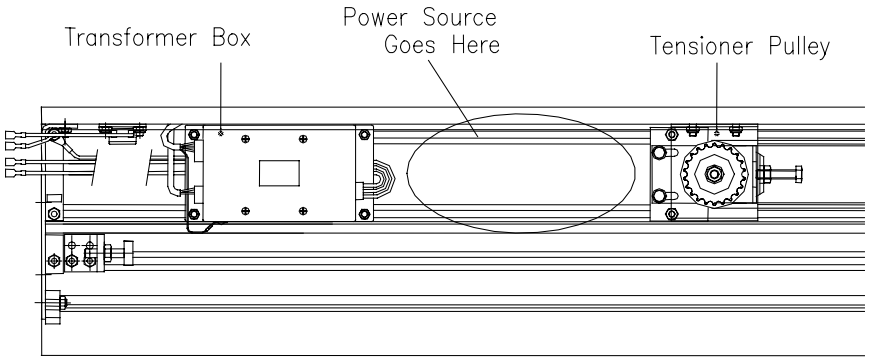



**FIG. 6**

**JAMB CAMERA INSTALLATION**

1. Remove the other camera from its packaging, along with the jamb camera bracket, and the jamb camera template. The center of the template should be positioned on the jamb tube 52" from the finished floor, and centered on the jamb tube.

2. Center-punch and drill (2) 7/64" pilot holes. Using a jigsaw with a 2-3/4" long blade, cut along the rectangular cutout as marked on the template. Keep in mind there may be a pocket in the jamb tube that may cause you to inadvertently bend or break the blade. Be careful of any wires or cables that may exist from key switches inside the jamb tube. Remove and discard template after successful cut.

3. Take the other camera and position it with the connector down onto the jamb camera bracket. FIG. 8. Center the lens onto the "peep" hole and snap them together. Remove the other video/power cable from its packaging and feed the 3-pin connector end through the cable channel on the header then into the jamb tube passing through the holes on the header end brackets (FIG. 7), leaving the end with the BNC connector hanging by the power source location FIG. 6. Once the cable reaches the cutout in the jamb tube, connect it to the 3-pin connector on the camera circuit board. FIG. 8

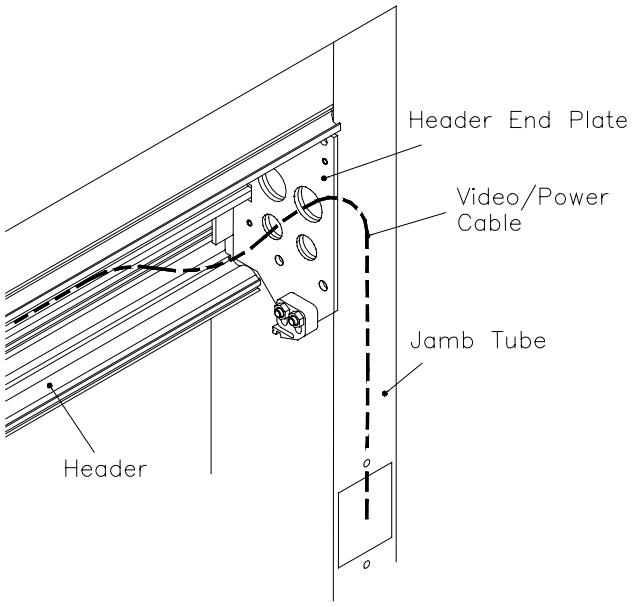



**FIG. 7**

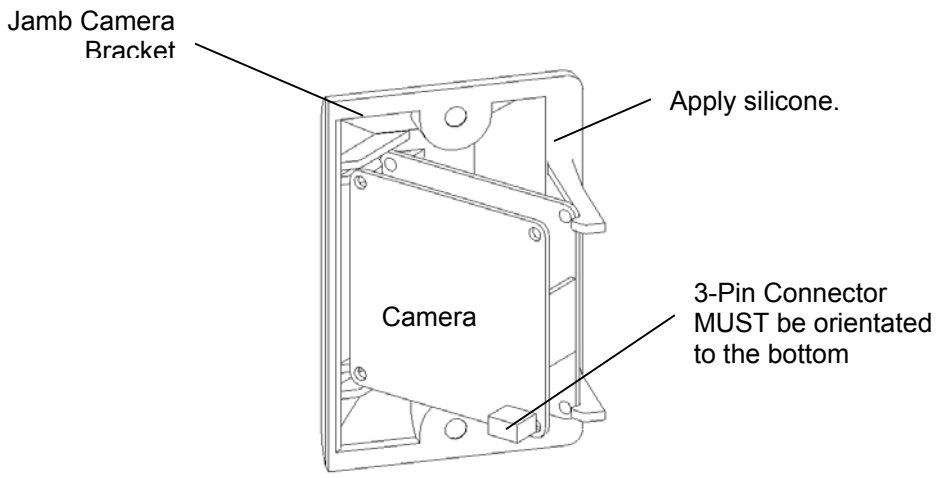



**FIG. 8**

4. Apply clear silicone caulk around all the edges for weatherproofing (FIG. 8), and then screw the assembly into the new cutout and holes using the 2 thread-forming jamb camera screws supplied with the kit.

   NOTE: The positioning of the white connector on the camera circuit board defines whether the image displays correctly or if it is upside-down.

**POWER SOURCE INSTALLATION**

1. Remove the Power Source Kit from its packaging, then remove the adhesive backing from the ½" thick tape located on the backside of the black power source box. Center the power source box between the tensioner and transformer and press firmly against the surface to ensure that the tape sticks. FIG. 6

   NOTE: Be sure you turn off all power to the header before connection of the power source box.

2. Cut and strip both camera cables (as required) to connect to the power supply as shown in FIG 9. Use (2) orange wire nuts to make the connections.

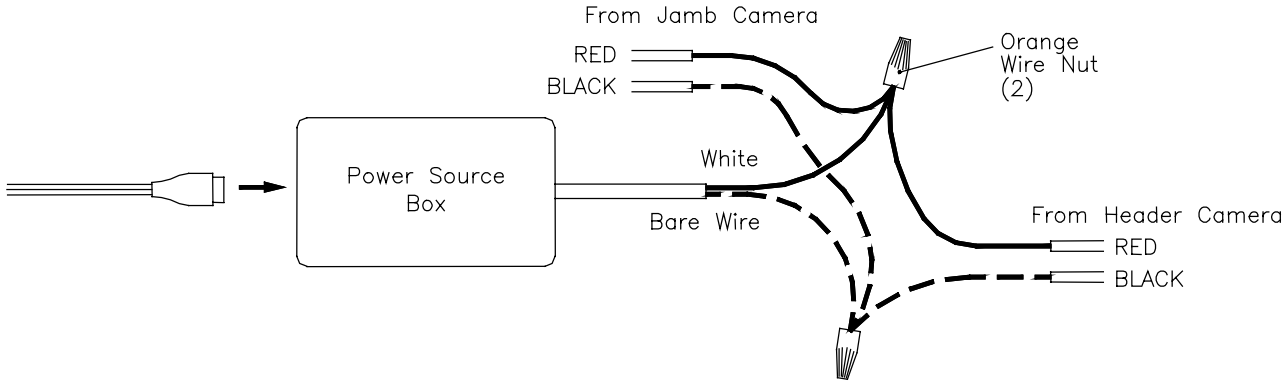



**FIG. 9**

3. Attach the input wires of the power source box to the terminal block located next to the transformer box. FIG. 10

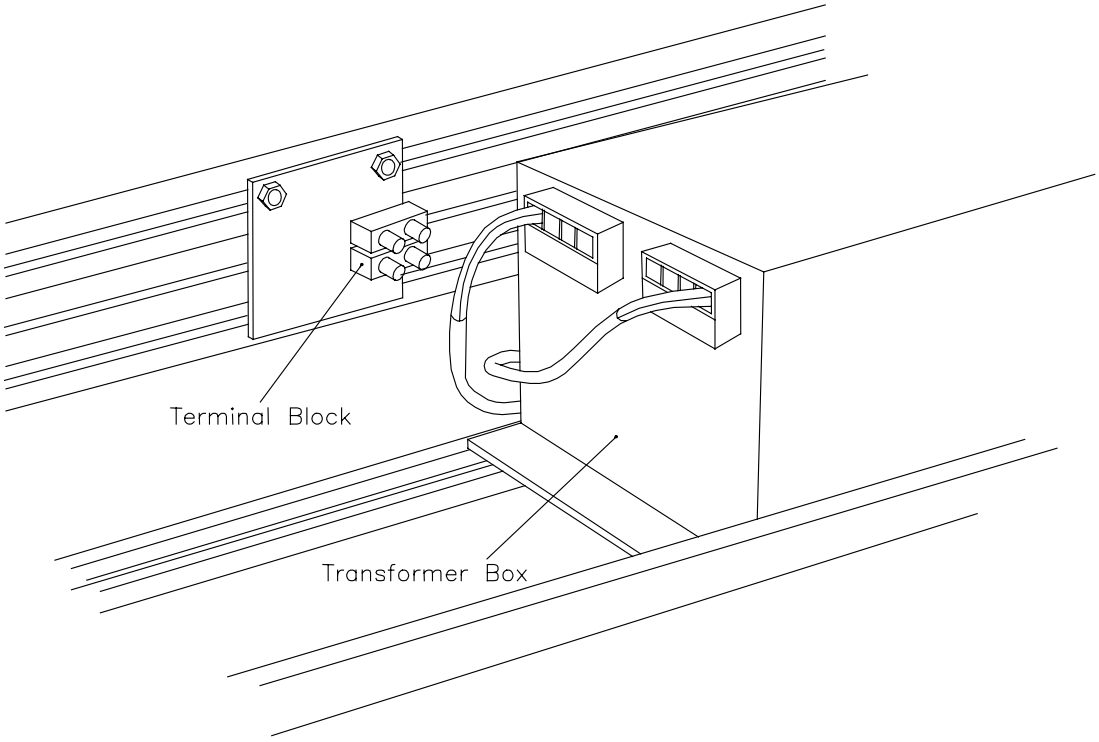



**FIG. 10**

NOTE: If a different method of connecting the power is chosen, (2) extra wire nuts are supplied. Apply cord clips wherever they may be needed, so that nothing interferes with the movement of the doors or drive belt.

4. Take the BNC connector end of both cables and connect them to the existing junction box. This will be the video feed to the monitoring devices. If a different connection into the junction box is required, an adaptor may be available upon request.

For assistance, please call Dor-O-Matic Tech Services at (888) 942-9945 for any trouble shooting. **DO NOT** leave any problem unresolved. If you must wait for the following workday to call Dor-O-Matic, the door can still operate normally until satisfactory repairs can be made, WITHOUT any video capturing.