INSTALLATION INSTRUCTIONS
MODELS (-)XRX-BGF05
ECONOMIZER POWER EXHAUST

⚠WARNING

This installation shall be carried out by a manufacturer's authorized representative, in accordance with the requirements of the manufacturer. Failure to follow instructions can result in fire or explosion, causing property damage, severe personal injury, or death. The qualified service personnel performing this work assumes responsibility for this installation.

IMPORTANT

Damage to the product, resulting from failure to follow instructions or use of unauthorized parts, may be exclude from the manufacturer's product warranty coverage.

⚠WARNING

Turn off electrical power and turn off main gas supply before beginning modification. Failure to do so can cause electrical shock, explosion, or fire, resulting in property damage, personal injury, or death.

TOOLS REQUIRED FOR INSTALLATION:
3/8" electric drill with 5/16" socket
1/8" diameter drill bit for sheet metal.

PACKAGE CONTENTS		(-)XRX-BGF05 Power Exhaust C, D, Y Voltage
ITEM	**DESCRIPTION**	**PART No.**
1	Power Exhaust Assembly	6046516 / PEA
2	Fan Blade	6046516 / 3465
3	Fan Motor 208-230 volt / 1 phase(C)	6046516 / 3677
4	Fan Motor 460 volt / 1 phase (D)	6046516 / 3694
5	Fan Motor 575 volt / 1 phase (Y)	6046516 / 3690
6	Relay (R1)	6046516 / 3400
7	Fuse Block	6046516 / 3370
8	Barometric Relief Adaptor	6046516 / ADP

INSTALLATION

1. Remove return cover. **See Figure 1.**
2. Connect new wire harness in control box back (View A) and route above economizer. **See Figure 2.**

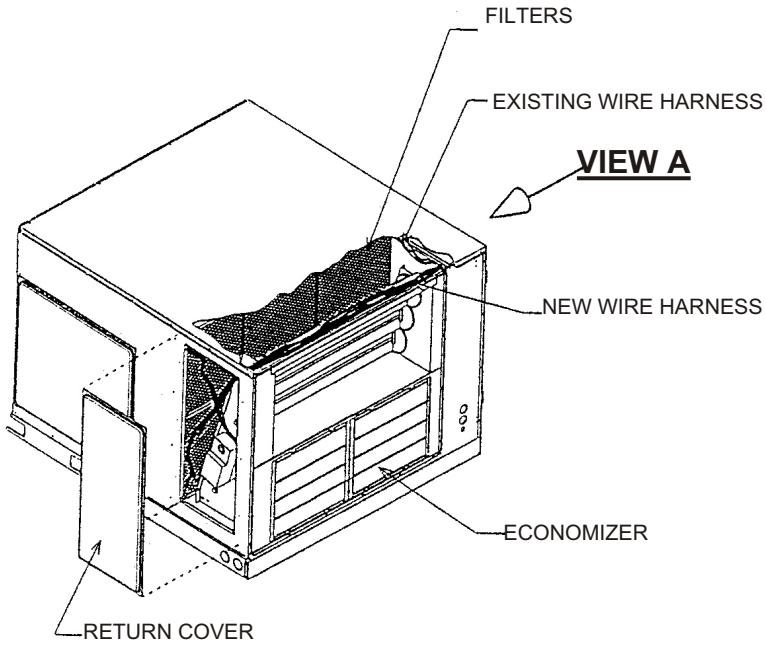


FIGURE 1

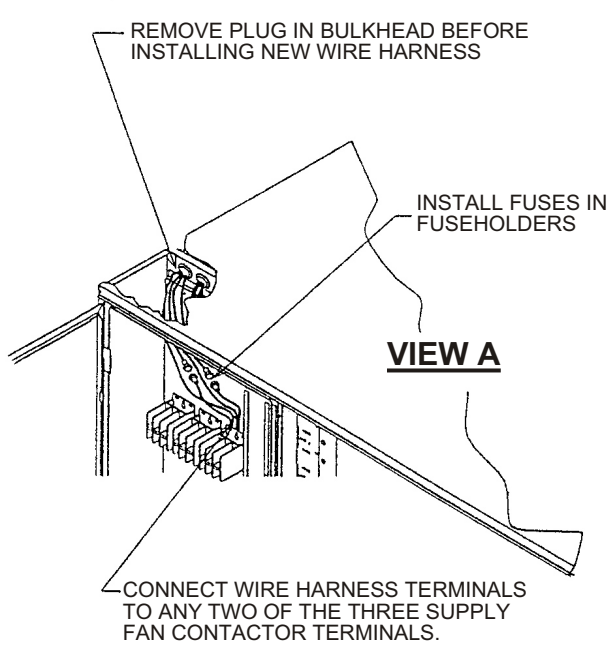


FIGURE 2

3. Remove relief dampers from economizer. **See Figure 3.**
4. Connect power exhaust wiring:

   Plug in control connections from power exhausts to existing connections provided on economizer.

   Remove small rectangular cover beside control connections on economizer and discard **(Figure 2).**

   Use screw that was removed in previous step to attach ground terminals on wire harness.

   Plug in power connections through the rectangular holes revealed when the cover was removed.
5. Route power and control connections under divider panel using line clamps provided to take up excess slack in wiring harness and avoid contact between fan blades and wiring harness during operation (**Figure 4**). secure each power exhaust with (4) screws (2 in top flange and 2 in bottom flange).
6. Connect ends of new wire harness to power connections. **See Figure 4.**
7. Reinstall relief dampers.
8. Reinstall return cover.
9. All units are factory shipped for high speed. for changing to low speed, see notes section on wiring diagram.

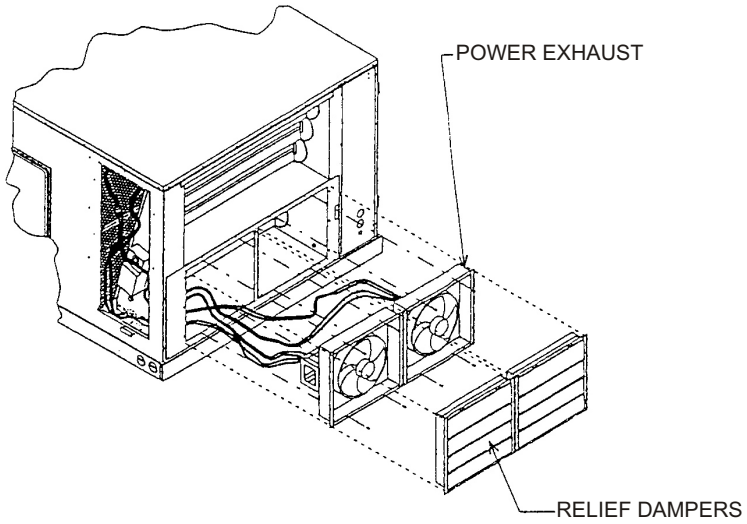


FIGURE 3

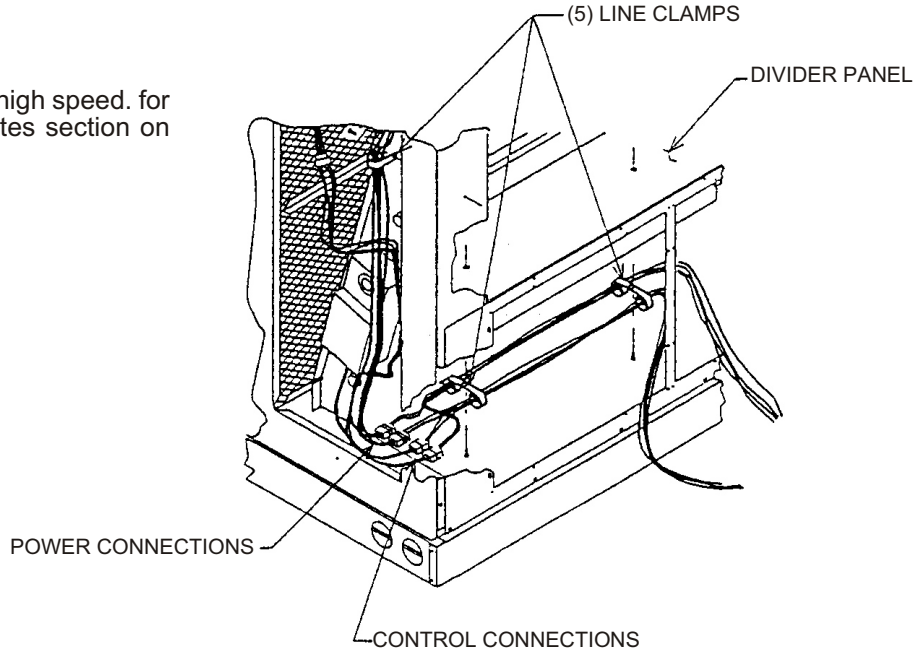


FIGURE 4

E# = WIRE END DESIGNATION

E2 STUD #6 18 Ga. Wire
E3 Female ¼ Quick Disc.
E4 Male ¼ Quick Disc. Insul
E6 Wire Nut Size 73B

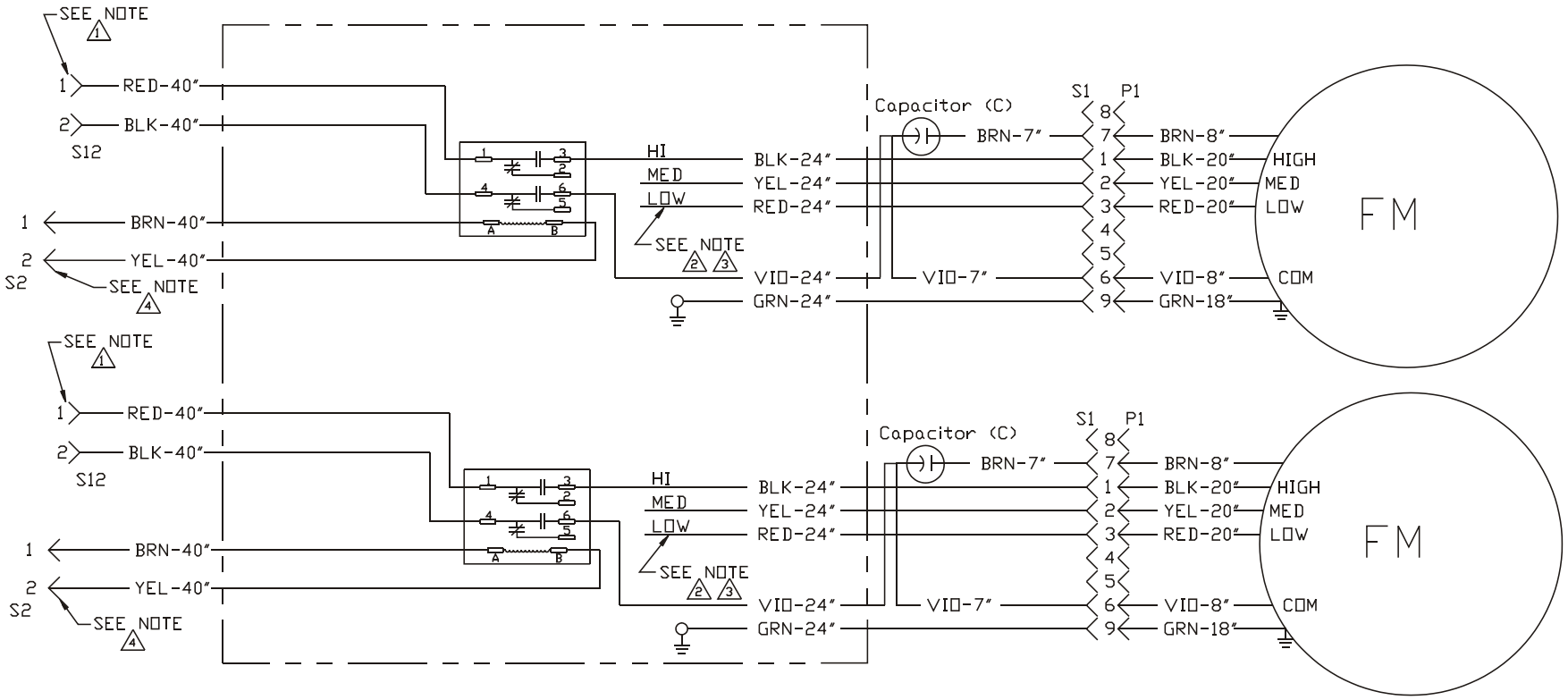
HARNESS LEADS ARE 14 GA. WIRE WITH NO END DESIGNATION

COMPONENT CODE

WIRE COLOR CODE

BLK	Black
BLU	Blue
BRN	Brown
GRN	Green
GRY	Gray
ORG	Orange
RED	Red
VIO	Violet
YEL	Yellow

Revision	Change	Date
ECN 3032	Changed wiring diagram	08-18-09



CONNECTOR & CONTACT CONFIGURATION
P1 (303903) PLUG - (303912) PIN
S1 (303904) CAP - (303913) SOCKET

Notes:
1. Connect **J12** to **S12** at economizer. High voltage harness.
2. A. Power Exhaust wired for **High** speed.
   B. For **Med** speed disconnect **BLK** at relay (3).
   C. For **Low** speed disconnect **BLK** at relay (3).
3. **Be sure all leads from motor have been covered with tape.**
4. Connect **J2** to **S2** at economizer. Low voltage harness.

208-230/460/575 Volt 1 Phase Power Exhaust for RKNL / RLNL 180-300

RUSKIN® ROOFTOP SYSTEMS
2405 McIver Lane
Carrollton, Texas 75006
Phone: (972) 247-7447
Fax: (972) 243-0940

Date: August 18, 2009
Supercedes: 06-29-09
Drawn by: MGL
Unit #: 60-465-16-21/31/41
Diagram#: 604651641w
Approved by: