

# INSTRUCTION SHEET



**KEPCO** An ISO 9001 Company.

**KIT  
219-0645**

## DB 37 CONNECTOR TO EUROBLOCKS (WITH SHELL) ADAPTER KIT

### 1. DESCRIPTION

This kit contains an adapter assembly (see Figures 1 and 2) that provides a convenient means of making discrete wiring connections to the 37-pin DSUB I/O connector found on RA 60 and RA 90 Series Rack Adaptors and legacy HSP power supplies via four 7-terminal Euroblock headers, labeled TB1 through TB4 (see Figures 3 and 4). This adapter is safe to touch, with the headers completely covered by two halves of a connector shell. Accommodation is made for the wires to exit either straight back or at a 45 degree angle. For finished cable assemblies use mating connectors listed as accessories in the applicable rack adapter or HSP manual.

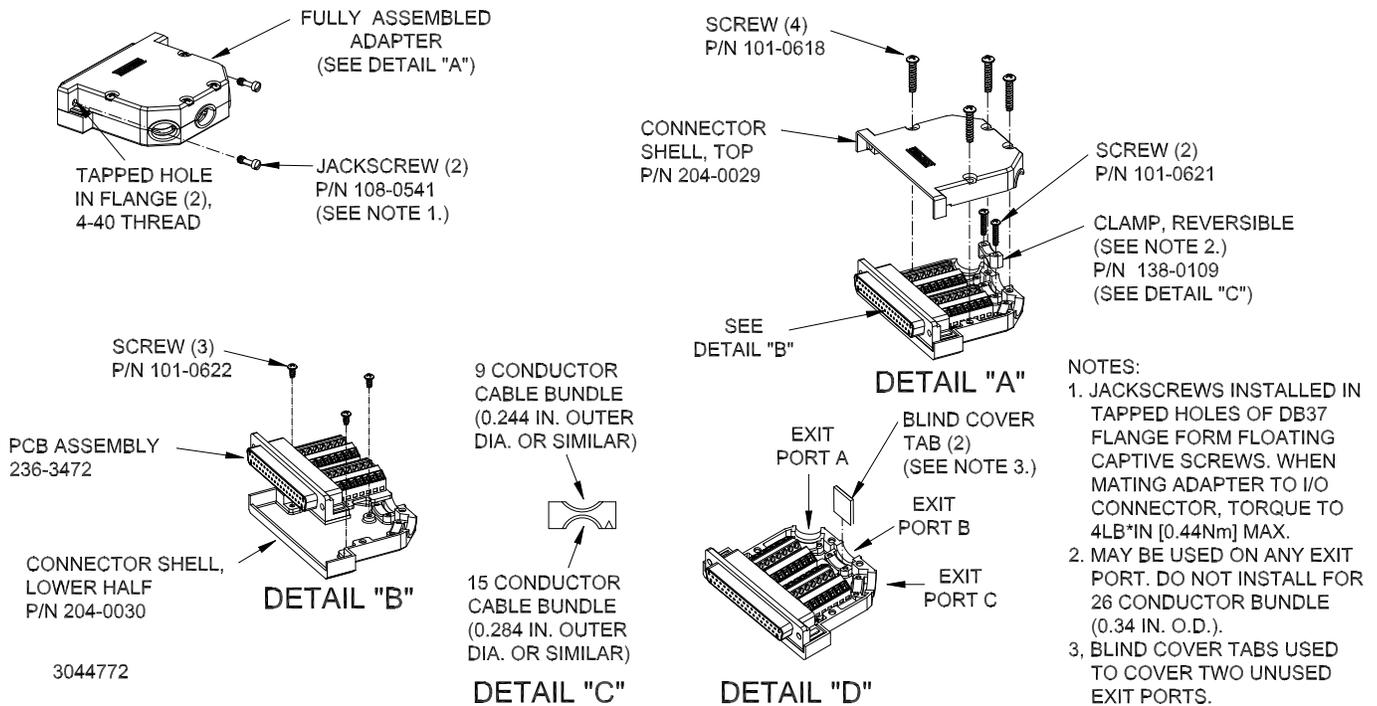


FIGURE 1. KIT 219-0645 ADAPTER ASSEMBLY COMPONENTS

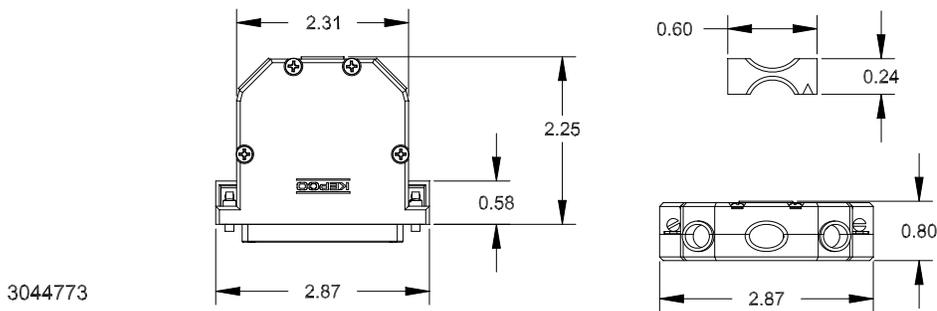


FIGURE 2. KIT 219-0645 ADAPTER ASSEMBLY, OUTLINE DIMENSIONS

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## 2. MATERIAL SUPPLIED (SEE TABLE 1.)

Table 1 lists the contents of this kit and a description of each component.

**TABLE 1. MATERIAL SUPPLIED**

ITEM	DESCRIPTION	TORQUE REQUIREMENT	KEPCO PART NO.	QUANTITY
Screw	Screw (PHPH, 4-20 x 0.625 in., ST ) Used to attach top shell to connector shell lower half,	3 lb*in {0.33Nm}	101-0618	4
Screw	Screw, (PHPH, 4-24 x 0.438 in., ST NA) Used to attach reversible clamp to connector shell lower half,	2.5 lb*in {0.28Nm}	101-0621	2
Screw	Screw, (PHPH, 4-24 x 0.188 in., NA Zinc Pl. ) Used to attach PCB assembly to connector shell lower half	2.5 lb*in {0.28Nm}	101-0622	3
Captive Screw	Jackscrew (FLSL, 4-40 x 0.37 in., ST ) Used to install adapter assembly on I/O connector of rack adapter or HSP.	4 lb*in {0.45Nm}	108-0541	2
Cable Clamp	Used to secure wires. Reversible, for either 9 or 15-conductor bundles.	n/a	138-0109	1
37pin Dsub Connector Shell Top	Part of Adapter Assembly	n/a	204-0029	1
37pin Dsub Connector	Part of Adapter Assembly	n/a	204-0030	1
PCB assembly	Part of Adapter Assembly	n/a	236-3472	1
Tab	Breakaway tab, (labeled Blind Cover) used to block unused exit ports.	n/a	Part of 236-3472	2
Instruction Sheet	Contains instructions for installing KIT 219-0645 components	n/a	228-2013	1
Label	Pin Number - Function Legend (affixed to inner surface of top shell)	n/a	188-3762	1

## 3. WIRING

The unit is shipped partially assembled. Refer to Figure 1 and remove four screws to detach the top shell from the adapter assembly. Refer to Figures 3 and 4 when wiring the adapter and observe the requirements listed in Table 2. Pin functions are also listed on the label found on the inside surface of the top shell. Wires to be inserted in terminals of TB1 through TB4 must be stripped to 0.25 (6mm) and torqued to 1.8 lb\*in (0.2Nm). There are three exit ports formed by the top shell and lower half of the connector shell (see Figure 1, Detail "D"), Wires may exit straight from the adapter (exit port B) or at a 45 degree angle (exit port A or C). The reversible clamp, attached with two screws, is provided for either 9- or 15-conductor bundles (see Figure 1, Detail "C"). For 26-conductor bundles, do not install the clamp; clamping is provided by the two halves of the connector shell. Use breakaway tabs to block the unused exit ports (see Figure 1, Detail "D").

**TABLE 2. WIRING SPECIFICATIONS**

SPECIFICATION	REQUIREMENT
Maximum Voltage	300V
Maximum Current	2A
TB 1 through 4 Euroblock Torque	1.8 lb*in (0.2Nm)
Wire strip length	0.25 in. (6mm)

## 4. ASSEMBLY

NOTES: • The PCB assembly is shipped already attached and properly torqued to the connector shell lower half using three screws as shown in Figure 1, Detail "B."

- The jackscrews are threaded into the flange of the DB 37 connector (Figure 1).
  - The top shell is attached to the PCB assembly at the factory by just a few threads.
  - The reversible clamp is shipped installed in exit port B and the two blind covers are supplied installed in exit ports A and C (Figure 1, Details "A" and "C").
1. To prepare the adapter for the desired configuration remove the top shell and wire the adapter as described in PAR. 3. Torque wire connections to 1.8 lb\*in. (0.2Nm) max.
  2. Choose the desired exit port and configure the clamp for the appropriate wire bundle, For 9- or 15-conductor bundles, install clamp using two screws, torque to 2.5 in\*lb (0.28Nm) max. (see Figure 1, Details "C" and "D"). For 26-conductor bundles, do not install the clamp.
  3. Slide the top shell over the shoulder side of the jackscrews ,and secure using four mounting screws, torque to 3 in\*lb (0.33Nm) max. (see Figure 1, Detail "A").
  4. Install the completely wired and assembled adapter assembly on the I/O connector of the RA 60 or RA 90 Series rack adapter or HSP power supply. Mate adapter to I/O connector, slightly engaging pins and connector flanges, then gradually tighten the two jackscrews, alternating between them, while ensuring they thread smoothly and easily to prevent cross-threading. Once hand tight, torque both jackscrews (captive screws) to 4 in\*lb (0.45Nm) max. (see Figure 1).