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TECHNICAL BULLETIN

TB No. AA-01173

No Revision

April 26, 2002

SUBJECT:

External Hoist Kits

P/N 412-150-100/-200/-300/-400/-700/-750/
-900/-901

MODELS AFFECTED:

Bell 205A-1, 205B, 212, 412, 412EP, 412CF,
Agusta AB412, AB412EP with the subject External
Hoist Kit installed.

DESCRIPTION:

This Technical Bulletin is being issued in response to a report of interference from the Hoist Motor and the backshell of the PC06E-8-4S Connector (Part of 412-160-101 Cable Assembly). This bulletin provides the procedures and identifies the materials required to accomplish a modification to eliminate interferences.

NOTE: The modification in this bulletin is not required if no interference is found between the Hoist Motor and the backshell of the Connector (Ref. Figure 1).

MANPOWER:

Approximately 1.0 hour.

MATERIAL:

The following materials are required to comply with this bulletin:

- 412-187-101 Modification Cable Assy. (Available from Aeronautical Accessories, Inc.)
- MS3367 Tie-down straps (or equivalent)

REQUIRED TOOLS:

None Required

WEIGHT AND BALANCE:

Negligible

PUBLICATIONS AFFECTED:

None affected.

ACCOMPLISHMENT INSTRUCTIONS:

(Breeze-Eastern Hoist –P/N 412-150-100/-200/-300/-400/-700/-750/-900/-901)

CAUTION

The cable cutter squib is considered an electro-explosive device and extreme care should be taken when performing the following steps.

1. Disconnect P11 (PC06E-8-4S) from the Cable Cutter squib located on the level winder of the hoist (Ref. Figure 1).
2. Install the AAI Modification Cable (412-187-101) onto connector as shown in Figure 2.
3. Tie-wrap the Modification Cable to the existing cable in order to take the slack out of the cable (Ref. Figure 2).

CAUTION

Allowing the AAI Modification Cable to hang loosely may result in interference with the operation of the hoist.

4. Install the PC06P-8-4S Connector of the AAI Modification Cable into the Cable Cutter squib (Ref. Figure 1).
5. Perform a system check of the Cable Cutter circuit as follows:
 - a: Disconnect P11 from the hoist motor.
 - b. Turn the aircraft's power on and engage the Hoist Cable Cut circuit breaker (CB1).

- c. Actuate the Cable Cut switch (S-1) located on the pedestal. Using a voltmeter, ensure the voltage across pins A and B of P11 measures 28Vdc. There should also be 28Vdc across pins C and D of P11.
- d. With the Cable Cutter Switch in the OFF position, observe the voltmeter reading while operating each item of electronic equipment installed in the aircraft, one at a time. The voltmeter reading should be a steady 0 volts across pins A and B of P11 and pins C and D of P11.
- e. With the Cable Cutter switch in the OFF position, observe the voltmeter reading with all electronic equipment operating at once. Key all communication transmitters and ensure voltmeter reads a steady 0 volts across pins A and B of P11 and pins C and D of P11.

NOTE

If the voltmeter reads greater than 0 volts or if any deflection by the voltmeter pointer is noted in steps "d" or "e" with the Cable Cutter Switch in the Off Position, reroute the Cable Cutter Wiring away from all other aircraft wiring and repeat steps "d" and "e" until a constant 0 volt reading is maintained.

NOTE

All maintenance of the Hoist System should be accomplished per the appropriate "Breeze-Eastern Corporation, Operation and Maintenance Manual".

- f. With the Cable Cutter switch in the OFF position, disengage the Hoist Cable Cut circuit breaker (CB1) and turn the aircraft's power off.
 - g. Reconnect the P11 connector to the hoist motor.
6. Modification Complete.

Any questions regarding this bulletin should be addressed to:

AERONAUTICAL ACCESSORIES, INC.
PRODUCT SUPPORT
1-800-251-7094

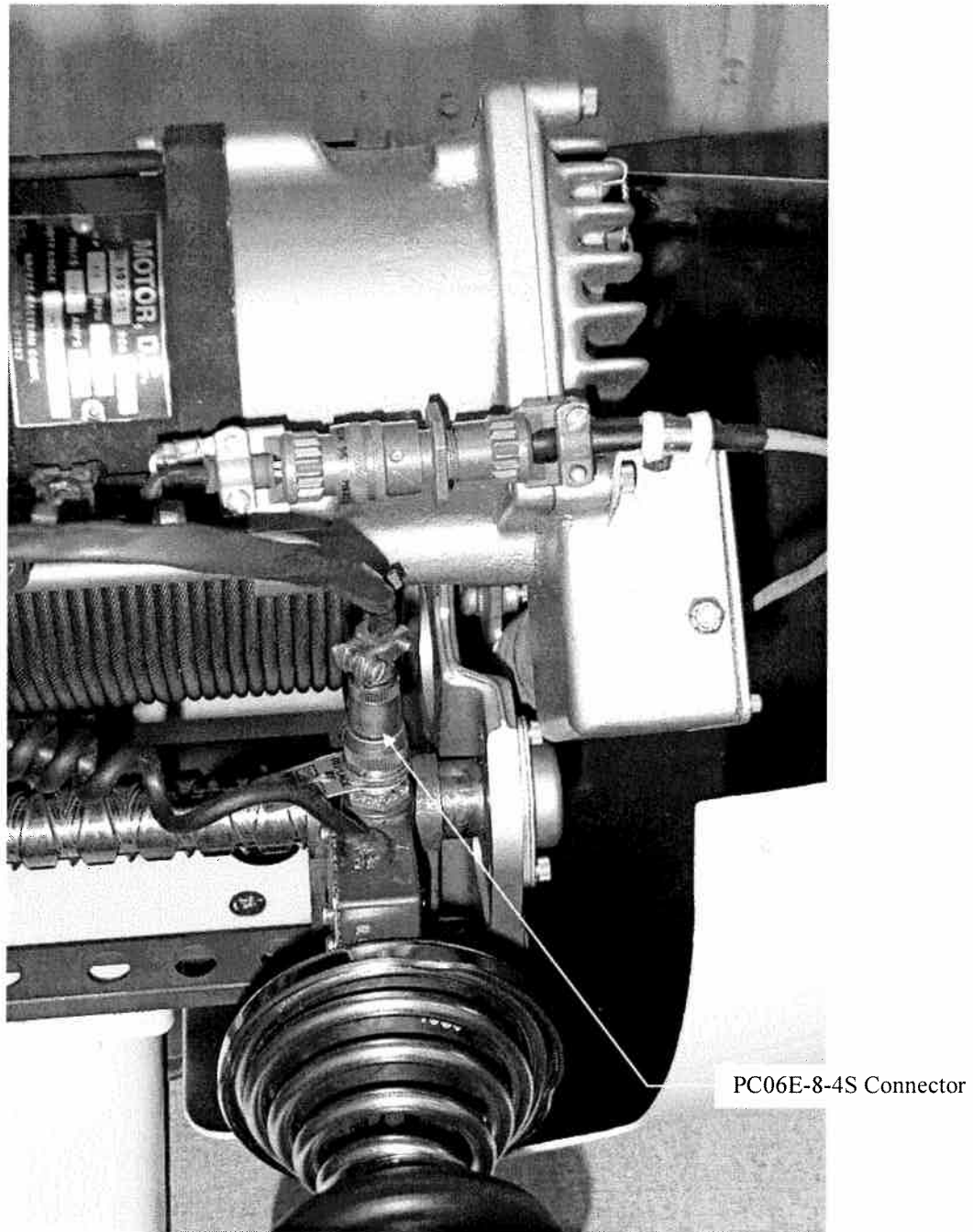


Figure 1

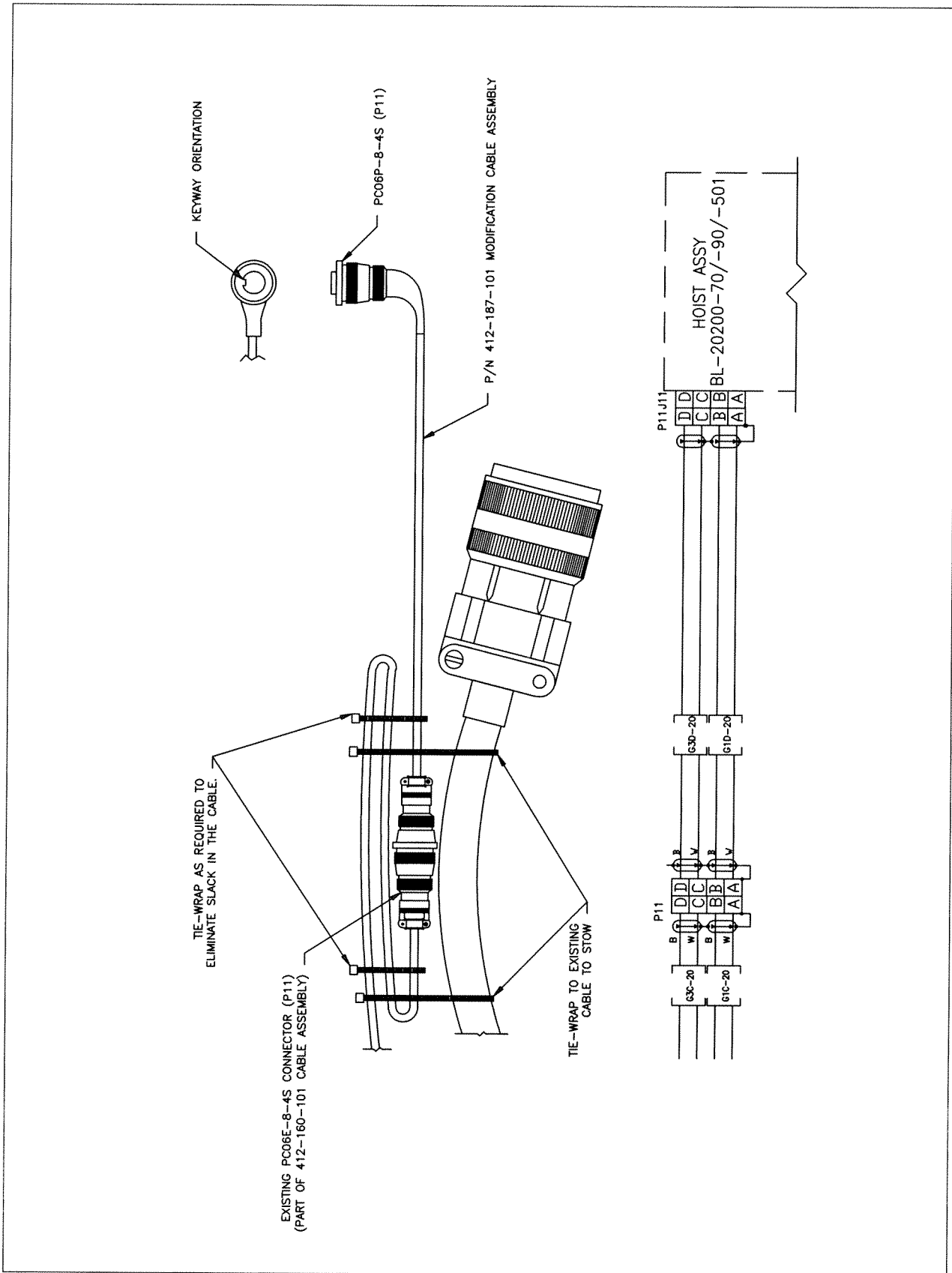


Figure 2

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