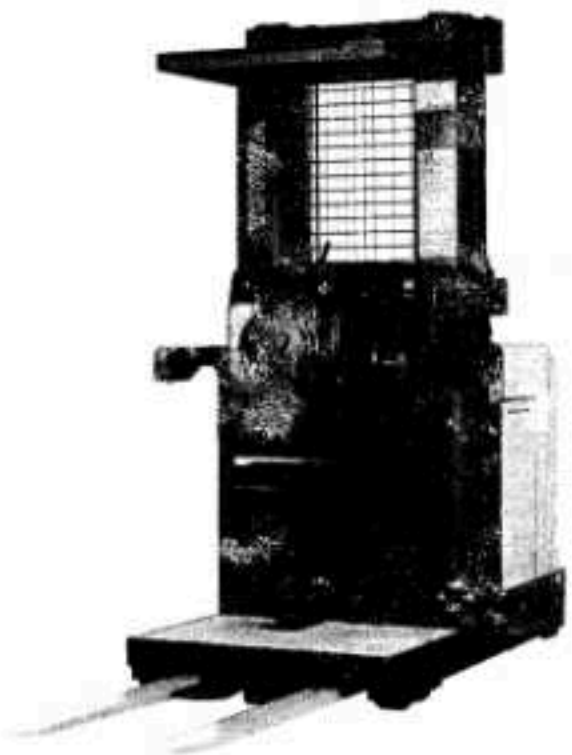
TOYOTA
INDUSTRIAL EQUIPMENT

Service Manual



TOYOTA ORDERPICKER

Model 6BPU15 **Serial No. 70001-79999**

00700-CL221 **Issued: 9/10/98**

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Battery Inspection and Care

NOTE: Read, understand, and follow procedures, recommendations and specifications in the battery and battery charger manufacturer's manuals.

Batteries in industrial lift trucks pick up various kinds of dirt and dust depending on their surroundings and the types of material handled. If cells are overfilled and electrolyte collects on the covers, the following occurs:

1. The top of the battery becomes wet and stays wet, since the acid in the electrolyte does not evaporate.
2. This moist surface, in combination with certain kinds of dirt, becomes electrically conductive and permits stray currents to flow externally over the top of the battery. This degrades battery performance and lift truck operation.
3. The acid also causes corrosion of cell posts, nuts, connectors and the steel battery case.

When inspecting batteries, check the following:

1. Wet covers can indicate overfilling, leaky seals at posts, or excessive gassing during charge. If covers are wet, determine the cause and correct the problem.
2. Make sure batteries cannot move more than 0.5 inches (13 mm) in any horizontal direction. Shim or block to restrain them.

Battery Cleaning Procedure

Refer to the recommended battery manufacturer's guidelines for details.

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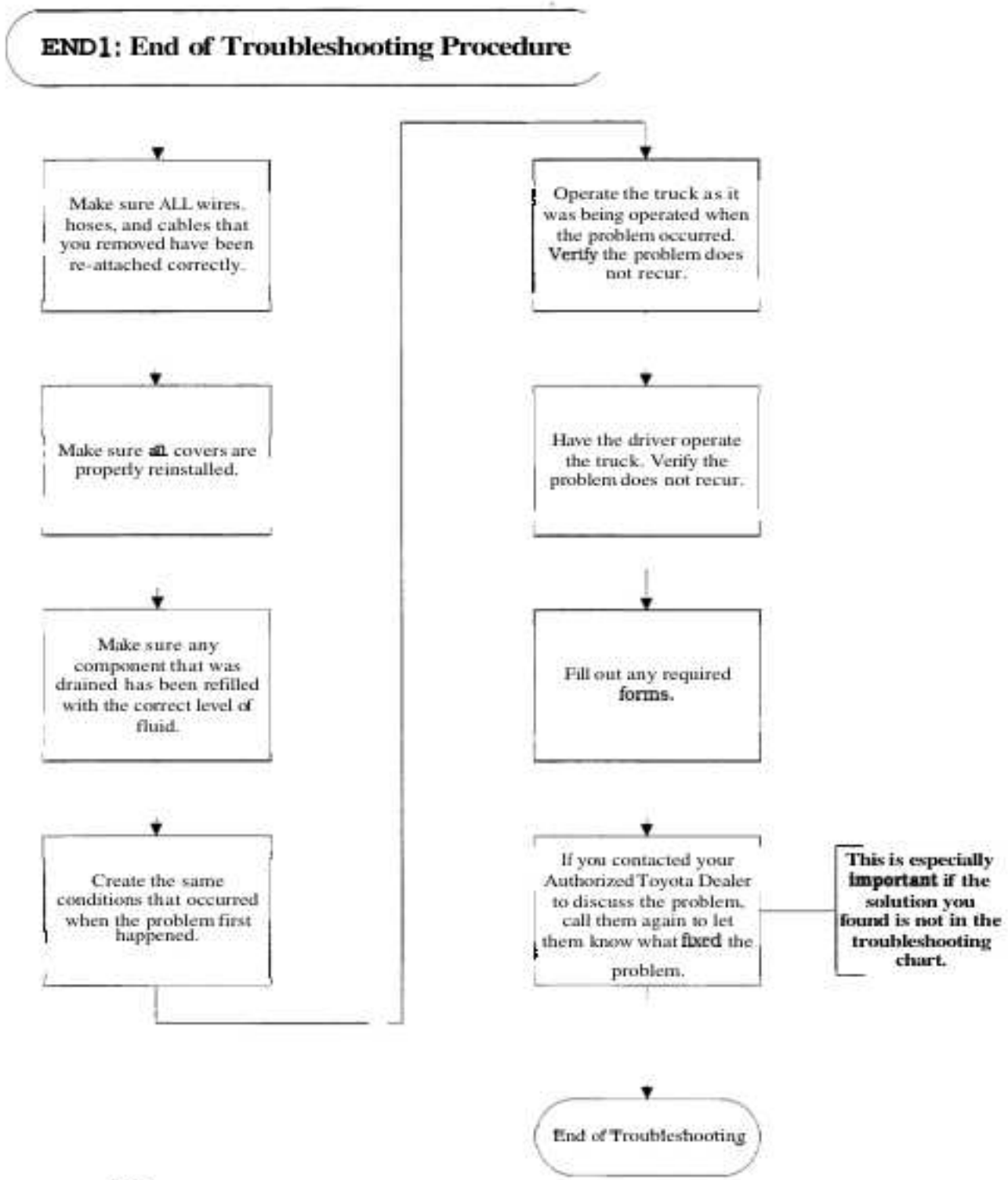
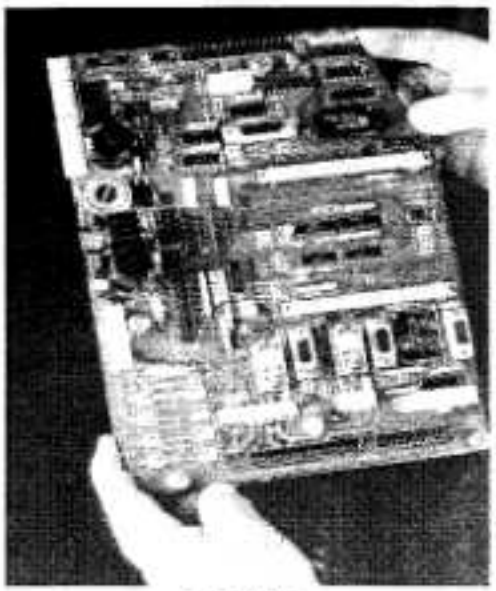
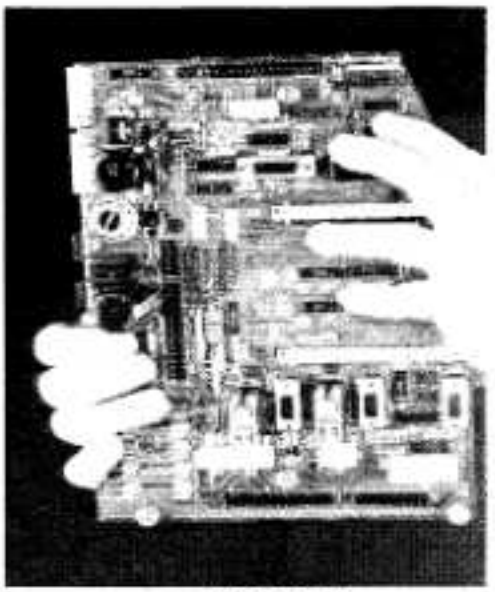


Figure 5-4: END1 End of Troubleshooting Procedure

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PROPER



IMPROPER

Figure 7-3: Proper/Improper Method of Holding Circuit Card

Proper Handling of Static Sensitive Devices

A moving lift truck or electric motor can build up a large charge which will discharge slowly after the truck or motor has stopped moving. It is important that proper precautions be taken to assure that electronic components are not damaged.

To avoid creating a destructive static discharge, the technician should be grounded or discharged BEFORE touching a circuit card.

Before removing a circuit card, disconnect the battery then discharge the truck. Discharge the truck by touching it with your hand or attaching a device to the frame of the truck which is connected to earth ground. The device should have a resistance of 500,000 to 2,000,000 ohms to eliminate any potential for shock hazard.

After discharging the truck. the circuit card may be removed as follows:

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