



8510 AC Spindle Drive Connector Kits

(Cat. No. 8510SA-C20S, 8510SA-C50S)

Instructions

Introduction

All signal interface connections to the 8510 AC Spindle Drive are made through Honda MR series connectors. This publication will provide the information needed to properly install these connectors.

The interface function and the connector kit required are shown below:

<u>Interface Function</u>	<u>Connector Kit</u>
Standard Digital and Analog I/O	8510SA-C50S
Resolver Feedback from Motor	8510SA-C20S
Digital Speed/Position Input	8510SA-C20S
Position Feedback for Spindle Orient	8510SA-C20S
Dual Winding Motor Control	8510SA-C20S

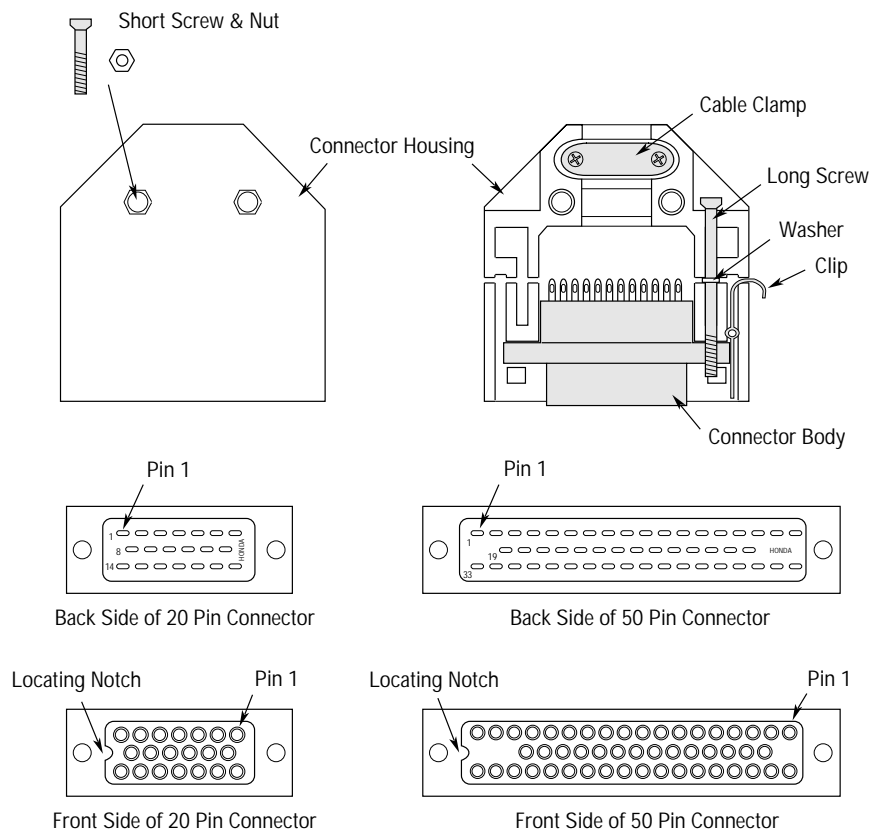
Refer to the 8510 User Manual, publication 8510-5.1 for detailed information about the cable required and the connector pin assignments for each of the above interfaces.

Assembling the Connector/Cable

The following procedure outlines the steps needed to install the connector.

1. Verify that the connector kit includes the blue connector body and the gray housing (see Figure 1).
2. Refer to the 8510 User Manual to determine the required cable type and connector pin assignments for each interface function. The maximum wire size that the connector terminals can accept is 24 AWG (0.283 mm²).
3. Disassemble the connector by removing the 2 short screws and nuts (see Figure 1). Since the connector contains a number of small pieces, care should be taken during disassembly.
4. Prepare the cable and wire ends. The connector shell is relatively short, so minimize the amount of cable insulation that is removed (or it may be difficult to properly clamp the cable into the connector shell). Carefully solder the wires to the connector pins with a rosin core solder. The connector pin designations are shown in Figure 1.
5. Install cable clamp around cable(s). To allow positioning, do not tighten clamp completely.

Figure 1
Connector Assembly



6. Place connector body into housing and slide cable clamp to position shown. Tighten cable clamp.
7. Re-install the 2 long screws/washers, clips and assemble the connector housing as shown in Figure 1.



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