



Hardware Manual for PCCARD-1553



Part Number: 15151-00000-B1
Cage Code: 4RK27 • NAICS: 334418

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CUSTOMER NOTES:

Revision Control History

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Cable Assembly Information.

The following notes and pin-out tables describe the PCCD-1553 Standard Cable Assembly. The second channel and DB15 Connector are Optional Configurations (ignore these designations if they do not apply to your card model).



Figure 1: Example PCCD-1553 Card with 2 Channel Cable Assembly (No DB15 Option)

Cable Assembly Notes: 1553 Connector and Labeling

- **1553 Connectors are 3-Lug (BJ-77 Type) Female Connectors**
- 1" from Connector Base Label: Cable Part Number
- 1553 Cable Labeling – Shrink Wrap Color Code
 - 1" from base of connector add Shrink Wrap Color Code
 - CH1 A – Shrink Tube Color Code: **Red**
 - CH1 B – Shrink Tube Color Code: **Red-Black Stripe**
 - CH2 A – Shrink Tube Color Code: **Green**
 - CH2 B – Shrink Tube Color Code: **Green-Black Stripe**
 - 2" from base of connector label text:
 - **J1 1553 CH1 A**
 - **J2 1553 CH1 B**
 - **J3 1553 CH2 A**
 - **J4 1553 CH2 B**
- DB15 AUX Connector Labeling – Optional Connector
 - 1" from base of connector add label
 - **J9 AUX I/O**
- 24" length on 1553 cables (tip to tip – including connectors).
- 18" length on DB15 AUX Cable (tip to tip – including connectors).
- 1553 thin Cable with 1553 Connector
- Assembly Standard: IPC-610 Class 3/RoHS
- Assemble with Lead free components and Lead free solder.

Table 2: PCCARD Connector to DB15 Cross Reference
(Optional Connector)

| DB-15 | Honda CON | Signal |
|-------|-----------|------------|
| 1 | 13 | TRIG IN1 |
| 2 | 14 | TRIG OUT1 |
| 3 | 15 | TRIG IN2 |
| 4 | 16 | TRIG OUT2 |
| 5 | 17 | GND |
| 6 | 18 | ~AUTO_TEST |
| 7 | 19 | DDISC2+ |
| 8 | 20 | DDISC2- |
| 9 | 24 | DDISC1+ |
| 10 | 25 | DDISC1- |
| 11 | 26 | EXT_TTL_IO |
| 12 | 27 | GND |
| 13 | 28 | IRIG IN |
| 14 | 29 | GND |
| 15 | - | NC |

PCCARD Connectors

Figure 2. PCCARD-1553 Connector Facing the Card



PCCARD Connector

Backshell: #191-000002-010

Honda Connector: #HDRA-68BA

PCCARD Connector Pin-outs

Table 3. J1- 68-pin Connector

| J1 Pin# | Signal | J1 Pin# | Signal |
|---------|-------------|---------|--------|
| 1 | 1553 CH1A + | 35 | N/C |
| 2 | 1553 CH1A - | 36 | N/C |
| 3 | 1553 Shield | 37 | N/C |
| 4 | 1553 CH1B + | 38 | N/C |
| 5 | 1553 CH1B - | 39 | N/C |
| 6 | 1553 Shield | 40 | N/C |
| 7 | 1553 CH2A + | 41 | N/C |
| 8 | 1553 CH2A - | 42 | N/C |
| 9 | 1553 Shield | 43 | N/C |
| 10 | 1553 CH2B + | 44 | N/C |
| 11 | 1553 CH2B - | 45 | N/C |
| 12 | 1553 Shield | 46 | N/C |
| 13 | TRIG_IN1 | 47 | N/C |
| 14 | TRIG_OUT1 | 48 | N/C |
| 15 | TRIG_IN2 | 49 | N/C |
| 16 | TRIG_OUT2 | 50 | N/C |
| 17 | GND | 51 | N/C |
| 18 | ~AutoTest | 52 | N/C |
| 19 | RS-485_2+ | 53 | N/C |
| 20 | RS-485_2- | 54 | N/C |
| 21 | N/C | 55 | N/C |
| 22 | N/C | 56 | N/C |
| 23 | N/C | 57 | N/C |
| 24 | RS-485_1+ | 58 | N/C |
| 25 | RS-485_1- | 59 | N/C |
| 26 | EXT TTL IO | 60 | N/C |
| 27 | GND | 61 | N/C |
| 28 | IRIG In | 62 | N/C |
| 29 | IRIG GND | 63 | N/C |
| 30 | JTAG PWR | 64 | N/C |
| 31 | JTAG CLK | 65 | N/C |
| 32 | JTAG TMS | 66 | N/C |
| 33 | JTAG TDI | 67 | N/C |
| 34 | JTAG TDO | 68 | N/C |