



## GPIB Option Fitting Instructions For Product Series:

1908, CPX, LD, LDH,  
MX, TSX, TGF, TG, TGP,  
TGR, QPX & SMU

Instruction leaflet 48591-1290 Issue 7

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### IN THIS KIT:

- 1 x GPIB Interface board  
[with insulator sheet fitted]
- 1 x 80mm 20 way cable
- 1 x 140mm 20 way cable
- 1 x Instruction leaflet

### CAUTION

Service work or calibration should only be carried out by skilled engineers using high quality test equipment. If the user is in any doubt as to his competence to carry out the work, the instrument should be returned to the manufacturer.

Observe precautions for handling electrostatic sensitive devices.

QPX750P	MX	CPX400DP
QPX1200P	CPX200DP	LD / LDH

INSTRUCTIONS ON REVERSE

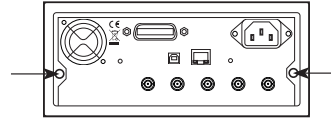
1908, TGF, TG, TGP, TGR, TSX, QPX600P, CPX200SP, SMU

### 1 REMOVE COVER

1908, TGF, TG, TGP, TGR, SMU



1. Position the handle as shown.



2. Remove 2x screws from rear panel.



3. Slide and lift the cover clear of the instrument.

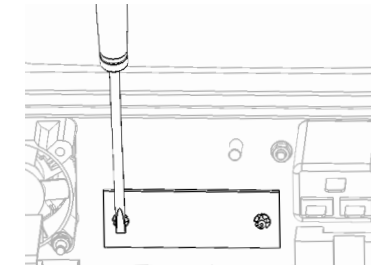
TSX, QPX600P, CPX200SP

1. Remove external screws from chassis.

2. Slide and lift the cover clear of the instrument.

### 2 REMOVE BLANKING PLATE

Remove the two plastic push-rivets that secure the rear panel GPIB socket blanking plate (it is easiest to push out the centre-pin of the rivet from the inside of the rear panel).



### WARNING!

DISCONNECT THE INSTRUMENT FROM ALL VOLTAGE SOURCES AND LEAVE FOR 10 MINUTES BEFORE REMOVING THE COVER.

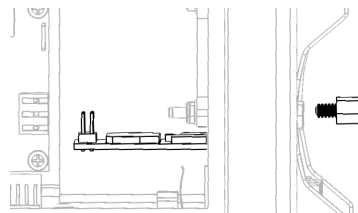
ONLY USE FITTINGS PROVIDED.

THE GPIB CABLE MUST BE FITTED ACCORDING TO THE FOLLOWING INSTRUCTIONS.

DO NOT ALLOW THE GPIB CABLE TO RESTRICT ANY VENTILATION OR TOUCH ANY PARTS OTHER THAN THOSE DESCRIBED.

ANY PARTS THAT REQUIRE REMOVAL MUST BE REMOVED WITH CARE AND REPLACED AS FOUND.

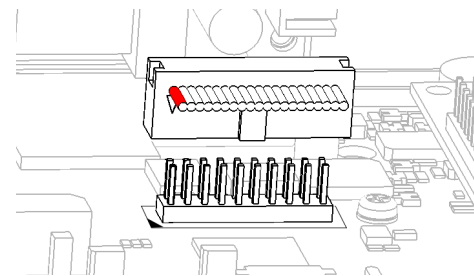
### 3 FIT GPIB BOARD



Holding the GPIB board at the edges, place the board so that the GPIB connector is protruding through the rear panel and fasten using the two M4 hex screws provided (Torque 40cNm).



### 4 CONNECT GPIB BOARD



### USE THE 80mm CABLE PROVIDED

Connect the flat cable to the 20 Pin header on the GPIB board with pin 1 to the white dot (red stripe next to the white triangular corner marker). Connect the other end of the cable to the header labelled 'GPIB' ('PJ14A'-TG5011 & TG2511/'PJ7'-1908, CPX & QPX)

### 5 REPLACE COVER

Replace the top cover and re-fit the screws in reverse order of step 1.

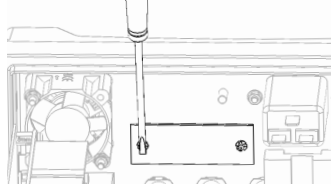
### 6 CONNECT

See the instrument's instruction manual for details on how to activate and use the fitted GPIB. It is recommended that a firmware update is carried out once fitted, this can be found at [www.aimtti.com/support](http://www.aimtti.com/support).

## ① REMOVE COVER

Remove outer screws from cover securing it to the instrument and lift clear.

## ② REMOVE BLANKING PLATE



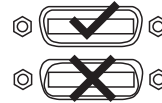
Remove the two plastic push-rivets that secure the rear panel GPIB socket blanking plate. (It is easiest to push out the centre-pin of the rivet from the inside of the rear panel).

See instrument specific section for next steps.

### QPX750P (140mm Cable)

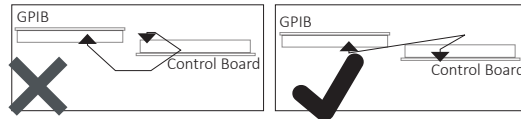
#### ③ FIT THE GPIB BOARD

- Secure the GPIB board in place using the supplied hex screws



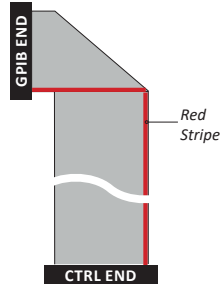
#### ④ CABLE POSITIONING:

⚠ CAUTION The cable MUST NOT sit below the control board.



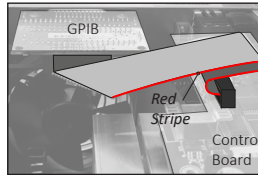
#### ⑤ FOLD THE CABLE:

Fold the 140mm cable as shown.



#### ⑥ FIT THE CABLE:

- Fit cable to GPIB board first.
- Fit to control board.
- Fold the excess cable away from the GPIB board.
- See step 7 & 8.



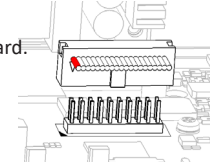
### QPX1200P (80mm Cable)

#### ③ REMOVE INTERFACE (I/F) BOARD

- Unfasten the 2 hex screws on the rear panel.
- Loosen the board and remove the connector from PJ3.
- Gently slide the board out and lift clear of the chassis.

#### ④ FIT THE CABLE

- Fit 80mm cable to GPIB board.



#### ⑤ FIT THE GPIB BOARD

- Secure the GPIB board in place using the supplied hex screws.



#### ⑥ FIT THE I/F BOARD

- Re-connect PJ3.
- Fit cable to PJ7 on I/F board.
- Secure the I/F board in place using the 2 hex screws.
- See step 7 & 8.

### MX (140mm Cable)

#### ③ FIT THE GPIB BOARD

- Secure the GPIB board in place using the supplied hex screws



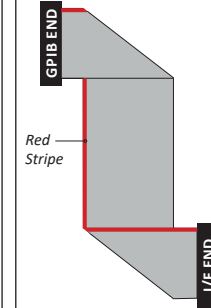
#### ④ CABLE POSITIONING:

⚠ CAUTION The cable MUST NOT sit below the I/F board.



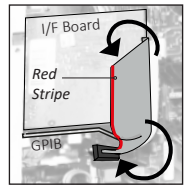
#### ⑤ FOLD THE CABLE:

Fold the 140mm cable as shown.



#### ⑥ FIT THE CABLE:

- Fit cable to PJ7 on the I/F board.
- Fold cable back to run along the TOP of the I/F board.
- Run the cable down the side of the I/F board.
- Fit to GPIB board.
- See step 7 & 8.



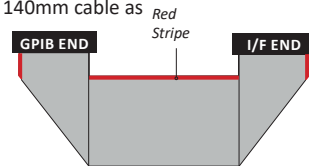
### CPX200DP & CPX400DP (140mm cable)

#### ③ REMOVE INTERFACE (I/F) BOARD

- (CPX200DP only) Remove white rivets securing the I/F board to the centre support.
- Unfasten the 2 hex screws on the rear panel.
- Loosen the board and remove the connector from PJ9.
- Gently slide the board out and lift clear of the chassis.

#### ④ FOLD THE CABLE:

Fold the 140mm cable as shown

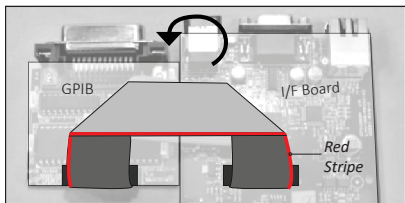


NOTE:

The instrument may be supplied with a cable fitted to PJ7 on the I/F board. If fitted, use this cable and discard cable supplied with the GPIB board.

#### ⑤ FIT THE CABLE

- Fit cable to the GPIB and I/F board and fold back as shown.



- Fold the boards back on one another, ensuring the cable sits between the two boards.

#### ⑥ FIT THE GPIB & I/F BOARDS

- Slide the I/F & GPIB boards back into position, ensure the I/F board slots into the heatsinks either side.



- Ensure the cable is fitted over the spacer fitted to the fan.
- Secure the GPIB board in place using the supplied hex screws, then secure the I/F board in place using the hex screws.
- (CPX200DP only) Replace the white rivets.
- See step 7 & 8.

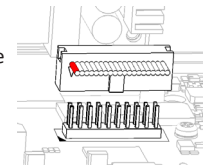
### LD / LDH (80mm cable)

#### ③ REMOVE INTERFACE (I/F) BOARD

- Unfasten the 2 hex screws on the rear panel.
- Loosen the board and remove the connectors from PJ3 & PJ8.
- Gently slide the board out and lift clear of the chassis.

#### ④ FIT THE CABLE

- Fit the 80mm cable to PJ7 on the I/F board
- Fit the cable to the GPIB board



#### ⑤/⑥ FIT THE GPIB & I/F BOARDS

- Fold the boards back to back, ensuring the cable is on the outside of the two boards.
- Slide the I/F & GPIB boards back into position.
- Secure the GPIB board in place using the supplied hex screws
- Secure the I/F board in place.
- See step 7 & 8.

## ⑦ REPLACE COVER

Replace the top cover and re-fit the screws in reverse order of step 1.

## ⑧ CONNECT

See the instrument's instruction manual for details on how to activate and use the fitted GPIB. It is recommended that a firmware update is carried out once fitted. This, alongside other documentation, can be found at:

[www.aimtti.com/support](http://www.aimtti.com/support)

