

TECHNICAL INFORMATION BULLETIN

T/B No:TIBFM 16-01C Issue Date: DEC14/09 Rev. Date: JAN24/18

 TiL Model:
 TDFM-7300

 TiL P/N:
 061245-3-73XXXX/PXXXX

 Affected S/No:
 ALL

Purpose: Transceiver Programming Instructions (Motorola CPS and "Band 5" Multi-TDP)

Parts Required:

Note: Only <u>one</u> cable is required for programming using both CPS and Multi-TDP Software. For PCs not equipped with RS232 Serial ports, the USB version of the cable should be used.

ITEM	PART NUMBER	DESCRIPTION
¹ CPS Software	RVN4181 (Motorola)	Motorola Astro 25 Portable CPS Software
^{2,4} USB CPS Programming Cable (Front Loading)	127507 PC7000 USB	CPS/Multi-TDP Programming Cable Unit front panel connector (Mini –DIN) to PC USB Note: No USB to serial adapter required
² RS 232 CPS Programming Cable (Front Loading)	047365 Rev A or higher PC7000 II	CPS/Multi-TDP Programming Cable Unit front panel connector (Mini –DIN) to PC Serial Port (9-Pin)
^{2,4} USB CPS Programming Cable (Rear Loading)	127506 PC6000 USB	CPS/Multi-TDP Programming Cable to rear connector (25-pin) to PC USB <i>Note: No USB to serial adapter required</i>
² RS 232 CPS Programming Cable (Rear Loading)	047366 Rev A or higher PC 6000 II	CPS/Multi-TDP Programming Cable Unit rear connector (25 pin) to PC Serial Port (9-Pin)
³ Key Loader Cable "KVL-3000 (Plus)" (Front loading)	037348	KVL-3000 (Plus) Key Loader Cable to front panel DIN connector of transceiver
³ Key Loader Cable "KVL-3000 (Plus)" (Rear Loading)	047381	KVL-3000 (Plus) Key Loader Cable to rear 25 pin connector of transceiver

¹Motorola part: These parts are not available for purchase from Technisonic

²**CPS Programming Cable:** Must be purchased from Technisonic. It cannot be fabricated due to circuits within the cable.

³Key Loader Cable: Must be purchased from Technisonic. Allows encryption keys to be loaded into the transceiver with a KVL-3000 (Plus) Key Loader. Only required if the transceiver has been delivered with optional encryption capability.

⁴USB Drivers required for programming cables can be downloaded from <u>http://www.ftdichip.com/Drivers/VCP.htm</u>



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Programming Software:

There are two software programs required to program this transceiver:

1. Motorola CPS:

Bands 1 thru 4 require the Motorola CPS (Customer Programming Software) for programming the individual channel parameters. The CPS software must be purchased online directly from Motorola (<u>https://businessonline.motorola.com/</u>) to comply with their software licensing regulations. Once on the website select "Sign Up Now" and follow the directions. To order Motorola products follow the procedures below:

- Select "Buy Center" in the menu bar and them select " Search Catalog"
- Type in the part number (select the latest revision for software)
- Fill in the quantity and add to the cart

2. Multi-TDP Software:

"Band 5" uses the Multi-TDP software that can be downloaded free from our web-site <u>www.til.ca</u> under the **Programmer Download** section. This is the same software used for our analog series of transceivers.

Programming Procedures:

1. Motorola Modules:

Note: For instructions on programming units using CPS Programming Software, please refer to TIBFM16-02

- 2. *Multi-TDP Software* "Band 5" **DOWNLOAD/UPLOAD** procedures:
 - Connect the programming cable listed in the "Parts Required" Table above and power up the transceiver.
 - Press the "**Band**" button on the radio and toggle to Band 5.
 - With the Multi-TDP file open click on "FILE" then "SELECT RADIO" and select "TDFM-7300".
 - Go to the **"FrqBand"** menu on the Multi-TDP and select the appropriate band.
 - Complete the entries on the frequency template file. Go to the tool bar "FILE" and select "SAVE" enter file name and click "SAVE" again.
 - Put the TDFM-7300 into "PCDL" mode by pressing "FUNC", "FUNC" and "6" on the radio.
 - Go to the tool bar and select "DATA TRANSFER" To send the file with all 200 channels to the radio select "ALL". If only specific channels needed to be saved manually select these channels by clicking the box on the left hand side of the channel info in the table.
 - Go to the tool bar and select "DATA TRANSFER" again then "DOWNLOAD (TO RADIO)". If you want to UPLOAD this is where you would select "UPLOAD (FROM RADIO)". Follow message screen instructions and click "OK" when completed.
 - Exit **PCDL** mode on the radio by pressing the "**FUNC**" button on the radio.