



TECHNICAL INFORMATION
BULLETIN

T/B No.: TIBFM 16-01
Issue Date: DEC 14/09
Rev. Date:

TiL Model: TDFM-7300

Affected S/No: ALL

Purpose: Transceiver Programming Instructions (Motorola CPS and Lowband “Band 5” Multi-TDP)

Parts Required:

Note: Only one cable required for programming both CPS Software and Multi-TDP software

ITEM	PART NUMBER	DESCRIPTION
SOFTWARE	RVN4181 (Motorola)	Motorola Astro 25 Portable CPS Software
* CPS Programming Cable (Front Loading)	047365-1 Rev A or higher	CPS/Multi-TDP Programming Cable to front panel connector (mini –DIN)
* CPS Programming Cable (Rear Loading)	047366-1 Rev A or higher	CPS/Multi-TDP Programming Cable to rear 25 pin connector
** Key Loader Cable “KVL-3000 (Plus)” (Front loading)	037348-1	KVL-3000 (Plus) Key Loader Cable to front panel DIN connector of transceiver
** Key Loader Cable “KVL-3000 (Plus)” (Rear Loading)	047381-1	KVL-3000 (Plus) Key Loader Cable to rear 25 pin connector of transceiver

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

** **Key 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.

Note: Motorola part numbers are not available at Technisonic

Procedure:



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There are two programming softwares required to program this transceiver:

1. Motorola CPS All bands excluding the Lowband “Band 5” requires the Motorola CPS (Customer Programming Software) for programming the individual channel parameters. The CPS software must be purchased online directly from Motorola (<https://businessonline.motorola.com/>) 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 then select “**Search Catalog**”
- Type in the part number (select the latest revision for software)
- Fill in the quantity and add to the cart

Note: For further information regarding CPS Programming Software please refer to TIBFM16-02

2. Multi-TDP Software The Lowband “Band 5” uses the Multi-TDP software that can be downloaded free from our web-site www.til.ca under the **Programmer Download** section. This is the same software used for our analog series of transceivers. Below illustrates the **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 (VLO).
- With the Multi-TDP file open click on “**FILE**” then “**SELECT RADIO**” and select “**TDFM-7300**”.
- Go to the “**FreqBand**” menu on the Multi-TDP and select the “**VLO**”.
- 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.