TECHNICAL INFORMATION BULLETIN

TiL Model: TDFM-9300 Transceivers with Type "A" and "B" Modules
TiL P/N: 111267-1,-2-93-X
Affected S/No: ALL

Purpose: TRANSCEIVER PROGRAMMING ORDERING GUIDE
Note: Different cables and CPS software are required for Type A Modules versus units with Type II (B) Modules as illustrated in Table 1 and Table 2 below.
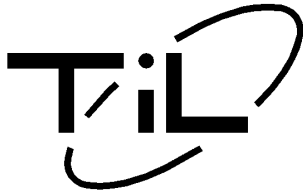
Parts Required:

TABLE 1

TDFM-9300 Transceivers with Type A Modules (Standard) P/N: 111267-1(or 2)-93-AXX-AXX-TX		
ITEM	**PART NUMBER**	**DESCRIPTION**
[1]**Software**	RVN5224 (Motorola)	APX CPS
Software	MultiTDP (Technisonic)	Analog Programming software
[2]**Programming Cable:** "PC-9000" Download/Programming Cable. For use with Type A Modules.	127499 (Technisonic)	TDFM-9300 mini-DIN to PC USB Socket
[3]**Keyloading Cable:** "KVL-9000" KVL-3000+/KVL-4000 Key Loader Cable	127500 (Technisonic)	TDFM-9300 mini-DIN to KVL-Key Loader

[1]**Motorola Part:** These parts are not available for purchase from Technisonic.

[2]**CPS Programming Cable:** The PC-9000 cable must be purchased from Technisonic. It cannot be fabricated due to circuits within the cable.

[3]**Key Loader Cable:** The KVL-9000 cable must be purchased from Technisonic. It allows encryption keys to be loaded into the TYPE A modules in the transceiver with KVL-3000+ or KVL-4000 Key Loaders. Only required if the transceiver has been delivered with optional encryption capability.

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TABLE 2

TDFM-9000 Transceivers with Type A and II (B) Modules (Non-Standard) P/N: 111267-1(or 2)-93-AXX-BXX-TX		
ITEM	**PART NUMBER**	**DESCRIPTION**
[1]**Software**	RVN5224 (Motorola)	APX CPS
[1]**Software**	RVN4181 (Motorola)	Astro 25 Portable CPS for TYPE II (B) modules
Software	MultiTDP (Technisonic)	Analog Programming software
[2]**Programming Cable:** "PC-9000" For use with Type A and II (B) Modules.	127499 (Technisonic)	TDFM-9300 mini-DIN to PC
[3]**Keyloading Cable:** "KVL-9000" KVL-3000+/KVL-4000 Key Loader Cable.	127500 (Technisonic)	TDFM-9300 mini-DIN to KVL-Key Loader for TYPE A modules.
[4]**Keyloading Cable:** "9000 Keyloading Cable-XTS" KVL-3000+/KVL-4000 Key Loader Cable.	137512 (Technisonic)	TDFM-9300 mini-DIN to KVL-Key Loader for use with TYPE II (B) modules

[1]**Motorola Part:** These parts are not available for purchase from Technisonic.

[2]**CPS Programming Cable:** The PC-9000 must be purchased from Technisonic. It cannot be fabricated due to circuits within the cable.

[3]**Key Loader Cable:** The KVL-9000 must be purchased from Technisonic. Allows encryption keys to be loaded into the TYPE A modules in the transceiver with KVL-3000+ or KVL-4000 Key Loaders. Only required if the transceiver has been delivered with optional encryption capability.

[4]**Keyloading Cable-XTS:** This cable is used only on TYPE II (B) modules installed in theTDFM-9300 radios.

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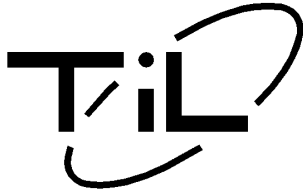
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Programming Software:

The Technisonic TDFM-9300 series transceivers may require three types of programming software including Motorola CPS (Customer Programming Software) and MultiTDP. Motorola CPS is required for P25 RF modules installed in Bands 1 to 4 in the TDFM-9300. The CPS configures all frequency data and all channel parameters including trunked systems for each RF module installed.

Standard TDFM-9300s only use APX CPS for modules 1 to 4. The Technisonic MultiTDP software is used to program the 5th Analog only band.

Some non-standard TDFM-9300s equipped with TYPE A (Bands 1&2) and TYPE II (B) modules (Bands 3 & 4) will require both the Motorola APX CPS <u>and</u> Astro 25 Portable CPS. MultiTDP is required for the 5th Analog only band.

Obtaining Motorola CPS:

The CPS software must be purchased online directly from Motorola to comply with their software licensing regulations.

The Motorola On Line (MOL) site is: https://businessonline.motorolasolutions.com/

Once on the website, select "**Sign Up Now"** and follow the directions. You must complete the license agreement process before you can purchase any product on line.

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 RVN5224 for APX CPS or RVN4181 for Astro 25 Portable CPS. Select the latest revision for software, fill in the quantity, add to the cart, and proceed to check out.

CPS has a 3 year subscription and the updates are free. It is highly recommended to have the purchased CPS products added to your MOL account and available for download. Contact the Motorola personnel to attach the updates to the account.

Technisonic MultiTDP:

Technisonic MultiTDP software can be downloaded from the Technisonic web site. www.til.ca Click on "Programming Software" and then download the MultiTDP software.