

SUBJECT: TECHNISONIC TACTICAL RADIO INSTALLATION

The Technisonic Tactical Radio Installation provides a means of FM radio communication.

APPLICABILITY:

This Flight Manual Supplement must be used when the Technisonic Tactical Radio Installation is installed on the helicopter.

Department of Transport
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IMPORTANT NOTE


THE INFORMATION AND DATA CONTAINED IN THIS DOCUMENT SUPERSEDE OR SUPPLEMENT THAT CONTAINED IN THE BASIC APPROVED FLIGHT MANUAL FOR THE BK117 D-2, D-3 HELICOPTER IN THOSE AREAS LISTED HEREIN. FOR LIMITATIONS, PROCEDURES AND PERFORMANCE NOT CONTAINED IN THIS DOCUMENT REFER TO THE APPROVED FLIGHT MANUAL AND OTHER APPLICABLE APPROVED FLIGHT MANUAL SUPPLEMENTS.

SECTIONS 2, 3, 4 AND 5 OF THIS DOCUMENT COMPRISE THE APPROVED FLIGHT MANUAL SUPPLEMENT. COMPLIANCE WITH SECTION 2, LIMITATIONS, IS MANDATORY.

SECTIONS 1 AND 6 ARE UNAPPROVED AND ARE PROVIDED FOR INFORMATION ONLY.

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1. GENERAL (unapproved)

The information contained herein supplements the information in the basic Flight Manual.

Abbreviations and Definitions

ABBREVIATION	DEFINITION
Acc'd	Accepted
ACU	Audio Control Unit
AHCA	Airbus Helicopters Canada Limited
App'd	Approved
ATC	Air Traffic Control
A/W	Airworthiness
CAR	Canadian Aviation Regulations
CDI	Course Deviation Indicator
DAPM	Design Approval Procedures Manual
FM	Frequency modulation
FMS	Flight Manual Supplement
GS	Glideslope
IFR	Instrument flight rules
ILS	Instrument landing system
IMC	Instrument meteorological conditions
LOC	Localizer
MHz	Megahertz
P/N	Part Number
Rev.	Revision
STC	Supplemental Type Certificate
TCCA	Transport Canada Civil Aviation
UHF	Ultrahigh Frequency
VHF	Very high frequency
VOR	VHF Omnidirectional radio ranging
XMT	Transmit

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2. LIMITATIONS

Onboard radio transmissions outside the normal ATC frequency band may influence radio navigation /communications systems (VOR, LOC, GS, etc), most prominently exhibited by an unexpected sudden movement of CDI/GS indications.

Therefore, any transmission outside normal ATC frequency band on the tactical radio is prohibited during ILS/LOC/VOR approach.

During IFR/IMC flights, the crew member must inform the pilot flying prior to transmitting on the tactical radio.

3. EMERGENCY PROCEDURES

No change to the basic Flight Manual data.

4. NORMAL PROCEDURES

- | | |
|---------------------------------------|---|
| TACTICAL RADIO
(Refer to Figure 1) | - Check ON as required |
| TACTICAL RADIO
(Refer to Figure 1) | - Operate according to Technical manual |
| ACU | - Select radio and volume as required |

5. PERFORMANCE DATA

No change to basic Flight Manual data.

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6. WEIGHT AND BALANCE (UNAPPROVED)

Total changes to mass and balance resulting from this modification are covered in the applicable Instructions for Continued Airworthiness.

Items that are removed between routine operations: Not applicable

7. SYSTEM DESCRIPTION (UNAPPROVED)

The Technisonic Tactical Radio Installation provides a means of FM radio communication. The TDFM-9100NV transceiver (see Figure 1) is installed in the centre console, accessible to the pilot and co-pilot. The relevant FM frequency bands are listed in Table 1. A remote control head (RC-9100NV) is installed in the cabin area. An inhibit switch is located on the instrument panel to stop transmission during certain phases of flight. Two antennas are used, one on the tail boom, and one on the cabin roof, right hand side. Two circuit breakers are located in the overhead panel, one for TDFM-9100NV transceiver, and one for the remote control RC-9100NV.



Figure 1 Transceiver TDFM- 9100NV in Centre Console

VHF	136- 174 MHz
UHF LO	380- 470 MHz
UHF HI	450- 520 MHz
700/800	764- 870 MHz

Table 1 Frequency Bands

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