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Section 9 AIRFRAME AVIONICS

THIS MODULE CONTAINS A BASIC KNOWLEDGE SELF STUDY GIUDE AND SUGGESTED MAINTENANCE TASKS

Module 12L – Radio Com/ELT/Transponder/Instruments
BASIC THEORETICAL KNOWLEDGE (self study guide)

See Section 1 Instructions for use

Module 12L.1 Radio Com/ELT (Level 2)	Completed,
Channel spacing, change to 8.33 spacing Basic functional test, expected response, evaluation of response Batteries, internal, external and different types Testing and maintenance requirements	

Module 12L.2 Transponder (Level 2)	Completed,
Basic operation Typical installed and portable configuration including antenna, single units, split units, antenna position and ground plane requirements Explanation of Modes A, C, S, ground and flight modes Explanation of ADS-B Explanation of FLARM, its uses and limitations Testing and maintenance requirements Understanding TSO/E-TSO requirements for avionic equipment Requirements for in-flight testing of avionic equipment	

Module 12L.3 Instruments (Level 2)	Completed,
Installed and handheld altimeter/variometer Basic flight instruments , description and operation; altimeter, airspeed indicator, vertical speed indicator, variometer, accelerometer, compass Batteries, understanding different types of battery and precautions Basic functional tests	

Module 12L – RADIO COM/ELT/TRANSPONDER/INSTRUMENTS SUGGESTED MAINTENANCE TASKS		
Registration & date	Maintenance task performed	Confirmed by Licence No.
Avionic systems		

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	COM Removal/installation	
	NAV Removal/installation	
	XPDR Removal/installation	
	Antenna/antenna cable removal - installation	
	Remove/replace COM unit, enter presets and test	
	Replace COM antenna wire, make up screened connectors	
	Replace COM antenna	
	Troubleshoot/replace microphone	
	Troubleshoot/repair headset jack sockets and wiring	
	Troubleshoot/repair COM wiring and power supply	
	Test/replace headset jack sockets	
	Remove/install ELT unit	
	Carry out in-service test of ELT unit	
	Replace ELT internal battery	
	Remove/replace transponder unit, enter presets and test	
	Replace transponder antenna wire, make up screened connectors	
	Replace transponder antenna	
	Troubleshoot/repair transponder wiring and power supply	
	Test Transponder altitude encoding	
	Remove/replace FLARM unit and test	
	Load FLARM firmware update	

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	Remove/replace FLARM GPS antenna	
	Remove/replace FLARM transmitter antenna	
	Interrogate FLARM performance on performance website	
Instruments		
	Remove/replace altimeter and test	
	Reset altimeter barometric scale setting	
	Remove/replace airspeed indicator and test	
	Remove/replace variometer and air reservoir	
	Troubleshoot/repair leaks in pitot/static system	
	Locate and drain/service pitot/static drains	
	Remove/inspect/replace combined air data probe	
Air Data		
	Install moving map display	
	Remove/inspect/replace two types of moving map air data displays	
	Second moving map air data display	
	Troubleshoot moving map display	
Module 12L – RADIO COM/ELT/TRANSPONDER/INSTRUMENTS ADDITIONAL MAINTENANCE TASKS		

