

# ENGINEERING MEMORANDUM

TITLE						E.M. NO.		FILE CODE		
Work requirements - DOT Beech						12861		112		
CF-GXC						EFFECTIVE		00		
						As noted				
PART NO.			PART NAME			DWG. NO.		COPIES TO		
						11-9645		NO.		
USE OF E.M.			DISPOSITION OF STOCK			CUSTOMER'S ORDER NO.		ENGL.		
SALVAGE			CHECK BLOCKS AFFECTED	NOT AFFECTED	USE TO DEPLETION	NETWORK	SCRAP	AS NOTED	INSPEC	
CONCESSION									CUSTOMER	
STOP ORDER/RELEASE			PARTS COMPLETED			D.O.T.		MAT. CONT.		
NEW DRAWING			PARTS IN PROCESS			TYPE AIRCRAFT		SALES/CONT'S		
REVISED DRAWING			TOOLING			Beech D18S		R.C.A.F.		
VARIATION			RAW MAT'L			AIRCRAFT REGISTRATION NO.		ESTIMATING		
OBSOLETE NOTICE			INTERCHANGEABILITY AFFECTED			CF-GXC		TEST FLIGHT		
USE AS NOTED			YES		NO		YES		NO	
APPROVALS			ENGINEERING			CONTRACTS ADMIN.		CUSTOMER		
GIVE FULL PARTICULARS AND SKETCH WHERE POSSIBLE										

In order to check the heating system in DOT Beechcraft CF-GXC the following work will be carried out:

1. Install thermocouples in each heater exhaust and leads to the cabin for use with Browns Portable Electric Pyrometer. Contact the Laboratory for further details.
2. Install two ammeters (0-10 amps) between wires H107A-16 and thermostat and between H115A-16 and thermostat. Extend wiring to thermostat so that the thermostat can be moved to any location in the cabin.
3. Rewire each heater by connecting the duct limit switch between terminal #7 and the fuel solenoid and terminal #8 directly to ignition filter. Referring to Stewart Warner Service Manual wiring diagram on page 6 connect terminal #8 direct to filter terminal #13, terminal #7 to terminal #30 on duct limit switch and from terminal #9 on limit switch to fuel solenoid.
4. Check microswitch in the intake valve for proper functioning.
5. Ground run the engine and function check the heating system. Engineering is to be present on this check.
6. D.I. the aircraft and prepare for flight.
7. Test flight will consist of straight and level flight at 5000 and 10,000 feet at various airspeeds. Readings will be taken of outlet air velocities, temperatures, time delay in cabin thermostat and temperatures in cabin and cockpit. Other checks will be made as required by Engineering Department. Any further work is not to be carried out before authorized by Issue "B" of this E.M.

The above work is chargeable to W/O 11-9645.