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LANCASTER Mk. I AND III DRILLS

VIII. PROPELLER FEATHERING AND UN-FEATHERING DRILL

Note: When once a propeller has been feathered because of engine trouble, it is NOT to be UN-FEATHERED under any circumstance. This order does not apply when a propeller is un-feathered for training crews in feathering drill

A. To feather a propeller

PILOT	ACTION BY	ACTION
"Feather (Starboard outer) engine	F/E	Close master cock for (starboard outer) engine, then press feathering switch and ensure solenoid is holding the button in before releasing.
	F/E	Switch of ignition after engine has stopped
	F/E	As engine stops stand by ready to pull out feathering button, in case it sticks when feathering operation is completed

In the case of Lancaster III (Merlin 28) aircraft, the first action by the Engineer is to put the respective idle cut off switch to idle cut off position, then carry on with normal drill

Note: Care must be taken at night to pressure the correct feathering button and to turn off correct master fuel cock.

B. To Un-feather a propeller

PILOT	ACTION BY	ACTION
"Un-feather (Starboard outer) engine	F/E	Sets constant speed level to course (down). Switches ion ignition
	Pilot	Opens throttles 1 inch
	F/E	Press feathering button and hold until RPM rise to 1500 RPM and not more than 1800 RPM, then release button. Ensure button springs out when released. Opens master fuel cock, (starboard outer) engine. Switch on I.C.O. to running position in Lanc III Merlin 28
	F/E	Checks engine temperature and oil pressure correct before bringing RPM and boost in line with other [sic] engines

Note: When un-feathering, if propeller goes into full fine pitch and gives excessive RPM, the following procedure is to be adopted.

C. To feather a propeller

PILOT	ACTION BY	ACTION
	Pilot	Close throttle of over-revving engine. Reduce air speed
	F/E	Set propeller speed control of over-revving engine to fully forward, i.e. maximum RPM

Note; The propeller will return to normal constant speed operation when RPM are reduced below the setting of the propeller speed control.