

TO M-14P M.S.	TASK CARD No. 204	PAGE(S) 209 - 211	
M.S. ITEM	PROCEDURE: Adjustment of Governor on Engine		
OPERATIONS AND TECHNICAL REQUIREMENTS		CORRECTIVE ACTIONS	CHECKED BY
<ol style="list-style-type: none"> 1. Set the governor control lever in the pilot's cabin to the extreme position corresponding to the airscrew maximum pitch. 2. Turn the governor control shaft all the way clockwise (the spring is fully released). 3. Fit the roller on the control shaft hex so that the hole intended to attach the cable is at the point of cable contact on the roller. 4. Secure the roller in this position on the shaft. 5. Adjust the cable length and secure it on the governor roller. 6. Check operation of the governor control system and make sure the governor control shaft turns through a complete angle of about 160° without plays, jamming or dead sectors. <u>T.R.</u> Plays, jamming or dead sectors are not allowed. 7. Start and warm up the engine (Ref. 072.00.00, Task Cards Nos 201, 202). 8. Check operation of the governor and its control linkage by changing over the airscrew from low to high pitch and check operation of the airscrew and governor at equilibrium speed of rotation (Ref. 072.00.00, Task Card No. 202). 		<p>Eliminate plays and jamming by adjusting rods, cables</p>	

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<p><u>NOTE:</u> The adjustment is regarded to be completed if with throttle fully open and the governor control lever set to the low pitch stop, the engine gains a speed of 99 % (2900 r/min) and when the lever is shifted to the high pitch from nominal rating II 70 % (2050 r/min), the speed of rotation drops drastically to 53 %.</p> <p>9. Set the low pitch limit stop of the governor control system, adapted to preclude engine overspeeding above the specified take-off RPM of 99 %, to which end:</p> <p>(1) Accomplish a flight maintaining the crankshaft speed of up to 99 %.</p> <p>(2) Note the position of the speed governor control lever at a fully open throttle corresponding to $n = 99 \%$.</p> <p>(3) After landing and shutting down the engine, set the governor control lever to the position marked in flight with the throttle being fully open (99 %).</p> <p>(4) Leave the low pitch limit stop in this position.</p> <p><u>NOTES:</u> 1. When setting the speed governor control lever in the pilot's cabin to the maximum speed of rotation, the governor roller should be short of the extreme position for about 5°.</p> <p>2. When setting the engine speed limit stop, clicking of rack and shaft teeth cannot be allowed.</p> <p>3. If the airscrew cylinder is damaged in flight, immediately set the governor control lever to the high pitch position to preclude leakage of oil.</p> <p>4. If oil leaks through the flange, tighten the governor attachment nuts. If trouble persists, replace gasket (part K8936) taken from the individual SPTA set.</p>		

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<p>5. If oil leaks through the control shaft, remove retaining ring (2) (Ref. Fig. 3) and tighten up bearing (7). If trouble persists, replace sealing ring (6) (part PN1-1513) with the ring taken from the SPTA set. Lock the bearing with retaining ring (2).</p>			
TEST EQUIPMENT	TOOLS AND FIXTURES	MATERIALS	
	<p>Wrench 9x11 700002 Wrench 11x14 14-24-861 Pliers, flat-nosed 150</p>		