



Manual: CSP-COM-5, Component Overhaul Manual
Models: 369D/E/F/FF - 500/600N Helicopters
Issued: 17 August 1991
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FILING INSTRUCTIONS:

1. Before you put this temporary revision in the manual, make sure the manual contains all the revisions from before. Look at the last revision List of Effective Pages.

CAUTION Do not put this temporary revision in the manual, if the manual does not contain all the revisions from before.

2. To include this temporary revision in the manual, remove old pages and put in new pages as shown below.

Temporary Revision Number / Date	Section	Page	Page Revision
TR 07-001/14 November 2007	63-20-00	517 and 518	TR 07-001
	63-20-25	305 and 306	TR 07-001
	63-20-25	401 and 402	TR 07-001
	63-20-25	511 thru 514	TR 07-001
	63-20-25	705 thru 708	TR 07-001
	63-25-10	509 and 510	TR 07-001
TR08-001/02 October 2008	63-25-20	709	Revision 17
		710	TR08-001

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CAUTION The tail rotor and pitch control assembly must be assembled on the transmission, balanced and rigging checked prior to beginning run-in on helicopter.

- (1). Install transmission on helicopter (Ref. CSP-HMI-2).
- (2). Assemble and balance tail rotor assembly on helicopter (Ref. 64-20-20).
- (3). Check tail rotor control rigging (Ref. CSP-HMI-2).
- (4). Service transmission with lubricating oil (9, Table 902) according to (Ref. CSP-HMI-2).
- (5). Ballast helicopter to a ballast gross weight of 3700 pounds (1680 Kg).
- (6). Measure pilot's left pedal travel from full left pedal to full right pedal as shown in Figure 704. Calculate travel in inches required to position left pedal according to Figure 704.
- (7). Fabricate indicator that will allow precise positioning of left pedal in percent of travel as shown in Figure 704.
- (8). Install indicator for left pedal travel measurement.

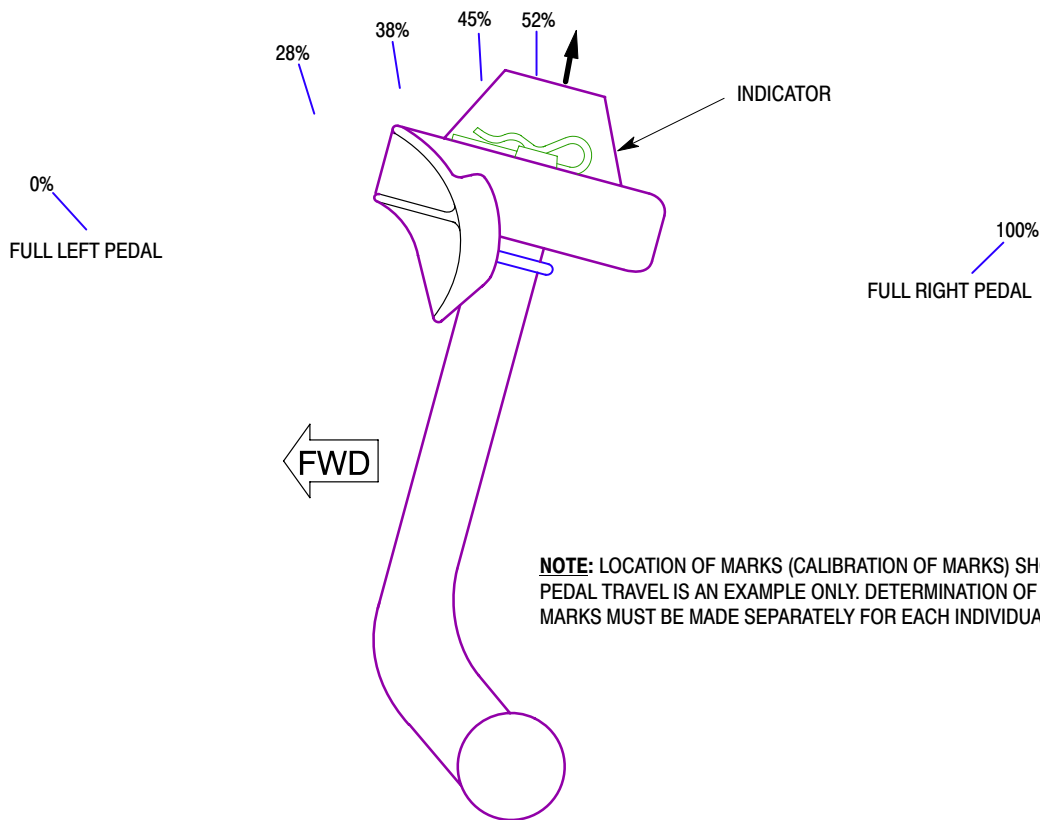
WARNING Be sure helicopter is on a rough dry surface, clear of obstacles and personnel. Comply with all appropriate safety precautions during ground run. Operate helicopter in accordance with Pilot's Flight Manual.

- (9). Start helicopter and establish N_2 at 100 percent.
- (10). Start run-in with left pedal at 52 percent from full left position and continue through positions listed in Table 701. During run-in, check transmission for unusual noise, vibration and oil leakage.

CAUTION Monitor chip detector indicator light (Ref. CSP-HMI-2) during complete run-in cycle.

- (11). If chip detector indicator lights, stop test and investigate cause.
- (12). Shut down helicopter (Pilot's Flight Manual).
- (13). Check for oil leakage; replace leaking seals as required.
- (14). Remove tail rotor assembly (Ref. 64-20-20).
- (15). Remove transmission from helicopter (Ref. CSP-HMI-2).
- (16). Perform final inspection (Ref. Final Inspection).

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 COMPONENT OVERHAUL MANUAL
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Figure 704. Pedal Travel Indicator on Left Pedal

Table 701. Left Pedal Travel/Run-In Time

Step	Tail Rotor Horsepower	% From Full Left Pedal	Time
1	10	52	10 minutes
2	15	45	10 minutes
3	21	38	10 minutes
4	30	28	5 minutes

C. Run-In on Test Stand

Run-in and test the reassembled transmission on a test stand as follows:

NOTE: A secure test fixture with motor and breaking device is required.

- (1). Secure transmission on test fixture and service with lubrication oil (9, Table 902) according to (Ref. CSP-HMI-2).
- (2). Operate test stand at transmission input speed of 2175-2250 rpm with no load for two minutes.
- (3). Gradually increase load on output shaft to **1049 inch pounds (118.52 Nm)** and run for 10 minutes.
- (4). During test, check for unusual noise or vibration; check for oil leakage; replace leaking seals as required.
- (5). Stop run-in and perform final inspection (Ref. Final Inspection).