NATIONAL TRANSPORTATION SAFETY BOARD

Washington, D. C.

Acme Screw and Nut Endplay Check

(3 Pages)

Task Card # 24527000	Alaska Airlines MD80	Tail * Page * 259 963 1 OF 3
Work Code # 02525	TITLE ACME SCREW AND NUT END PLAY CHECK	Type Check COS
02323 Rev Date 10/07/96	A T A M/Hours Skill Task 27-00 4.0 MECH CHECK	Effectivity

ZONE:

630



MATERIALS/TOOLS:

*

T 0-1301-0-0169 4916750-1 HOR.STAB.RESTRAINING FIXTURE

T 0-1301-0-0689 TOOL NO. 0561, DIAL INDICATOR

T 0-1300-0-0172 804605 GO-NO GO

GRAPHICS: H655000A

TEXT:

MECH INSP

44300

VI

443,400

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NOTE: A safety belt attachment lug is located on top of vertical

stabilizer.

NOTE: When moving the horizontal stabilizer with either primary

or alternate control handles, operate both primary or both alternate control handles simultaneously in the same direction to the noseup or nosedown position. This procedure insures proper synchronization of brake switch

and motor contactor operation.

1. Check Acme Screw And Nut Operation

A. Check acme screw and nut.

WARNING: BEFORE MOVING CONTROL WHEEL TRIM SWITCHES, MAKE CERTAIN THAT AREAS AROUND HORIZONTAL STABILIZER AND ELEVATORS ARE CLEAR OF PERSONNEL AND EQUIPMENT.

(1) Move both primary longitudinal trim control wheel switches, located on outboard horn of aileron control wheel, to airplane noseup position. Hold until shutoff functions.

(2) Check that upper acme nut stop is at 12.2 degrees. dimension (bg) should be 12 13/16 (+ or - 5/32) inches (Ref Fig 1, View Al).

(3) Using control wheel trim switches, run horizontal stabilizer in airplane nosedown ("AND") direction until shutoff functions. Check the following:

a) Check that lower acme nut stop is at 2.1 degrees.
dimension (bg) should be 1 5/16 (+ or - 9/64) inches

B. Check acme screw and nut wear.

(1) Using control wheel trim switches, move horizontal stabilizer to approximately one degree airplane noseup

AAQM 10 02255

ALL MAINT/INSPECT ITEMS

COMPLETED

DATE: 7,29.77

Task Card • 24627000	All	14/42	Airlin	165	MD80	963	Page # 259
Work Code # 02525	TITLE	מאג שפסי	NUT END P.	TAV CU	FC T	Type Chec	
Rev Date	ATA	M/Hours	Skill		Task	Effectivi	tv
10/07/96	27-00		MEC	. H	CHECK	AML	
ZONE: 630						•	
TEXT:							
MECH INSP							
		posit	ion.				
11.70	WARI	NING: TAG	AND SAFETY	OPEN CI	RCUIT BREAKE	RS.	
400	ı	(2) Open	the following	a circu	it breakers.		
	,	Circu Autop nate Trim	it Breaker ilot & Alter Longitudina (3)	Panel r- uppe	Location P r epc L	eft Radio AC Bus	
2>			ry Longitudi	i- uppe	-	eft Radio	
77.20	1		-	stabili	zer fairing	DC Bus to gain acc	ess to
45360				al stabi	lizer restra	ining fixtu	ıre.
75300 VIO		(5) Clamp tube	dial indica	ator mou ut and p	nting bracke ositional di n in View A	t to jackso al indicato	rew torque
Trees Asa	((6) Clamp jacks	dial indicacrew and pos	ator mou sition d	nting bracke lial indicato y as shown i	t to upper r probe aga	inst lower
72.20	((7) Prelo		r probe	to at least		.g .
#332°,	1	(8) Apply stabi	250 to 300	inch po orting r	unds of torq estraining f		
7/20	((9) Relie	ve torque or	n restra	ining fixtur initial rea		chat dial
-4360 X75	(:	10) Repea	t steps (8)	and (9)	several tim	es to insur	·e
	(:	ll) Check inch. repla	that end placement of accement of accement.	lay limi in exces cme jack	ts are betwe s of above a screw and nu	en .003 and re cause fo t. Should	or
2.70 (ALL)	(:	if no 12) Check does	t previously that free protection	y accomp play bet .010 inc	ween jackscr h. If free	ew and uppe play exceed	er support
7.23 XW	(:	13) Remov	e restrainin	ng fixtu	must be rep re, dial ind stall stabil	icator and	

Task Card * 24627000	Alasi	ka-Airlines	MD80	963	Page # 259
Work Code # 02525	TITLE ACME SCREW		Type Check CO5		
Rev Date 10/07/96		Hours Skill MECH	Task CHECK	Effectivi ALL	Cy
ZONE: 630 TEXT:					
MECH INSP					
77300 77300 77500	(14) (15)	panel. Close the circuit bro Return horizontal st			2).
	and the state of t			£ £ £ £ £ £ £ £ £ £	