

11-110. Rigging - Tail Rotor Control System (With Roller Type Chain, Part Number 1560-UH-1-752-1).

NOTE

Accomplish rigging with hydraulic boost off.

a. Adjust tail rotor pitch links to initial length, between bearing centers, to 5.4 inches with crosshead 204-011-711 (figure 11-25). Install all fixed tubes and links in tail rotor control system (figure 11-24). Crosshead assembly must be installed prior to rigging the tail rotor cable.



Ensure that correct part number crosshead, pitch change links, and attaching hardware are installed as illustrated in figure 11-25. If incorrect combinations of these parts are installed, interference and/or binding may occur. Refer to paragraph 5-97.j.

NOTE

Length specified for pitch change links is an initial setting, and may be changed after operational checks for blade track or to obtain normal pedal positioning in autorotative landing and right sideward flight.

b. Deleted.

NOTE

Ensure nuts (35, figure 11-29) are installed on housing pan (38) prior to applying full pedal.

c. Apply and hold full left pedal on both pilot's and copilot's controls. Adjust interconnect tube (5, figure 11-24) to fit and connect.

d. Install control tube (16) ahead of quadrant, adjusted to provide minimum clearance at cable quadrant as illustrated for full left and full right pedal positions (view A, figure 11-24).

e. At control assembly on right side of 90 degree gear box, remove housing and tail rotor shaft cover; disconnect upper cable speed rig, sprocket guard and chain from sprocket. Check the sprocket guard nuts, washers, and reinstall. Refer to paragraph 11-157 for tail rotor chain installation.

f. At full left pedal, without hydraulic power, check that sprocket is 1-1/4 to 2-1/4 teeth from bottom position as shown by reference mark.

NOTE

If hydraulic power is available, check full left pedal sprocket position with "Boost on" to be 1/4 to 1-1/4 teeth from bottom by observing relation of sprocket and index mark.

g. Disconnect upper cable speed rig. Install guard and cover over control quill. Reconnect upper cable speed rig and lockwire (C155). Recheck cable tension.

h. Be sure magnetic brake has arm located properly, with (D) mark (for directional) on arm aligned to scribe mark on shaft. With arm at center of travel and with control pedals held in neutral, adjust force gradient tube to fit and connect.

i. Check tail rotor blade/tail boom vertical fin clearance. (paragraph 5-97.m).

j. Adjust to obtain right pedal 1.0 to 2.0 inch forward of left pedal in flight cruise, reference TM 55-1520-242 MTF. To move right pedal forward, lengthen both pitch change links evenly, one turn at a time, until desired setting is obtained.