

SECTION/OPERATION

16

ROTOR HUB ASSEMBLY

<u>COMPONENT</u>	<u>PROCEDURE</u>	<u>PRINT #</u>	<u>TEMPLATE</u>
ROTOR HUB (E49-2000)	Collective scissor mount	E23-2000 E49-2001	
	Collective spring attachment	E49-2002	
	Cyclic control cables		

ROTORWAY

TOOLS REQUIRED FOR OPERATION 16:

Adjustable wrench 10"	
Drill bits of the following sizes:	1/8"
	3/16"
	1/4"
	5/16"
	#19
	#40
Hand drill (air or electric)	
Level	
Mallet	
Pliers	
Protractor level	
Ratchet with sockets of the following sizes:	3/8"
	7/16"
	1/2"
	9/16"
	7/8"
Screwdriver	
Spring scale	
Torque wrench	
Vise	
Wrenches of the following sizes:	3/8"
	7/16"
	1/2"
	9/16"
	7/8"

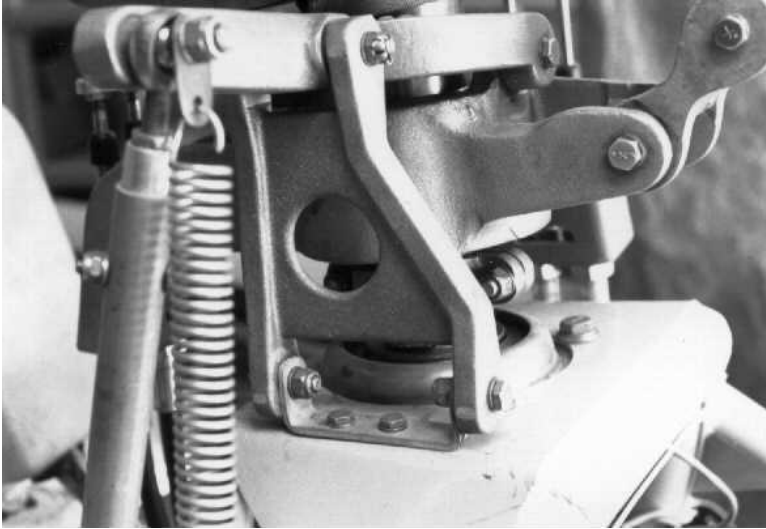


Photo #1

Construct the collective scissor mount as shown on print E23-2000. When bolting it to the hood bracket, be sure that the fore and aft ears of the non-rotating swash plate are parallel with the aircraft's center line.

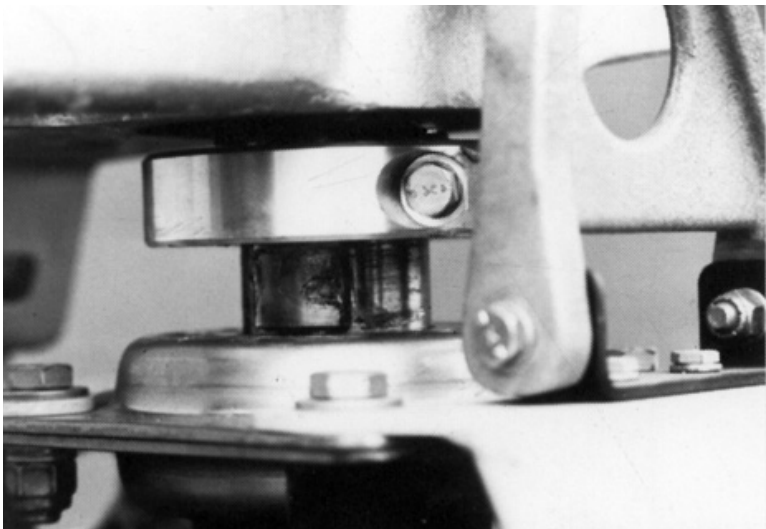


Photo #2

When the collective is in the full down position, the bottom of the slider ball should be approximately .050" from the top of the main shaft bearing.

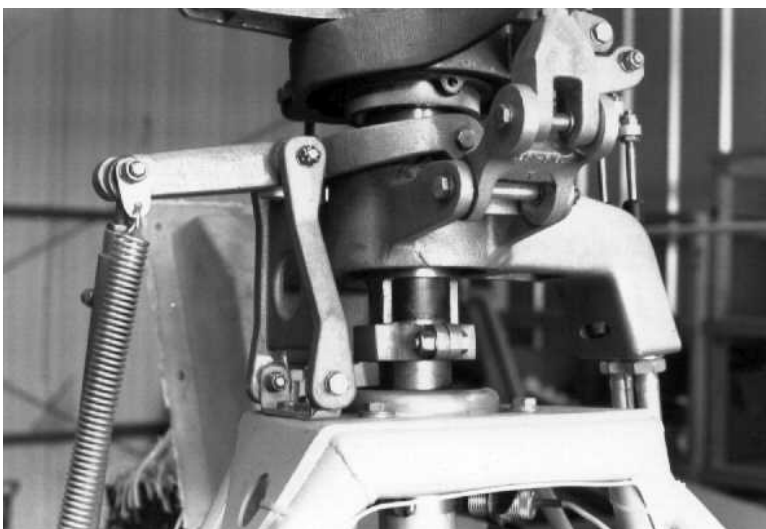


Photo #3

When the collective is in the full up position the lower part of the slider ball must not come out of the slider ball clamp.

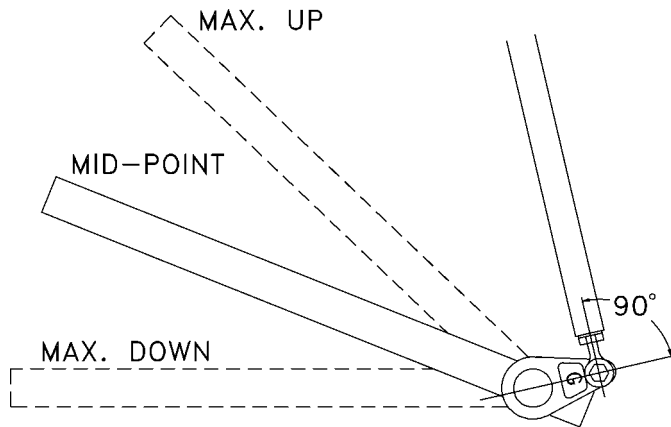


Photo #4

When the collective is at the center of travel, control arm "G" and the collective control rod should be 90 degrees relative to each other. Hold this position, drill control arm "G" and install the bolt.



Photo #5

Construct the collective control spring attachment shown on print E23-2000.

Note: To clear the body, it may be necessary to bend the lower end of the bottom strap (#50 on print E49-2002) which connects the spring to the fuel tank bracket.



Photo #6

Install the cyclic control cables in the cyclic cable mount so there is an equal amount of thread on both the inside and outside of the cable mount.

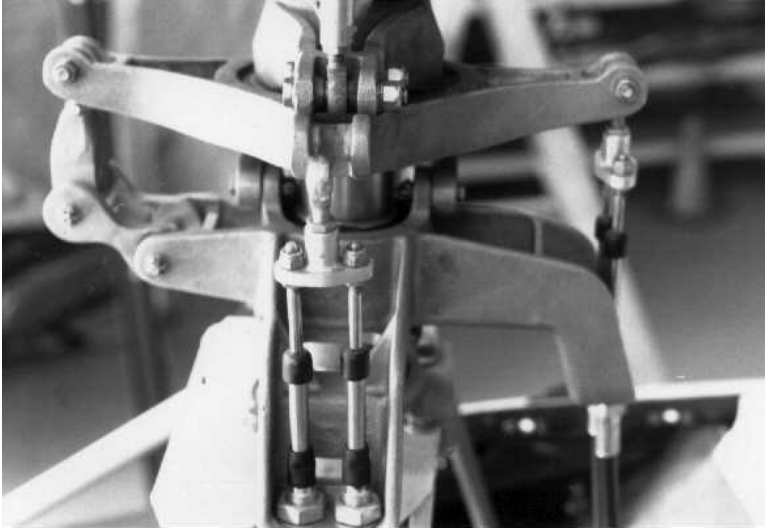


Photo #7

Install the cyclic control cable "T" on the end of the cyclic control cables so that the rod end is offset to one side of the opening in the non- rotating swash plate.

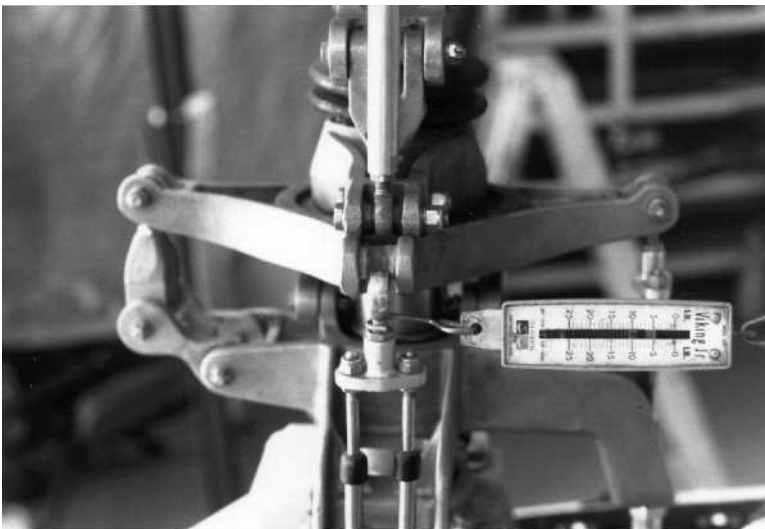


Photo #8

For the correct bias of the cyclic control cables, use a spring scale and attach it to the rod end. Pull four pounds in the direction shown to align the rod end with the opening in the non rotating swash plate. Adjust the 1/4" nuts on the end of the cables until this is achieved.



Photo #9

When the bias is correct, install the rod end in the non rotating swash plate.