

NO. 19  
JANUARY 23, 1947

FIELD SERVICE BULLETIN

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NOSE GEAR ACTUATING CYLINDER REPLACEMENT

The mounting of the present nose gear actuating cylinder allows side loads to be applied to the cylinder which may cause cylinder failure. Existing cylinders should be replaced as soon as possible on all airplanes, with a new cylinder incorporating a universal mounting. The new cylinder is furnished in kit No. 145-89021 and is installed as follows:

1. Jack the airplane in the prescribed manner. Disconnect 145-58803-8 and -10 nose gear actuating cylinder hydraulic lines from hydraulic connection plate (from T fitting on Airplanes NAV-4-2 through NAV-4-25), and plug fittings in connection plate to prevent hydraulic fluid from leaking. (To facilitate the removal of these lines, the other two hydraulic lines may be disconnected from the connection plate.)
2. Disconnect 145-58013-10 actuating cylinder from mounting bracket, and from nose gear actuating arm. Remove 145-58803-10 line from actuating cylinder.
3. Install two 400 x 4 elbows in new 145-58014 actuating cylinder. Connect 145-58803-32 line to upper elbow in cylinder and the removed 145-58803-10 line to lower elbow. (On Airplanes NAV-4-2 through NAV-4-25, connect 145-58803-36 line to cylinder upper elbow and 145-58803-38 line to lower elbow.)
4. Install 145-58014 actuating cylinder to mounting bracket, using new NAS75-4-128 bushing, and previously removed bolt and nut. Connect cylinder to nose gear actuating arm, using the following procedure: With linkage in the past-center position and operating cylinder in the retracted position, adjust cylinder rod end so that hole aligns with bolt hole in actuating arm; then screw in one turn, and connect, using previously removed bolt, bushing, and nut.
5. Reconnect hydraulic lines to the hydraulic connection plate or to T fitting, and check the landing gear for satisfactory operation.

NOTE: Time required to make this installation should not exceed two man-hours.

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