

METHOD FOR REPAIR AND REPLACEMENT OF COMBUSTOR LINER PANEL

ABSTRACT

A method for repairing a damaged portion of a combustor inner liner assembly (48, 80). The method includes removing the combustor (45) from a gas turbine engine (10). After inspecting the combustor (45) to determine whether cracks exist in portions of the inner liner assembly (48, 80), the method includes removing a cracked inner liner assembly (48, 80) from the combustor (45). Then the portion of the inner liner assembly (48,80), comprising a multi-hole panel region (84), an aft lip region (86), an aft seal flange region (87) and an aft panel support leg (88) are separated from the inner liner assembly (48,80). The multi-hole panel region (84) and aft lip region (86), where fatigue damage typically exists, along with the aft seal flange region (87), are discarded and a new aft lip region/aft seal flange region and multi-hole panel region are provided. The new parts are joined to the aft panel support leg (88) and the inner liner assembly aft of forward bolt flange region (81) after these parts are refurbished. The inner liner assembly (48,80) is then reattached to the combustor (45) and reassembled into the engine (10).

Fig. 3