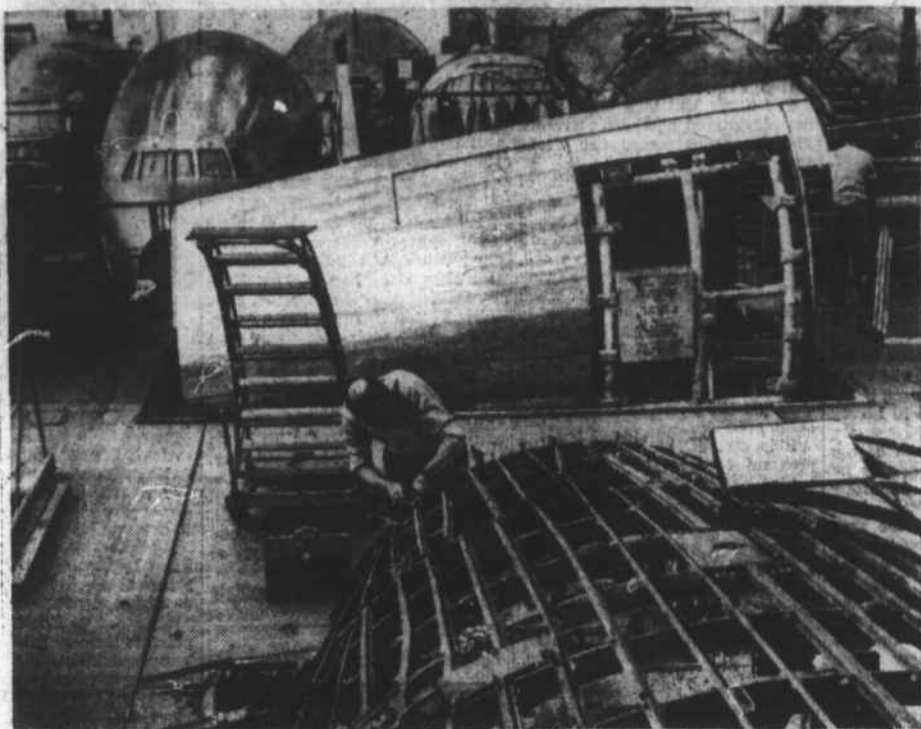


AIR LINER IN THE MAKING



1. Skilled precision workers put finishing touches on framework of a new Super Constellation at Lockheed plant in Burbank. Form which holds ribs and stringers in place is called a "jig."

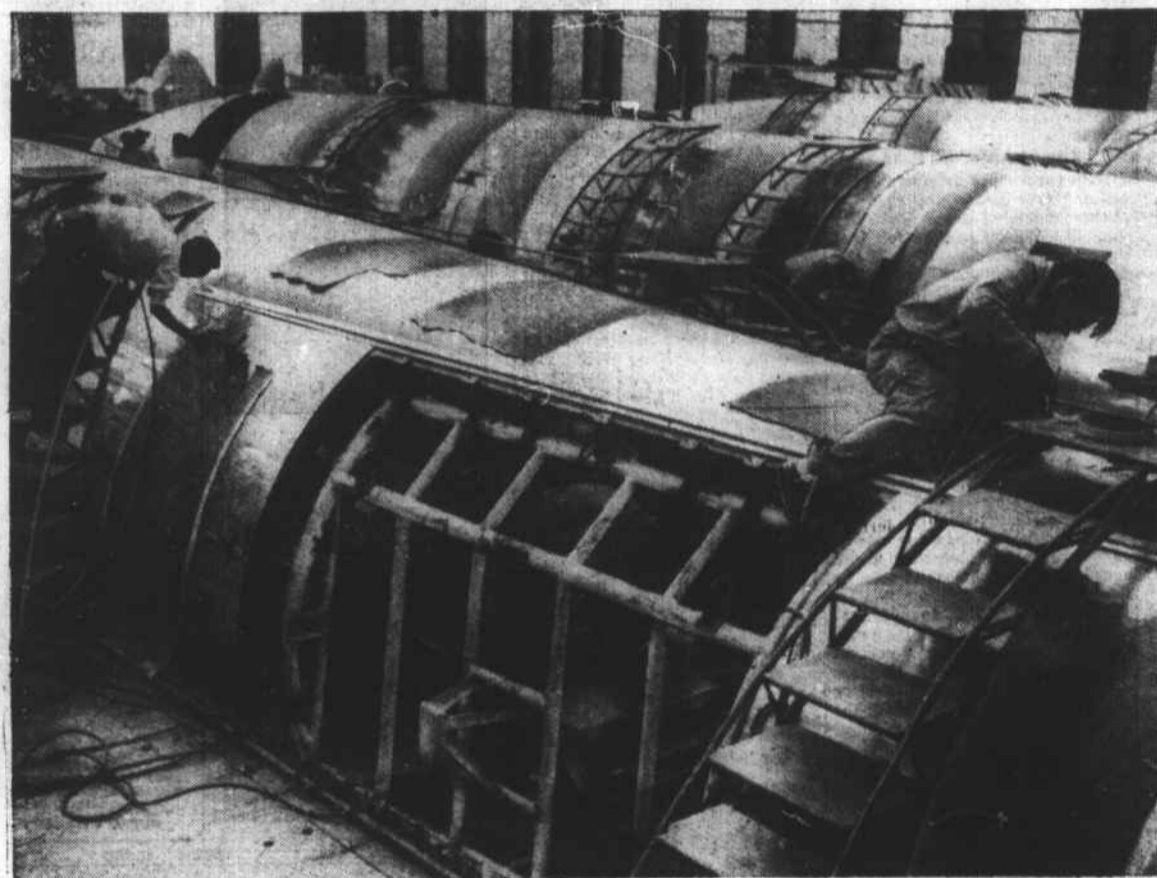
What is the recipe for a modern air liner? The kind that develops a 6-mile-a-minute speed on five-mile-high air lanes and has an ocean-spanning range? Here's how top-flight chefs of the aircraft industry concoct them:

Take 103,000 manufactured parts plus 250,000 nuts, bolts, screws and rivets. Mix with 47 miles of wire (300,000 pieces), add a pinch or two of paint, glass, rubber, plastic and cable. Wrap in 18 tons of aluminum. Then add four giant engines. Spread around a 100-acre factory and agitate. Use lathes, winches, rivet guns, presses, drills, hammers, pliers and punches. Stir with 12,000 hands. Finish design to customer's specifications: as a luxury liner, tourist-fare transport, radar early-warning plane, hospital ship or cargo transport.

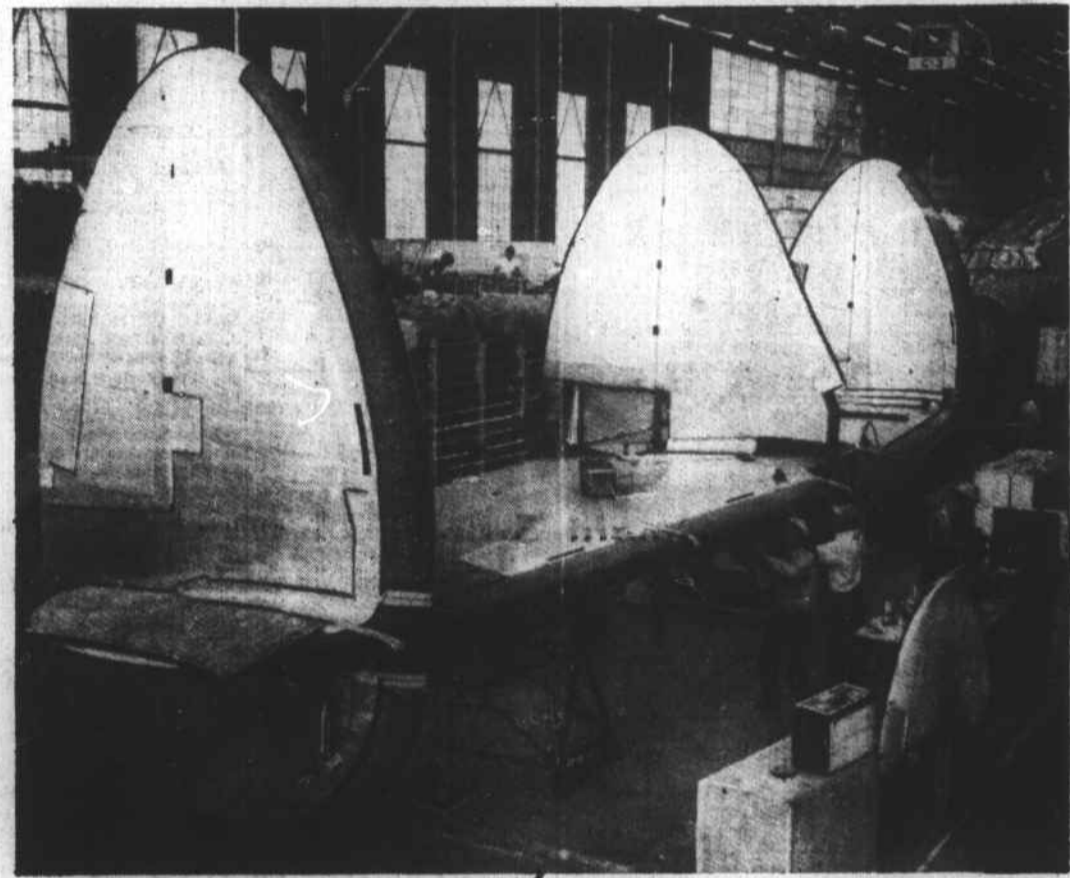
These are what go into the making of a giant, streamlined Super Constellation of the Lockheed aircraft corporation plant in Burbank, Calif., pictured here from the skeleton stage to completion.



2. Workers affix metallic snap-on fasteners to hold outer aluminum alloy skin position for riveting positions. Fasteners are then replaced by finishing rivets.



3. Strangely shaped ladders fit over huge cylindrical fuselage sections in order to protect transport from scratch, scuff and scar. Heavy paper protects outer aluminum during assembly line work.



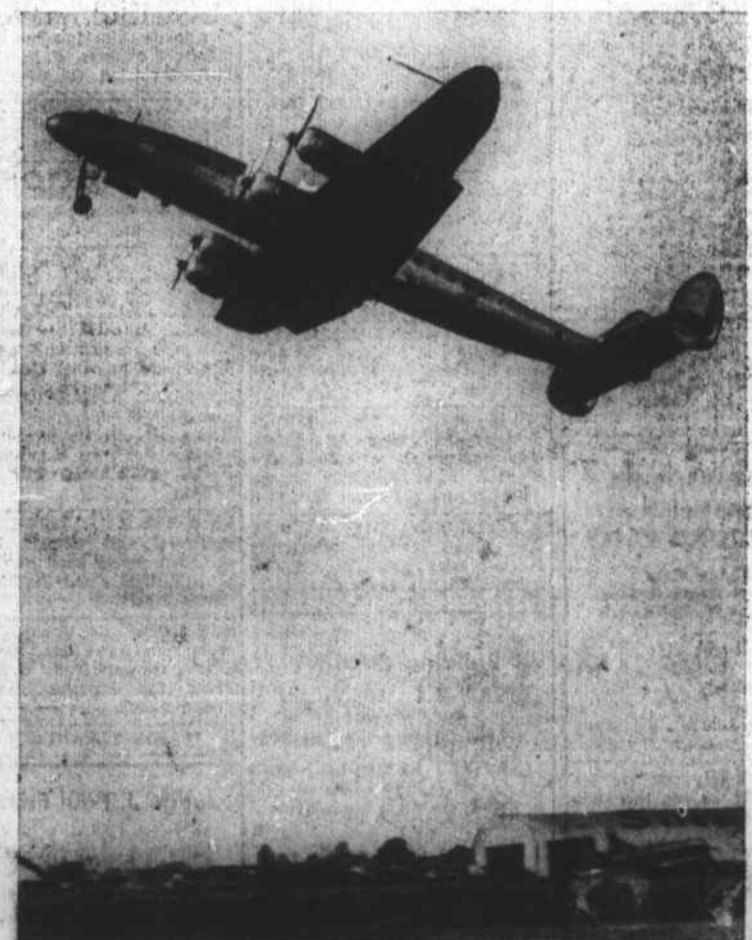
4. Huge tail section with its triple-fin arrangement dwarfs production workers at right as they cement tough deicer boots directly to leading edges. Entire tail section is referred to as the empennage.



5. Workers guide main landing gear into position. Main gear units fit into inboard engine nacelles; forward leg retracts into fuselage.



6. Skilled girl worker installs intricate electrical wiring system. She uses blueprint and photograph for reference to installation procedures.



7. Slanting skyward under full power, a new Super Constellation demonstrates its climbing ability in test takeoff at Lockheed plant in Burbank.