

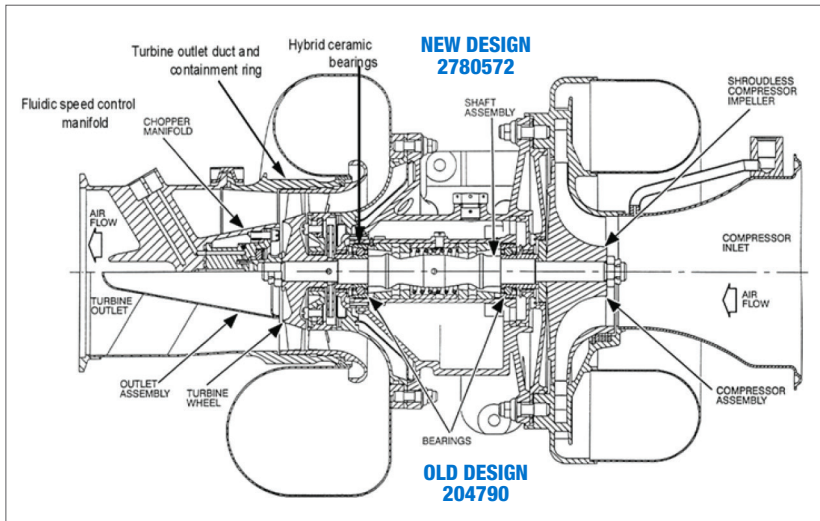
P-3 Air Flow Multiplier Upgrade

P/N: 2215790-1-1

NSN:4310-01-476-1943

Honeywell

New Design vs. Old Design

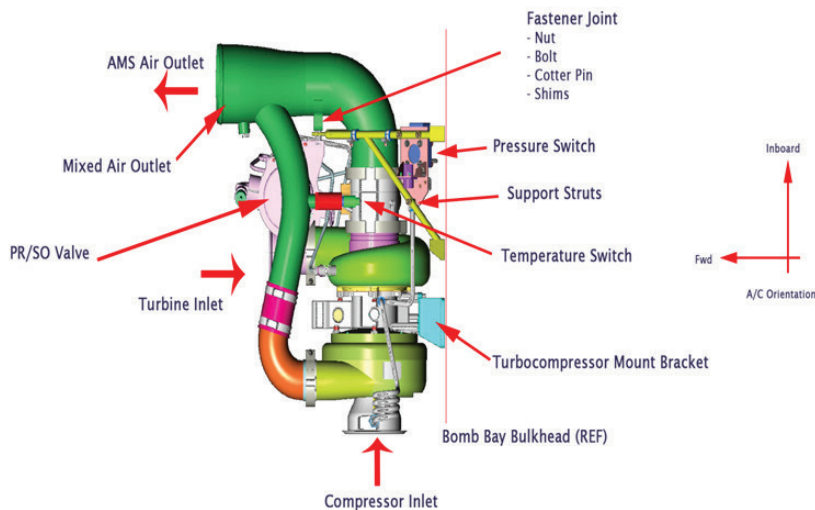


Originally manufactured by Honeywell, the P-3 Air Flow Multiplier required an upgrade to improve reliability and performance while reducing man hours support.

The Air Flow Multiplier is prone to system induced surges due to over pressure and over temperature conditions. If any of these conditions were to occur during operation, the bootstrap refrigeration units could overheat, posing a fire hazard.

Critical Issues

- » Over-speed
- » Shroud joint fatigue
- » Thin outlet wall
- » Bearing failure
- » Low MTBF



Features and Benefits

- » Increased Reliability:
 - Ceramic hybrid bearings used in turbo-compressor
 - Upgraded pressure regulator controls
 - Increased mission effectiveness and improved avionics life
- » Improved Safety:
 - Prevention of AMS over-speed thru fluidic control
 - Improved turbine wheel containment
- » AMS Speed Within A Narrow Band:
 - Incorporation of periodic functional testing of the thermal & pressure switches
- » Drop-In Replacement:
 - Installation into P-3 models without airframe or duct modification (except P-3C update III aircraft)



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