



## CARBON BRAKE AND LOCK RING WHEEL FOR F-15C/D/E

# SAFER OPERATION, LOWER LIFE-CYCLE COST

### Improved thermal management brings enhanced safety and reliability

Collins Aerospace has engineered exceptional performance into our carbon brake and lock ring wheel for the F-15C/ D/E. These components deliver substantial benefits, starting with a longer life cycle.

The carbon brake can deliver up to four times more landings per overhaul (LPO) than the current brake. For example, on the F-15E, our carbon brake delivers 1,400 landings before wear-out, compared with 342 for the aircraft's current brake. Our carbon brake also requires fewer brake replacements.

The brake operates cooler as well, with brake fluid temperatures that are 28% lower (227° F versus 314° F for a normal energy stop) for safer operation and a longer life cycle.

Our lock ring wheel can last up to 17 times longer (25,000 miles versus 1,500 miles) when compared with the current F-15C/D wheel. This means fewer replacements and increased operational usage.

The lock ring wheel also enables your maintenance crew to change a tire 80% faster – averaging 52 minutes versus 255 minutes with the current bolted wheel.

Decrease your maintenance time, increase your operational readiness and decrease your total cost of ownership with our carbon brakes and lock ring wheels.

### KEY FEATURES & BENEFITS

- Longer wheel fatigue life
- More landings per overhaul
- Faster tire change time for F-15C/D
- Reduced brake fluid temperature

**FEATURES**

**BENEFITS**

Longer wheel fatigue life

- 17X life (25,000 vs. 1,500 mile life for current F-15C/D wheel)
- Fewer wheel replacements
- Increased operational usage

More landings per overhaul

- 4X life (1,400 vs. 342 LPO for current F-15E heatsink)
- Fewer brake replacements
- Increased operational usage

Faster tire change time for F-15C/D

- Up to 80% reduced tire change time (52 vs. 255 min. for current wheel)
- Decreased maintenance time

Reduced brake fluid temperature

- 28% reduction in brake fluid temperatures (227° F vs 314° F) for a normal energy stop

**BRAKE SPECIFICATIONS**

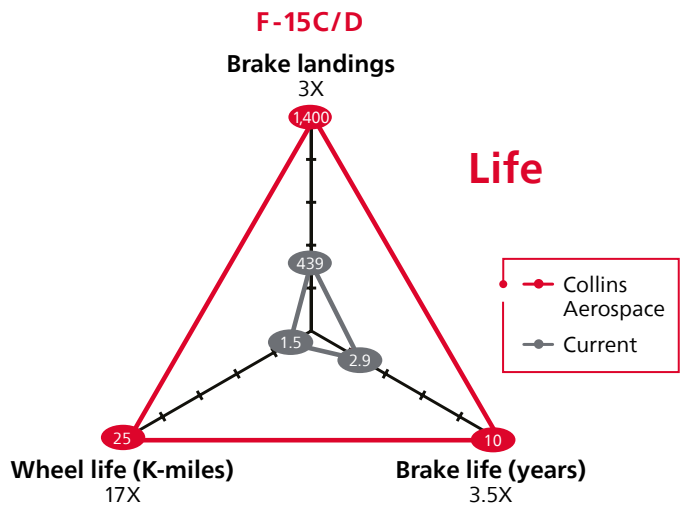
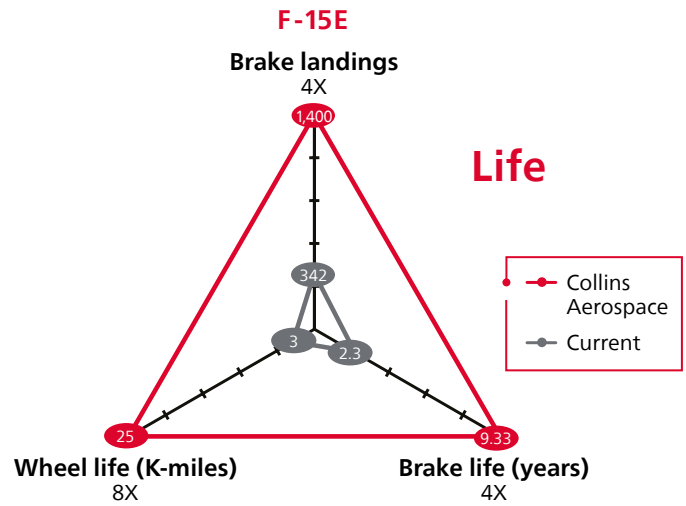
**F-15E**

**F-15C/D**

Part number	2-1761	2-1762
Type	Carbon	Carbon
Adjuster type	Dry internal	Dry internal
Number of rotors	4	3

**WHEEL SPECIFICATIONS**

Part number	3-1693	3-1694
Type	Lock ring	Lock ring
Tire type	Radial or bias	Radial or bias
Brake drive type	Torque bar	Torque bar



Specifications subject to change without notice.



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