

**FAG**



# CFM56 Repair Program

FAG Aerospace

**SCHAEFFLER GROUP**  
INDUSTRIAL

# CFM56 Repair program

## Features

We are committed to joint development partnerships with technology leaders in the aviation and aerospace industry. Our customers are world renowned manufacturers of airplanes, aircraft engines, helicopters, space launchers and satellites. International airlines and engine maintenance shops apply our competence in bearing diagnosis and repair.

The engine CFM56 has been manufactured since 1982 by CFM International (CFM). The Schaeffler Group supplies, amongst other things, the engine bearing for bearing position #4 in CFM56, *Figure 1*.



*Figure 1*  
Engine bearing position #4  
in CFM56

## Engine variants and applications

The engine CFM56 is available in the following variants:

- CFM56-2 (since 1982)
- CFM56-3 (since 1984)
- CFM56-5A (since 1988)
- CFM56-5B (since mid 1990)
- CFM56-5C (since 1993)
- CFM56-7B (since 1994)

It is fitted in several types of aircraft, see table.

## Applications

| CFM56-2    |      | CFM56-3        | CFM56-5A    |
|------------|------|----------------|-------------|
| Boeing 707 | E-3  | Boeing 737-300 | Airbus A320 |
| KC-135R    | KE-3 | Boeing 737-400 | –           |
| –          | E-6  | Boeing 737-500 | –           |

## Applications (continued)

| CFM56-5B    | CFM56-5C        | CFM56-7B         |       |
|-------------|-----------------|------------------|-------|
| Airbus A318 | Airbus A340-200 | Boeing 737-600   | C-40  |
| Airbus A319 | Airbus A340-300 | Boeing 737-700   | P-8A  |
| Airbus A320 | –               | Boeing 737-800   | AET&C |
| Airbus A321 | –               | Boeing 737-900   | –     |
| –           | –               | Boeing 737-900ER | –     |
| –           | –               | Boeing 737-BBJ   | –     |

## FAG bearing identification

FAG Aerospace is certified to repair and service engine bearings #3R and #4.

Only original bearing manufacturers are CFMI-approved to repair or modify their own part numbers in accordance with the applicable Service Bulletins, see tables.

In order to improve identification of bearing types, an interchange list of the old and new part numbers is provided:

### Engine bearing #4

| Bearing location | Part number   |               |
|------------------|---------------|---------------|
|                  | Old:          | New:          |
| #4               | 335-352-301-0 | 335-352-304-0 |
|                  | 335-352-302-0 | 335-352-305-0 |
|                  | 335-352-303-0 | –             |

Continuing approval is in place for engine bearing #3R:

### Engine bearing #3R

| Bearing location | Part number | Engine |
|------------------|-------------|--------|
| #3R              | 1364M91P05  | -5A    |
|                  |             | -5B    |
|                  |             | -5C    |
|                  |             | -7B    |

### References for engines and Service Bulletins

| Engine | Service Bulletin #4 |
|--------|---------------------|
| -2     | 72-0914             |
| -2A    | 72-0517             |
| -2B    | 72-0659             |
| -2C    | 72-0914             |
| -3     | 72-0988             |
| -3B    | 72-0988             |
| -3C    | 72-0988             |
| -5A    | 72-0659             |
| -5B    | 72-0452             |
| -5C    | 72-0490             |
| -7B    | 72-0400             |

The standard turn around time is 18 calendar days between receipt and despatch at FAG.

### Certifications

FAG is a maintenance company with certification from the following civil aviation authorities:

- EASA, Repair Station No. DE.145.0127
- FAA, Repair Station No. F2GY854J
- CAAC, Repair Station No. F04900413
- TCCA, Repair Station No. 809-23.

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