

Therefore, this flight manual must be modified as follows:

1. General

The general information in Section 1 is applicable.

2. Limitations

The limitations in Section 2 are applicable.

3. Normal Procedures

The normal procedures in Section 3 are applicable.

4. Emergency Procedures

The emergency procedures in Section 4 are applicable.

5. Procedures Following Failures

The procedures following failures in Section 5 are applicable.

6. Performances

The performances in Section 6 for dry runways and in Section 7.03 for non-dry runways (advisory materials) are applicable with the addition of the following for takeoff computations:

- Determine VR for the lowest available V2,
- Assume V1=VR,
- Increase TOR, TOD, ASD by 20%.

7. Appendices and Supplements

Data of Section 7 are applicable by adding what follows:

For the dispatch cases:

- Apply takeoff penalties due to the system failure,
- Then apply takeoff penalties due to the use of fluids Type II or IV.

Dispatch is not authorized in the following cases:

- Ferry flight with pitch elevators disconnected,
- Takeoff with flaps retracted."

New Requirements of This AD

AFM Revision: Model ATR 42-200, -300, -320, and -500 Series Airplanes

(b) For Model ATR42-200, -300, -320, and -500 series airplanes: Within 15 days after the effective date of this AD, revise the Appendices and Supplements chapter of the AFM by removing the AFM revision required by paragraph (a) of this AD and inserting the following procedures in the AFM (this may be accomplished by inserting a copy of this AD into the AFM):

"Takeoff After Use of Fluid Type II or IV

This appendix applies only to aircraft de-iced or anti-iced before takeoff, using fluid Type II or IV.

These types of fluid may lead to an increase in control forces necessary to rotate, and then to a modification of takeoff performance.

Therefore, this flight manual must be modified as follows:

Compliance Method Number 1

1. General

The general information in Section 1 is applicable.

2. Limitations

The limitations in Section 2 are applicable.

3. Normal Procedures

The normal procedures in Section 3 are applicable.

4. Emergency Procedures

The emergency procedures in Section 4 are applicable.

5. Procedures Following Failures

The procedures following failures in Section 5 are applicable.

6. Performances

The performances in Section 6 for dry runways and in Section 7.03 for non-dry runways (advisory materials) are applicable with the addition of the following for takeoff computations:

- Determine VR for the lowest available V2,
- Assume V1=VR,
- Increase TOR, TOD, ASD by 20%.

7. Appendices and Supplements

Data of Section 7 are applicable by adding what follows:

For the dispatch cases:

- Apply takeoff penalties due to the system failure,
- Then apply takeoff penalties due to the use of fluid Type II or IV.

Dispatch is not authorized in the following cases:

- Ferry flight with pitch elevators disconnected,
- Take-off with flaps retracted.

Compliance Method Number 2

Crew Training Required

1. General

The general information in Section 1 is applicable.

2. Limitations

The limitations in Section 2 are applicable.

3. Normal Procedures

The normal procedures in Section 3 are applicable with the addition of the following:

The Captain must be the pilot flying and the pre-takeoff briefing must include the following takeoff procedure (refer to point 5).

4. Emergency Procedures

The emergency procedures in Section 4 are applicable.

5. Procedures Following Failures

The procedures following failures in Section 5 are applicable with the addition of the following:

TAKEOFF SEQUENCE

In case of difficulties to rotate, the Captain (CPT) should request the non-flying pilot's (NFP's) assistance. In that case, on CPT order, NFP pulls the control column until 5 pitch attitude is reached, then NFP releases the controls.

PERFORMANCES

The performances in Section 6 for dry runways and in Section 7.03 for non-dry runways (advisory materials) are applicable with the addition of the following for takeoff computations:

- Increase TOD by 70 m for ATR 42-300
- Increase TOD by 80 m for ATR-42-400/-500

6. Appendices and Supplements

Data of Section 7 are applicable with the addition of the following:

For the dispatch cases:

- Apply takeoff penalties due to the system failure,
- Then apply takeoff penalties due to the use of fluid Type II or IV.

Dispatch is not authorized in the following cases:

- Ferry flight with pitch elevators disconnected,
- Take-off with flaps retracted."

AFM Revision: Model ATR 72 Series Airplanes

(c) For Model ATR72 series airplanes: Within 15 days after the effective date of this AD, revise the Appendices and Supplements chapter of the AFM by removing the AFM revision required by paragraph (a) of this AD and inserting the following procedures in the AFM (this may be accomplished by inserting a copy of this AD into the AFM):

"Takeoff After Use of Fluid Type II or IV

This appendix applies only to aircraft de-iced or anti-iced before takeoff, using fluid Type II or IV.

These types of fluid may lead to an increase in control forces necessary to rotate, and then to a modification of takeoff performance.

Therefore, this flight manual must be modified as follows:

Compliance Method Number 1

1. General

The general information in Section 1 is applicable.

2. Limitations

The limitations in Section 2 are applicable.

3. Normal Procedures

The normal procedures in Section 3 are applicable.

4. Emergency Procedures

The emergency procedures in Section 4 are applicable.

5. Procedures Following Failures

The procedures following failures in Section 5 are applicable.

6. Performances

The performances in Section 6 for dry runways and in Section 7.03 for non-dry runways (advisory materials) are applicable with the addition of the following for takeoff computations:

- Determine VR for the lowest available V2,
- Assume V1=VR,
- Increase TOR, TOD, ASD by 25%.

7. Appendices and Supplements

Data of Section 7 are applicable by adding what follows:

For the dispatch cases:

- Apply takeoff penalties due to the system failure,
- Then apply takeoff penalties due to the use of fluid Type II or IV.

Dispatch is not authorized in the following cases: