NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

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Attachment 23 American Airlines Embraer Checklist

OPERATIONAL FACTORS/HUMAN PERFORMANCE

DCA17FA021

E190

American Airlines Quick Reference Handbook

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ENG (1 or 2) FIRE, Severe Damage or Separation 53

1. If Engine Fire on Ground:
   a. ENG (1 or 2) FIRE, Severe Damage or Separation Checklist complete, and
      ☛ Go to Engine Fire on the Ground Checklist, page v.
2. Autothrottles ..... Off
3. #__ Thrust Lever ..... Confirm ..... IDLE
4. #__ START/STOP ..... Confirm ..... STOP
5. #__ Fire Handle ..... Confirm ..... PULL
6. #__ Fire Handle ..... Confirm ..... ROTATE
   [Left or Right]

Wait 30 seconds:

7. ► If ENG (1 or 2) FIRE message is annunciated or fire persists:
   a. #__ Fire Handle ..... Confirm ..... Rotate to remaining bottle

   or

   b. Imm. action items complete, assign PF, go to page 53.

   ► If ENG (1 or 2) FIRE message is <u>not</u> annunciated or fire does <u>not</u> persist:
   a. Imm. action items complete, assign PF, go to page 53.

ENG (1 or 2) REV DEPLOYED 42

1. Autothrottles ..... Off
2. #__ Thrust Lever ..... Confirm ..... IDLE
3. ► If buffeting is noticed:
   a. #__ START/STOP ..... Confirm ..... STOP

   or

   b. ► If associated engine does shutdown:

      or

      (1) Imm. action items complete, assign PF, go to page 42.

      ► If associated engine does <u>not</u> shutdown:
      (1) #__ Fire Handle ..... Confirm ..... PULL
      (2) Imm. action items complete, assign PF, go to page 42.

   ► If buffeting is <u>not</u> noticed:
   a. Imm. action items complete, assign PF, go to page 42.

Dual Engine Failure 39

1. Airspeed ..... 265 KIAS MIN
2. RAT MANUAL DEPLOY Lever ..... PULL
3. Imm. action items complete, assign PF, go to page 39.

Engine Fire on the Ground

After the aircraft is stopped:

1. **PARKING BRAKE ..... Set**
2. **Associated Thrust Lever ..... IDLE**
3. **Associated START/STOP ..... STOP**
4. **Associated Fire Handle ..... PULL and ROTATE**
   [Left or Right]

5. **If ENG (1 or 2) FIRE still annunciated:**
   a. **Associated Fire Handle ..... ROTATE to remaining bottle**
   b. **Engine Fire on the Ground Checklist complete, and**
      - **Establish and communicate a plan.**
      - **If required, accomplish Evacuation, page II. (on back cover).**

or

If ENG (1 or 2) FIRE is <u>not</u> annunciated:

a. **Engine Fire on the Ground Checklist complete, and**
   - **Establish and communicate a plan.**

Engine Tailpipe Fire

1. **Associated Thrust Lever ..... IDLE**
2. **Associated START/STOP ..... STOP**
3. **Associated Ignition ..... OFF**
4. **Associated START/STOP ..... START, then RUN**
5. **ITT ..... Monitor**

Wait 90 seconds:

6. **Associated START/STOP ..... STOP**
7. **Engine Tailpipe Fire Checklist complete, and**
   - **If fire not extinguished, notify ATC and fight fire with ground equipment.**
   - **If required, accomplish Evacuation, page II (on back cover).**

Unreliable Airspeed 120

1. **Autothrottle ..... Off**
   a. **Avoid quick thrust lever movements.**
2. **Autopilot ..... Off**
3. **Flight Director ..... Off**

Caution

Avoid using the SPEEDBRAKE.

4. **Yaw Damper ..... Off**
5. **Attitude/Thrust ..... Adjust**
6. **Imm. action items complete, assign PF, go to page 120.**

ENG (1 or 2) FIRE, Severe Damage or Separation — *[Warning]*

[Procedure continued from Immediate Action item page ii]

Note: Autothrottle may be re-engaged at the discretion of the flight crew.

8. Proceed to the nearest suitable airport for landing.
9. **If there is high vibration:**
   a. Airspeed ..... Reduce (around 200 KIAS recommended, if possible)
10. Icing Conditions ..... Exit/Avoid
11. Transponder ..... TA only
12. **If the associated EICAS fuel quantity indication is lost:**
    a. ENG (1 or 2) FIRE, Severe Damage or Separation Checklist complete, and
    - ☛ Establish and communicate a plan.
    - ☛ Consider Emergency Landing Checklist on page I (inside back cover).
    - ☛ Accomplish Fuel Leak, page 89.

    or

    If the associated EICAS fuel indication is normal:
    a. Go to step 13.
13. APU (if available) ..... START
14. FUEL ..... Balance
15. ENG (1 or 2) FIRE, Severe Damage or Separation Checklist complete, and
    - ☛ Establish and communicate a plan.
    - ☛ Consider Emergency Landing Checklist on page I (inside back cover).
    - ☛ If required, accomplish:
      - Applicable After Takeoff Checklist items.
      - Unable to Maintain Altitude - Loss of Engine Thrust, page vi.
    - ☛ Accomplish the Engine Out Descent - Approach Checklist and Engine Out Landing Checklist, page 44.

APU FIRE DET FAIL — *[Caution]*

[Condition: APU fire detection system failed.]

1. APU MASTER ..... OFF

   Note: The message APU FIRE DET FAIL may appear just before the message APU FIRE.

2. APU FIRE DET FAIL Checklist complete, and
   - ☛ Accomplish APU FIRE, page 17 if APU FIRE annunciates.

APU FIREX FAIL — *[Caution]*

[Condition: APU fire extinguisher failed.]

1. APU MASTER ..... OFF
2. APU FIREX FAIL Checklist complete.

[Dome light is available]

1. PARKING BRAKE..... Set
2. SLAT/FLAP Lever.....5
3. Thrust Levers..... IDLE
4. START/STOP 1 & 2.....STOP
5. Fire Handles..... PULL and if required ROTATE
6. APU EMER STOP..... PUSH IN
7. APU FIRE EXTINGUISHER (if required)..... PUSH IN
8. PRESSURIZATION DUMP..... PUSH IN
9. ATC ..... Notify
10.PA.....This is the Captain. Evacuate. Evacuate. Evacuate.
11.BATT 1 & 2..... OFF
12. Evacuation Checklist complete.

[If time permits, additional information is available in Evacuation page 3.]