

CHECK BEING PERFORMED: Custom

ZONES: 100
A/C NUMBER:
REV. DATE: 04/07/06
FREQUENCY: 1C

W/C NUMBER: 510F2150
DATE:
W/O:
JAC CODE:



PANELS

137EL 137GL
137FR

REFERENCES

MM 21-21-01 MM 71-00-00 510F2150

MECH INSP

* PERFORM IN CONJUNCTION WITH WORKCARDS *
541F7301, 541F7101, 542F7301, 542F7101, 543F7301, 543F7101
* IF ISSUED DURING THIS CHECK *

PERFORM PACK FLOW CONTROL VALVE FLOW TESTS

| _____ XXXXX 1. OPEN MESC FLOOR PANELS FOR ACCESS TO VALVES.
(137EL, 137GL, 137FR FOR -500 AIRCRAFT).

| _____ 2. COMPLY WITH PACK FLOW CONTROL VALVE FLOW TEST
OF SYSTEM #1.

| _____ A. Establish air supply.

| _____ XXXXX (1) Start #1 engine. (Ref MM 71-00-00).

| _____ XXXXX (2) Latch in HP valve.

| _____ XXXXX (3) Increase engine power to achieve max bleed pressure
available 30 to 44 PSIG (1.07 to 1.10 EPR). Use
engine power to maintain at least 25 PSIG during
test.

| _____ B. Prepare ECS Panel by performing the following:

| _____ XXXXX (1) Ensure all three pack flow control switches are
unlatched to the OFF position.

| _____ XXXXX (2) Unlatch the #1 Pack "AUTO/MNL" Switch to "MNL".

| _____ XXXXX (3) Push the #1 Pack "WARM" button till Turbine Bypass
Valve indication is in the full hot position.

| _____ C. Valve observation.

CAUTION: The pack should not be operated longer than

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necessary to check valve regulation. Extended operation with Turbine Bypass Valve manually selected to full warm will cause pack overheat and system lockout.

| _____ XXXXX (1) Latch in the #1 Pack Flow Control Switch to the open position.

| _____ (2) Observe the Pack Flow Control Valve position in the MESC. The Pack Flow Control Valve position arm will move to approximately 50 degree open if the valve is properly mass flow regulating.

NOTE: If the Pack Flow Control Valve position arm moves 90 degrees open, the valve is not properly mass regulating and should be changed.

| D. Return system controls to normal.

| _____ XXXXX (1) Latch the #1 Pack "AUTO/MNL" Switch to "AUTO".

| _____ XXXXX (2) Shut down engine, if no longer required.

| 3. COMPLY WITH PACK FLOW CONTROL VALVE FLOW TEST OF SYSTEM #2.

| A. Establish air supply.

| _____ XXXXX (1) Start #2 engine. (Ref MM 71-00-00).

| _____ XXXXX (2) Latch in HP valve.

| _____ XXXXX (3) Increase engine power to achieve max bleed pressure available 30 to 44 PSIG (1.07 to 1.10 EPR). Use engine power to maintain at least 25 PSIG during test.

| B. Prepare ECS Panel by performing the following:

| _____ XXXXX (1) Ensure all three pack flow control switches are unlatched to the OFF position.

| _____ XXXXX (2) Unlatch the #2 Pack "AUTO/MNL" Switch to "MNL".

| _____ XXXXX (3) Push the #2 Pack "WARM" button till Turbine Bypass Valve indication is in the full hot position.

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C. Valve observation.

CAUTION: The pack should not be operated longer than necessary to check valve regulation. Extended operation with Turbine Bypass Valve manually selected to full warm will cause pack overheat and system lockout.

| _____ XXXXX (1) Latch in the #2 Pack Flow Control Switch to the open position.

| _____ (2) Observe the Pack Flow Control Valve position in the MESC. The Pack Flow Control Valve position arm will move to approximately 50 degree open if the valve is properly mass flow regulating.

NOTE: If the Pack Flow Control Valve position arm moves 90 degrees open, the valve is not properly mass regulating and should be changed.

D. Return system controls to normal.

| _____ XXXXX (1) Latch the #2 Pack "AUTO/MNL" Switch to "AUTO".

| _____ XXXXX (2) Shut down engine, if no longer required.

4. COMPLY WITH PACK FLOW CONTROL VALVE FLOW TEST OF SYSTEM #3.

A. Establish air supply.

| _____ XXXXX (1) Start #3 engine. (Ref MM 71-00-00).

| _____ XXXXX (2) Latch in HP valve.

| _____ XXXXX (3) Increase engine power to achieve max bleed pressure available 30 to 44 PSIG (1.07 to 1.10 EPR). Use engine power to maintain at least 25 PSIG during test.

B. Prepare ECS Panel by performing the following:

| _____ XXXXX (1) Ensure all three pack flow control switches are unlatched to the OFF position.

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| _____ XXXXX (2) Unlatch the #3 Pack "AUTO/MNL" Switch to "MNL".

| _____ XXXXX (3) Push the #3 Pack "WARM" button till Turbine Bypass Valve indication is in the full hot position.

| C. Valve observation.

CAUTION: The pack should not be operated longer than necessary to check valve regulation. Extended operation with Turbine Bypass Valve manually selected to full warm will cause pack overheat and system lockout.

| _____ XXXXX (1) Latch in the #3 Pack Flow Control Switch to the open position.

| _____ (2) Observe the Pack Flow Control Valve position in the MESC. The Pack Flow Control Valve position arm will move to approximately 50 degree open if the valve is properly mass flow regulating.

NOTE: If the Pack Flow Control Valve position arm moves 90 degrees open, the valve is not properly mass regulating and should be changed.

| D. Return system controls to normal.

| _____ XXXXX (1) Latch the #3 Pack "AUTO/MNL" Switch to "AUTO".

| _____ XXXXX (2) Shut down engine, if no longer required.

| _____ 5. GENERATE NON-ROUTINE ITEMS TO CORRECT ANY VALVES NOT OPERATING PROPERLY. LIST N.R. GENERATED. _____.

| _____ XXXXX 6. CLOSE MESC FLOOR PANELS 137EL, 137GL, 137FR.

*****END OF WORKCARD*****