ALERT

Number:	**737-26A1137**
Original Issue:	May 22, 2014
Revision 1:	August 28, 2015
ATA System:	2616 2127

SUBJECT: FIRE PROTECTION - Cargo Bay Smoke Detection - Equipment Cooling System Smoke Clearance Mode Operational Test for Cargo Smoke Protection

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Revision Transmittal Sheet

SUBJECT: FIRE PROTECTION - Cargo Bay Smoke Detection - Equipment Cooling System Smoke Clearance Mode Operational Test for Cargo Smoke Protection

This revision includes all pages of the service bulletin.

COMPLIANCE INFORMATION RELATED TO THIS REVISION

Federal Aviation Administration (FAA) Notice of Proposed Rule Making NPRM 2014-NM-201-AD, is related to this service bulletin.

Effects of this Revision on airplanes on which original issue was previously done:

None.

REASON FOR REVISION

This revision is sent to clearly identify the compliance time and inspection interval for airplanes delivered after the original issue date of this service bulletin. These airplanes have been moved from Group 3 to new Group 4.

These sections were changed:

1. Summary, Background, changed text.
2. Summary, Action, changed text.
3. Summary, Compliance, added NPRM reference.
4. Summary, Illustration, changed text.
5. Paragraph 1.A.1., Airplanes, changed applicability and added Group 4.
6. Paragraph 1.C., Reason, changed text and added statement.
7. Paragraph 1.D., Description, added statement and changed text.
8. Paragraph 1.E., Compliance, added NPRM reference and new Group 4 to the compliance table, changed text.
9. Paragraph 1.J.1., Existing Data, added NPRM reference.

10. Paragraph 1.K.1., Publications, changed references.

11. Paragraph 3.B., Work Instructions, removed duplicated reference, added notes and identified step 2.c. as Required for Compliance.

Vertical lines are put on the left edge of each page, except in Paragraph 1.A., Effectivity and format changes, to show the location of all content changes.

Pages with no vertical lines have no changes.

REVISION HISTORY

Original Issue:	May 22, 2014
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Original Issue: May 22, 2014
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Summary

SUBJECT: FIRE PROTECTION - Cargo Bay Smoke Detection - Equipment Cooling System Smoke Clearance Mode Operational Test for Cargo Smoke Protection

THIS BULLETIN IS SENT TO THE OPERATORS OF RECORD OF THE AIRPLANES SHOWN IN PARAGRAPH 1.A., EFFECTIVITY. IF AN AIRPLANE HAS BEEN LEASED OR SOLD, SEND THIS SERVICE BULLETIN TO THE NEW OPERATOR. IF APPLICABLE SPARES HAVE BEEN SOLD, SEND THIS SERVICE BULLETIN TO THE NEW OWNER.

CONCURRENT REQUIREMENTS

Refer to Paragraph 1.B., Concurrent Requirements.

BACKGROUND

This service bulletin gives instructions to do the Smoke Clearance Mode - Operational Test at repeat intervals on airplanes equipped with the reconfigurable low pressure air distribution system during a cargo fire event. The repeat operational testing of the equipment cooling system and low pressure environmental control system will reduce the probability of a latent failure which, in conjunction with a cargo fire event, could result in smoke in the flight deck and possible loss of aircraft control.

A review by Boeing found that there was no maintenance procedure available to inspect the components used to reconfigure the air distribution system to the cargo fire mode. A cargo fire event in conjunction with a latent failure of the air distribution system can possibly result in smoke penetration to occupied areas. The amount of smoke and toxicity of the smoke that could reach the occupied areas is unknown.

Boeing Service Bulletins 737-26-1121 and either 737-21-1135 or 737-21-1163 are related to 737-26-1122. Accomplishment of the changes in the Boeing Service Bulletins 737-26-1121, 737-21-1135 or 737-21-1163 will not cause a failure of the test in this service bulletin. Boeing Service Bulletin 737-26A1083 is related to 737-21-1135.

Boeing Service Related Problem (SRP) 737-SRP-26-0079 is related to this service bulletin.

This table is provided to operators for planning purposes only. Refer to the applicable sections for more information.

Planning Data	Affected	Reference
Spares Affected	No	Paragraph 1.A.2., Spares Affected

Planning Data	Affected	Reference
AD Related	Yes	Paragraph 1.E., Compliance and Paragraph 1.F., Approval
Weight and Balance Change	No	Paragraph 1.H., Weight and Balance Changes
Electrical Load Changed	No	Paragraph 1.I., Electrical Load Data
Publications Affected	Yes	Paragraph 1.K., Publications Affected
Airplane Flight Operations Affected (Flight Crew Operations Manual and/or FAA Approved Airplane Flight Manual)	No	Paragraph 1.K., Publications Affected
Kits/Parts Required	No	Paragraph 2.C.1., Kits/Parts
Operator Supplied Parts/Material	No	Paragraph 2.C.2., Parts and Materials Supplied by the Operator
Special Tooling Required	No	Paragraph 2.F., Special Tooling Necessary to do this Service Bulletin

ACTION

Get access into the flight compartment and main electronics equipment compartment. As an alternate location to the flight compartment to make sure of the recirculation fan's operation, between the left and right air conditioning pack compartments, open the access panel to the ground conditioned air connection duct. Do the Smoke Clearance Mode - Operational Test to make sure the Cargo Fire Protection system operates correctly. If the Smoke Clearance Mode - Operational Test result is not satisfactory, do the troubleshooting procedure on the equipment cooling system and low pressure environmental control system to find and replace faulty components.

EFFECTIVITY

All 737-600, 737-700, 737-700C, 737-800, 737-900, 737-900ER Airplanes. Refer to Paragraph 1.A., Effectivity, for the list of affected airplanes.

COMPLIANCE

Federal Aviation Administration (FAA) Notice of Proposed Rule Making NPRM 2014-NM-201-AD, is related to this service bulletin.

Refer to Paragraph 1.E., Compliance.

INDUSTRY SUPPORT INFORMATION

Boeing warranty remedies are not available for the Operational Test given in this service bulletin.

MANPOWER

Airplanes	Total Task Hours	Elapsed Hours
Each 737 Airplane	4.00	2.50

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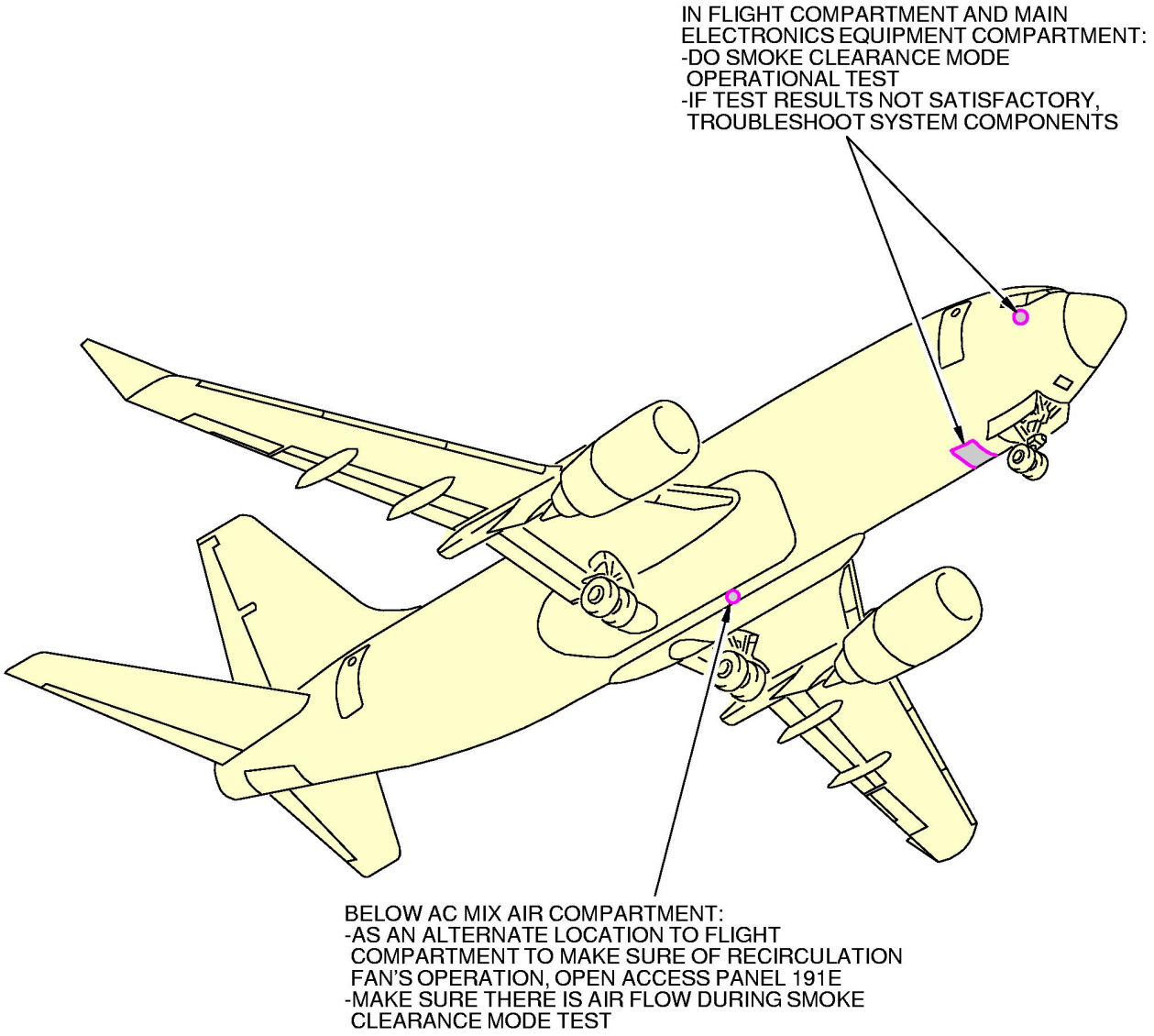
MATERIAL INFORMATION

None.



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1. PLANNING INFORMATION

A. Effectivity

1. Airplanes

Refer to Service Bulletin Index Document D6-19567 Part 3 for Airplane Variable Number, Line Number, and Serial Number data.

This service bulletin is applicable to 737-600, 737-700, 737-700C, 737-800, 737-900, 737-900ER, from line number 1 and on in 4 Groups. The Variable Numbers and Group Information for the applicable airplanes is given below.

NOTE: Variable numbers for airplanes scheduled to be delivered more than a year after the Original Issue date of this service bulletin are not listed in the table below. My Boeing Fleet (MBF) will show current listing of the affected airplanes.

NOTE: The Variable Number table below includes all affected airplanes up to Line Number 6060. Affected airplanes after Line Number 6060 will be added to the service bulletin's MyBoeingFleet.com (MBF) "get effectivity" result when they are added to the MBF Fleet Profile Page.

GROUP	CONFIGURATION	DESCRIPTION
1	-	737-600/-700/-800 Line Numbers 1 Through 1700 Included in Boeing Service Bulletin 737-26-1122
	1	Airplane Line Numbers 1 Through 1700 Included in Boeing Service Bulletin 737-26-1122 and Had Not Accomplished Boeing Service Bulletin 737-26-1122
	2	Airplane Line Numbers 1 Through 1700 Included in Boeing Service Bulletin 737-26-1122 and Had Accomplished Boeing Service Bulletin 737-26-1122
2	-	737-700/-700C/-900 Line Numbers 1 Through 1700 Not Included in Boeing Service Bulletin 737-26-1122
3	-	737-600/-700/-700C/-800/-900/-900ER Line Numbers 1701 Through 4922 and 4925 delivered on or before the original issue date of the service bulletin.
4	-	737-700/-700C/-800/-900ER Line Numbers 4923, 4924 and 4926 and on delivered after the original issue date of the service bulletin.

Airplane Models:

737-600, 737-700, 737-700C, 737-800, 737-900, 737-900ER

Variable Number	Group
YA001 - YA099	1
YA101 - YA199	1
YA201 - YA211	1
YA221	1
YA231 - YA242	1
YA251 - YA256	1
YA271 - YA272	1
YA291	1
YA301 - YA302	1
YA311 - YA314	1
YA321 - YA323	1
YA336 - YA345	1
YA351	1
YA356 - YA357	1

Variable Number	Group
YA366 - YA367	1
YA371 - YA377	1
YA501 - YA536	1
YA541 - YA552	1
YA571 - YA578	1
YA601 - YA615	1
YA621 - YA622	1
YA626 - YA631	1
YA635 - YA636	1
YA641 - YA642	1
YA645 - YA650	1
YA656 - YA659	1
YA666 - YA667	1
YA671 - YA672	1
YA681 - YA691	1
YA701 - YA710	1
YA721 - YA722	1
YA731 - YA734	1
YA751 - YA756	1
YA801 - YA803	1
YA809	1
YA811 - YA814	1
YA831 - YA835	1
YA841 - YA862	1
YA881 - YA882	1
YA891 - YA892	1
YA961 - YA976	1
YA977 - YA978	3
YB001 - YB006	1
YB101 - YB132	1
YB151 - YB153	1
YB156 - YB157	1
YB158	3

Variable Number	Group
YB161 - YB164	1
YB171 - YB172	1
YB181 - YB184	1
YB201 - YB208	1
YB271	1
YB276	1
YB301 - YB310	1
YB371 - YB380	1
YB381 - YB392	3
YB501 - YB502	1
YB521 - YB525	1
YB526	3
YB541 - YB544	1
YB551	1
YB561 - YB573	1
YB574 - YB580	3
YB581 - YB586	1
YB587 - YB598	3
YB601 - YB629	1
YB630	3
YB631 - YB632	1
YB633 - YB636	3
YB651	1
YB656	1
YB671 - YB672	3
YB851 - YB859	1
YB860	3
YB861 - YB863	1
YB871 - YB873	1
YB874	3
YB881 - YB888	1
YB889 - YB893	3
YB901 - YB903	1

Variable Number	Group
YB911	1
YB961 - YB975	3
YB981	3
YB986 - YB998	3
YC001 - YC030	1
YC051 - YC083	1
YC084	3
YC091 - YC094	1
YC095	3
YC101 - YC104	1
YC111 - YC113	1
YC121	1
YC126 - YC127	1
YC136 - YC141	1
YC146 - YC147	1
YC151 - YC156	1
YC166 - YC171	1
YC176 - YC178	1
YC179	3
YC186 - YC189	1
YC190	3
YC201 - YC203	1
YC206 - YC207	1
YC301 - YC305	1
YC321 - YC385	1
YC386 - YC387	3
YC391 - YC394	1
YC396	1
YC401 - YC417	1
YC421 - YC422	1
YC426 - YC428	1
YC436 - YC437	1
YC438 - YC439	3

Variable Number	Group
YC441 - YC448	1
YC451 - YC455	1
YC459	1
YC461 - YC467	1
YC471 - YC499	1
YC501 - YC526	1
YC571 - YC583	1
YC587 - YC589	1
YC591 - YC593	1
YC601 - YC655	1
YC681 - YC696	1
YC701 - YC715	1
YC720 - YC725	1
YC727 - YC741	1
YC742 - YC750	3
YC751 - YC752	1
YC761 - YC770	1
YC781 - YC793	1
YC801 - YC892	1
YC901 - YC907	1
YC921 - YC922	1
YC931 - YC932	1
YC941 - YC951	1
YC971 - YC978	1
YC981 - YC983	1
YD001 - YD007	1
YD021 - YD025	1
YD041 - YD057	1
YD081 - YD084	1
YD101 - YD107	1
YD108 - YD117	3
YD121 - YD126	1
YD151 - YD159	1

Variable Number	Group
YD171 - YD172	1
YD201 - YD203	1
YD206 - YD209	1
YD216 - YD219	1
YD251 - YD254	1
YD256 - YD257	1
YD261	1
YD301 - YD334	1
YD391	1
YD401 - YD410	1
YD412	1
YD413 - YD420	3
YD421 - YD422	4
YD481 - YD485	1
YD491 - YD499	3
YD501 - YD512	2
YD531 - YD535	2
YD541 - YD547	2
YD561 - YD564	2
YD571 - YD572	2
YD591 - YD594	2
YD595	3
YD601 - YD612	2
YD651 - YD655	3
YE001 - YE020	1
YE051	1
YE101 - YE109	1
YE151 - YE157	1
YE171 - YE172	1
YE201 - YE206	1
YE301 - YE305	1
YE321 - YE326	1
YE371 - YE383	3

Variable Number	Group
YF001 - YF011	3
YF021 - YF049	3
YF051 - YF076	3
YF077 - YF080	4
YF086 - YF087	3
YF106 - YF107	3
YF111 - YF114	3
YF116 - YF119	3
YF121 - YF132	3
YF176 - YF178	3
YF191 - YF192	3
YF201 - YF276	3
YF401 - YF402	3
YF431 - YF432	3
YF436 - YF437	3
YF441 - YF442	3
YF451 - YF460	3
YF501 - YF599	3
YF601 - YF661	3
YF662 - YF685	4
YF691 - YF695	4
YF701 - YF707	3
YF801 - YF805	3
YF831 - YF832	3
YF836 - YF838	3
YF871 - YF872	3
YF901 - YF905	3
YF921 - YF928	3
YF951 - YF954	3
YG001 - YG043	1
YG061 - YG064	1
YG066	1
YG068	1

Variable Number	Group
YG070 - YG073	1
YG075 - YG080	1
YG082 - YG083	1
YG085 - YG087	1
YG089	1
YG091 - YG099	3
YG101 - YG104	3
YG111 - YG114	3
YG116 - YG141	3
YG142 - YG146	4
YG201	1
YG202 - YG205	3
YG211	1
YG212 - YG214	3
YG221 - YG224	3
YG251 - YG252	3
YG501 - YG508	2
YG509 - YG512	3
YG513 - YG515	4
YG601 - YG602	2
YG701	3
YG711	3
YG721 - YG722	4
YH001 - YH012	3
YH031 - YH055	3
YH071 - YH080	3
YH101 - YH132	3
YH201 - YH202	3
YH206 - YH207	3
YH301 - YH306	3
YH307	4
YH321 - YH322	3
YH501 - YH542	3

Variable Number	Group
YH551 - YH594	3
YH601 - YH606	3
YH611 - YH620	3
YH631 - YH632	3
YH636 - YH637	3
YH641	3
YH681 - YH683	4
YH701 - YH720	3
YH721 - YH742	4
YH751 - YH755	4
YH801 - YH821	3
YH822 - YH858	4
YH901 - YH903	3
YH904 - YH908	4
YH911 - YH915	4
YH951 - YH952	4
YJ001 - YJ004	1
YJ005 - YJ010	3
YJ011 - YJ013	1
YJ021	1
YJ471 - YJ480	1
YJ501 - YJ517	1
YJ531 - YJ545	1
YJ546 - YJ579	3
YJ591 - YJ593	1
YJ594 - YJ599	3
YJ631 - YJ632	1
YJ671 - YJ682	1
YJ683 - YJ694	3
YJ801 - YJ853	1
YJ854 - YJ860	3
YJ861 - YJ867	1
YJ871	1

Variable Number	Group
YJ872 - YJ880	3
YJ901 - YJ902	1
YJ903 - YJ904	3
YJ908 - YJ910	3
YJ911 - YJ919	1
YJ920 - YJ929	3
YJ931 - YJ936	1
YJ937	3
YJ941 - YJ943	1
YJ944 - YJ956	3
YJ961	3
YJ976 - YJ977	3
YK001 - YK007	1
YK101 - YK104	1
YK111 - YK112	1
YK121 - YK122	1
YK131 - YK132	1
YK133	3
YK136	1
YK137 - YK139	3
YK141 - YK142	3
YK146 - YK148	3
YK151 - YK154	3
YK161 - YK167	3
YK171	3
YK176 - YK177	3
YK186	3
YK191	3
YK196	3
YK201 - YK202	3
YK301 - YK304	1
YK305 - YK314	3
YK321 - YK330	1

Variable Number	Group
YK331 - YK340	3
YK361 - YK364	1
YK365 - YK378	3
YK401 - YK405	1
YK406	3
YK426	1
YK427	3
YK431	1
YK432 - YK450	3
YK456 - YK458	1
YK459 - YK467	3
YK471 - YK473	3
YK476	3
YK478	4
YK480	1
YK481 - YK487	3
YK491 - YK493	3
YK495 - YK499	3
YK511 - YK516	3
YK521 - YK530	3
YK551 - YK571	3
YK576 - YK577	3
YK580 - YK585	3
YK601 - YK602	3
YK606 - YK607	3
YK611 - YK616	3
YK621 - YK634	3
YK641 - YK644	3
YK651 - YK665	3
YK671 - YK672	3
YK676 - YK677	3
YK681 - YK686	3
YK691	3

Variable Number	Group
YK695 - YK699	3
YK701 - YK713	3
YK716 - YK719	3
YK721 - YK741	3
YK751 - YK770	3
YK776 - YK778	3
YK781 - YK785	3
YK791 - YK792	3
YK796 - YK797	3
YK801 - YK899	3
YK901 - YK912	3
YK918 - YK919	3
YK921 - YK929	3
YK941 - YK999	3
YL001 - YL005	3
YL011 - YL016	3
YL021 - YL024	3
YL051 - YL052	3
YL056 - YL057	3
YL061	3
YL066 - YL069	3
YL076 - YL077	3
YL101 - YL137	3
YL201 - YL237	3
YL241 - YL242	3
YL271 - YL272	3
YL281 - YL284	3
YL301 - YL303	3
YL311 - YL314	3
YL316 - YL321	3
YL351 - YL353	3
YL371 - YL374	3
YL401	3

Variable Number	Group
YL421 - YL429	3
YL431 - YL444	3
YL461 - YL478	3
YL501 - YL509	3
YL531 - YL534	3
YL541 - YL551	3
YL561 - YL579	3
YL591 - YL598	3
YL601 - YL606	3
YL611 - YL612	3
YL616 - YL617	3
YL621	3
YL626	3
YL631 - YL634	3
YL636 - YL637	3
YL661 - YL664	3
YL676 - YL691	3
YL696 - YL697	3
YL701 - YL707	3
YL731	3
YL751 - YL752	3
YL756 - YL757	3
YL761 - YL780	3
YL796 - YL797	3
YL801 - YL815	3
YL901 - YL910	3
YL921 - YL940	3
YL951 - YL968	3
YM101	1
YM102 - YM103	3
YM201 - YM202	1
YM203 - YM244	3
YM251 - YM259	1

Variable Number	Group
YM260 - YM299	3
YM301 - YM399	3
YM401 - YM415	3
YM471	3
YM481 - YM484	3
YM501 - YM515	3
YM521 - YM522	3
YM541	3
YM551 - YM553	3
YM571 - YM572	3
YM581 - YM582	3
YM591 - YM599	3
YM631 - YM634	3
YM641 - YM652	3
YM671 - YM674	3
YM691 - YM699	3
YM701 - YM710	3
YM761 - YM765	3
YM771 - YM779	3
YN001 - YN016	3
YN021 - YN024	3
YN061	3
YN071 - YN082	3
YN091 - YN092	3
YN101 - YN112	3
YN121	3
YN126	3
YN201 - YN202	3
YN211 - YN219	3
YN231 - YN236	3
YN261	3
YN501	3
YN531 - YN534	3

Variable Number	Group
YN551 - YN559	3
YN560 - YN566	4
YN581 - YN582	3
YN583 - YN585	4
YN591 - YN592	4
YN601 - YN606	3
YN651 - YN653	3
YN701 - YN702	3
YN741 - YN746	3
YN756	4
YQ001 - YQ003	3
YQ011 - YQ021	3
YQ026 - YQ029	3
YQ036 - YQ045	3
YQ201 - YQ207	3
YQ231	3
YQ241 - YQ251	3
YQ281 - YQ284	3
YQ291 - YQ296	3
YQ301 - YQ302	3
YQ321 - YQ324	3
YQ331 - YQ334	3
YQ346 - YQ347	3
YQ351 - YQ362	4
YQ371	4
YQ401 - YQ403	3
YQ451 - YQ454	3
YQ456	3
YQ461	3
YQ471	3
YQ501 - YQ507	3
YQ508 - YQ520	4
YR001 - YR029	3

Variable Number	Group
YR030 - YR045	4
YR051 - YR082	3
YR083 - YR090	4
YR091 - YR098	3
YR101 - YR105	3
YR111 - YR119	3
YR120 - YR124	4
YR126 - YR144	3
YR166 - YR182	3
YR186 - YR196	3
YR197 - YR198	4
YR201 - YR204	3
YR205	4
YR231 - YR294	3
YR296 - YR297	3
YR301 - YR334	3
YR338 - YR341	4
YR361 - YR366	3
YR371 - YR373	3
YR376	3
YR377	4
YR381 - YR382	3
YR386 - YR387	3
YR388	4
YR391	3
YR396 - YR398	3
YR401 - YR405	3
YR411 - YR413	3
YR416 - YR418	3
YR421 - YR424	3
YR426 - YR436	3
YR437 - YR440	4
YR441 - YR449	3

Variable Number	Group
YR450	4
YR451 - YR455	3
YR457 - YR499	3
YR501 - YR506	3
YR511 - YR520	3
YR526 - YR544	3
YR546 - YR548	3
YR549 - YR551	4
YR556 - YR559	3
YR560	4
YR561 - YR562	3
YR571 - YR574	3
YR575 - YR582	4
YR591 - YR592	4
YR601 - YR605	3
YR616 - YR646	3
YR647 - YR650	4
YR651 - YR658	3
YR661 - YR663	3
YR671 - YR672	4
YR676 - YR678	4
YR681 - YR682	4
YR701 - YR769	3
YR771 - YR782	3
YR783 - YR799	4
YR801 - YR816	3
YR817 - YR820	4
YR831 - YR838	3
YR841 - YR847	3
YR848 - YR850	4
YR851 - YR874	3
YR875 - YR899	4
YR901 - YR903	3

Variable Number	Group
YR931 - YR934	3
YR938 - YR944	3
YR951 - YR968	3
YR969 - YR979	4
YR981 - YR994	3
YR995 - YR996	4
YS001 - YS002	3
YS006 - YS007	3
YS008 - YS009	4
YS031 - YS032	3
YS051 - YS068	3
YS069 - YS073	4
YS101 - YS120	3
YS126 - YS142	4
YS146 - YS150	4
YS151 - YS160	3
YS166 - YS181	3
YS182 - YS190	4
YS191 - YS194	3
YS196 - YS197	3
YS201 - YS209	3
YS221 - YS225	3
YS231 - YS233	3
YS234 - YS236	4
YS271 - YS276	3
YS277 - YS288	4
YS301 - YS328	3
YS329 - YS347	4
YS351 - YS356	3
YS357 - YS369	4
YS371 - YS374	3
YS375 - YS377	4
YS381 - YS383	3

Variable Number	Group
YS401	4
YS451	3
YS456 - YS457	4
YS462	4
YS467	4
YS501 - YS502	3
YS506	3
YS511 - YS516	4
YS531	4
YS536 - YS538	4
YS541	4
YS551 - YS553	3
YS554 - YS556	4
YS561 - YS569	3
YS570	4
YS571 - YS573	3
YS574 - YS578	4
YS581	3
YS582 - YS590	4
YS591 - YS595	3
YS601 - YS654	3
YS655 - YS685	4
YS686 - YS690	3
YS701 - YS708	3
YS721 - YS743	3
YS744 - YS760	4
YS761	3
YS762	4
YS771 - YS779	3
YS780	4
YS806 - YS810	3
YS816	3
YS817 - YS818	4

Variable Number	Group
YS823 - YS825	3
YS851 - YS854	3
YS855 - YS861	4
YS876	3
YS881	3
YS882 - YS883	4
YS901 - YS905	3
YS906 - YS909	4
YS911 - YS912	3
YS913 - YS939	4
YS951	4
YS956 - YS957	4
YS961 - YS962	3
YS963 - YS965	4
YS981 - YS987	4
YS991 - YS992	3
YS993 - YS998	4
YT001 - YT003	3
YT004	4
YT006	3
YT026 - YT027	4
YT031 - YT032	3
YT036 - YT038	4
YT061 - YT063	3
YT064 - YT068	4
YT101 - YT105	3
YT106 - YT117	4
YT126 - YT131	4
YT136 - YT138	4
YT176 - YT181	4
YT191	4
YT196 - YT199	4
YT201	3

Variable Number	Group
YT206 - YT207	4
YT211 - YT213	4
YT251 - YT259	3
YT260 - YT287	4
YT301 - YT305	4
YT306 - YT307	3
YT311 - YT312	3
YT321 - YT342	4
YT381	4
YT391 - YT395	4
YT401 - YT402	3
YT403	4
YT411	3
YT412 - YT417	4
YT427	4
YT461 - YT463	3
YT464 - YT475	4
YT491 - YT492	4
YT501 - YT521	4
YT551 - YT552	4
YT556 - YT563	4
YT571 - YT572	4
YT601 - YT606	4
YT701 - YT706	4
YT761 - YT780	4
YT791 - YT793	4
YT796 - YT797	4
YT801 - YT804	4
YT811 - YT813	4
YT826 - YT827	4
YT831 - YT832	4
YT851 - YT852	4
YT856 - YT862	4

Variable Number	Group
YT891 - YT895	4
YT901 - YT925	4
YU001 - YU015	3
YU016 - YU054	4
YU201 - YU212	4
YV001 - YV002	4
YV006 - YV008	4
YV041 - YV042	4
YV045 - YV047	4
YV081	4
YV083	4
YV097	4
YV101 - YV121	4
YV301 - YV305	4
YV351 - YV358	4
YV381 - YV383	4
YV431 - YV433	4
YV501	4
YV521	4
YV571 - YV575	4
YV601 - YV605	4
YV651 - YV654	4
YV695	4
YV711	4
YV741 - YV743	4
YV781	4
YV801 - YV802	4
YV881 - YV883	4
YW001	4
YW011 - YW040	4
YW261	4

2. Spares Affected

None.

B. Concurrent Requirements

The service bulletins listed below must be done before or at the same time as this service bulletin:

Group 1, Configuration 1:

Company	Service Bulletin	Description
Boeing	737-26-1122, Revision 1	FIRE PROTECTION - Lower Cargo Compartment Smoke Detection - Forward Cargo Compartment Smoke Penetration Electrical Changes

Group 1, Configuration 2; Group 2-4:
None.

C. Reason

This service bulletin gives instructions to do the Smoke Clearance Mode - Operational Test at repeat intervals on airplanes equipped with the reconfigurable low pressure air distribution system during a cargo fire event. The repeat operational testing of the equipment cooling system and low pressure environmental control system will reduce the probability of a latent failure which, in conjunction with a cargo fire event, could result in smoke in the flight deck and possible loss of aircraft control.

A review by Boeing found that there was no maintenance procedure available to inspect the components used to reconfigure the air distribution system to the cargo fire mode. A cargo fire event in conjunction with a latent failure of the air distribution system can possibly result in smoke penetration to occupied areas. The amount of smoke and toxicity of the smoke that could reach the occupied areas is unknown.

Boeing Service Bulletins 737-26-1121 and either 737-21-1135 or 737-21-1163 are related to 737-26-1122. Accomplishment of the changes in the Boeing Service Bulletins 737-26-1121, 737-21-1135 or 737-21-1163 will not cause a failure of the test in this service bulletin. Boeing Service Bulletin 737-26A1083 is related to 737-21-1135.

Boeing Service Related Problem (SRP) 737-SRP-26-0079 is related to this service bulletin.

Revision 1 is sent to clearly identify the compliance time and inspection interval for airplane line numbers 1701 and on, delivered after the original issue date of this service bulletin. These airplanes have been moved from Group 3 to new Group 4.

D. Description

Get access into the flight compartment and main electronics equipment compartment. As an alternate location to the flight compartment to make sure of the recirculation fan's operation, between the left and right air conditioning pack compartments, open the access panel to the ground conditioned air connection duct. Do the Smoke Clearance Mode - Operational Test to make sure the Cargo Fire Protection system operates correctly. If the Smoke Clearance Mode - Operational Test result is not satisfactory, do the troubleshooting procedure on the equipment cooling system and low pressure environmental control system to find and replace faulty components.

Effects of this Revision on airplanes on which original issue was previously done:

None.

The work in this service bulletin is done in the maintenance zone(s) given below.

Group 1:

Affected Maintenance Zones	
Model	**Zone**
737-600, 737-700, 737-800	112, 113, 114, 117, 118, 125, 126

Group 2:

Affected Maintenance Zones	
Model	**Zone**
737-700C, 737-900	112, 113, 114, 117, 118, 125, 126

Group 3:

Affected Maintenance Zones	
Model	**Zone**
737-600, 737-700, 737-700C, 737-800, 737-900, 737-900ER	112, 113, 114, 117, 118, 125, 126

Group 4:

Affected Maintenance Zones	
Model	**Zone**
737-700, 737-700C, 737-800, 737-900ER	112, 113, 114, 117, 118, 125, 126

E. Compliance

Federal Aviation Administration (FAA) Notice of Proposed Rule Making NPRM 2014-NM-201-AD, is related to this service bulletin.

Table 1: Equipment Cooling System - Smoke Clearance Mode - Operational Test

Condition	Action	Compliance Time	Repeat Interval (Not to Exceed)
Group 1, Configuration 1 Airplanes.	Do a Smoke Clearance Mode - Operational Test in accordance with Paragraph 3.B., Work Instructions.	Within 51 months after the original issue date of this service bulletin.	9000 flight hours.
Group 1, Configuration 2, Group 2 and Group 3 Airplanes.	Do a Smoke Clearance Mode - Operational Test in accordance with Paragraph 3.B., Work Instructions.	Within 10 months after the original issue date of this service bulletin.	9000 flight hours.
Group 4 Airplanes.	Do a Smoke Clearance Mode - Operational Test in accordance with Paragraph 3.B., Work Instructions	Before 9000 total flight hours.	9000 flight hours.
If the Smoke Clearance Mode - Operational Test fails.	Do a system fault isolation in accordance with Paragraph 3.B., Work Instructions.	Before further flight.	-

F. Approval

This service bulletin was examined by the Federal Aviation Administration (FAA). The changes specified in this service bulletin comply with the applicable regulations and are FAA approved, as well as European Aviation Safety Agency (EASA)/Joint Aviation Authorities (JAA) approved for all EASA/JAA approved airplanes listed in the service bulletin effectivity. This service bulletin and its approval were based on the airplane in its original Boeing delivery configuration or as modified by other approved Boeing changes.

If an airplane has a non-Boeing modification or repair that affects a component or system also affected by this service bulletin, the operator is responsible for obtaining appropriate regulatory agency approval before incorporating this service bulletin.

G. Manpower

The table below shows an estimate of the task hours necessary to do this change for each airplane. This estimate is for direct labor only, done by an experienced crew. Adjust the estimate with operator task hour data if necessary. The estimate does not include lost time. These are some examples of lost time:

- Time to adjust to the workplace.
- Time to schedule the work.
- Time to inspect the work.
- Time to cure the materials.
- Time to make the parts.
- Time to find the tools.

Task	Number of Persons	Task-Hours	Elapsed Hours
Open Access	1	0.50	0.50
Test (a)	2	3.00	1.50
Close Access	1	0.50	0.50
TOTAL FOR EACH AIRPLANE		4.00	2.50
(a) The task hour does not include time that is possibly needed to troubleshoot wiring and components if test result is not satisfactory.			

This estimate does not include the task hour data given in the service bulletins in Paragraph 1.B., Concurrent Requirements.

H. Weight and Balance Changes

None.

I. Electrical Load Data

Not changed.

J. References

1. Existing Data:

   a. Boeing Service Bulletin 737-21-1135, 737-21-1163, 737-26-1121, 737-26-1122, 737-26A1083

   b. Boeing Service Related Problem (SRP) 737-SRP-26-0079

   c. Standard Wiring Practices Manual (SWPM) 20-10-11, 20-10-12, 20-10-19

   d. 737-600/700/800/900 Aircraft Maintenance Manual (AMM) 06-41-00, 21-27-00, 21-31-01, 24-22-00, 52-51-00

   e. 737-600/700/800/900 Fault Isolation Manual (FIM) 21-25-801, 21-25-802, 21-27-805, 21-27-806, 21-27-807, 21-27-808, 21-27-809, 21-27-810, 21-27-811

   f. FAA Notice of Proposed Rule Making NPRM 2014-NM-201-AD

2. Data Supplied with this Service Bulletin:

   None.

3. Installation Drawings Used in the Preparation of this Service Bulletin:

   None.

K. Publications Affected

1. Publications:

Publication	Chapter-Section
737 Aircraft Maintenance Manual	21-27
737 Maintenance Planning Data	26-16

2. Damage Tolerance Based Structural Inspections:

   Boeing has evaluated the repairs and/or changes in this service bulletin for effects on Fatigue Critical Structure (FCS) and for changes to Damage Tolerance Inspections (DTI) required in the Maintenance Program. This service bulletin does not affect FCS, therefore DTIs are not necessary.

L. Interchangeability and Intermixability of Parts

Accomplishment of this service bulletin does not affect interchangeability or intermixability of parts.

M. Software Accomplishment Summary

Not affected.

2. MATERIAL INFORMATION

A. Material - Price and Availability

None.

B. Industry Support Information

Boeing warranty remedies are not available for the Operational Test given in this service bulletin.

C. Parts Necessary for Each Airplane

1. Kits/Parts:

   None.

2. Parts and Materials Supplied by the Operator:

   None.

3. Parts Modified and Reidentified:

   None.

4. Parts Removed and Not Replaced:

   None.

D. Parts Necessary to Change Spares

None.

E. Special Tooling - Price and Availability

None.

F. Special Tooling Necessary to do this Service Bulletin

No special tools or equipment are necessary to do the change in this service bulletin. But, maintenance and overhaul tools in the manuals given in Paragraph 1.J., References, can be necessary. Examine operator tool supply to make sure all necessary tools are available.

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3. ACCOMPLISHMENT INSTRUCTIONS

A. GENERAL INFORMATION

CAUTION: KEEP THE WORK AREA, WIRES AND ELECTRICAL BUNDLES CLEAN OF METAL PARTICLES OR CONTAMINATION WHEN YOU USE TOOLS. UNWANTED MATERIAL, METAL PARTICLES OR CONTAMINATION CAUGHT IN WIRE BUNDLES CAN CAUSE DAMAGE TO THE BUNDLES. DAMAGED WIRE BUNDLES CAN CAUSE SPARKS OR OTHER ELECTRICAL DAMAGE.

NOTE:

1. Manual titles are referred to by acronyms. Refer to Paragraph 1.J., References, for definition of the acronyms.

2. Obey all of the warnings and cautions given in the specified manual sections.

3. Unless shown differently, these dimensions and tolerances are used:

   - Linear dimensions are in inches
   - Tolerance on linear dimensions, other than rivet and bolt edge margins, is plus or minus 0.03 inch
   - Tolerance on rivet and bolt edge margin is plus or minus 0.05 inch
   - Angular tolerance is plus or minus 2 degrees
   - Hole dimensions for standard solid rivets and fasteners are in Structural Repair Manual (SRM) Chapter 51
   - Torque Values:
     - Values for structural fasteners are given in 737 Structural Repair Manual, Chapter 51.
     - Values for airframe maintenance tasks are included in Chapter 20 of 737 Aircraft Maintenance Manual (AMM).
     - Values for electrical maintenance tasks are included in Chapter 20 of Standard Wiring Practices Manual (SWPM).
     - Values for engine maintenance tasks are included in Chapter 70 of 737 Aircraft Maintenance Manual (AMM).
     - Non-standard torque values for maintenance tasks are included in the applicable installation step.

4. Refer to the SWPM 20-10-11 and SWPM 20-10-12 for the wire installation procedures, and SWPM 20-10-19 for the wire separation requirements, as accepted procedures.

5. These work instructions refer to procedures included in other Boeing documents. When the words "refer to" are used and the operator has an accepted alternative procedure, the accepted alternative procedure can be used. When the words "in accordance with" are included in the instruction, the procedure in the Boeing document must be used.

6. If it is necessary to remove more parts for access, you can remove those parts. If you can get access without removing identified parts, it is not necessary to remove all of the identified parts. Jacking and shoring limitations must be observed.

7. This service bulletin includes functional test procedures for the systems changed by this service bulletin. More functional tests can possibly be necessary in accordance with standard maintenance practices because of interruption to other airplane systems.

8. The compliance times for the actions in Paragraph 3.B., WORK INSTRUCTIONS are in Paragraph 1.E., Compliance.

9. Some steps in the Work Instructions are labeled as Required for Compliance (RC). If this service bulletin is mandated by an Airworthiness Directive (AD), then the steps labeled as RC, including sub-steps under an RC step and any figures identified in an RC step, must be done to comply with the AD. An Alternative Method of Compliance (AMOC) is required for any deviations to RC steps, including sub-steps and identified figures. Steps not labeled as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC. This is provided that the RC steps, including sub-steps and identified figures, can still be done as specified, and the airplane can be put back in an airworthy condition.

B. WORK INSTRUCTIONS

1. Do these steps to get access.

   a. Below the main electronics equipment compartment, open Access Door 117A. Refer to 737-600/700/800/900 AMM 06-41-00 as an accepted procedure.

   b. In the main electronics equipment compartment, get access to the Cabin Pressure Controller. For the Cabin Pressure Controller location, refer to 737-600/700/800/900 AMM 21-31-01 as an accepted procedure.

   c. Below the AC mix air compartment, open Panel 191E to get access to the Ground Conditioned Air Connection Duct. Refer to 737-600/700/800/900 AMM 06-41-00 as an accepted procedure.

      NOTE: This is an alternate location to the flight compartment to make sure of the Recirculation Fan's operation.

   d. Get access into the flight compartment. Refer to 737-600/700/800/900 AMM 52-51-00 as an accepted procedure.

2. Do these steps to make sure the Cargo Fire Protection system operates correctly:

   a. In the flight compartment, apply electrical power to the airplane. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.

   b. RC - In the flight compartment and main electronics equipment compartment, do the Smoke Clearance Mode - Operational Test. Refer to 737-600/700/800/900 AMM 21-27-00 as an accepted procedure.

   c. RC - If the Smoke Clearance Mode - Operational Test fails, do a system fault isolation and corrective actions. Repeat the Smoke Clearance Mode - Operational Test, fault isolation and corrective actions until the test is passed. Refer to 737-600/700/800/900 FIM 21-25-801, 737-600/700/800/900 FIM 21-25-802, 737-600/700/800/900 FIM 21-27-805, 737-600/700/800/900 FIM 21-27-806, 737-600/700/800/900 FIM 21-27-807, 737-600/700/800/900 FIM 21-27-808 , 737-600/700/800/900 FIM 21-27-809, 737-600/700/800/900 FIM 21-27-810 and 737-600/700/800/900 FIM 21-27-811 as accepted procedures.

ALERT **ALERT**

NOTE: Fault Isolation Manual (FIM) reference 21-25-801 is only applicable to 737-600 and 737-700 airplanes.

NOTE: Operators should reference their airplane effectivity when using FIM references 21-27-810 and 21-27-811.

d. Remove electrical power from the airplane if electrical power is not necessary. Refer to 737-600/700/800/900 AMM 24-22-00 as an accepted procedure.

3. Do these steps to close access.

a. Below the main electronics equipment compartment, close Access Door 117A. Refer to 737-600/700/800/900 AMM 06-41-00 as an accepted procedure.

b. Below the AC mix air compartment, close Panel 191E if it was opened. Refer to 737-600/700/800/900 AMM 06-41-00 as an accepted procedure.

4. Put the airplane back to a serviceable condition.