

**CHAPTER**

**38**

**WATER/WASTE**

**CHAPTER 38  
WATER/WASTE**

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
38-EFFECTIVE PAGES			38-100-00-01	SYS				
1	JUN 15/2016		1	Oct 15/2015				
2	BLANK		2	Feb 15/2015				
38-030-00-01	SYS		3	Feb 15/2015				
1	Jun 15/2015		4	Oct 15/2015				
2	Feb 15/2015		5	Feb 15/2016				
3	Jun 15/2015		6	Oct 15/2015				
4	Feb 15/2015		7	Oct 15/2015				
5	Oct 15/2015							
6	Oct 15/2015							
38-040-00-01								
	1	Jun 15/2015						
R	2	Jun 15/2016						
R	3	Jun 15/2016						
	4	Oct 15/2015						
	5	Oct 15/2015						
	6	Oct 15/2015						
R	7	Jun 15/2016						
R	8	Jun 15/2016						
R	9	Jun 15/2016						
O	10	Jun 15/2016						
O	11	Jun 15/2016						
D	12	Jun 15/2016						
38-060-00-01								
	1	Jun 15/2015						
	2	Feb 15/2015						
	3	Jun 15/2015						
	4	Oct 15/2015						
	5	Oct 15/2015						
	6	Oct 15/2015						
38-090-00-01								
	1	Jun 15/2015						
	2	Feb 15/2015						
	3	Feb 15/2015						
	4	Feb 15/2016						
	5	Feb 15/2015						
	6	Oct 15/2015						

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

## 38-EFFECTIVE PAGES

AIRLINE CARD NO		TITLE <b>RESTORE VACUUM BLOWER FILTER</b>			BOEING CARD NO. <b>38-030-00-01</b>
DATE	TASK <b>RESTORE</b>				RELATED CARD
TAIL NUMBER	WORK AREA <b>AFT CARGO</b>	VERSION <b>1.1</b>	THRESHOLD <b>2500 FH</b>	REPEAT <b>2500 FH</b>	APPLICABILITY
STATION	SKILL <b>AIRPL</b>				AIRPLANE <b>ALL</b> ENGINE <b>ALL</b> <b>NOTE</b>
		ACCESS <b>822 S1401</b>			ZONE <b>141 145</b>

Restore (clean) or replace the vacuum blower filter (if installed).

**AIRPLANE NOTE:** Applicable to airplanes with vacuum blower equipped with a filter.

**A. References**

Reference	Title
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
AMM 25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

**B. Tools/Equipment**

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
STD-1280	Source - Air, Regulated, Dry Filtered, 0-30 PSIG

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>RESTORE VACUUM BLOWER FILTER</b>  <b>D633A109-AKS</b> <b>38-030-00-01</b>	<b>Page 1 of 6</b> <b>Jun 15/2015</b>
-------------------------------	----------------------	---	--

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 38-030-00-01																													
<b>TASK 38-32-05-960-801</b> <b>1. Vacuum Blower Filter Replacement</b> (Figure 1)  <b>A. Expendables/Parts</b> <table border="1"> <thead> <tr> <th>AMM Item</th> <th>Description</th> <th>AIPC Reference</th> <th>AIPC Effectivity</th> </tr> </thead> <tbody> <tr> <td>31</td> <td>Packing</td> <td>38-32-05-01-150</td> <td>AKS ALL</td> </tr> <tr> <td>32</td> <td>Filter assembly</td> <td>38-32-05-01-155</td> <td>AKS ALL</td> </tr> </tbody> </table> <b>B. Prepare for the Removal</b> <p><u>NOTE:</u> There are two possible vacuum blowers types. Vacuum blower, part number 606802-2, has a filter. Vacuum blower, part number 645172-( ), does not have a filter. The two vacuum blower types are interchangeable.</p> <p>SUBTASK 38-32-05-010-004</p> <p>(1) Open this access panel:</p> <table border="1"> <thead> <tr> <th>Number</th> <th>Name/Location</th> </tr> </thead> <tbody> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </tbody> </table> <p>SUBTASK 38-32-05-010-005</p> <p>(2) Do this task: Waste Tank Enclosure Panel - Removal, AMM TASK 25-52-20-000-801.</p> <p>SUBTASK 38-32-05-040-002</p> <p><b><u>WARNING:</u></b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.</p> <p>(3) Open these circuit breakers and install safety tags:</p> <p><b>Power Distribution Panel Number 1, P91</b></p> <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table> <b>C. Vacuum Blower Filter Removal</b> <p>SUBTASK 38-32-05-020-007</p> <p>(1) Remove the packings [31] that attach the vacuum blower filter assembly [32] to the vacuum blower.</p> <p>SUBTASK 38-32-05-020-008</p> <p>(2) Remove the vacuum blower filter assembly [32] from the vacuum blower.</p>				AMM Item	Description	AIPC Reference	AIPC Effectivity	31	Packing	38-32-05-01-150	AKS ALL	32	Filter assembly	38-32-05-01-155	AKS ALL	Number	Name/Location	822	Aft Cargo Door	Row	Col	Number	Name	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER	MECH	INSP
				AMM Item	Description	AIPC Reference	AIPC Effectivity																										
31	Packing	38-32-05-01-150	AKS ALL																														
32	Filter assembly	38-32-05-01-155	AKS ALL																														
Number	Name/Location																																
822	Aft Cargo Door																																
Row	Col	Number	Name																														
C	11	C01388	VACUUM WASTE CONT																														
F	2	C01389	VACUUM WASTE BLOWER																														
EFFECTIVITY AKS ALL				SOURCE MRB	RESTORE VACUUM BLOWER FILTER  D633A109-AKS 38-030-00-01																												

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-030-00-01</b>													
<b>D. Vacuum Blower Filter Cleaning</b> SUBTASK 38-32-05-420-008 <b>CAUTION:</b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE. (1) Clean the vacuum blower filter assembly [32] with an 0-30 psig dry filtered regulated air source, STD-1280 in the opposite direction of the usual flow. SUBTASK 38-32-05-420-009 (2) Do a check of the vacuum blower filter assembly [32] for damage or signs of worn areas. (a) If the vacuum blower filter assembly [32] has damage or signs of worn areas, use a new vacuum blower filter assembly [32]. (b) If the vacuum blower filter assembly [32] is serviceable, then continue.				MECH	INSP												
<b>E. Vacuum Blower Filter Installation</b> SUBTASK 38-32-05-420-006 (1) Put the vacuum blower filter assembly [32] in its position. SUBTASK 38-32-05-420-007 (2) Install the packings [31] that attach the vacuum blower filter assembly [32] to the vacuum blower.																	
<b>F. Vacuum Blower Filter Installation Test</b> SUBTASK 38-32-05-860-003 <b>WARNING:</b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS. (1) Remove safety tags and close these circuit breakers: <b>Power Distribution Panel Number 1, P91</b> <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table> SUBTASK 38-32-05-860-004 (2) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811 SUBTASK 38-32-05-760-002 (3) Make sure the vacuum blower operates as follows: (a) Make sure the vacuum blower starts when you push the flush switch for a toilet. NOTE: If the vacuum blower operates before you push the flush switch, there is a problem in the control circuits. (b) Make sure the vacuum blower stops after approximately 15 seconds. NOTE: If the vacuum blower continues to operate after approximately 15 seconds, there is a problem in the control circuits.				Row	Col	Number	Name	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER		
Row	Col	Number	Name														
C	11	C01388	VACUUM WASTE CONT														
F	2	C01389	VACUUM WASTE BLOWER														
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE VACUUM BLOWER FILTER</b>  <b>D633A109-AKS</b> <b>38-030-00-01</b>														

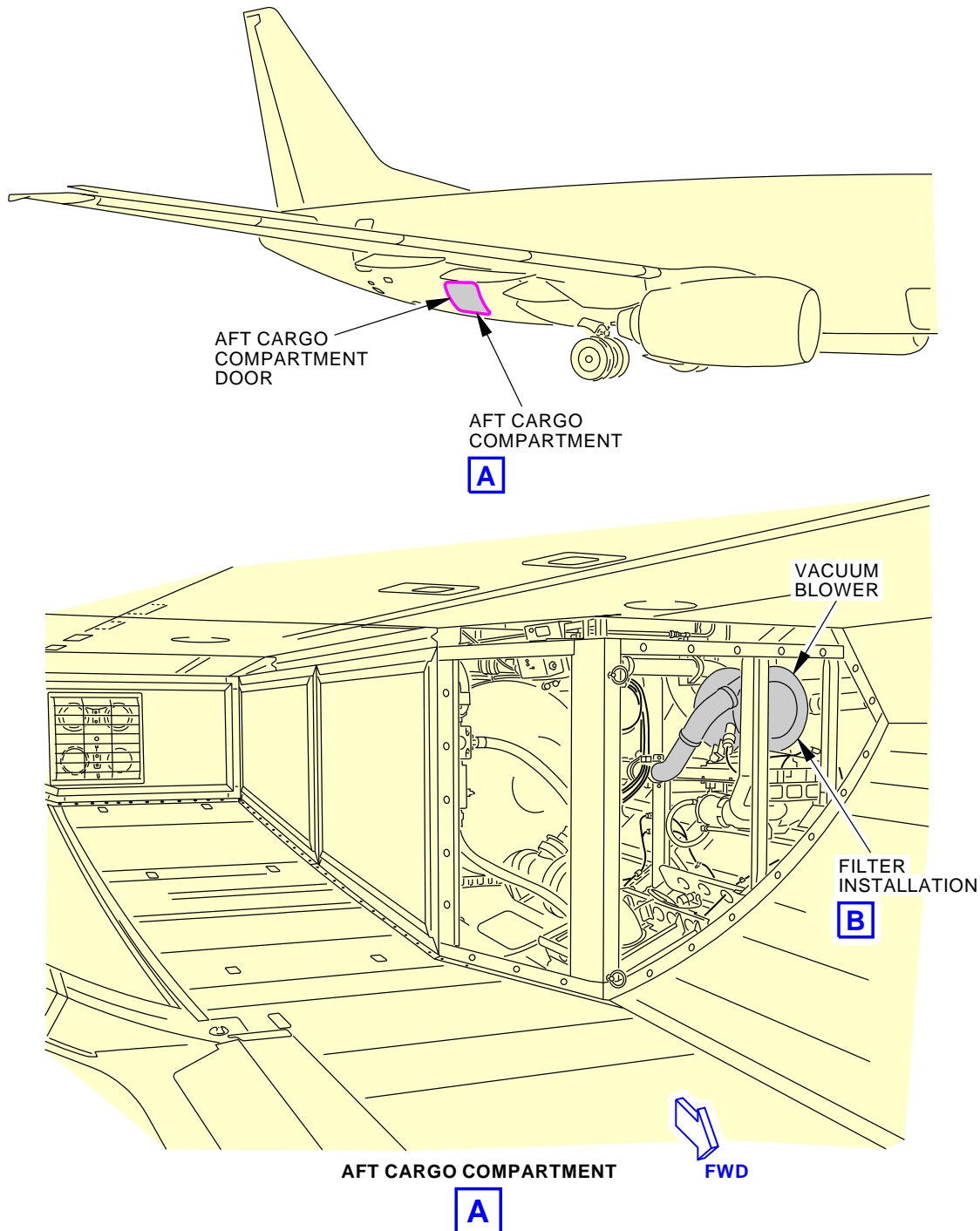
# AKS



## 737-600/700/800/900 TASK CARDS

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-030-00-01</b>					
<b>G. Put the Airplane Back to Its Usual Condition</b>  SUBTASK 38-32-05-010-006  <b><u>WARNING:</u></b> SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE FIRE EXTINGUISHING AGENT OR SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.  (1) Do this task: Waste Tank Enclosure Panel - Installation, AMM TASK 25-52-20-400-801.  SUBTASK 38-32-05-410-002 (2) Close this access panel: <table border="0"><tr><td><b><u>Number</u></b></td><td><b><u>Name/Location</u></b></td></tr><tr><td>822</td><td>Aft Cargo Door</td></tr></table> <p style="text-align: center;">————— END OF TASK —————</p>				<b><u>Number</u></b>	<b><u>Name/Location</u></b>	822	Aft Cargo Door	MECH	INSP
				<b><u>Number</u></b>	<b><u>Name/Location</u></b>				
822	Aft Cargo Door								
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE VACUUM BLOWER FILTER</b>  D633A109-AKS 38-030-00-01						

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-030-00-01</b>
------	-------------	---------	------------------	--

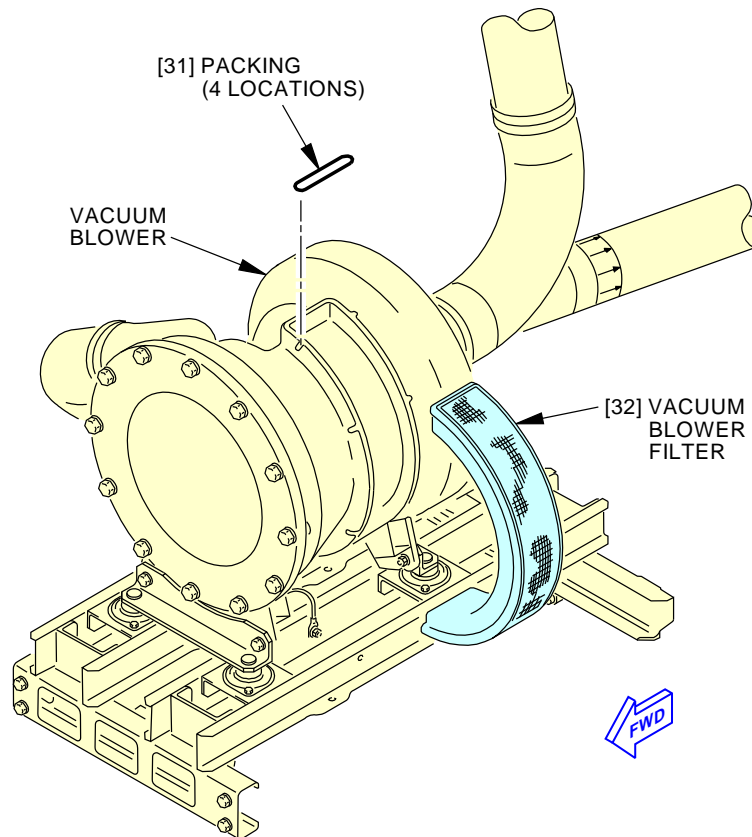


F81072 S0006578695\_V2

**Vacuum Blower Filter Installation**  
**Figure 1 (Sheet 1 of 2)**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>RESTORE VACUUM BLOWER FILTER</b>  <b>D633A109-AKS</b> <b>38-030-00-01</b>	<b>Page 5 of 6</b> <b>Oct 15/2015</b>
-------------------------------	----------------------	---	--

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-030-00-01</b>
------	-------------	---------	------------------	--

**FILTER INSTALLATION****B**

F81060 S0006578697\_V2

**Vacuum Blower Filter Installation**  
**Figure 1 (Sheet 2 of 2)**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>RESTORE VACUUM BLOWER FILTER</b>  D633A109-AKS 38-030-00-01	Page 6 of 6 Oct 15/2015
-------------------------------	----------------------	---	----------------------------



AIRLINE CARD NO.		TITLE <b>RESTORE WASTE DRAIN BALL-VALVE</b>			BOEING CARD NO. <b>38-040-00-01</b>
DATE	TASK <b>RESTORE</b>				RELATED CARD
TAIL NUMBER	WORK AREA <b>AFT CARGO</b>	VERSION <b>1.1</b>	THRESHOLD <b>60 MO</b>	REPEAT <b>60 MO</b>	APPLICABILITY AIRPLANE <b>ALL</b> ENGINE <b>ALL</b>
STATION	SKILL <b>AIRPL</b>				
		ACCESS <b>822</b>			ZONE <b>141</b>

Restore the waste drain ball-valve by replacing the seals (2) (off aircraft).

Note: The intent of the task is to restore the ball valve assembly by replacing two internal seals (P/N RS823-1). The seals are located above and below the ball valve inside the valve assembly.

#### A. References

Reference	Title
AMM 12-17-01-610-801	Waste Tank Servicing (P/B 301)
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
AMM 25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
AMM 30-71-03-000-801	Waste Drain Line Heater Removal (P/B 401)
AMM 30-71-03-400-801	Waste Drain Line Heater Installation (P/B 401)
AMM 38-32-03-710-801	Waste Drain Ball Valve and Control Rod - Operational Test (P/B 501)

#### B. Consumable Materials

Reference	Description	Specification
D00016	Grease - Aircraft, General Purpose, Wide Temperature Range	MIL-PRF-81322

#### C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-9123	sleeve installation, waste tank Part #: C38003-1    Supplier: 81205
STD-1142	Equipment - Waste System Servicing

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  <b>D633A109-AKS</b> <b>38-040-00-01</b>	<b>Page 1 of 11</b> <b>Jun 15/2015</b>
-------------------------------	----------------------	---	---

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>																									
<b>TASK 38-32-03-000-801</b> <b>1. <u>Waste Drain Ball Valve Removal</u></b> (Figure 1, Figure 2)  <b>A. Prepare for the Removal</b>  SUBTASK 38-32-03-610-001 (1) Do this task: Waste Tank Servicing, AMM TASK 12-17-01-610-801. <u>NOTE:</u> Do not add the chemical precharge after you do the task to service the waste tank.  SUBTASK 38-32-03-010-001 (2) Open this access panel: <table border="0"> <tr> <td><b><u>Number</u></b></td> <td><b><u>Name/Location</u></b></td> </tr> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </table> SUBTASK 38-32-03-010-002 (3) Do this task: Waste Tank Enclosure Panel - Removal, AMM TASK 25-52-20-000-801. SUBTASK 38-32-03-860-001 <b><u>WARNING:</u></b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.  (4) Open these circuit breakers and install safety tags: <b>CAPT Electrical System Panel, P18-3</b> <table border="0"> <tr> <td><b><u>Row</u></b></td> <td><b><u>Col</u></b></td> <td><b><u>Number</u></b></td> <td><b><u>Name</u></b></td> </tr> <tr> <td>E</td> <td>5</td> <td>C00233</td> <td>HEATERS DRAIN</td> </tr> </table> <b>Power Distribution Panel Number 1, P91</b> <table border="0"> <tr> <td><b><u>Row</u></b></td> <td><b><u>Col</u></b></td> <td><b><u>Number</u></b></td> <td><b><u>Name</u></b></td> </tr> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </table> <b>B. Ball Valve Removal</b>  SUBTASK 38-32-03-010-015 (1) Do this task: Waste Drain Line Heater Removal, AMM TASK 30-71-03-000-801.  SUBTASK 38-32-03-020-001 (2) Disconnect the electrical connector for the limit switch for the ball valve assembly [11].  SUBTASK 38-32-03-020-002 (3) Remove the clamp [35], bolt [36], washer [37], and spacer [38] outboard of the ball valve attached to the limit switch cable.  SUBTASK 38-32-03-020-003 (4) Remove the bolt [14], bushing [12], washer [17], and nut [16] to disconnect the linkage assembly [15].				<b><u>Number</u></b>	<b><u>Name/Location</u></b>	822	Aft Cargo Door	<b><u>Row</u></b>	<b><u>Col</u></b>	<b><u>Number</u></b>	<b><u>Name</u></b>	E	5	C00233	HEATERS DRAIN	<b><u>Row</u></b>	<b><u>Col</u></b>	<b><u>Number</u></b>	<b><u>Name</u></b>	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER	MECH	INSP
				<b><u>Number</u></b>	<b><u>Name/Location</u></b>																								
822	Aft Cargo Door																												
<b><u>Row</u></b>	<b><u>Col</u></b>	<b><u>Number</u></b>	<b><u>Name</u></b>																										
E	5	C00233	HEATERS DRAIN																										
<b><u>Row</u></b>	<b><u>Col</u></b>	<b><u>Number</u></b>	<b><u>Name</u></b>																										
C	11	C01388	VACUUM WASTE CONT																										
F	2	C01389	VACUUM WASTE BLOWER																										
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  <b>D633A109-AKS</b> <b>38-040-00-01</b>																										

# AKS



## 737-600/700/800/900 TASK CARDS

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>	
<p><b>SUBTASK 38-32-03-020-004</b></p> <p>(5) Remove the clamshell [1], sleeve [2] and packings [3] attaching the ball valve assembly [11] to the waste tube.</p> <p>(a) Discard the packings [3].</p> <p><b>SUBTASK 38-32-03-020-005</b></p> <p>(6) Remove the V-band clamp [4], clamp [44] and gask-O-seal [5] ,gask-o-seal [45] at the service panel and ball valve assembly [11] connections for the drain elbow [18].</p> <p>(a) Discard the gask-O- seal [5], gask-o-seal [45].</p> <p><b>SUBTASK 38-32-03-020-006</b></p> <p>(7) Remove the ball valve assembly [11] and drain elbow [18].</p> <p style="text-align: center;">———— <b>END OF TASK</b> ————</p>				MECH	INSP
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>		
			<b>D633A109-AKS</b>		
			<b>38-040-00-01</b>		

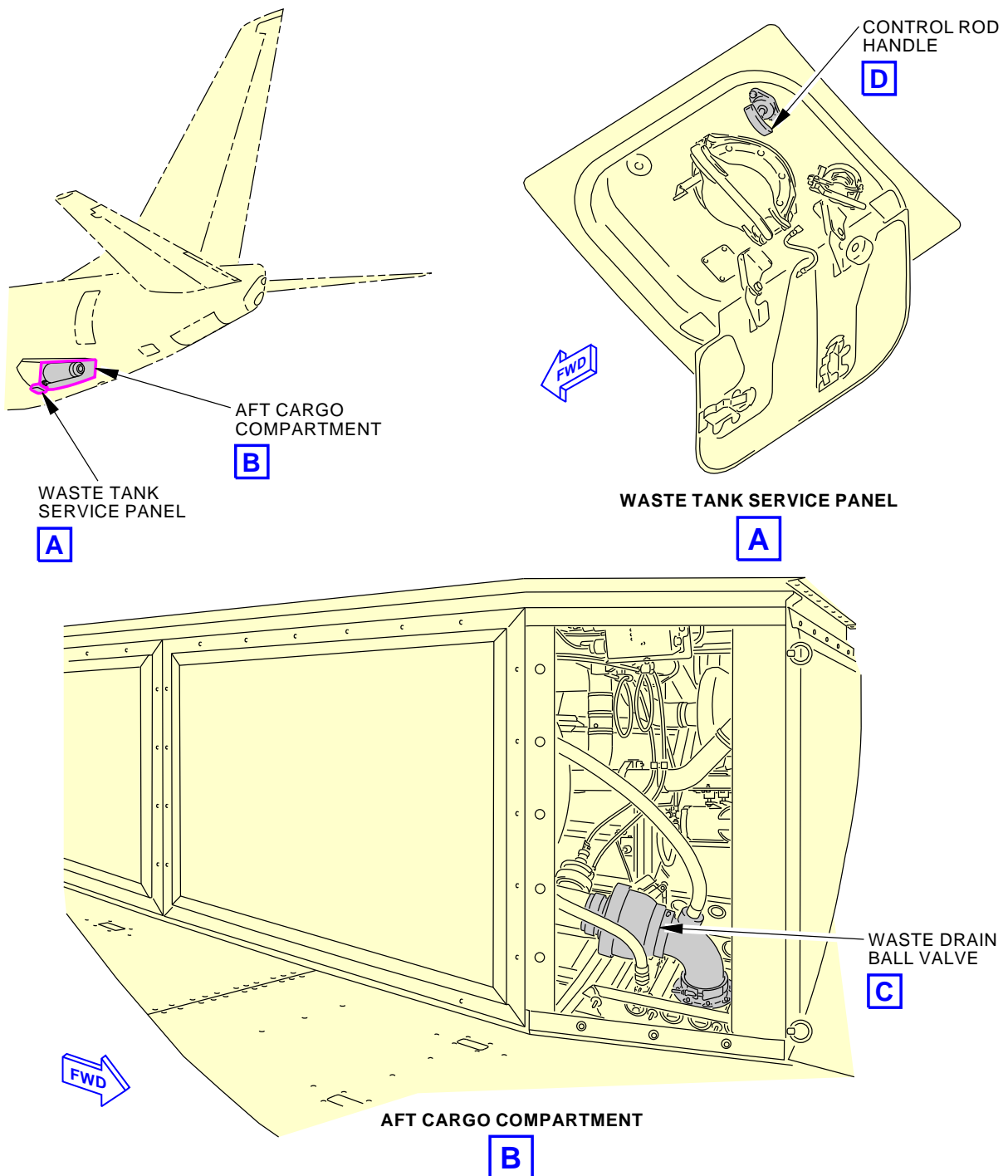
DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>	MECH	INSP
<b>TASK 38-32-03-400-801</b> <b>2. Waste Drain Ball Valve Installation</b> (Figure 1, Figure 2)						
<b>A. Expendables/Parts</b>						
<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>			
3	Packing	38-32-51-06-255	AKS ALL			
4	Clamp	Not Specified				
5	Seal	38-32-51-06-230	AKS ALL			
11	Valve assembly	38-32-51-06-090	AKS ALL			
45	Gask-o-seal	Not Specified				
<b>B. Ball Valve Installation</b>						
SUBTASK 38-32-03-640-001						
<b>CAUTION:</b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.						
(1) Apply the grease, D00016 to the packings [3], gask-O-seal [5] and gask-o-seal [45].						
SUBTASK 38-32-03-420-001						
(2) Install the gask-O-seal [5], gask-o-seal [45] and the packings [3].						
SUBTASK 38-32-03-420-018						
(3) Put the sleeve [2] on the flange of the waste tube.						
SUBTASK 38-32-03-420-002						
(4) Put the ball valve assembly [11] and drain elbow [18] into position.						
(a) Align the hole in the ball valve assembly [11] with the pin on the flange.						
1) If the ball valve assembly [11] has a pin installed, remove the pin from the ball valve assembly [11].						
SUBTASK 38-32-03-420-003						
(5) Install the V-band clamp [4] and V-band clamp [44] at the service panel and valve assembly [11] connections for the drain elbow [18].						
SUBTASK 38-32-03-420-004						
(6) Tighten the clamp [4] and clamp [44] to 60 to 65 pound-inches (6.8-7.3 newton-meters).						
SUBTASK 38-32-03-420-005						
(7) Install the sleeve [2] and clamshell [1] to connect the waste tube.						
(a) Make sure that the ends between the waste tube flange and the ball valve assembly [11] flange have a nominal clearance of 0.15 in. (3.81 mm) or minimum clearance of 0.10 in. (2.54 mm) apart.						
<b>NOTE:</b> If a minimum clearance of 0.10 in. (2.54 mm) is not obtained damage to the waste tube flange or ball valve may occur. A maximum clearance is limited by the proper installation of the clamshell clamp. The clamp must not bind, or bend when installed. All of the clamp latches must close.						
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  <b>D633A109-AKS</b> <b>38-040-00-01</b>		<b>Page 4 of 11</b> <b>Oct 15/2015</b>	

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>	MECH	INSP
<p>(b) To install the sleeve [2] with the waste tank - sleeve, SPL-9123 tool, follow the procedure below:</p> <p><u>NOTE:</u> The waste tank - sleeve, SPL-9123, is a P/N 14C02-56 clamp with one of the lips machined off to allow the clamp to be slipped on the sleeve while the clamp is closed.</p> <p><u>NOTE:</u> Use of the modified clamp tool, SPL-9123, is optional.</p> <p>1) Attach the waste tank - sleeve, SPL-9123, to the sleeve [2] and lock.</p> <p><u>NOTE:</u> The inner seat of the SPL-9123 tool must sit against the edge of the sleeve.</p> <p>2) Carefully tap around the periphery of the tool until the sleeve [2] moves over the second o-ring.</p> <p><u>NOTE:</u> The sleeve and o-rings must not be damaged or deformed during this step. Damage or deformation shows that alignment or clearance are not correct.</p> <p>3) Remove the waste tank - sleeve, SPL-9123.</p> <p>4) Install the clamshell [1].</p> <p>(c) To install the sleeve [2] without the waste tank - sleeve, SPL-9123 tool, follow the procedure below:</p> <p>1) Obtain a wood or a plastic block to allow tapping on the edge of the sleeve [2].</p> <p>2) Carefully tap around the periphery of the sleeve [2] until it moves over the second o-ring.</p> <p><u>NOTE:</u> The sleeve and o-rings must not be damaged or deformed during this step. Damage or deformation shows that alignment or clearance are not correct.</p> <p>3) Install the clamshell [1].</p> <p><b>SUBTASK 38-32-03-420-006</b></p> <p>(8) Install the bolt [14], bushing [12], washer [17], and nut [16] to connect the linkage assembly [15].</p> <p><b>SUBTASK 38-32-03-420-007</b></p> <p>(9) Install the clamp [35], bolt [36], washer [37], and spacer [38] outboard of the ball valve for the limit switch cable.</p> <p><b>SUBTASK 38-32-03-420-008</b></p> <p>(10) Connect the electrical connector for the limit switch of the ball valve assembly [11].</p>						
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  <b>D633A109-AKS</b> <b>38-040-00-01</b>			

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>																	
<b>C. Ball Valve Installation Test</b>  SUBTASK 38-32-03-860-002  <b><u>WARNING:</u></b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.  (1) Remove safety tags and close these circuit breakers:  <b>Power Distribution Panel Number 1, P91</b> <table border="1"> <thead> <tr> <th><u>Row</u></th> <th><u>Col</u></th> <th><u>Number</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table> SUBTASK 38-32-03-860-003 (2) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.  SUBTASK 38-32-03-760-001 (3) Do this task: Waste Drain Ball Valve and Control Rod - Operational Test, AMM TASK 38-32-03-710-801.  SUBTASK 38-32-03-790-001 (4) To do a leak check of the waste drain ball valve, do these steps: (a) Open this access panel: <table border="1"> <thead> <tr> <th><u>Number</u></th> <th><u>Name/Location</u></th> </tr> </thead> <tbody> <tr> <td>145AL</td> <td>Waste Service Door</td> </tr> </tbody> </table> (b) At the service panel, make sure that the control handles for the drain ball valves are in the closed position. (c) Make sure that the cap for the waste drain fitting outlet is closed. (d) Connect the water hose from the waste system servicing equipment, STD-1142, to the rinse fitting of the service panel. (e) Use the pump on the service cart to put about 50 gal (189 l) of water into the waste tank. (f) Open the cap and inner door (use the PUSH-TO-OPEN lever) of the service panel drain valve assembly. (g) Make sure that the drain ball valve does not have a leak. <u>NOTE:</u> You must wait for not less than 30 minutes after you put the water in the tanks before you do this step. (h) Close the drain cap.  <b>D. Put the Airplane Back to Its Usual Condition</b>  SUBTASK 38-32-03-410-011 (1) Do this task: Waste Drain Line Heater Installation, AMM TASK 30-71-03-400-801.				<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER	<u>Number</u>	<u>Name/Location</u>	145AL	Waste Service Door	MECH	INSP
				<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>														
C	11	C01388	VACUUM WASTE CONT																		
F	2	C01389	VACUUM WASTE BLOWER																		
<u>Number</u>	<u>Name/Location</u>																				
145AL	Waste Service Door																				
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  <b>D633A109-AKS</b> <b>38-040-00-01</b>																		

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>													
<p>SUBTASK 38-32-03-860-004</p> <p>(2) Remove safety tag and close this circuit breaker:</p> <p><b>CAPT Electrical System Panel, P18-3</b></p> <table border="1"> <thead> <tr> <th><u>Row</u></th> <th><u>Col</u></th> <th><u>Number</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>E</td> <td>5</td> <td>C00233</td> <td>HEATERS DRAIN</td> </tr> </tbody> </table> <p>SUBTASK 38-32-03-710-001</p> <p>(3) Make sure the heater blanket is serviceable.</p> <p>SUBTASK 38-32-03-610-002</p> <p>(4) Do this task: Waste Tank Servicing, AMM TASK 12-17-01-610-801.</p> <p>SUBTASK 38-32-03-410-012</p> <p><b><u>WARNING:</u></b> SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.</p> <p>(5) Do this task: Waste Tank Enclosure Panel - Installation, AMM TASK 25-52-20-400-801.</p> <p>SUBTASK 38-32-03-410-001</p> <p>(6) Close this access panel:</p> <table border="1"> <thead> <tr> <th><u>Number</u></th> <th><u>Name/Location</u></th> </tr> </thead> <tbody> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </tbody> </table> <p style="text-align: center;">———— <b>END OF TASK</b> ————</p>				<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>	E	5	C00233	HEATERS DRAIN	<u>Number</u>	<u>Name/Location</u>	822	Aft Cargo Door	MECH	INSP
				<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>										
E	5	C00233	HEATERS DRAIN														
<u>Number</u>	<u>Name/Location</u>																
822	Aft Cargo Door																
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  <b>D633A109-AKS</b> <b>38-040-00-01</b>														

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 38-040-00-01
------	-------------	---------	------------------	---------------------------------



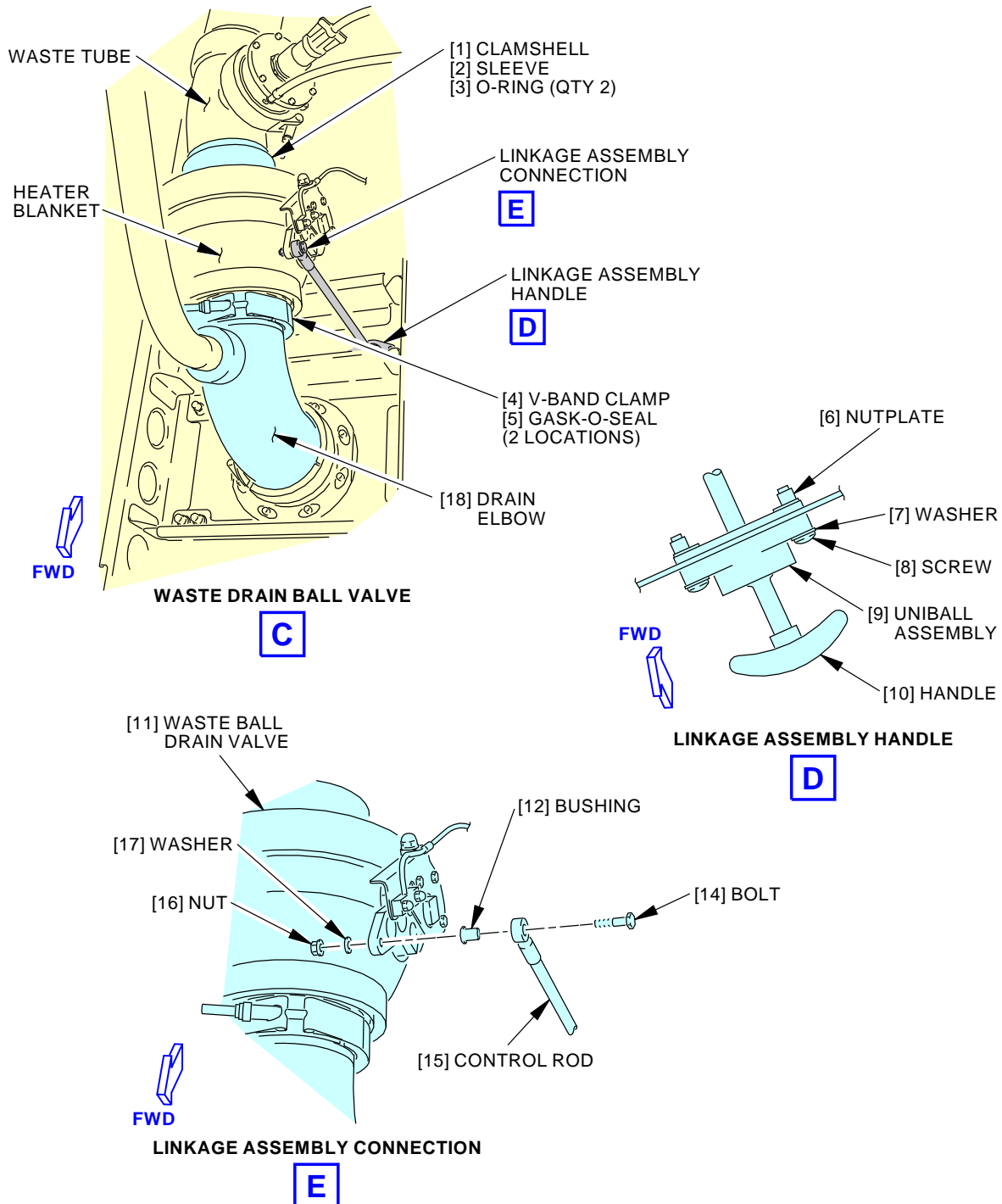
G15510 S0006578665\_V2

**Waste Drain Ball Valve Installation**  
**Figure 1 (Sheet 1 of 2)**

EFFECTIVITY AKS ALL	SOURCE MRB	RESTORE WASTE DRAIN BALL-VALVE  D633A109-AKS 38-040-00-01	Page 8 of 11 Jun 15/2016
------------------------	---------------	--	-----------------------------



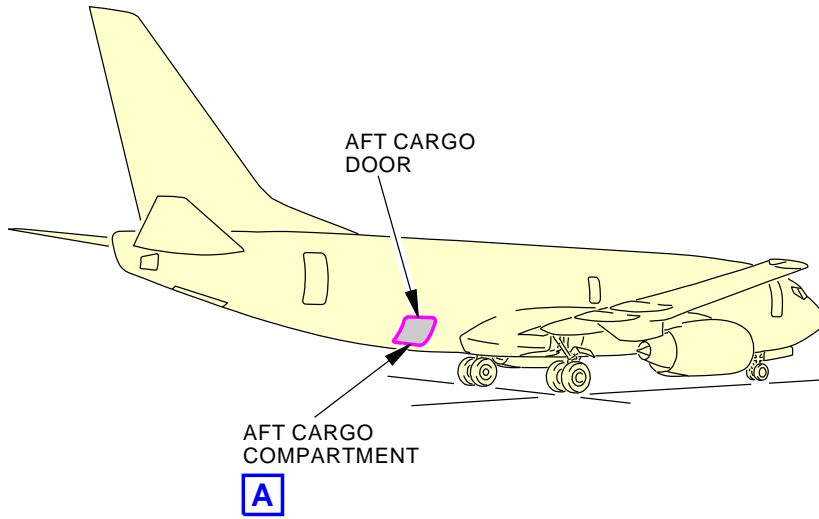
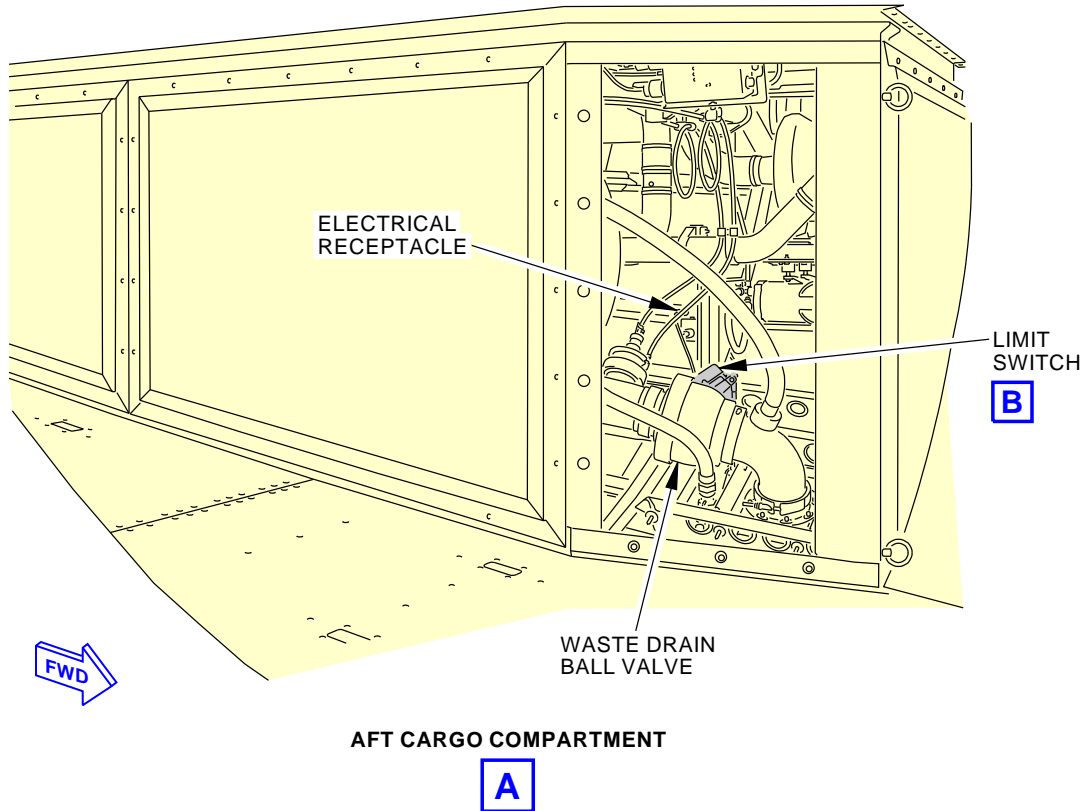
DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>
------	-------------	---------	------------------	--



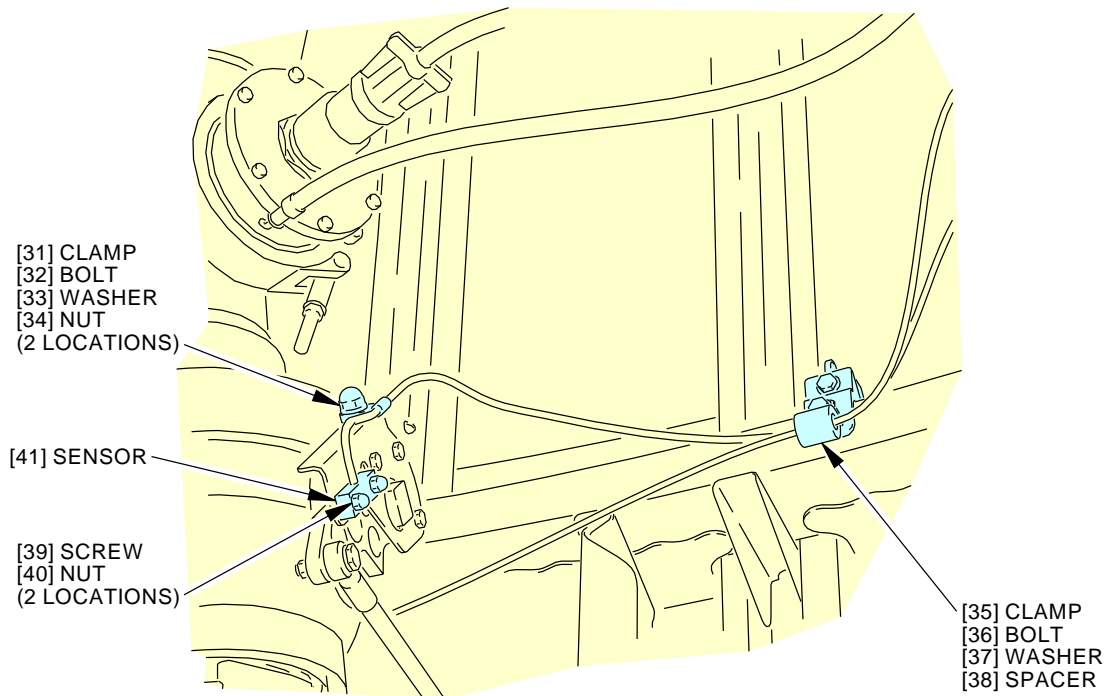
F80954 S0006578668\_V4

**Waste Drain Ball Valve Installation**  
**Figure 1 (Sheet 2 of 2)**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	RESTORE WASTE DRAIN BALL-VALVE  D633A109-AKS 38-040-00-01	Page 9 of 11 Jun 15/2016
-------------------------------	----------------------	--	-----------------------------

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>
<div data-bbox="303 310 1117 825"><p>AFT CARGO DOOR</p><p>AFT CARGO COMPARTMENT</p><p><b>A</b></p></div> <div data-bbox="316 913 1396 1719"><p>ELECTRICAL RECEPTACLE</p><p>LIMIT SWITCH</p><p><b>B</b></p><p>WASTE DRAIN BALL VALVE</p><p>FWD</p><p>AFT CARGO COMPARTMENT</p><p><b>A</b></p></div> <p><b>Limit Switch Installation</b> <b>Figure 2 (Sheet 1 of 2)</b></p> <p>F80711 S0006578670_V2</p>				
EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  D633A109-AKS 38-040-00-01		

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-040-00-01</b>
------	-------------	---------	------------------	--



LIMIT SWITCH



**Limit Switch Installation  
Figure 2 (Sheet 2 of 2)**

F81038 S0006578671\_V2

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>RESTORE WASTE DRAIN BALL-VALVE</b>  D633A109-AKS 38-040-00-01	Page 11 of 11 Jun 15/2016
-------------------------------	----------------------	---	------------------------------

AIRLINE CARD NO		TITLE <b>REPLACE BLEED AIR IN-LINE FILTER</b>			BOEING CARD NO. <b>38-060-00-01</b>
DATE	TASK <b>REPLACE</b>				RELATED CARD
TAIL NUMBER	WORK AREA <b>AFT CARGO</b>	VERSION <b>1.1</b>	THRESHOLD <b>6500 FH</b>	REPEAT <b>6500 FH</b>	APPLICABILITY AIRPLANE <b>ALL</b> ENGINE <b>ALL</b>
STATION	SKILL <b>AIRPL</b>				
		ACCESS <b>822 S1401</b>			ZONE <b>146</b>

Discard and replace the bleed air in-line filter.

#### A. References

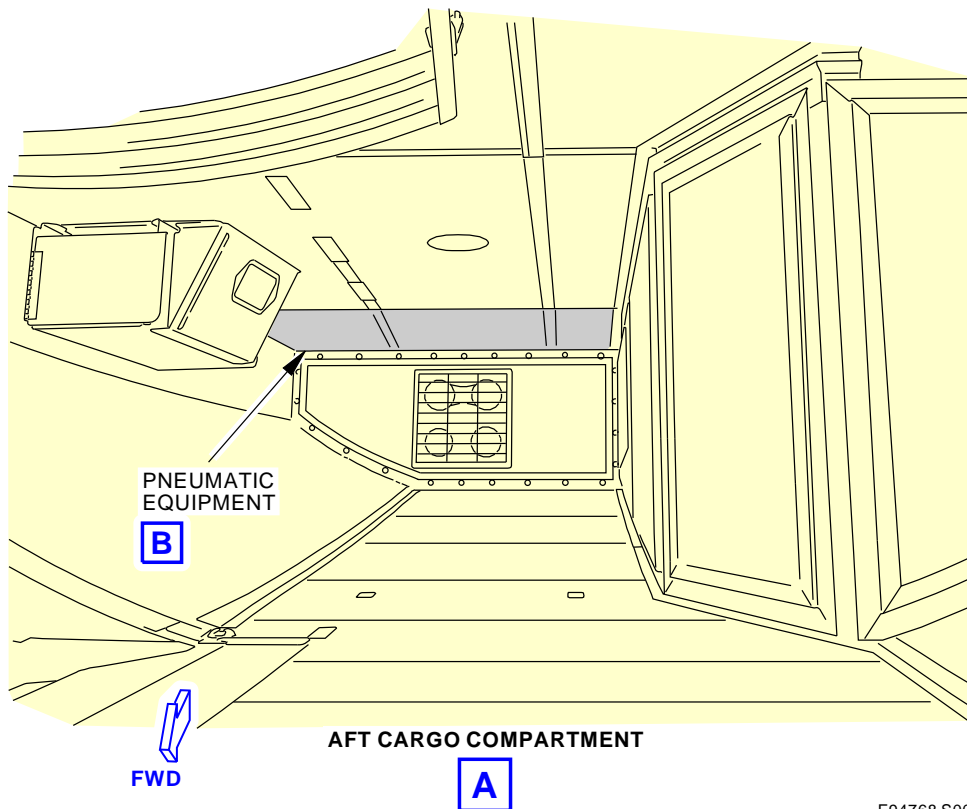
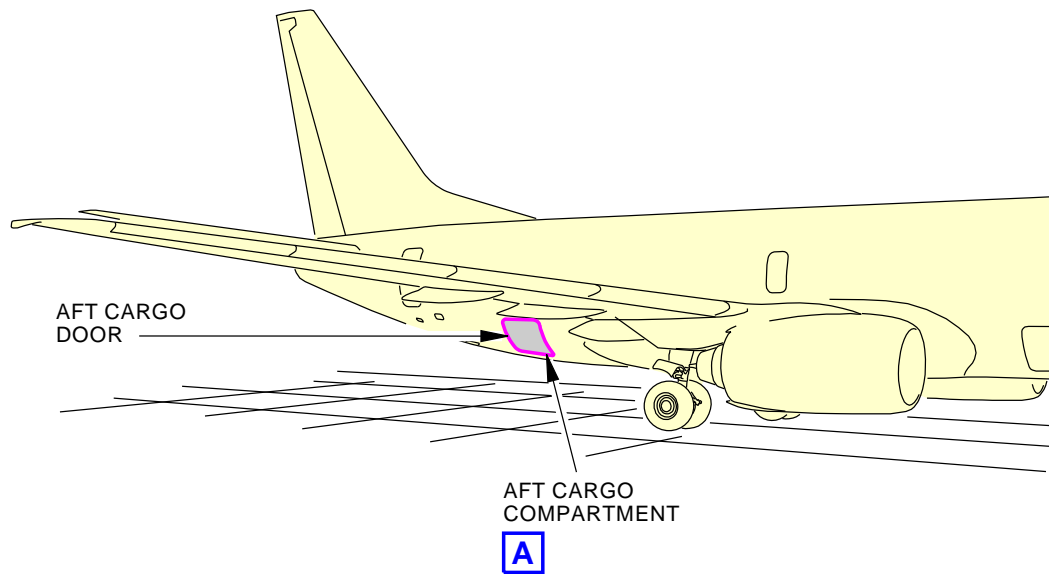
Reference	Title
AMM 20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
AMM 25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
AMM 36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
AMM 36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
AMM 38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
AMM 38-42-00-800-802	Potable Water System - Activation (P/B 201)

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>REPLACE BLEED AIR IN-LINE FILTER</b>  <b>D633A109-AKS</b> <b>38-060-00-01</b>	<b>Page 1 of 6</b> <b>Jun 15/2015</b>
-------------------------------	----------------------	---	--

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-060-00-01</b>	MECH	INSP
<b>TASK 38-42-10-960-801</b>						
<b>1. Bleed Air Filter Element Replacement</b> (Figure 1)						
<b>A. Expendables/Parts</b>						
<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>			
14	Packing	38-42-08-01-230	AKS ALL			
15	Element assembly	38-42-08-01-225	AKS ALL			
17	Packing	38-42-08-01-235	AKS ALL			
<b>B. Prepare for the Removal</b>						
SUBTASK 38-42-10-860-006						
(1) Open this circuit breaker and install safety tag:						
<b>Power Distribution Panel Number 1, P91</b>						
<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>			
D	11	C00873	POT WATER COMPRESSOR			
SUBTASK 38-42-10-860-007						
(2) Do this task: Potable Water System - Deactivation, AMM TASK 38-42-00-800-801.						
SUBTASK 38-42-10-010-003						
(3) Open this access panel:						
<u>Number</u>	<u>Name/Location</u>					
822	Aft Cargo Door					
SUBTASK 38-42-10-010-004						
(4) To remove the ceiling panel adjacent to the potable water tank, do this task: Cargo Compartment Ceiling Liner - Removal, AMM TASK 25-52-09-000-801.						
<b>C. Bleed Air Filter Element Replacement</b>						
SUBTASK 38-42-10-020-007						
(1) Remove the lockwire and then loosen the filter bowl [16] and packing [14].						
SUBTASK 38-42-10-020-008						
(2) Remove and then discard the bleed air filter element assembly [15] and packing [17].						
SUBTASK 38-42-10-420-007						
(3) Install the new bleed air filter element assembly [15] and packing [17].						
<b>NOTE:</b> There is a packing in the filter element assembly [15] that must be in its position before installation.						
SUBTASK 38-42-10-420-008						
(4) Put the packing [14] on the filter bowl [16] and then put the filter bowl in its position.						
SUBTASK 38-42-10-420-009						
(5) To install the lockwire, do this task: Lockwire, Cotter Pins, and Lockrings - Installation, AMM TASK 20-10-44-400-801.						
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>REPLACE BLEED AIR IN-LINE FILTER</b>			
			<b>D633A109-AKS</b> <b>38-060-00-01</b>			
<div style="text-align: right;"> <b>Page 2 of 6</b>  <b>Feb 15/2015</b> </div>						

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-060-00-01</b>													
<b>D. Bleed Air Filter Element Installation Test</b>  SUBTASK 38-42-10-860-008 (1) Remove safety tag and close this circuit breaker:  <b>Power Distribution Panel Number 1, P91</b> <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>11</td> <td>C00873</td> <td>POT WATER COMPRESSOR</td> </tr> </tbody> </table> SUBTASK 38-42-10-860-009 (2) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811.  SUBTASK 38-42-10-860-010 (3) Do this task: Potable Water System - Activation, AMM TASK 38-42-00-800-802.  SUBTASK 38-42-10-860-013 (4) To pressurize the Pneumatic System, do this task: Supply Pressure to the Pneumatic System (Selection), AMM TASK 36-00-00-860-801.  SUBTASK 38-42-10-790-002 (5) Make sure there are no air leaks at the air filter.  <b>E. Put the Airplane Back to its Usual Condition</b>  SUBTASK 38-42-10-860-014 (1) Remove pressure from the pneumatic system as follows: (a) Do this task: Remove Pressure from the Pneumatic System, AMM TASK 36-00-00-860-806.  SUBTASK 38-42-10-410-003 <b><u>WARNING:</u></b> SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.  (2) Do this task: Cargo Compartment Ceiling Liner - Installation, AMM TASK 25-52-09-400-801.  SUBTASK 38-42-10-410-004 (3) Close this access panel: <table border="1"> <thead> <tr> <th>Number</th> <th>Name/Location</th> </tr> </thead> <tbody> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </tbody> </table> <p style="text-align: center;">———— <b>END OF TASK</b> ————</p>				Row	Col	Number	Name	D	11	C00873	POT WATER COMPRESSOR	Number	Name/Location	822	Aft Cargo Door	MECH	INSP
				Row	Col	Number	Name										
D	11	C00873	POT WATER COMPRESSOR														
Number	Name/Location																
822	Aft Cargo Door																
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>REPLACE BLEED AIR IN-LINE FILTER</b>  <b>D633A109-AKS</b> <b>38-060-00-01</b>														

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-060-00-01</b>
------	-------------	---------	------------------	--

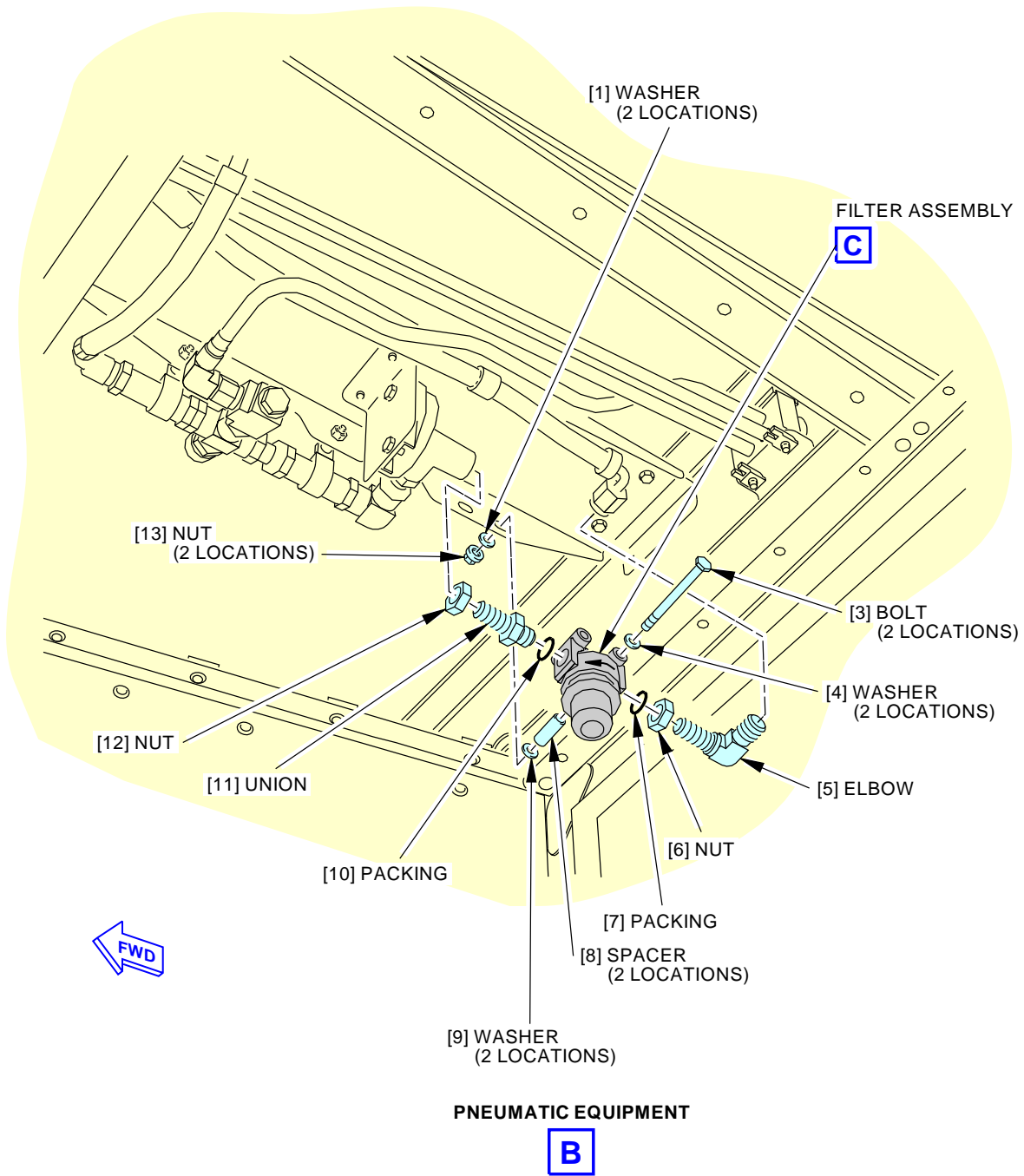


F94768 S0006578896\_V2

**Bleed Air Filter Installation  
Figure 1 (Sheet 1 of 3)**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>REPLACE BLEED AIR IN-LINE FILTER</b>  D633A109-AKS 38-060-00-01	Page 4 of 6 Oct 15/2015
-------------------------------	----------------------	---	----------------------------

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-060-00-01</b>
------	-------------	---------	------------------	--



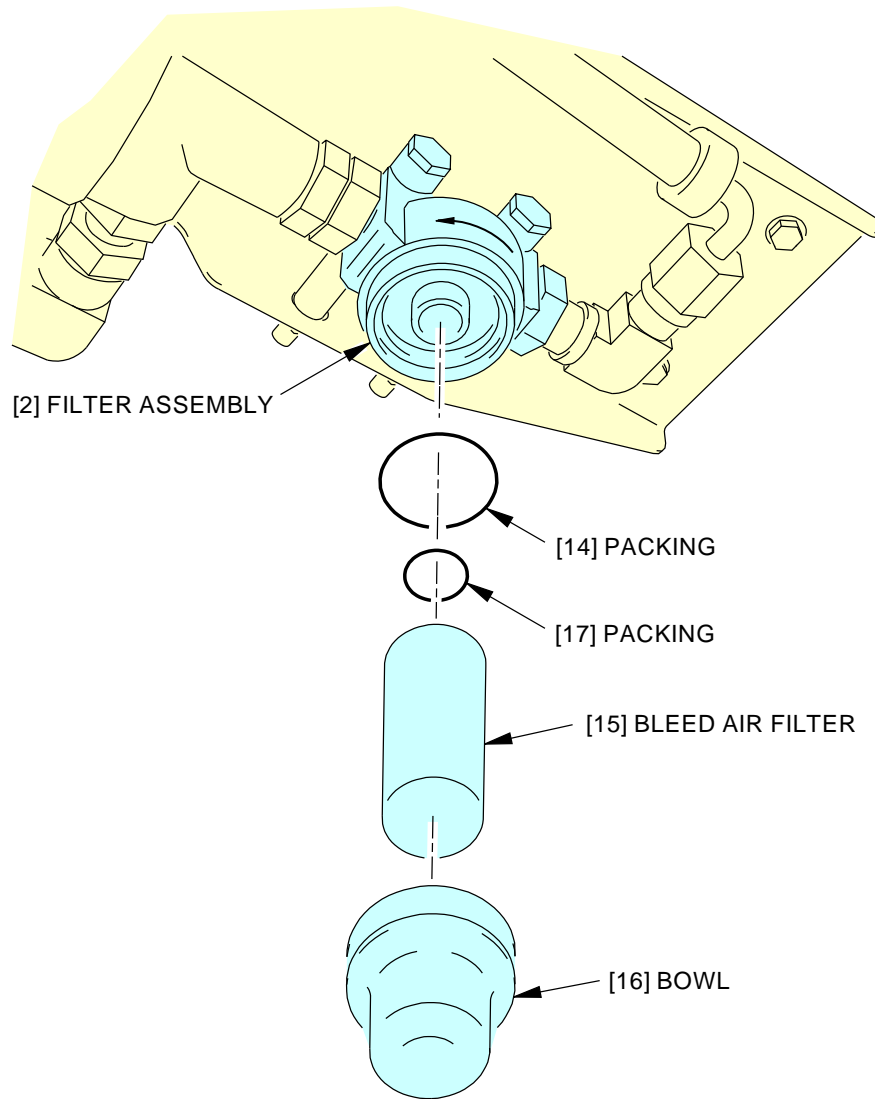
F94770 S0006578898\_V3

**Bleed Air Filter Installation  
Figure 1 (Sheet 2 of 3)**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>REPLACE BLEED AIR IN-LINE FILTER</b>  <b>D633A109-AKS 38-060-00-01</b>	<b>Page 5 of 6 Oct 15/2015</b>
-------------------------------	----------------------	---	------------------------------------



DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-060-00-01</b>
------	-------------	---------	------------------	--

**FILTER ASSEMBLY**

G08711 S0006578899\_V3

**Bleed Air Filter Installation  
Figure 1 (Sheet 3 of 3)**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>REPLACE BLEED AIR IN-LINE FILTER</b>  D633A109-AKS 38-060-00-01	Page 6 of 6 Oct 15/2015
-------------------------------	----------------------	---	----------------------------

AIRLINE CARD NO		TITLE <b>WASTE TANK WATER SEPARATOR</b>			BOEING CARD NO. <b>38-090-00-01</b>
DATE	TASK <b>RESTORE</b>				RELATED CARD
TAIL NUMBER	WORK AREA <b>AFT CARGO</b>	VERSION <b>1.1</b>	THRESHOLD <b>2500 FH</b>	REPEAT <b>2500 FH</b>	APPLICABILITY
STATION	SKILL <b>AIRPL</b>				AIRPLANE <b>ALL</b> ENGINE <b>ALL</b> <b>NOTE</b>
		ACCESS <b>822 S1401</b>			ZONE <b>141 145</b>

Restore (clean or replace) the waste tank water separator filter baskets.

**AIRPLANE NOTE:** Applicable to filter basket part numbers 01940-001 and 01956-000.

#### A. References

Reference	Title
AMM 12-17-01-610-801	Waste Tank Servicing (P/B 301)
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
AMM 25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
AMM 38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

#### B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
D50007	Grease - Silicone-Based, Generic	

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	WASTE TANK WATER SEPARATOR  D633A109-AKS 38-090-00-01	Page 1 of 6 Jun 15/2015
-------------------------------	----------------------	--	----------------------------

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 38-090-00-01																	
<b>TASK 38-32-02-000-801</b> <b>1. Liquid Separator Removal</b> (Figure 1)  <b>A. Prepare for the Removal</b>  SUBTASK 38-32-02-610-001 (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, AMM TASK 38-32-00-910-801.  SUBTASK 38-32-02-610-002 (2) Do this task: Waste Tank Servicing, AMM TASK 12-17-01-610-801. <u>NOTE:</u> Do not add the chemical precharge after you do the task to drain and flush the waste tanks.  SUBTASK 38-32-02-860-001  <b><u>WARNING:</u></b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.  (3) Open these circuit breakers and install safety tags:  <b>Power Distribution Panel Number 1, P91</b> <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table> SUBTASK 38-32-02-010-001 (4) Open this access panel: <table border="1"> <thead> <tr> <th>Number</th> <th>Name/Location</th> </tr> </thead> <tbody> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </tbody> </table> SUBTASK 38-32-02-010-002 (5) To remove the enclosure panels for the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, AMM TASK 25-52-20-000-801.  <b>B. Liquid Separator Removal</b>  SUBTASK 38-32-02-020-001  <b><u>CAUTION:</u></b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.  (1) Loosen the clamp [2] that attach the flexible coupling [7] to the upper cap [1].  SUBTASK 38-32-02-020-002 (2) Loosen the v-band coupling [6].  SUBTASK 38-32-02-020-003 (3) Remove the upper cap [1] and packing [4]. (a) Discard the packing [4].				Row	Col	Number	Name	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER	Number	Name/Location	822	Aft Cargo Door	MECH	INSP
				Row	Col	Number	Name														
C	11	C01388	VACUUM WASTE CONT																		
F	2	C01389	VACUUM WASTE BLOWER																		
Number	Name/Location																				
822	Aft Cargo Door																				
EFFECTIVITY AKS ALL		SOURCE MRB	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-090-00-01</b>																		

# AKS



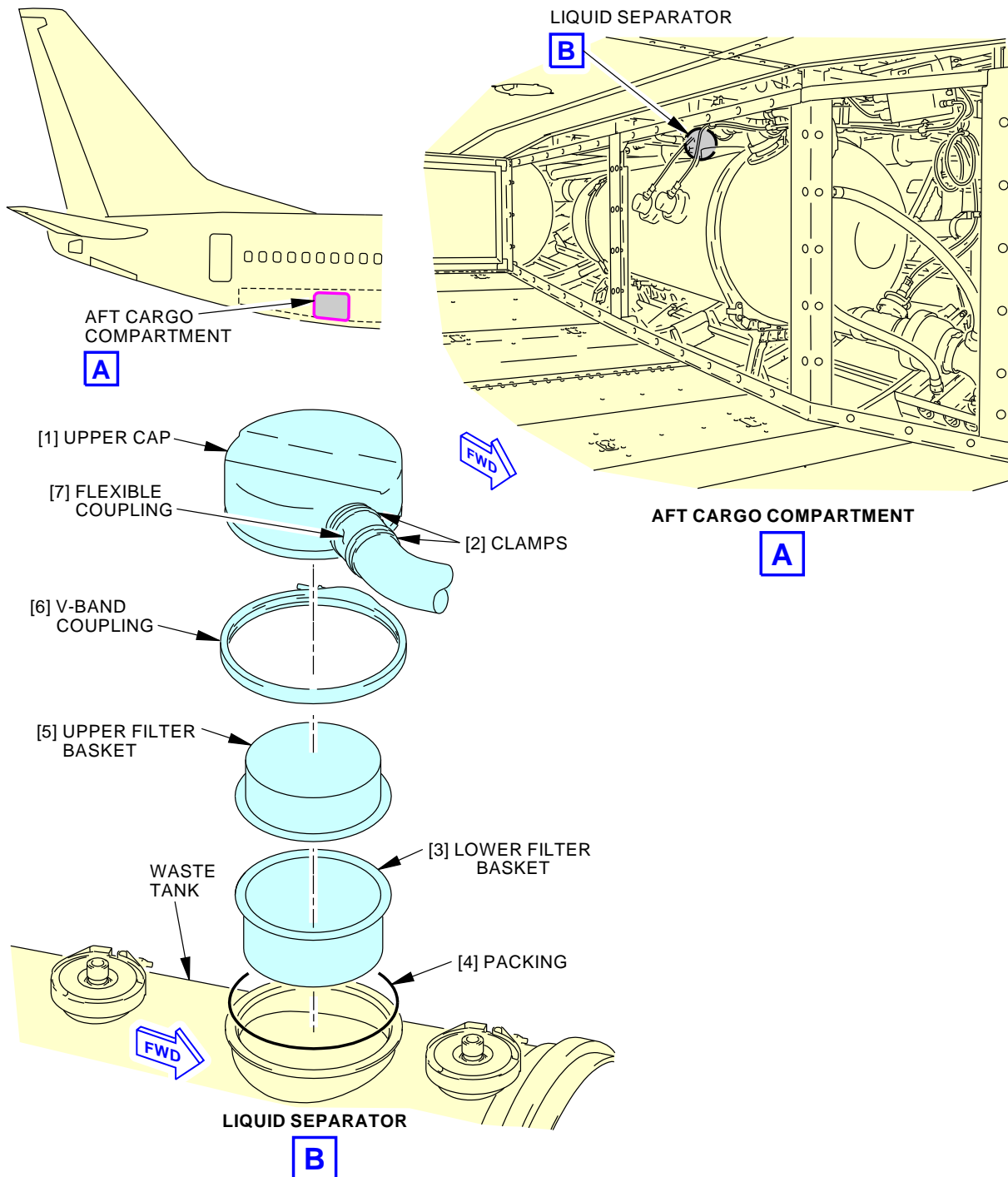
## 737-600/700/800/900 TASK CARDS

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-090-00-01</b>	
<p><b>SUBTASK 38-32-02-020-004</b></p> <p>(4) Remove the lower filter basket [3] for the liquid separator from the waste tank.</p> <p><b>SUBTASK 38-32-02-020-005</b></p> <p>(5) Remove the upper filter basket [5] for the liquid separator from the cap [1].</p> <p style="text-align: center;"><b>———— END OF TASK ————</b></p>				MECH	INSP
<b>EFFECTIVITY AKS ALL</b>		<b>SOURCE MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>		
			<b>D633A109-AKS 38-090-00-01</b>		
			<b>Page 3 of 6 Feb 15/2015</b>		

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-090-00-01</b>													
<b>TASK 38-32-02-400-801</b>				MECH	INSP												
<b>2. <u>Liquid Separator Installation</u></b> (Figure 1)																	
<b>A. Expendables/Parts</b>																	
<table border="1"> <thead> <tr> <th>AMM Item</th> <th>Description</th> <th>AIPC Reference</th> <th>AIPC Effectivity</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Packing</td> <td>38-32-02-50-060</td> <td>AKS ALL</td> </tr> </tbody> </table>				AMM Item	Description	AIPC Reference	AIPC Effectivity	4	Packing	38-32-02-50-060	AKS ALL						
AMM Item	Description	AIPC Reference	AIPC Effectivity														
4	Packing	38-32-02-50-060	AKS ALL														
<b>B. Liquid Separator Installation</b>																	
SUBTASK 38-32-02-640-001																	
<b>CAUTION:</b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.																	
(1) Apply the grease, D00463 or silicone-based grease, D50007 or Molykote 111 Compound, D00189 to the packing [4].																	
SUBTASK 38-32-02-420-001																	
(2) Install the lower filter basket [3] for the liquid separator in the waste tank.																	
SUBTASK 38-32-02-420-002																	
(3) Install the upper filter basket [5] for the liquid separator in the upper cap [1].																	
SUBTASK 38-32-02-420-003																	
(4) Install the upper cap [1] and packing [4].																	
SUBTASK 38-32-02-420-004																	
(5) Install the v-band coupling [6].																	
(a) Tighten the v-band coupling [6] 90 to 110 pound inches.																	
SUBTASK 38-32-02-420-005																	
(6) Attach the flexible coupling [7] and clamp [2] for the upper cap [1].																	
<b>C. Liquid Separator Installation Test</b>																	
SUBTASK 38-32-02-860-002																	
<b>WARNING:</b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.																	
(1) Remove the safety tags and close these circuit breakers:																	
<b>Power Distribution Panel Number 1, P91</b>																	
<table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table>				Row	Col	Number	Name	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER		
Row	Col	Number	Name														
C	11	C01388	VACUUM WASTE CONT														
F	2	C01389	VACUUM WASTE BLOWER														
SUBTASK 38-32-02-860-003																	
(2) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811																	
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>														
			<b>D633A109-AKS</b> <b>38-090-00-01</b>														
			<b>Page 4 of 6</b> <b>Feb 15/2016</b>														

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-090-00-01</b>					
<p>SUBTASK 38-32-02-710-001</p> <p>(3) Flush a toilet connected to the waste tank.</p> <p>SUBTASK 38-32-02-790-001</p> <p>(4) Examine the upper cap and the connections for leakage.</p> <p><b>D. Put the Airplane Back to Its Usual Condition</b></p> <p>SUBTASK 38-32-02-610-003</p> <p>(1) Do this task: Waste Tank Servicing, AMM TASK 12-17-01-610-801.</p> <p>SUBTASK 38-32-02-010-003</p> <p><b><u>WARNING:</u></b> SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.</p> <p>(2) Do this task: Waste Tank Enclosure Panel - Installation, AMM TASK 25-52-20-400-801.</p> <p>SUBTASK 38-32-02-410-001</p> <p>(3) Close this access panel:</p> <table border="0"> <tr> <td><b><u>Number</u></b></td> <td><b><u>Name/Location</u></b></td> </tr> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </table> <p style="text-align: center;">———— <b>END OF TASK</b> ————</p>				<b><u>Number</u></b>	<b><u>Name/Location</u></b>	822	Aft Cargo Door	MECH	INSP
				<b><u>Number</u></b>	<b><u>Name/Location</u></b>				
822	Aft Cargo Door								
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-090-00-01</b>						

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. 38-090-00-01
------	-------------	---------	------------------	---------------------------------



F78472 S0006578657\_V3

**Liquid Separator Maintenance Practices  
Figure 1**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  D633A109-AKS 38-090-00-01	Page 6 of 6 Oct 15/2015
-------------------------------	----------------------	---	----------------------------

AIRLINE CARD NO		TITLE <b>WASTE TANK WATER SEPARATOR</b>			BOEING CARD NO. <b>38-100-00-01</b>
DATE	TASK <b>RESTORE</b>				RELATED CARD
TAIL NUMBER	WORK AREA <b>AFT CARGO</b>	VERSION <b>1.1</b>	THRESHOLD <b>6000 FH</b>	REPEAT <b>6000 FH</b>	APPLICABILITY
STATION	SKILL <b>AIRPL</b>				AIRPLANE <b>ALL</b> ENGINE <b>ALL</b> <b>NOTE</b>
		ACCESS <b>822 S1401</b>			ZONE <b>141 145</b>

Restore (clean or replace) the waste tank water separator filter baskets.

**AIRPLANE NOTE:** Applicable to all filter basket part numbers except 01940-001 and 01956-000.

#### A. References

Reference	Title
AMM 12-17-01-610-801	Waste Tank Servicing (P/B 301)
AMM 24-22-00-860-811	Supply Electrical Power (P/B 201)
AMM 25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
AMM 25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
AMM 38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

#### B. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
D50007	Grease - Silicone-Based, Generic	

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-100-00-01</b>	<b>Page 1 of 7</b> <b>Oct 15/2015</b>
-------------------------------	----------------------	---	--



DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-100-00-01</b>																	
<b>TASK 38-32-02-000-801</b> <b>1. Liquid Separator Removal</b> (Figure 1)  <b>A. Prepare for the Removal</b>  SUBTASK 38-32-02-610-001 (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, AMM TASK 38-32-00-910-801.  SUBTASK 38-32-02-610-002 (2) Do this task: Waste Tank Servicing, AMM TASK 12-17-01-610-801. <u>NOTE:</u> Do not add the chemical precharge after you do the task to drain and flush the waste tanks.  SUBTASK 38-32-02-860-001  <b><u>WARNING:</u></b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.  (3) Open these circuit breakers and install safety tags:  <b>Power Distribution Panel Number 1, P91</b> <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table> SUBTASK 38-32-02-010-001 (4) Open this access panel: <table border="1"> <thead> <tr> <th>Number</th> <th>Name/Location</th> </tr> </thead> <tbody> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </tbody> </table> SUBTASK 38-32-02-010-002 (5) To remove the enclosure panels for the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, AMM TASK 25-52-20-000-801.  <b>B. Liquid Separator Removal</b>  SUBTASK 38-32-02-020-001  <b><u>CAUTION:</u></b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.  (1) Loosen the clamp [2] that attach the flexible coupling [7] to the upper cap [1].  SUBTASK 38-32-02-020-002 (2) Loosen the v-band coupling [6].  SUBTASK 38-32-02-020-003 (3) Remove the upper cap [1] and packing [4]. (a) Discard the packing [4].				Row	Col	Number	Name	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER	Number	Name/Location	822	Aft Cargo Door	MECH	INSP
				Row	Col	Number	Name														
C	11	C01388	VACUUM WASTE CONT																		
F	2	C01389	VACUUM WASTE BLOWER																		
Number	Name/Location																				
822	Aft Cargo Door																				
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-100-00-01</b>																		

# AKS



## 737-600/700/800/900 TASK CARDS

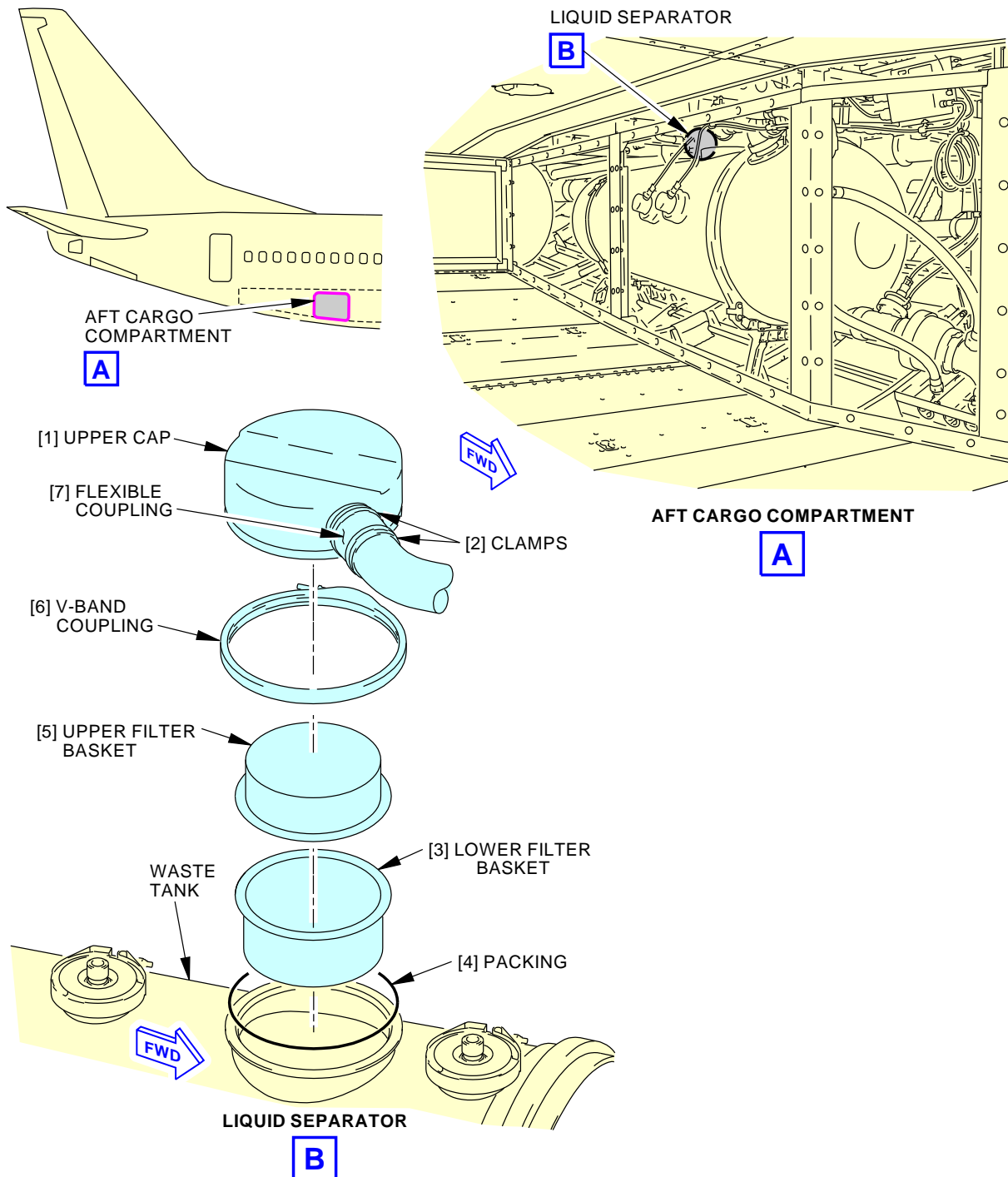
DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-100-00-01</b>	
<p><b>SUBTASK 38-32-02-020-004</b></p> <p>(4) Remove the lower filter basket [3] for the liquid separator from the waste tank.</p> <p><b>SUBTASK 38-32-02-020-005</b></p> <p>(5) Remove the upper filter basket [5] for the liquid separator from the cap [1].</p> <p>———— <b>END OF TASK</b> ————</p>				MECH	INSP
<b>EFFECTIVITY AKS ALL</b>		<b>SOURCE MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>		
			<b>D633A109-AKS 38-100-00-01</b>		
			<b>Page 3 of 7 Feb 15/2015</b>		

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-100-00-01</b>	
<b>TASK 38-32-02-100-801</b>  <b>2. Liquid Separator and Liquid Separator Filter Cleaning</b> (Figure 1)  <b>A. General</b> (1) This task cleans the liquid separator filter canister.  <b>B. Liquid Separator Cleaning</b> SUBTASK 38-32-02-020-006  <b>CAUTION:</b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.  (1) Do this task: Liquid Separator Removal, TASK 38-32-02-000-801. SUBTASK 38-32-02-160-001 (2) Mix the general purpose household detergent cleaner, B00541 with water in a container. SUBTASK 38-32-02-160-002 (3) Soak the two pieces of the liquid separator in the cleaner and water for a minimum of 15 minutes. SUBTASK 38-32-02-170-001 (4) Flush the liquid separator with clean water. SUBTASK 38-32-02-210-001 (5) Visually check the liquid separator and upper cap to see that they are clean. (a) Replace the upper basket [5] and lower basket [3] of the liquid separator if they are not clean.  <b>C. Put the Airplane Back to Its Usual Condition</b> SUBTASK 38-32-02-420-006 (1) Do this task: Liquid Separator Installation, TASK 38-32-02-400-801.  <p style="text-align: center;">————— <b>END OF TASK</b> —————</p>				MECH	INSP
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-100-00-01</b>		

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-100-00-01</b>													
<b>TASK 38-32-02-400-801</b>				MECH	INSP												
<b>3. Liquid Separator Installation</b> (Figure 1)																	
<b>A. Expendables/Parts</b>																	
<table border="1"> <thead> <tr> <th>AMM Item</th> <th>Description</th> <th>AIPC Reference</th> <th>AIPC Effectivity</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Packing</td> <td>38-32-02-50-060</td> <td>AKS ALL</td> </tr> </tbody> </table>				AMM Item	Description	AIPC Reference	AIPC Effectivity	4	Packing	38-32-02-50-060	AKS ALL						
AMM Item	Description	AIPC Reference	AIPC Effectivity														
4	Packing	38-32-02-50-060	AKS ALL														
<b>B. Liquid Separator Installation</b>																	
SUBTASK 38-32-02-640-001																	
<b>CAUTION:</b> USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.																	
(1) Apply the grease, D00463 or silicone-based grease, D50007 or Molykote 111 Compound, D00189 to the packing [4].																	
SUBTASK 38-32-02-420-001																	
(2) Install the lower filter basket [3] for the liquid separator in the waste tank.																	
SUBTASK 38-32-02-420-002																	
(3) Install the upper filter basket [5] for the liquid separator in the upper cap [1].																	
SUBTASK 38-32-02-420-003																	
(4) Install the upper cap [1] and packing [4].																	
SUBTASK 38-32-02-420-004																	
(5) Install the v-band coupling [6].																	
(a) Tighten the v-band coupling [6] 90 to 110 pound inches.																	
SUBTASK 38-32-02-420-005																	
(6) Attach the flexible coupling [7] and clamp [2] for the upper cap [1].																	
<b>C. Liquid Separator Installation Test</b>																	
SUBTASK 38-32-02-860-002																	
<b>WARNING:</b> BE CAREFUL WHEN YOU ACCESS THE (ROW F) CIRCUIT BREAKERS ON THE INSIDE OF THE P91 AND P92 PANELS. IF POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER BEFORE YOU ACCESS THE INSIDE OF THE P91 AND P92 PANELS. THE P91 AND P92 PANELS CONTAIN HIGH VOLTAGES AND CURRENTS THAT MAY CAUSE INJURIES TO PERSONS.																	
(1) Remove the safety tags and close these circuit breakers:																	
<b>Power Distribution Panel Number 1, P91</b>																	
<table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>11</td> <td>C01388</td> <td>VACUUM WASTE CONT</td> </tr> <tr> <td>F</td> <td>2</td> <td>C01389</td> <td>VACUUM WASTE BLOWER</td> </tr> </tbody> </table>				Row	Col	Number	Name	C	11	C01388	VACUUM WASTE CONT	F	2	C01389	VACUUM WASTE BLOWER		
Row	Col	Number	Name														
C	11	C01388	VACUUM WASTE CONT														
F	2	C01389	VACUUM WASTE BLOWER														
SUBTASK 38-32-02-860-003																	
(2) Do this task: Supply Electrical Power, AMM TASK 24-22-00-860-811																	
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>														
			<b>D633A109-AKS</b> <b>38-100-00-01</b>														
			<b>Page 5 of 7</b> <b>Feb 15/2016</b>														

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-100-00-01</b>					
<p>SUBTASK 38-32-02-710-001</p> <p>(3) Flush a toilet connected to the waste tank.</p> <p>SUBTASK 38-32-02-790-001</p> <p>(4) Examine the upper cap and the connections for leakage.</p> <p><b>D. Put the Airplane Back to Its Usual Condition</b></p> <p>SUBTASK 38-32-02-610-003</p> <p>(1) Do this task: Waste Tank Servicing, AMM TASK 12-17-01-610-801.</p> <p>SUBTASK 38-32-02-010-003</p> <p><b><u>WARNING:</u></b> SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.</p> <p>(2) Do this task: Waste Tank Enclosure Panel - Installation, AMM TASK 25-52-20-400-801.</p> <p>SUBTASK 38-32-02-410-001</p> <p>(3) Close this access panel:</p> <table border="0"> <tr> <td><b><u>Number</u></b></td> <td><b><u>Name/Location</u></b></td> </tr> <tr> <td>822</td> <td>Aft Cargo Door</td> </tr> </table> <p style="text-align: center;">———— <b>END OF TASK</b> ————</p>				<b><u>Number</u></b>	<b><u>Name/Location</u></b>	822	Aft Cargo Door	MECH	INSP
				<b><u>Number</u></b>	<b><u>Name/Location</u></b>				
822	Aft Cargo Door								
EFFECTIVITY <b>AKS ALL</b>		SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-100-00-01</b>						

DATE	TAIL NUMBER	STATION	AIRLINE CARD NO.	BOEING CARD NO. <b>38-100-00-01</b>
------	-------------	---------	------------------	--



F78472 S0006578657\_V3

**Liquid Separator Maintenance Practices  
Figure 1**

EFFECTIVITY <b>AKS ALL</b>	SOURCE <b>MRB</b>	<b>WASTE TANK WATER SEPARATOR</b>  <b>D633A109-AKS</b> <b>38-100-00-01</b>	<b>Page 7 of 7</b> <b>Oct 15/2015</b>
-------------------------------	----------------------	---	--