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SERVICE BULLETIN

N° **139-711**

**OPTIONAL**

DATE: August 1, 2023

REV. : /

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**TITLE**

**ATA 52 - PILOT HIGH VISIBILITY DOORS KIT INSTALLATION**

**REVISION LOG**

First Issue

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An appropriate entry should be made in the aircraft log book upon accomplishment.  
If ownership of aircraft has changed, please, forward to new owner.

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# 1. PLANNING INFORMATION

## A. EFFECTIVITY

All AB/AW139 helicopters from S/N 31005 to S/N 31699 and from S/N 41001 to S/N 41499.

## B. COMPLIANCE

At Customer's option.

## C. CONCURRENT REQUIREMENTS

N.A.

## D. REASON

This Service Bulletin is issued in order to provide the necessary instruction on how to perform the installation of kit pilot high visibility doors P/N 4G5211F00111.

LH issued this SB for the following reason:

Helicopter Reliability/Maintainability	
Product Improvement	
Obsolescence	
Customization	✓
Product/Capability Enhancement	

## E. DESCRIPTION

This Service Bulletin has been developed to remove the pilot door assy LH P/N 3P5211A00133 or subsequent, the pilot door assy RH P/N 3P5211A00233 or subsequent and install the pilot door assy LH high visibility P/N 3G5211A03232 and the pilot door assy RH high visibility P/N 3G5211A03332.

## F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives.

If an aircraft listed in the effectivity embodies a modification or repair not LHD certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

## G. MANPOWER

To comply with this Service Bulletin sixteen (16) MMH are deemed necessary. MMH are based on hands-on time and can change with helicopter configuration, personnel and facilities available.

MMH are not comprehensive of the overall hours necessary to get access to work areas and to remove all the equipment that interferes with the application of the prescribed instructions.

## H. WEIGHT AND BALANCE

N.A.

## I. REFERENCES

### I.1 PUBLICATIONS

Following Data Modules refer to AMP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM02 39-A-11-00-01-00A-720A-A	Decal - Install procedure.	-
DM03 39-A-52-11-01-00A-520A-A	Left cockpit door - Remove procedure.	-
DM04 39-A-52-11-01-00A-720A-A	Left cockpit door - Install procedure.	-
DM05 39-A-52-11-02-00A-520A-A	Left cockpit door - Remove procedure.	-
DM06 39-A-52-11-02-00A-720A-A	Left cockpit door - Install procedure.	-

### I.2 ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication

AR	As Required
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
IPD	Illustrated Part Data
ITEP	Illustrated tool and equipment publication
LH	Left Hand
LHD	Leonardo Helicopters Division
MMH	Maintenance Man Hours
N.A.	Not Applicable
P/N	Part Number
RH	Right Hand
SB	Service Bulletin
S/N	Serial Number

### **I.3 ANNEX**

N.A.

### **J. PUBLICATIONS AFFECTED**

N.A.

### **K. SOFTWARE ACCOMPLISHMENT SUMMARY**

N.A.

## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### A.1 PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	4G5211F00111		KIT PILOT HIGH VISIBILITY DOORS	REF	.		-
2	3G1120A05711		PILOT/COPILOT HIGH VISIBILITY DOOR EXTERNAL MARKINGS VARIANT	REF	..		-
3	A499AHO040E04N00		Decal	2	...		139-711L1
4	A499AHO040E01N00		Decal	2	...		139-711L1
5	A489A001		Decal	1	...		139-711L1
6	A489A002		Decal	1	...		139-711L1
7	A499AHL100E04N00		Decal	2	...		139-711L1
8	A499AHL100E01N00		Decal	2	...		139-711L1
9	212-072-636-109		Decal	2	...		139-711L1
10	3G1130A05611		PILOT/COPILOT HIGH VISIBILITY DOOR INTERNAL MARKINGS VARIANT	REF	..		-
11	A182A009E1		Decal	2	...		139-711L1
12	A308A004-1		Decal	2	...		139-711L1
13	A182A002E1		Decal	2	...		139-711L1
14	A180A010E2		Decal	2	...		139-711L1
15	3G5211A03232	3G5211A03232A Or 3G5211A03232M01	Pilot door assy LH high visibility	1	..	(1)	-
16	3G5211A03332	3G5211A03332A Or 3G5211A03332M01	Pilot door assy RH high visibility	1	..	(1)	-

Refer also to IPD for the spares materials required to comply with the AMP DMs referenced in the accomplishment instructions.

#### A.2 CONSUMABLES

Refer to AMDI for the consumable materials required to comply with the AMP DM referenced in the accomplishment instructions.

#### A.3 LOGISTIC MATRIX

In order to apply this Service Bulletin, the following Logistic P/N can be ordered in accordance with the applicable notes:

LOGISTIC P/N	Q.TY (PER HELO)	NOTE	PART
139-711L1	1	-	-
3G5211A03232	1	(1)	-
3G5211A03332	1	(1)	-

#### NOTES

- (1) Productive P/Ns 3G5211A03232A and 3G5211A03332A are shipped WITH the main door window installed. Productive P/Ns 3G5211A03232M01 and

3G5211A03332M01 are shipped WITHOUT the main door window installed. If P/Ns 3G5211A03232M01 and 3G5211A03332M01 are purchased, make sure to order the items below as well:

- 3G5211A00732 (qty.1)
- 3G5211A00832 (qty.1)
- 999-1700-48-101G (6m)
- 999-1700-49-101G (6m)
- A487A003A (qty.2)
- MS27980-17B (qty.2)
- NAS1149D0363K (qty.2)
- A436A06A2 (qty.2)
- A994A15T010D (qty.4)
- MS35214-26 (qty.2)
- 3G5610A04751 (qty.2)

Install such items in accordance to the applicable AMP DMs to complete the door set up.

## **B. SPECIAL TOOLS**

Refer to ITEP for the special tools required to comply with the AMP DM referenced in the accomplishment instructions.

## **C. INDUSTRY SUPPORT INFORMATION**

Customization.

### **3. ACCOMPLISHMENT INSTRUCTIONS**

#### **GENERAL NOTES**

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.
  - b) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.
1. In accordance with DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
  2. In accordance with DM 39-A-52-11-01-00A-520A-A and with reference to Figure 1, remove and discard the pilot door assy LH P/N 3P5211A00133 or subsequent. Retain fixing hardware for later re-use.
  3. In accordance with DM 39-A-52-11-02-00A-520A-A and with reference to Figure 1, remove and discard the pilot door assy RH P/N 3P5211A00233 or subsequent. Retain fixing hardware for later re-use.
  4. In accordance with DM 39-A-52-11-01-00A-720A-A and with reference to Figure 1, install the pilot door assy LH high visibility P/N 3G5211A03232 by means of the previously removed hardware (Ref. step 2).
  5. In accordance with DM 39-A-52-11-02-00A-720A-A and with reference to Figure 1, install the pilot door assy RH high visibility P/N 3G5211A03332 by means of the previously removed hardware (Ref. step 3).
  6. In accordance with DM 39-A-11-00-01-00A-720A-A and with reference to Figure 2, perform the pilot/copilot high visibility door internal markings variant P/N 3G1130A05611 as described in the following procedure:
    - 6.1 Install the decals P/N A182A009E1, P/N A308A004-1, P/N A182A002E1 and P/N A180A010E2 in the indicated positions on the pilot door assy LH high visibility P/N 3G5211A03232.
    - 6.2 Install the decal P/N A182A009E1, P/N A308A004-1, P/N A182A002E1 and P/N A180A010E2 in the indicated positions on the pilot door assy RH high visibility P/N 3G5211A03332.
  7. In accordance with DM 39-A-11-00-01-00A-720A-A and with reference to Figure 3,

perform the pilot/copilot high visibility door external markings variant P/N 3G1120A05711 as described in the following procedure:

**NOTE**

Perform the following steps 7.1 and 7.2 ONLY if door background is light.

- 7.1 Install the decals P/N A499AHO040E04N00 and P/N A499AHL100E04N00 in the indicated positions on the pilot door assy LH high visibility P/N 3G5211A03232.
- 7.2 Install the decal P/N A499AHO040E04N00 and P/N A499AHL100E04N00 in the indicated positions on the pilot door assy RH high visibility P/N 3G5211A03332.

**NOTE**

Perform the following steps 7.3 and 7.4 ONLY if door background is dark.

- 7.3 Install the decals P/N A499AHO040E01N00 and P/N A499AHL100E01N00 in the indicated positions on the pilot door assy LH high visibility P/N 3G5211A03232.
- 7.4 Install the decal P/N A499AHO040E01N00 and P/N A499AHL100E01N00 in the indicated positions on the pilot door assy RH high visibility P/N 3G5211A03332.
- 7.5 Install the decals P/N A489A001 and P/N 212-072-636-109 in the indicated positions on the pilot door assy LH high visibility P/N 3G5211A03232.
- 7.6 Install the decals P/N A489A002 and P/N 212-072-636-109 in the indicated positions on the pilot door assy RH high visibility P/N 3G5211A03332.
8. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
9. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
10. Gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".

As an alternative, send the attached compliance form to the following mail box:

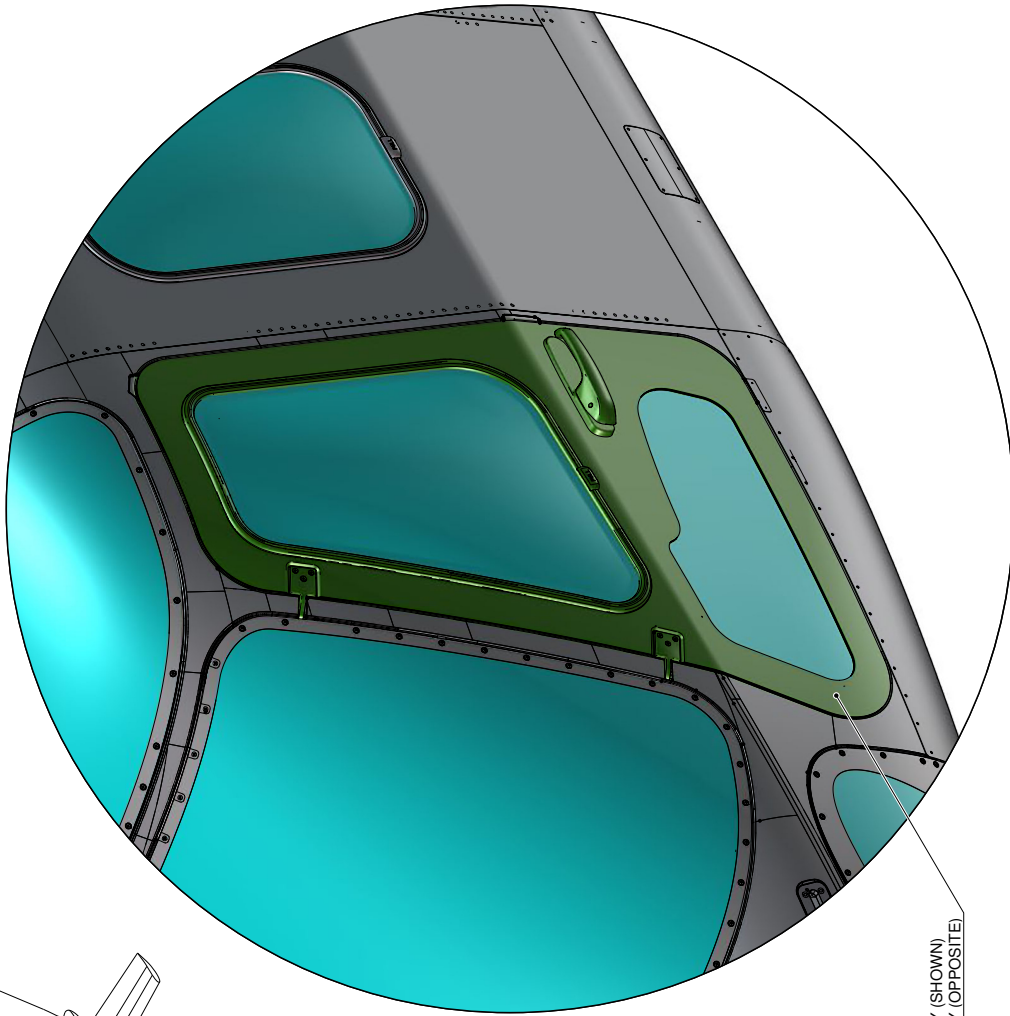
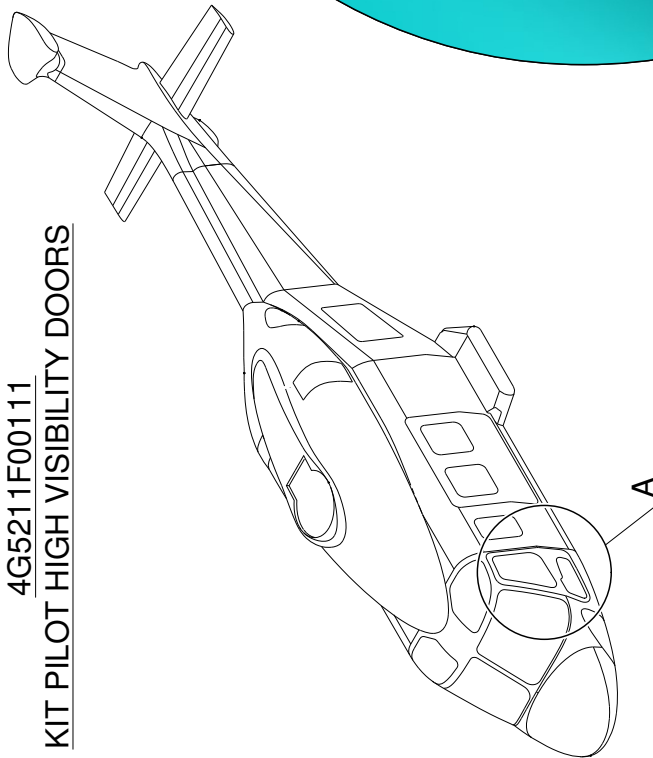
[engineering.support.lhd@leonardo.com](mailto:engineering.support.lhd@leonardo.com)

and (for North, Central and South America) also to:

[AWPC.Engineering.Support@leonardocompany.us](mailto:AWPC.Engineering.Support@leonardocompany.us)



**4G5211F00111**  
**KIT PILOT HIGH VISIBILITY DOORS**

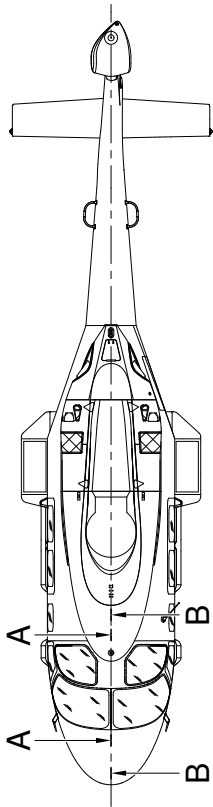


- REMOVE:  
 ⚠ 3P5211A00133 PILOT DOOR ASSY LH (SHOWN)  
 ⚠ 3P5211A00233 PILOT DOOR ASSY RH (OPPOSITE)  
 INSTALL:  
 3G5211A03232 PILOT DOOR ASSY LH HIGH VISIBILITY (SHOWN)  
 3G5211A03332 PILOT DOOR ASSY LH HIGH VISIBILITY (OPPOSITE)

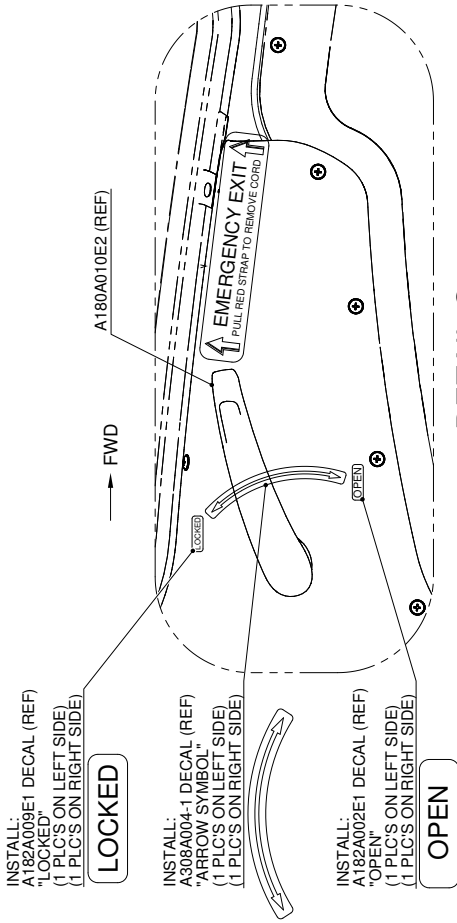
**DETAIL A**  
 (LEFT SIDE SHOWN TYP RIGHT SIDE)  
 STRUCTURES AND SYSTEMS ARE PARTIALLY  
 OMITTED FOR BETTER CLARITY PURPOSE

**NOTE:**  
 ⚠ P/N TO BE REMOVED OR SUBSEQUENT

**3G1130A05611**  
**PILOT/COPILOT HIGH VISIBILITY DOOR**  
**INTERNAL MARKINGS VARIANT**

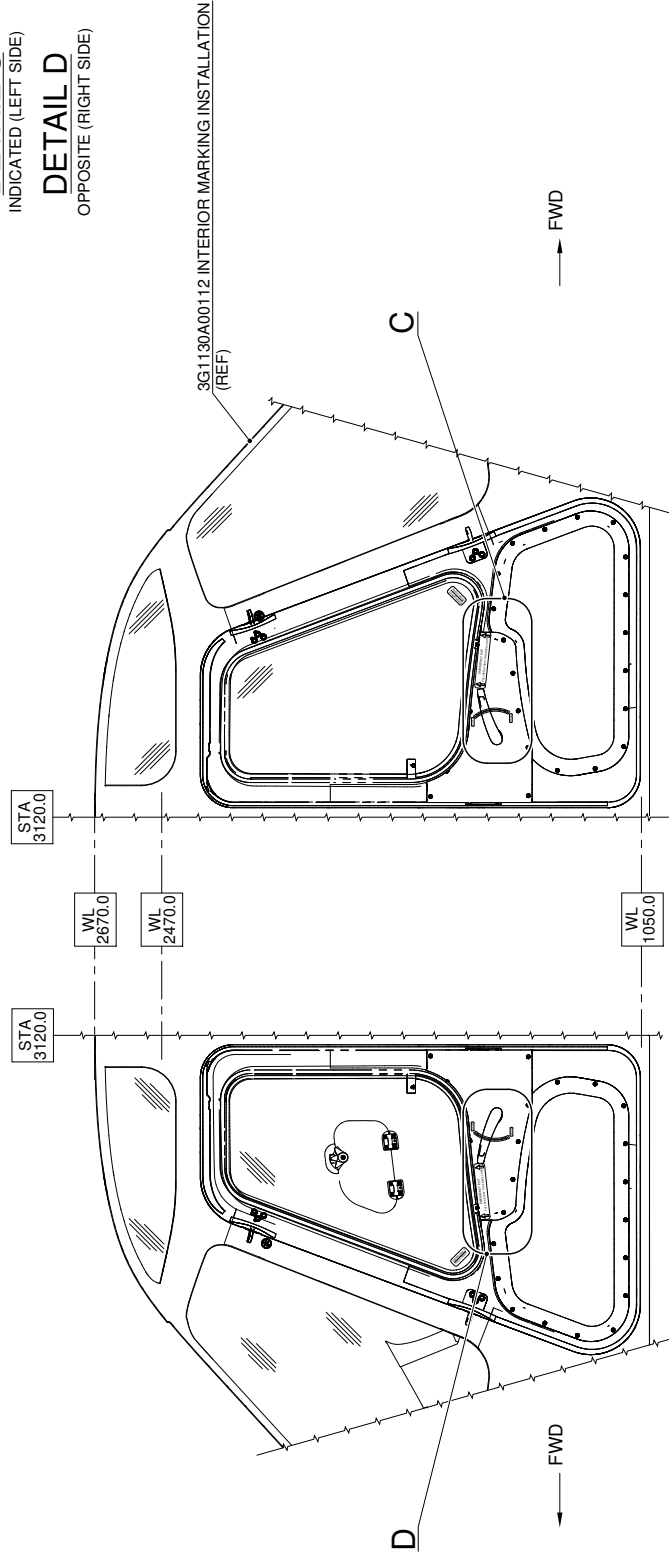


**ORIENTATIVE VIEW**

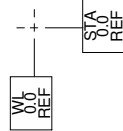
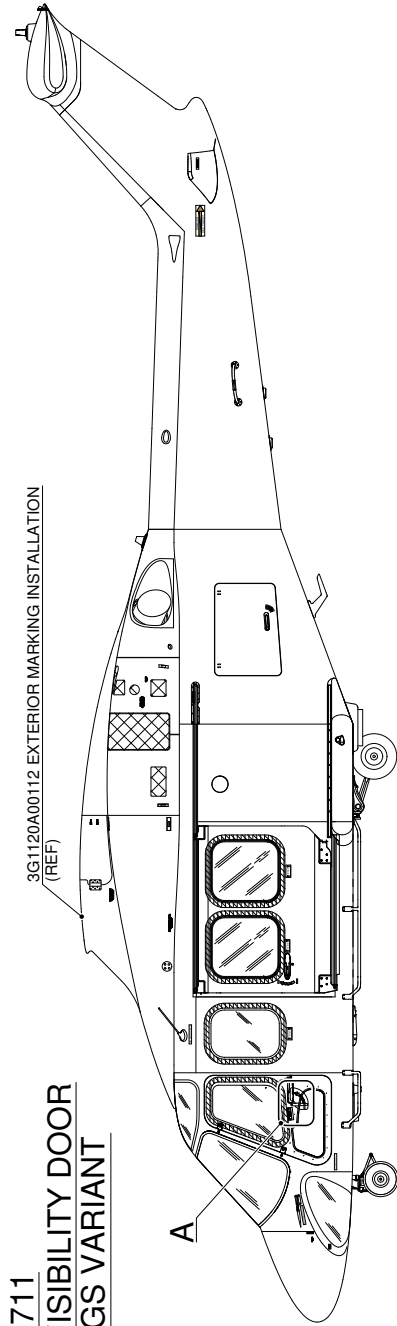


**DETAIL C**  
INDICATED (LEFT SIDE)

**DETAIL D**  
OPPOSITE (RIGHT SIDE)



**3G1120A05711**  
**PILOT/COPILOT HIGH VISIBILITY DOOR**  
**EXTERNAL MARKINGS VARIANT**



INSTALL:  
 ① A499AHC040E04N00 DECAL (REF)  
 ② A499AH0040E01N00 DECAL (REF)  
 ③ "OPEN"  
 (1 PLACES ON LEFT SIDE)  
 (1 PLACES ON RIGHT SIDE)

**OPEN**

INSTALL:  
 A489A001 DECAL (SHOWN) (REF)  
 "ARROW SYMBOL"  
 A489A002 DECAL (OPPOSITE) (REF)  
 "ARROW SYMBOL"



INSTALL:  
 ① A489AHL100E04N00 DECAL (REF)  
 ② A489AHL100E01N00 DECAL (REF)  
 "LOCKED"  
 (1 PLACES ON LEFT SIDE)  
 (1 PLACES ON RIGHT SIDE)

**LOCKED**



**NOTE:**

- ① COLOUR BLACK ON BACKGROUND TRANSPARENT
- ② IF BACKGROUND IS LIGHT
- ③ COLOUR WHITE ON BACKGROUND TRANSPARENT
- ④ IF BACKGROUND IS DARK

INSTALL:  
 212-072-636-109 (REF)

**DETAIL A**

(LEFT SIDE SHOWN TYP RIGHT SIDE)  
 STRUCTURES AND SYSTEMS ARE PARTIALLY  
 OMITTED FOR BETTER CLARITY PURPOSE

