

1. General

Exterior placards and markings are affected by deterioration or detachment from the A/C due to erosion, abrasion and contamination with aggressive fluids. Therefore, the placards and markings should be inspected in regular intervals for presence and condition. Missing or damaged placards and markings shall be replaced. Due to different functions of each placard, the time given for replacement can differ depending on the importance of the placard.

Further, it is necessary to install all placards initially after an A/C re-painting event. Therefore, this EO must be used for installation of technical markings during paint layover.

This EO shows the installation positions and gives the P/N of each placard used on DLH A319/A320/A321 A/C.

2. Maintenance Tasks

The inspections of the placards and markings are triggered by MS items mentioned below. Furthermore, full application of placards and markings acc. to this EO is required after A/C painting.

2.1 MS 112000 X0100

All placards and markings except panel numbering have to be inspected according step 3.1 at intervals given in the referenced MS task.

Refer to the attached drawings items 1.xx through 6.xx of the respective A/C type.

2.2 MS 112000 X0200

All panel numbering placards have to be inspected according step 3.1 at intervals given in the referenced MS task.

Refer to the attached drawings items **except** 1.xx through 6.xx of the respective A/C type.

2.3 MS112000 X0000

All Protection foils have to be inspected according step 3.2 at intervals given in the referenced MS task.

3. Accomplishment Instructions

Refer to the applicable drawings for the A/C type:

A319: DLHA3191TM

A320: DLHA3202TM

A321: DLHA321XTM

To each drawing, there is a corresponding partlist containing the P/Ns of all placards referenced by item number in the drawing.

Check the placards and markings given in the applicable drawings for presence, readability and condition.

In case of A/C painting, initial installation of technical markings must be done in accordance with this procedure.

3.1 Placards and Markings

Landing Gear Placards

Check the "INFLATE TYRES WITH NITROGEN ONLY" and the applicable TIRE INFLATING PRESSURE placards acc. IPC11-22-32 or 11-22-89 (as applicable). In case the placard/marking is missing, eroded, unreadable or damaged, replace/repaint the placard/marking as per AMM chapter 11 with the P/N acc. IPC. In case no material is available, deferral is possible acc. chapter 4 of this EO. The placards on the MLG are to be regarded as "EASA required" (category "A") placards. On the NLG, only the filling pressure placards are to be regarded as "EASA required". The "INFLATE TYRES WITH NITROGEN ONLY" placards are in category "C".

All placards except Landing Gear Placards

In case the placard/marking is missing, eroded, unreadable or damaged, replace/repaint the placard/marking with the P/N acc. partlist and drawing. In case no material is available or downtime is insufficient, deferral is possible acc. chapter 4 of this EO.

NOTE: On A321, it is possible that the red line (item no. 5.3) is in a position further AFT (830mm instead of 250mm). This is due to a previous drawing which has been revised. The line can remain in that position until re-painting of entire A/C or engine.

NOTE: Due to the on-attrition P/N change to the new LHT P/Ns, it is possible that "old" LHT P/Ns or Airbus OEM placards/markings are installed on the A/C. "Old" LHT P/Ns can remain installed and don't have to be replaced by the new LHT P/Ns immediately, if the A/C is in DLH "OLD" livery (see Fig. 1). "Old" LHT P/Ns can be identified by their P/N structure "LHT EPA A319 x.yy" whereas in place of "A319" you may also find "A320" and "A321" and "x.yy" is the numerical item number (e.g. 1.30, 2.3, 4.1).

On DLH NEW livery (see Fig. 1) A/C, only the new LHT Placard P/Ns shall be installed or Airbus OEM P/Ns. Especially on bare metal parts (e.g. pylons, engine nozzles), check that no "old" LHT P/Ns are installed.



Fig. 1: DLH old livery (L/H) and new livery (R/H)

On A/C in Airbus OEM livery (DLH new or old livery), placards/markings may stay installed until they need replacement due to damage/erosion resulting in a possible mix between OEM and LHT P/Ns. Airbus OEM markings can be identified using the attached Airbus 3D renderings for the applicable A/C type (A320neo old livery, A320neo new livery, A320ceo new livery, A321neo new livery) or the applicable IPC.

For placard/marketing replacement, use applicable AMM 11-00-00 procedures.

Apply a layer of clear coat paint exceeding the edges of the placards by 5mm to each side on placards located on:

- Door 1L + Door 1R
- Engines/nacelles
- Fuselage lower half up to door/cabin floor level
- Wing lower side
- FWD and AFT Cargo door area and vicinity (~1m)
- Bulk Cargo door and vicinity (~1m)

In case of insufficient downtime, open a deferred item for this step.

Apply edge sealer 3M 3950 on placards on:

- Unpainted areas of the engine pylons
- Areas not covered by clear coat as per requirement above.

NOTE: Clear coat does NOT have to be applied to the Protection foils P/N 35007TR080.

Make a TLB entry for all replaced placards/markings.

3.2 Protection foil

For installation locations of protection foils, refer to the attached A319/A320/A321 partlists items named "PROTECTION FOIL".

If during accomplishment of the inspection it is detected that seals are installed to <30% of the protection foils, it is possible to defer the removal of the seals and the reapplication of the protection foils to the next inspection threshold. If security seals are applied to >30% of the protection foils do step 3.1.

It is satisfactory to replace the mainly used foils only and to leave the other ones, on which no seals are applied, on the A/C.

Note: If removal of unbroken seals and protection foils is necessary to be performed on the ramp, inform the local security department.

4. Deferring of rectification

In case placards needing replacement are not available immediately, their replacement may be deferred for a certain period of time depending on their importance.

- A) EASA required placards/markings
AMM ATA11 refers to "EASA required Placards and Markings" document which permits deferral until next suitable maintenance downtime.
EASA required placards/markings (as marked in the partlist) should be replaced before next flight in order to ensure proper handling of the A/C. Only if not available or downtime is insufficient, the replacement may be deferred for a period of 3 days.
- B) CAUTION/DANGER/WARNING placards which are NOT contained in A), Engine hazard areas placards, Static Port Placards: 10 days
- C) Other placards except categories A, B, D: 30 days
- D) Panel numbering placards: 24MTH

For placards category A, further extension of deferral is generally not possible. Only in coordination with Production Engineering, further extensions may be granted for certain category A placards. For placards category B-D, further extension of deferral is possible.

For placards category A-C: Per placard/marking, an individual Deferred Item must be raised. You may not combine several complaints into one Deferred Item.

For placards category D: Combine several complaints into one Deferred Item.