



LEONARDO
HELICOPTERS

LEONARDO MALAYSIA SDN. BHD.

WORK CARD

SERVICE ORDER NUMBER:

90025566

WORKCARD NUMBER:

2023/BGH/001-12

TITLE:

SB139-137 DATE: NOVEMBER 14, 2008 REV. : C - OCTOBER 17, 2019 - ATA 32 - INSTALLATION OF KIT POWERED PARKING BRAKE MODULE (PART III)

CUSTOMER:

LEONARDO HELICOPTER ITALY (LHI)

REGISTRATION:

9M-BGH

AIRFRAME HOURS:

302:40

#1 ENGINE

SERIAL NUMBER:

PCE-KB1931

#2 ENGINE

SERIAL NUMBER:

PCE-KB1885

APU

SERIAL NUMBER:

N/A

SERIAL NUMBER:

31763

LANDINGS:

850

ENGINE HOURS:

302:40

ENGINE HOURS:

302:40

302:40

APU HOURS:

N/A

N/A

NO SOURCE

TASK / REFERENCE

REMARKS

MECHANIC SIGN

* AH SIGN & STAMP

DATE

NOTE: FOR FIGURE(S), REFER TO IETP / ENGINE MANUAL / AD / SB.

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) SHAPE THE CABLES IN ORDER TO PREVENT INTERFERENCE WITH THE STRUCTURE AND THE OTHER EXISTING INSTALLATIONS, USING WHERE NECESSARY SUITABLE LACING CORDS.
- C) EXERCISE EXTREME CARE DURING DRILLING OPERATIONS TO PREVENT INSTRUMENTS, CABLES AND HOSES DAMAGE.
- D) AFTER DRILLING, REMOVE ALL SWarf AND SHARP EDGES. APPLY ON BARE METAL A LIGHT FILM OF PRIMER UNLESS THE HOLE IS USED FOR GROUND CONNECTION.
- E) DURING THE INSTALLATION OF BONDING BRAIDS OR COMPONENTS REQUIRING GROUNDING, CLEAN THE SURFACE STRUCTURE IN ORDER TO OBTAIN A GOOD GROUND CONTACT.
- F) LET ADHESIVE CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS UNLESS OTHERWISE SPECIFIED.
- G) EXPOSED THREAD SURFACE AND NUT MUST BE PROTECT USING A LAYER OF TECTYL ACCORDING TO MIL-C-16173 GRADE I.
- H) ALL LENGTHS ARE IN MM.

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NO	SOURCE	TASK / REFERENCE	REMARKS	MECHANIC SIGN	* AH SIGN & STAMP	DATE
1	-	IN ACCORDANCE WITH AMP 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.	SATS FACTORY PREPARED.	<i>[Signature]</i>		13/2/25
2	-	WITH REFERENCE TO AMP DM 39-A-07-11-00-00A-028A-A LIFT THE HELICOPTER ON JACKS.	SATS FACTORY LIFTED.	<i>[Signature]</i>		13/2/25
3	-	UNLATCH NOSE DOOR 213AL AND GAIN ACCESS TO THE WHEEL BRAKE SYSTEM RESERVOIR INSTALLED IN THE BULKHEAD AT STA 1500.	SATS FACTORY ACCESS.	<i>[Signature]</i>		13/2/25
4	-	WITH REFERENCE TO FIGURE 51 AND IN ACCORDANCE WITH AMP DM 39-A-32-42-01-00B-520A-A REMOVE RESERVOIR FROM A/C AND DRAINING TRAY ASSY P/N 3G3240A17031. DISCARD RESERVOIR, DRAINING TRAY ASSY, THE RELEVANT CLAMPS AND FASTENING HARDWARE.	SATS FACTORY REMOVE AND DISCARD.	<i>[Signature]</i>		13/2/25
5	-	IN ACCORDANCE WITH AIRCRAFT CONFIGURATION REMOVE AND DISCARD LOOM ASSY P/N 3G3240A16631 OR LOOM ASSY P/N 3G3240A19131 OR LOOM ASSY P/N 3G3240A19931 OR LOOM ASSY P/N 3G3240A16031 AND RELEVANT CLAMPS AND FASTENING HARDWARE.	SATS FACTORY REMOVE AND DISCARD.	<i>[Signature]</i>		13/2/25
6	-	INSTALL PLUG P/N 999-5001-10-26 AND SEAL WITH PROSEAL IN THE HOLE LEFT IN THE BULKHEAD AFTER REMOVING HYDRAULIC LINES FROM THE RESERVOIR.	SATS FACTORY PLUGGED AND PROSEAL	<i>[Signature]</i>		14/2/23

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7	-	WITH REFERENCE TO FIGURE 51, GAIN ACCESS TO THE INTERSEAT CONSOLE AREA AND DISCONNECT AND REMOVE THE P/B CONTROL LEVER IN ACCORDANCE WITH AMP DM 39-A-32-42-11-00A-520A-A.	SPLIT FASTENERS REMOVED.			13/12/23
8	-	GAIN ACCESS TO THE NOSE LANDING GEAR BAY AND WITH REFERENCE TO FIGURE 39 WIRING DIAGRAM DISCONNECT THE INDICATED WIRES FROM TB1012 AND TB1014, ON TOP OF THE PARKING BRAKE VALVE ASSEMBLY, FROM S74P1 AND S75P1 CONNECTORS OF PRESSURE SWITCHES AND FROM S76 CONTROL LEVER SWITCH. REMOVE OR STOW ALL THESE WIRES.	NOTIFY HQD, ACCESS GAINING, WIRES DISCONNECTED, WIRES REMOVED		 	22/12/23 22/12/23 =
9	-	WITH REFERENCE TO FIGURE 39 WIRING DIAGRAM, DISCONNECT P150 CONNECTOR IN THE VANE UNDERNEATH INTERSEAT CONSOLE AND REMOVE J150 CONNECTOR WITH EXISTING C/A AS DESCRIBED IN NEXT STEPS.	NOTIFY HQD, P150 AND J150 AND REMOVED		 	22/12/23
10	-	GAIN ACCESS TO THE NOSE LANDING GEAR BAY AND IN ACCORDANCE WITH AMP DM 39-A-32-42-05-00A-520A-A AND 39-A-32-42-06-00A-520A-A REMOVE THE LH AND RH PRESSURE SWITCHES, THE MOUNTING BRACKET AND ALL THE FASTENING HARDWARE. DISCARD THE PRESSURE SWITCHES, THE MOUNTING BRACKET, RELEVANT TEES AND HARDWARE; KEEP THE PROTECTIVE CAP P/N A477A04.	SPLIT FASTENERS REMOVED AND DISCARDED.		 	13/12/23
11	-	WITH REFERENCE TO FIGURE 51, REMOVE THE WHOLE P/B VALVE ASSEMBLY IN ACCORDANCE WITH AMP DM 39-A-32-42-04-00A-520A-A. PROTECT SURFACE UNDER P/B VALVE ASSEMBLY WITH PRIMER. DISCARD THE P/B VALVE ASSEMBLY AND RELEVANT SUPPORTS AND FASTENING HARDWARE.	SPLIT FASTENERS REMOVED AND DISCARDED.		 	13/12/23

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12	-	GAIN ACCESS TO THE NOSE LANDING GEAR BAY AND REMOVE THE OTHER END OF THE P/B CONTROL CABLE IN ACCORDANCE WITH AMP DM 39-A-32-42-11-00A-520A-A. DISCARD THE P/B CONTROL LEVER AND RELEVANT CABLE, THE CLAMPS AND FASTENING HARDWARE.	SATISFACTORY REMOVED.	<i>SL</i>		15/2/23
13	-	WITH REFERENCE TO FIGURES 51 AND 7 REMOVE FROM THE A/C THE FOLLOWING ITEMS BELONGING TO THE WHEEL BRAKE HYDRAULIC LINES INSTALLATION P/N 3G3240A11414 AND DISCARD THEM: <ul style="list-style-type: none"> • 3G3240A11032 LOOM ASSY; • 3G3240A11232 LOOM ASSY; • 3G3240A14831 LOOM ASSY; • 3G3240A15131 LOOM ASSY; • 3G3240A15431 PIPE ASSY; • 3G3240A15531 PIPE ASSY; • 3G3240A15631 LOOM ASSY. 	SATISFACTORY REMOVED	<i>ML</i>		14/2/23
14	-	INSTALL PLUG P/N 999-5001-10-22 AND SEAL WITH PROSEAL THE HOLE LEFT IN THE BULKHEAD AFTER REMOVING LOOM ASSY 3G3240A15631.	SATISFACTORY INSTALLED	<i>ML</i>		14/2/23
15		WITH REFERENCE TO FIGURES 10 AND 11 CARRY OUT THE W/B PARKING STRUCTURAL PROVISION IN THE NOSE L/G BAY AS FOLLOWS: 15.1 WITH REFERENCE TO FIGURE 11 VIEW A DRILL OUT THE RIVET POSITIONED ON THE RH SIDE PANEL, AT WL 1300. 15.2 WITH REFERENCE TO FIGURE 11 VIEW A TEMPORARILY LOCATE SUPPORT ASSY P/N 3G5315A27831 AND SUPPORT ASSY P/N 3G5315A27931 ON THE RH SIDE PANEL, AT WL 1300.0, AND MARK POSITION OF 4 HOLES.	SATISFACTORY DRILL OUT	<i>ML</i>		14/2/23
			SATISFACTORY TEMPORARILY LOCATE	<i>ML</i>		14/2/23

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		<p>NOTE</p> <p>PERFORMING FOLLOWING STEP 15.3, THE USE OF N°3 HI-LOCK BOLTS P/N HL20PB86-5-3 AND N°1 P/N HL20PB86-5-4 INSTEAD OF INDICATED ONES IS ALLOWED.</p> <p>15.3 DRILL FOUR 4.18 TO 4.22 MM DIAMETER HOLES THROUGH THE PANEL. DEBURR HOLES AND INSTALL ABOVE MENTIONED SUPPORT ASSEMBLIES USING N°3 HI-LOCK BOLTS HL20PB86-5-7.</p>	SATISFACTORY DRIVEOUT	<i>M</i>	<i>M</i> 	14/2/23
		<p>NOTE</p> <p>PERFORMING FOLLOWING STEP 15.4, THE USE OF INSERT P/N NAS1836-3-13 INSTEAD OF INDICATED ONES IS ALLOWED. IN THIS CASE DRILL N°2 Ø 11.00÷11.20 HOLES.</p> <p>15.4 WITH REFERENCE TO FIGURE 11 VIEW A, MARK POSITION OF TWO INSERTS NAS1832C3-3M.</p>	SATISFACTORY MARKED THE POSITION	<i>M</i>	<i>M</i> 	14/2/23
		<p>15.5 DRILL TWO 14.24 TO 14.38 MM DIAMETER HOLES IN THE HONEYCOMB PANEL TOP SKIN. USING ADHESIVE EA934NA INSTALL TWO THREADED INSERTS NAS1832C3-3M IN ACCORDANCE WITH CSRP DM CSRP-A-51-42-00-00A-720A-D. LET THE ADHESIVE CURE PROPERLY.</p> <p>15.6 WITH REFERENCE TO FIGURE 11 AND IN ACCORDANCE WITH AMP DM 39-A-20-10-01-00A-259A-A PREPARE THE SURFACE AROUND THE INSERT FOR A GOOD ELECTRICAL BONDING, WITH THE APPLICATION OF CHEMICAL CONVERSION COATING (C061).</p>	SATISFACTORY INSTALLED	<i>M</i>	<i>M</i> 	14/2/23
			SATISFACTORY APPLIED	<i>M</i>	<i>M</i> 	14/2/23

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		15.7 WITH REFERENCE TO FIGURE 11 VIEW A AND IN ACCORDANCE WITH AMP DM 39-A-20-10-09-00A-920A-A, MARK POSITION OF STUD A366A3E08C. IF NOT ALREADY EXISTING ON THE AIRCRAFT, INSTALL ONE STUD A366A3E08C USING ADHESIVE EA9309NA AND THE PRESSURE APPLICATION FIXTURE (PAF). LET THE ADHESIVE CURE PROPERLY.	SATISFACTORILY INSTALLED	<i>M</i>	<i>M</i> 	14/2/23
		NOTE PERFORMING FOLLOWING STEP, IF THE LOW ACCESSIBILITY DOESN'T ALLOW THE INSTALLATION OF THE N°4 ANCHOR NUTS P/N MS21075L3, DRILL N°4 Ø 4.9±5.25 THRU HOLES.	SATISFACTORILY MARKED AND INSTALLED	<i>M</i>	<i>M</i> 	16/2/23
		15.8 WITH REFERENCE TO FIGURE 10, ON THE BULKHEAD AT STA 2105, MARK POSITION OF THE FOUR ANCHOR NUTS MS21075L3N. INSTALL ANCHOR NUTS USING EIGHT RIVETS MS20426AD3-4.				
		15.9 WITH REFERENCE TO FIGURE 11 VIEW B AND IN ACCORDANCE WITH AMP DM 39-A-20-10-09-00A-920A-A, INSTALL TWO STUD P/N A366A3E08C USING ADHESIVE EA9309NA AND THE PRESSURE APPLICATION FIXTURE (PAF). LET THE ADHESIVE CURE PROPERLY.	SATISFACTORILY INSTALLED	<i>M</i>	<i>M</i> 	15/2/23
16		NOTE IN ORDER TO AVOID PHYSICAL INTERFERENCES, DO NOT INSTALL WBPENI COVER P/N 3G3240A18952, AS PER FOLLOWING STEP 16 AND STEP 25, ON A/C EQUIPPED WITH NOSE LANDING GEAR DOORS KIT P/N 3G5280F00111 OR P/N 4G5280F00111 OR P/N 4G5280F00112.				

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17		<p>WITH REFERENCE TO FIGURE 45 VIEW A AND FIGURE 47 VIEW A1 AND IN ACCORDANCE WITH AMP DM 39-A-20-10-09-00A-920A-A INSTALL FOUR STUDS A366A3E16C75 FOR THE INSTALLATION OF WPBEM COVER P/N 3G3240A18952. BOND STUDS BY MEANS OF ADHESIVE EA9309NA AND THE PRESSURE APPLICATION FIXTURE (PAF). LET THE ADHESIVE CURE PROPERLY.</p> <p>NOTE</p> <p>WITH REFERENCE TO FIGURE 46 DETAIL C, MAKE SURE TO INSTALL ONE STUD A366A3E16C75 ROTATED BY 90°. WITH REFERENCE TO FIGURE 48 DETAIL C1, MAKE SURE TO INSTALL TWO STUD A366A3E16C75 ROTATED BY 90°.</p> <p>COMPLY WITH PART I STEPS 14 THROUGH 19 OF THIS SERVICE BULLETIN.</p>	SATISFACTORY INSTALLED	<i>M</i>	<i>M</i> 	16/2/23
18		<p>WITH REFERENCE TO FIGURES 52 AND 53 AND IN ACCORDANCE WITH AMP DM 39-B-32-42-11-00A-720A-K INSTALL THE W/B LEVER P/N 4F3240V00231. SECURE ONE END TO THE W/B CONTROL PANEL IN THE INTERSEAT CONSOLE AND THE OTHER END TO THE WBPEM. PERFORM THE CABLE ADJUSTMENT IN ACCORDANCE WITH AMP (SEE DM 39-B-32-42-11-00A-720A-K).</p>	SATISFACTORY INSTALLED. CABLE ADJUSTMENT NOT REQUIRED DUE TO CLEARANCE WITHIN LIMIT	<i>M</i>	<i>M</i> 	27/2/23
19		<p>NOTE</p> <p>PERFORM FOLLOWING STEPS 19 THRU 21 ONLY FOR HELICOPTERS EQUIPPED WITH MACHINED LONGERON.</p> <p>WITH REFERENCE TO FIGURE 51 AND FIGURE 61 VIEW G, INSTALL SCREW P/N MS35207-260 AND WASHER P/N NAS1149D0332K. USE SEALANT MC-780 C (C465) UNDER THE HEAD AND ON THE SHANK OF FASTENERS.</p>	SATISFACTORY INSTALLED	<i>M</i>	<i>M</i> 	20/2/23
<input type="checkbox"/> PARTS / MATERIAL USED / COMPONENT CHANGE RECORD HAVE BEEN RAISED AND ATTACHED.		<input type="checkbox"/> CALIBRATED / SPECIAL TOOLS RECORD SHEET HAVE BEEN RAISED AND ATTACHED.		* APPROVAL HOLDER HAVE VERIFIED THAT ALL TOOLS, EQUIPMENT AND OTHER EXTRANEOUS PART OF MATERIALS ARE CLEARED AND ALL TASKS OR INSPECTIONS HAVE BEEN CARRIED OUT TO THE REQUIRED STANDARD. TASK HAS BEEN PERFORMED I.A.W MAINTENANCE MANUAL SPECIFIED IN WORKPACK INDEX LM/QA/GEN/01.		

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20	-	WITH REFERENCE TO FIGURE 51 AND FIGURE 61 VIEW G, INSTALL N°3 PLUGS P/N AW010FP103 AND SEAL WITH SEALANT MC-780 B (C465).	SATISFACTORILY INSTALLED	<i>W</i>	<i>W</i> 	16/12/23
21		WITH REFERENCE TO FIGURE 51 AND FIGURE 61 VIEW H, INSTALL PLUG P/N AW010FP118 AND SEAL WITH SEALANT MC-780 B (C465).	SATISFACTORILY INSTALLED	<i>W</i>	<i>W</i> 	16/12/23
22	-	<p style="text-align: center;">NOTE</p> <p>PRIOR TO COMPLYING FOLLOWING STEPS VERIFY THAT PIPES ARE FREE FROM NICKS AND/OR SQUASHING AND THAT THEY DO NOT SHOW ANY INTERFERENCE. AFTER TORQUE, APPLY ON PIPES AND FITTINGS A YELLOW PAINT WITNESS MARK. PRIOR TO INSTALLATION, LUBRICATE O RINGS WITH HYDRAULIC FLUIDS.</p> <p>WITH REFERENCE TO FIGURES 6 THRU 9 INSTALL THE FOLLOWING HYDRAULIC LINES IN THE NOSE LANDING GEAR BAY:</p> <p style="text-align: center;">NOTE</p> <p>USE NUTS P/N MS21042L3 FOR INSTALLATION OF CLAMP BLOCK P/N A295A3001A IF THE ANCHOR NUTS P/N MS21075L3N WEREN'T INSTALLED IN PREVIOUS STEP 15.8.</p> <ul style="list-style-type: none"> • 3G3240A18331 PIPE ASSY; • 3G3240A18431 PIPE ASSY; • 3G3240A18531 PIPE ASSY; • 3G3240A18631 PIPE ASSY. 	SATISFACTORILY INSTALLED	<i>W</i>	<i>W</i> 	16/12/23

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23	-	<p style="text-align: center;"><u>NOTE</u></p> IN THE FOLLOWING STEPS FROM 23 TO 25, IF NOT ALREADY APPLIED, INSTALL DECAL P/N 999-2701-01-7 AT EACH END OF EACH PIPE ASSY USED. INSTALL DECAL IN ACCORDANCE WITH FLUID DIRECTION SHOWN IN FIGURES 41, 42 AND 43.	SATISFACTORY ASSEMBLED AND SWAGED	H	 	20/12/23
24	-	WITH REFERENCE TO FIGURE 42 AND IN ACCORDANCE WITH AMP DM 39-A-20-40-01-00A-66AA-A, PERFORM ON-SITE ASSEMBLING OF LOOM ASSY P/N 3G3240A17531 USING PIPE ASSY P/N 3G3240A17631, PIPE ASSY P/N 3G3240A177731 AND ONE UNION. FOR PIPE SWAGING AND CRIMPING USE PERMASWAGE KIT P/N DLTRFPSKT3038.	SATISFACTORY SWAGED AND CRIMPED	H	 	20/12/23
25	-	WITH REFERENCE TO FIGURE 43 AND IN ACCORDANCE WITH AMP DM 39-A-20-40-01-00A-66AA-A, PERFORM ON-SITE ASSEMBLING OF LOOM ASSY P/N 3G3240A17831 USING PIPE ASSY P/N 3G3240A18131, PIPE ASSY P/N 3G3240A18231, PIPE ASSY P/N 3G3240A18051, PIPE ASSY P/N 3G3240A17931, ONE TEE P/N A282A04 AND ONE UNION P/N A281A04. FOR PIPE SWAGING AND CRIMPING USE PERMASWAGE KIT DLTRFPSKT3038.	SATISFACTORY SWAGED AND CRIMPED	H	 	20/12/23
26	-	IN ACCORDANCE WITH ANNEX A PERFORM A PRESSURE TEST OF ALL PIPES AND LOOM ASSEMBLIES.	SATISFACTORY APPROVED BY.	H	 	20/12/23

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27	-	WITH REFERENCE TO FIGURES 6 THRU 9 CONNECT ALL HYDRAULIC LINES AND TIGHTEN ALL FITTINGS AT A TORQUE OF 13.56 TO 15.25 N.MI.	SATISFACTORY CONNECTED AND TIGHTEN	<i>M</i>		16/2/23
28	-	NOTE IN ORDER TO AVOID PHYSICAL INTERFERENCES, DO NOT INSTALL WBPWM COVER P/N 3G3240A18952, AS PER FOLLOWING STEP 25, ON A/C EQUIPPED WITH NOSE LANDING GEAR DOORS KIT P/N 3G5280F00111 OR P/N 4G5280F00111 OR P/N 4G5280F00112.	SARISFACTORY INSTALLED.	<i>SQ</i>		12/3/23
29	-	WITH REFERENCE TO FIGURE 45 VIEW A (VALID FOR ALL A/C EXCEPT SASEMAR CONFIGURATION AND ENHANCED SAR) AND FIGURE 47 VIEW A1 (VALID ONLY FOR SASEMAR CONFIGURATION AND ENHANCED SAR) INSTALL WBPWM COVER P/N 3G3240A18952 USING THE FASTENING HARDWARE PREVIOUSLY INSTALLED. WITH REFERENCE FIGURES 54 THRU 60 PERFORM THE INSTALLATION OF W/B CABLE ASSEMBLY IN THE FOLLOWING WAY: 29.1 WITH REFERENCE TO FIGURE 56, AT LOCATION 1 IN THE NOSE LANDING GEAR BAY, INSTALL CLAMP P/N AW001CB07H BY MEANS OF THE FASTENING HARDWARE DETAILED IN THE FIGURE. 29.2 WITH REFERENCE TO FIGURE 56, AT LOCATION 2 IN THE NOSE LANDING GEAR BAY, BOND ONE SUPPORT A388A3E08C75 USING ADHESIVE EA9309NA. INSTALL CLAMP P/N AW001CB07H BY MEANS OF THE FASTENING HARDWARE DETAILED IN THE FIGURE.	SATISFACTORY INSTALLED	<i>M</i>		17/2/23
			SATISFACTORY BONDED AND INSTALLED	<i>M</i>		17/2/23

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		29.3 WITH REFERENCE TO FIGURE 56, AT LOCATION 3 IN THE NOSE LANDING GEAR BAY, BOND ONE SUPPORT A388A3E24C USING ADHESIVE EA9309NA. INSTALL BRACKET P/N MS9592-058 AND CLAMP P/N AW001CB03H BY MEANS OF THE FASTENING HARDWARE DETAILED IN THE FIGURE.	SATISFACTORY BONDED AND INSTALLED	<i>M</i>	<i>M</i> 	17/12/23
		29.4 WITH REFERENCE TO FIGURE 57, ON THE LH SIDE OF BULKHEAD AT STA 1500, INSTALL ONE CIRCUIT BREAKER A619A15 IN THE EXISTING CIRCUIT BREAKER SUPPORT AND TWO NIPPLES A584A02. INSTALL THE DECAL ED300CB316 NEAR THE CIRCUIT BREAKER.	SATISFACTORY INSTALLED	<i>P</i>	<i>ack</i> 	22/12/25
		29.5 WITH REFERENCE TO FIGURE 59 GAIN ACCESS TO THE NOSE RH SIDE AND INSTALL ONE RELAY M83536/2-028M ADJACENT TO RELAY K54, IN THE EXISTING MOUNTING TRACK. INSTALL THE DECAL ED300K157 NEAR THE RELAY.	SATISFACTORY ACCESS GRANTED INSTALLED	<i>P</i>	<i>ack</i> 	2/13/25
30		29.6 WITH REFERENCE TO FIGURES 54 THROUGH 60 LAY DOWN WHEEL BRAKE CABLE ASSEMBLIES A1A309, A1A310, A1B6, A1B317 AND B1B374 IN THE NOSE L/G BAY, IN NOSE AREA AND INTERSEAT CONSOLE AREA, FOLLOWING THE EXISTING ROUTES. <u>NOTE</u> THE USE OF NOMEX SLEEVE P/N A582A05 TO PROTECT THE CABLE ASSEMBLIES IS ALLOWED.	SATISFACTORY LAYED	<i>P</i>	<i>ack</i> 	2/13/25

PARTS / MATERIAL USED / COMPONENT CHANGE RECORD HAVE BEEN RAISED AND ATTACHED.

CALIBRATED / SPECIAL TOOLS RECORD SHEET HAVE BEEN RAISED AND ATTACHED.

* APPROVAL HOLDER HAVE VERIFIED THAT ALL TOOLS, EQUIPMENT AND OTHER EXTRANEOUS PART OF MATERIALS ARE CLEARED AND ALL TASKS OR INSPECTIONS HAVE BEEN CARRIED OUT TO THE REQUIRED STANDARD. TASK HAS BEEN PERFORMED I.A.W MAINTENANCE MANUAL SPECIFIED IN WORKPACK INDEX LM/QA/GEN/01.

NO	SOURCE	TASK / REFERENCE	REMARKS	MECHANIC SIGN	* AH SIGN & STAMP	DATE
31	-	WITH REFERENCE TO FIGURE 40 WIRING DIAGRAM PERFORM ALL THE RELEVANT ELECTRICAL CONNECTIONS IN THE NOSE AND COCKPIT AREAS. USE ELECTRICAL CONTACT P/N A523A-A08 FOR PIN E OF TB154 AND N°3 ELECTRICAL CONTACTS P/N A523A-A01 FOR PINS A AND T OF CR142 AND PIN K OF TB150-1.	NATURALLY PERFORMED	<i>[Signature]</i>	<i>[Signature]</i> L06 LM	21/5/23
32	-	WITH REFERENCE TO FIGURE 40 WIRING DIAGRAM PERFORM ALL THE RELEVANT ELECTRICAL CONNECTIONS IN THE CABIN AREAS. FOR THE NOSE WHEEL BAY J150 CONNECTOR WAS ALREADY REMOVED AT STEP 9.	SATISFACTORILY PERFORMED	<i>[Signature]</i>	<i>[Signature]</i> L06 LM	22/2/23
33	-	PERFORM A PIN-TO-PIN CONTINUITY CHECK OF ALL THE ELECTRICAL CONNECTIONS CARRIED OUT AT PREVIOUS STEPS 26 AND 27.	WIRING PERFORMED	<i>[Signature]</i>	<i>[Signature]</i> L06 LM	21/5/23
34	-	IN ACCORDANCE WITH AMP DM 39-B-12-30-05-00A-218A-K FILL WITH HYDRAULIC FLUID THE WHEEL BRAKE PARKING AND EMERGENCY MODULE SYSTEM.	SATISFACTORILY FILLED UP	<i>[Signature]</i>	<i>[Signature]</i> L12 LM	23/2/23
35	-	IN ACCORDANCE WITH AMP DM 39-B-12-30-05-00A-214A-K FILL WITH NITROGEN THE ACCUMULATOR OF THE WHEEL BRAKE PARKING AND EMERGENCY MODULE.	SATISFACTORILY FILLED UP	<i>[Signature]</i>	<i>[Signature]</i> L12 LM	23/2/23
36	-	WITH REFERENCE TO AMP DM 39-A-07-11-00-00A-028A-A, LOWER THE HELICOPTER ON THE GROUND AND REMOVE JACKS.	SATISFACTORILY COMPLETED	<i>[Signature]</i>	<i>[Signature]</i> L06 LM	23/2/23
36	-	IN ACCORDANCE WITH ANNEX B MAKE SURE THAT WBPEM INSTALLATION IS COMPLIANT WITH ELECTRICAL BONDING REQUIREMENTS.	WBPPEM COMPLETED	<i>[Signature]</i>	<i>[Signature]</i> L06 LM	21/5/23

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NO	SOURCE	TASK / REFERENCE	REMARKS	MECHANIC SIGN	* AH SIGN & STAMP	DATE
37	-	IN ACCORDANCE WITH ANNEX C PERFORM THE FUNCTIONAL CHECK OF THE WHEEL BRAKE ELECTRICAL SYSTEM.	SATISFACTORY PERFORMANCE	<i>[Signature]</i>	<i>[Signature]</i> L09 LMSB	10/3/23
38	-	IN ACCORDANCE WITH AMP DM 39-B-32-42-00-00A-340A-K, PERFORM THE FUNCTIONAL CHECK OF THE WHEEL BRAKE SYSTEM.	SATISFACTORY PERFORMANCE	<i>[Signature]</i>	<i>[Signature]</i> L05 LMSB	13/3/23
39	-	IN ACCORDANCE WITH AMP DM 39-B-32-42-00-00A-320A-K, PERFORM THE OPERATIONAL CHECK OF THE WHEEL BRAKE SYSTEM.	SATISFACTORY PERFORMANCE	<i>[Signature]</i>	<i>[Signature]</i> L05 LMSB	13/3/23
40	-	IN ACCORDANCE WITH WEIGHT AND BALANCE CHANGES, UPDATE THE CHART A (SEE ROTORCRAFT FLIGHT MANUAL, PART II, SECTION 6).	CANNOT UPDATE AS APPROXIMATE REFERENCE TO WEIGHTS/FAH/6003-10 FOR AIRCRAFT WEIGHTS.	<i>[Signature]</i>	<i>[Signature]</i> L05 LMSB	10/3/23
41	-	RETURN THE HELICOPTER TO FLIGHT CONFIGURATION AND RECORD FOR COMPLIANCE WITH PART III OF THIS SERVICE BULLETIN ON THE HELICOPTER LOGBOOK.	SATISFACTORY PERFORMANCE FOR CANNOT RECORD AS REQUESTED.	<i>[Signature]</i>	<i>[Signature]</i> L05 LMSB	12/3/23
42	-	SEND THE ATTACHED COMPLIANCE FORM TO THE FOLLOWING MAIL BOX: CSE.AW139.AW@LEONARDOCOMPANY.COM AS AN ALTERNATIVE, GAIN ACCESS TO MY COMMUNICATIONS SECTION ON LEONARDO WEBPORTAL AND COMPILE THE "SERVICE BULLETIN APPLICATION COMMUNICATION".	APPD TO TRABE NOTE AND SEND AS APPLICABLE.	<i>[Signature]</i>	<i>[Signature]</i> L05 LMSB	10/3/23

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CALIBRATED / SPECIAL TOOLS RECORD SHEET HAVE BEEN RAISED AND ATTACHED.

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SERVICE BULLETIN**N° 139-137****DATE:** November 14, 2008**REV. :** C - October 17, 2019

TITLE**ATA 32 - INSTALLATION OF KIT POWERED PARKING BRAKE MODULE****REVISION LOG**

The Revision C of this Service Bulletin cancels and supersedes all the previous issues. Helicopters that have complied with previous issue of this Service Bulletin do not need any additional action.

Revision C is issued to:

- Update the Service Bulletin to the latest standard;
- Replace P/N 3G9A11B00601 with P/N 3G9A11B00601A2R of the wheel brake cable assy (A1B6);
- Replace P/N 3G9A11B00611 with P/N 3G9A11B00611A2R of the wheel brake cable assy (A1B6).



LEONARDO MALAYSIA SDN. BHD.

PARTS / MATERIAL USED / COMPONENT CHANGE RECORD

WORKSHEET / WORKCARD NUMBER :

SERVICE ORDER NUMBER :

9 0 0 2 5 5 6 6

AIRFRAME HOURS :

AIRCRAFT REGISTRATION :

9M-BGH

AIRCRAFT SERIAL NUMBER :

31763

LANDINGS :

PARTS / MATERIAL USED / COMPONENT CHANGE RECORD (IF APPLICABLE)

DESCRIPTION	PART NO.	REMOVED		INSTALLED		RELEASE DOCUMENT
		SERIAL NO.	TSN/TSO	SERIAL NO.	TSN/TSO	
WHEEL BRAKE PARK EMERGENCY MODULE	3G9A01A30901A10R	N/A	N/A	N/A	N/A	AG4-2022-1713-13279
DECAL	ED300CB316	N/A	N/A	N/A	N/A	AG4-2022-1720-17127
PACKING, PREFORMED	AS3208-04	N/A	N/A	N/A	N/A	0070677022 / 04.12.2016
PACKING, PREFORMED	AS3208-05	N/A	N/A	N/A	N/A	1720-2014-51609
WASHER, FLAT	NAS1149C0363R	N/A	N/A	N/A	N/A	0071097728/20.04.2021
WASHER, FLAT	NAS114900332J	N/A	N/A	N/A	N/A	0070752608/26.09.2017
WASHER, FLAT	NAS1149C0332R	N/A	N/A	N/A	N/A	0071184781/09.05.2022
WASHER, FLAT	NAS114900332K	N/A	N/A	N/A	N/A	0070624349/08.06.2016
WASHER, FLAT	NAS114900332J	N/A	N/A	N/A	N/A	0070646354/15.08.2016
WASHER, FLAT	NAS114900332K	N/A	N/A	N/A	N/A	0070888385/20.01.2017
BOLT, MACHINE	AN3C3A	N/A	N/A	N/A	N/A	0071091984/22.03.2021
BOLT, MACHINE	AN3C11A	N/A	N/A	N/A	N/A	0071056766/12.10.2020
WASHER, FLAT	NAS1149C0332R	N/A	N/A	N/A	N/A	0071184781/09.05.2022
PACKING, PREFORMED	AS3208-05	N/A	N/A	N/A	N/A	0070975359/11.10.2019
NUT SELF-LOCKING, EXTENDED WASHER, HEXAGON	MS21042L3	N/A	N/A	N/A	N/A	0071156473/17.01.2022
NUT SELF-LOCKING, PLATE	MS21075L3N	N/A	N/A	N/A	N/A	0070989189/27.11.2019
WASHER, FLAT	NAS1149C0363R	N/A	N/A	N/A	N/A	0071097728/20.04.2021
BOLT, MACHINE	AN3-5A	N/A	N/A	N/A	N/A	0070677022/04.12.2016
PACKING, PREFORMED	AS3208-04	N/A	N/A	N/A	N/A	0070677022/04.12.2016
W/B PACKING EMERGENCY MODULE	M039-014001-007	N/A	N/A	MCR00293	00:00/NEW	2020/MC 3768/TTO
PIN-RIVET, THREADED	HL20PB-5-3	N/A	N/A	N/A	N/A	1720-2020-31515
EDGING, SELF ADHESIVE	A23CA03AB	N/A	N/A	N/A	N/A	AG4-2022-1720-10204
SELF-WRAP (BRAID), NOMEX, GREEN	ENG049-006-08-5	N/A	N/A	N/A	N/A	0071203833/28.07.2022
NIPPLE, ELECTRICAL TERMINAL	A584A02	N/A	N/A	N/A	N/A	0071063547/07.11.2020
COUPLING, TUBE	NAS424-4D	N/A	N/A	N/A	N/A	0070976008/17.10.2019
PIPE ASSY	3G3240A14731	N/A	N/A	N/A	N/A	AG4-2011-1720-36196
WIRE CONTROL ASSY	M039-014060-045	N/A	N/A	1B3	N/A	2020/MC 443/TTO



LEONARDO MALAYSIA SDN. BHD.

PARTS / MATERIAL USED / COMPONENT CHANGE RECORD

WORKSHEET / WORKCARD NUMBER :

SERVICE ORDER NUMBER :

9 0 0 2 5

5 6 6

AIRFRAME HOURS :

AIRCRAFT REGISTRATION :

9M-BGH

AIRCRAFT SERIAL NUMBER :

31763

LANDINGS :

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DESCRIPTION	PART NO.	REMOVED		INSTALLED		RELEASE DOCUMENT
		SERIAL NO.	TSN/TSO	SERIAL NO.	TSN/TSO	
PIPE ASSY (WHEEL BRAKE)	393240A17431	N/A	N/A	N/A	N/A	AG4-2019-1713-14757
SUPPORT ASSY	395315A27931	N/A	N/A	N/A	N/A	AG4-2010-1713-11241
NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON	MS21043-3	N/A	N/A	N/A	N/A	0071206816/11.08.2022
PLUG, BUTTON	AW010FP103	N/A	N/A	N/A	N/A	AG4-2022-1720-15690
PLUG, BUTTON	AW010FP103	N/A	N/A	N/A	N/A	AG4-2019-1720-18562
SCREW, MACHINE	NAS1802-3-8	N/A	N/A	N/A	N/A	0071209250/22.08.2022
SCREW	NAS1802-3-12	N/A	N/A	N/A	N/A	0071212111/03.09.2022
CLAMP	AW001CB03H	N/A	N/A	N/A	N/A	AG4-2021-1720-14396
SPACER, SLEEVE	NAS43DD3-8N	N/A	N/A	N/A	N/A	0071046367/17.08.2020
SPACER, SLEEVE	NAS43DD3-31N	N/A	N/A	N/A	N/A	0071204523/01.08.2022
SPACER, SLEEVE	NAS43DD3-16N	N/A	N/A	N/A	N/A	1720-2011-18129
SCREW, SELF-LOCKING	NAS1190E3P5AK	N/A	N/A	N/A	N/A	1720-2013-15215
SCREW, SELF-LOCKING	NAS1190E3P5AK	N/A	N/A	N/A	N/A	0071192866/10.06.2022
PRESSURE SWITCH	393240V00831	N/A	N/A	7044	N/A	E073*567
ELECTRICAL WHEEL BRAKE CIA CB	399B01B37401	N/A	N/A	N/A	N/A	AG4-2014-1713-13805
CIRCUIT BREAKER	A619A15	N/A	N/A	N/A	N/A	AG4-2018-1720-18910
PLUG, BUTTON	AW010FP220	N/A	N/A	N/A	N/A	AG4-2016-1720-20265
PLUG, BUTTON	AW010FP221	N/A	N/A	N/A	N/A	AG4-2022-1720-13538
DECAL	ED300K157	N/A	N/A	N/A	N/A	AG4-2021-1720-11849
CLAMP	AW001CB07H	N/A	N/A	N/A	N/A	AG4-2022-1720-14701
RIVET, SOLID	MS20426A03-4	N/A	N/A	N/A	N/A	0071056166/07.10.2020
CLAMP, LOOP	AS2199WDG13	N/A	N/A	N/A	N/A	007119558/21.06.2022
STANDOFF, ADHESIVE BONDED	A388A3E08C75	N/A	N/A	N/A	N/A	AG4-2021-1720-17670
SPACER, SLEEVE	NAS43DD3-24N	N/A	N/A	N/A	N/A	1720-2011-10216
STUD, ADH BONDED	A366A3E16C75	N/A	N/A	N/A	N/A	AG4-2022-1720-10217
TUBULAR BRAID, NOMEX, GREEN	EN6049-003-04-5	N/A	N/A	N/A	N/A	0071204512/01.08.2022
PIPE ASSY (WHEEL BRAKE)	393240A17931	N/A	N/A	N/A	N/A	AG4-2018-1713-11747



PARTS / MATERIAL USED / COMPONENT CHANGE RECORD

WORKSHEET / WORKCARD NUMBER :

SERVICE ORDER NUMBER :

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AIRFRAME HOURS :

AIRCRAFT REGISTRATION :

9M-BGH

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LANDINGS :

PARTS / MATERIAL USED / COMPONENT CHANGE RECORD (IF APPLICABLE)

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		SERIAL NO.	TSN/TSO	SERIAL NO.	TSN/TSO	
PIPE (WHEEL BRAKE)	363240A18051	N/A	N/A	N/A	N/A	AG4-2018-1713-13833
PIPE ASSY (WHEEL BRAKE)	363240A17331	N/A	N/A	N/A	N/A	AG4-2019-1713-14771
SUPPORT ASSY	365315A27831	N/A	N/A	N/A	N/A	AG4-2020-1713-11051
TAPE, IDENTIFICATION	999-0701-01-7	N/A	N/A	N/A	N/A	AG4-2018-1720-14132
PIPE ASSY (WHEEL BRAKE)	363240A18131	N/A	N/A	N/A	N/A	AG4-2018-1713-13796
PIPE ASSY (WHEEL BRAKE)	363240A18631	N/A	N/A	N/A	N/A	AG4-2019-1713-11125
CLAMP, BLOCK PEI	A295A3001A	N/A	N/A	N/A	N/A	AG4-2020-1720-13125
PIPE ASSY (WHEEL BRAKE)	363240A17631	N/A	N/A	N/A	N/A	AG4-2019-1713-12341
PIPE ASSY (WHEEL BRAKE)	363240A18331	N/A	N/A	N/A	N/A	AG4-2019-1713-10560
ELECTRICAL WHEEL BRAKE CIA CA	369A01A31001	N/A	N/A	N/A	N/A	AG4-2019-1713-13540
ELECTRICAL WHEEL BRAKE CIA CA	369A01B31701	N/A	N/A	N/A	N/A	AG4-2018-1713-14473
PIPE ASSY (WHEEL BRAKE)	363240A17731	N/A	N/A	N/A	N/A	AG4-2018-1713-12421
PIPE ASSY (WHEEL BRAKE)	363240A18531	N/A	N/A	N/A	N/A	AG4-2019-1713-12337
PIPE ASSY (WHEEL BRAKE)	363240A17431	N/A	N/A	N/A	N/A	AG4-2019-1713-12344
PIPE ASSY (WHEEL BRAKE)	363240A18231	N/A	N/A	N/A	N/A	AG4-2019-1713-11248
PIPE ASSY (WHEEL BRAKE)	363240A18431	N/A	N/A	N/A	N/A	AG4-2019-1713-12836
INSERT, SCREW-THREAD	NAS1832L3-3M	N/A	N/A	N/A	N/A	1720-2011-36798
GROMMET, NON METALLIC	MS35489-12	N/A	N/A	N/A	N/A	0070950149/01-07-2019
DATA LABEL	361100A00251	N/A	N/A	N/A	N/A	AG4-2011-1720-36196
DATA LABEL	361100A00251	N/A	N/A	N/A	N/A	AG4-2022-1713-10432
BRACKET, ANGLE	MS9542-058	N/A	N/A	N/A	N/A	0070897235/14.12.2018
BRACKET, ANGLE	MS9592-058	N/A	N/A	N/A	N/A	0070897235/14.12.2018
COLLAR, PIN-RIVET	H186PB5	N/A	N/A	N/A	N/A	1720-2021-13658
COUPLING HALF, QUICK DISCONNECT	A475A04	N/A	N/A	1280 N/A	N/A	AG4-2018-1720-10389
COUPLING HALF, QUICK DISCONNECT	A475A04	N/A	N/A	1281	N/A	AG4-2018-1720-10389
COUPLING HALF, QUICK DISCONNECT	A475A04	N/A	N/A	1600	N/A	AG4-2018-1720-18722
COUPLING HALF, QUICK DISCONNECT	A475A04	N/A	N/A	1902 N/A	N/A	AG4-2019-1720-14997

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WORKSHEET / WORKCARD NUMBER :

SERVICE ORDER NUMBER :

9 0 0 2 5

5 6 6

AIRFRAME HOURS :

AIRCRAFT REGISTRATION :

9M-BGH

AIRCRAFT SERIAL NUMBER :

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LANDINGS :

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		SERIAL NO.	TSN/TSO	SERIAL NO.	TSN/TSO	
GAGE, PRESSURE, DIAL INDICATING	MS24478-2	N/A	N/A	N/A	N/A	1720-2011-18504
CAP, PROTECTIVE, PRESSURE	A477A04	N/A	N/A	1274	N/A	AG4-2022-1720-12935
BRACKET, ANGLE	A387A1190A	N/A	N/A	N/A	N/A	AG4-2011-1720-10477
RIVET, SOLID	MS20426A04-4	N/A	N/A	N/A	N/A	0070620694/24.05.2016
UNION, FLARELESS TUBE	MS21902W4	N/A	N/A	N/A	N/A	0070976009/17.10.2019
CAP, PROTECTIVE PRESSURE	A354A04	N/A	N/A	1576	N/A	1720-2012-23976
COUPLING HALF, QUICK DISCONNECT	A476A04	N/A	N/A	1657	N/A	AG4-2018-1720-10007
PIN, RIVET, THREADED	HL20PB-S-7	N/A	N/A	N/A	N/A	1720-2022-21110
STUD, ADH BONDED	A366A3E08C	N/A	N/A	N/A	N/A	AG4-2021-1720-15851
STUD, ADH BONDED	A366A3E08C	N/A	N/A	N/A	N/A	AG4-2021-1720-15851
TEE, PIPE, PERMANENT	A282A04	N/A	N/A	N/A	N/A	1720-2012-29091
UNION, PIPE, PERMANENT	A281A04	N/A	N/A	N/A	N/A	1720-2011-36663
PLUG, TUBE FITTING, THREADED	MS21914-40	N/A	N/A	N/A	N/A	1720-2011-19002
REDUCER, BOSS	MS2191605-4	N/A	N/A	N/A	N/A	1720-2012-10973
SCREW, MACHINE	NAS1802-3-9	N/A	N/A	N/A	N/A	0071192577/10.06.2022
INSERT, SCREW THREADED	NAS1836-3-13	N/A	N/A	N/A	N/A	0071124975/02.09.2021
STANDOFF, ADHESIVE BONDED	A388A3E08C	N/A	N/A	N/A	N/A	AG4-2021-1720-16231
SCREW, SELF-LOCKING	NAS1190E3 PLAK	N/A	N/A	N/A	N/A	007182374/29.04.2022
CONTACT, ELECTRIC	A523A-A01	N/A	N/A	N/A	N/A	AG4-2020-1720-16630
CONTACT, ELECTRIC	A523A-A08	N/A	N/A	N/A	N/A	AG4-2019-1720-13260
BOLT, MACHINE	AN3C5A	N/A	N/A	N/A	N/A	0070677022/04.12.2016
BOLT, MACHINE	AN3C3A	N/A	N/A	N/A	N/A	0070728680/21.06.2017
ELECTRICAL WHEEL BRAKE (1/4 CH)	3RAA11800611	N/A	N/A	N/A	N/A	AG4-2019-1715-12106
PLUG BUTTUN	AW010FP17	N/A	N/A	N/A	N/A	AG4-2022-1720-14292
COVER	3G3240A189J2	N/A	N/A	N/A	N/A	AG4-2019-1715-12767
RELAY	M8353612-028M	N/A	N/A	N/A	N/A	1720-2011-18612
RIVET, SOLID	MS20470A04-4	N/A	N/A	N/A	N/A	0070995208/15.10.2019

