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AIRBUS

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FRANCE

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MANDATORY MANDATORY MANDATORY

ATA SYSTEM: 92

**TITLE: ELECTRIC AND ELECTRONIC COMMON INSTALLATION - INTRODUCE
IMPROVED 1M HARNESS ROUTING TO THE LOW PRESSURE SHUT OFF
VALVE P&W**

MODIFICATION No.:

168875J4769

ATA SYSTEM: 92

TITLE: ELECTRIC AND ELECTRONIC COMMON INSTALLATION - INTRODUCE IMPROVED 1M HARNESS ROUTING TO THE LOW PRESSURE SHUT OFF VALVE P&W
SUMMARY

This summary is for information only and is not approved for modification of the aircraft.

A. MODIFICATIONS

MODIFICATION CLASSIFICATION	
MAJOR	168875J4769
MINOR	None

NOTE: As per EASA IR 21, a minor change is one that has no appreciable effect on the mass, balance, structural strength, reliability, operational characteristics affecting the airworthiness of the product. All other changes are major changes.

B. REASON
(1) History

The Low Pressure Shut Off Valve (LPSOV) prevents fuel flow from the wing tanks to the power plant in the event of an engine failure. This valve has two independent electrical command signals from routes 1M and 2M respectively. It has been identified that, in the event of an Uncontained Engine Rotor Failure (UERF) event, it is possible to sever the 2M shut command wire and the 1M shut command current return, thereby rendering the LPSOV inoperative.

(2) Objective/Action

This Service Bulletin modify the 1M route on the right hand wing replacing the wire 2824-4537 (routed from the LPSOV 10QG to the connector 4016VC A) by the wire 2824-4711 (routed from the LPSOV 10QG to the grounding point 4088VN). Due to the rotating direction of the engine, the left hand wing is not affected.

(3) Advantages

In case of an engine failure the LPSOV will be operative.

(4) Operational/Maintenance Consequences

None

C. GENERAL EVALUATION

EVALUATION TABLE			
COMPLIANCE	MANDATORY	COST SAVING	NO
A/C OPERATION AFFECTED	NO	VENDOR SB	NO
CANCELS INSPECTION SB	NO	ETOPS AFFECTED	NO
PAX COMFORT AFFECTED	NO	POTENTIAL AD	YES
RELIABILITY AFFECTED	NO	STRUCTURAL LIFE EXTENSION	NO
LIFE LIMIT	NO	LINE MAINTENANCE AFFECTED	NO
VALIDATION ON AIRCRAFT	YES	BOOKLET AVAILABLE	YES

NOTE: Service Bulletin must be accomplished.

NOTE: This Service Bulletin has been accomplished at approved draft status of the original issue on aircraft with Manufacturer Serial Number (MSN) 06801 to validate its content. This document has not been dispatched to the operators.

NOTE: AIRBUS provides a booklet to help with a better understanding of the work steps, including photographs taken during the validation of this Service Bulletin. This booklet is available on AirbusWorld - Maintenance and Engineering - AirN@v engineering (in the concerned SB file).

D. MAINTENANCE CONFIGURATION

No specific aircraft maintenance configuration required.

E. MATERIAL PRICE INFORMATION

(1) Modification of the Route 1M in the RH Wing

- (a) Task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	QTY PER A/C	PRICE PER A/C	MAIN PARTS
Part kit 921144B01R03	1	2650.00 USD	Bundle, clamps, fasteners, harpoons, strips, supports

F. APPLICABILITY

This Service Bulletin is applicable to this (these) operator(s):

36V ACI AEE AMU ANA ANZ CCA CEB CHB CSC CSN CSZ DKH DLH GCR GOW HAL HKE HVN HXA IGO JAT JBU KZR LAN MEA NKS PAL QDA SBI SWR TAM TGW THY TSC VIV VJC VLG VOI WAZ WUK WZZ

G. CONCURRENT REQUIREMENTS

None

H. NATURE OF THE WORK

(1) Modification of the Route 1M in the RH Wing

- (a) Task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

AIRCRAFT	YES
EQUIPMENT	NO

I. MANPOWER

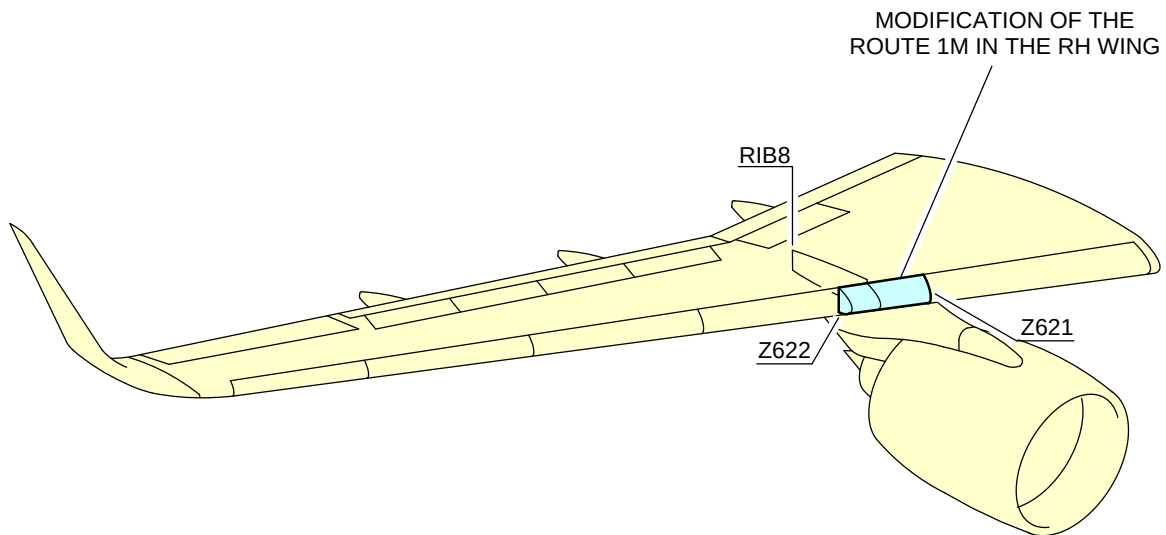
(1) Modification of the Route 1M in the RH Wing

- (a) Task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

MANPOWER	
TOTAL MAN-HOURS	12.25 h
ELAPSED TIME (HOURS)	12.25 h

J. GENERAL OVERVIEW

CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-028MM-A-001-01

ATA SYSTEM: 92

TITLE: ELECTRIC AND ELECTRONIC COMMON INSTALLATION - INTRODUCE IMPROVED 1M HARNESS ROUTING TO THE LOW PRESSURE SHUT OFF VALVE P&W**1. PLANNING INFORMATION****A. APPLICABILITY**

NOTE: This modification is applicable by Service Bulletin only.

NOTE: This Service Bulletin is only applicable to A320 NEO family aircraft equipped with P&W engines.

NOTE: This Service Bulletin is only applicable to aircraft on which MOD No. 167036J4702 (ELEC & ELECTRONIC COMMON INSTALLATION - GENERAL - INTRODUCE IMPROVED 1M AND 2M HARNESS ROUTING TO THE LOW PRESSURE SHUT OFF VALVE) hasn't been embodied in production.

(1) Models

ON A/C 06286, 06720, 06744, 06772, 06799, 06801, 06819, 06829, 06833, 06849, 06860, 06864, 06868, 06904, 06907, 06914, 06920, 06946, 06952, 06967, 06975, 07001, 07011, 07033, 07047, 07051, 07053, 07060, 07074, 07078, 07083, 07094, 07102, 07103, 07107, 07124, 07126, 07129, 07172, 07192, 07205, 07209, 07252, 07269, 07273, 07329-07331, 07333, 07334, 07343, 07391, 07396, 07401, 07449, 07470, 07477, 07483, 07495, 07504, 07507, 07510, 07512, 07517, 07533, 07540, 07547, 07553, 07554, 07563, 07571, 07577, 07579, 07588, 07594, 07598, 07618, 07626, 07629, 07648, 07671, 07688, 07710, 07721, 07731, 07735, 07737, 07744, 07751, 07753, 07757, 07788, 07795, 07804, 07811-07813, 07842, 07844, 07848, 07849, 07851, 07858, 07859, 07862, 07864, 07871, 07892, 07899, 07912, 07914, 07931, 07961, 08000, 08038, 08077, 08098, 08101, 08121, 08140, 08142, 08146, 08152, 08158, 08166, 08168, 08172, 08175, 08181, 08196, 08206, 08208, 08209, 08218, 08228, 08249, 08253, 08255, 08259, 08273, 08275, 08284, 08310, 08335, 08345, 08351, 08364, 08366, 08367, 08371, 08373, 08382, 08383, 08387, 08392, 08397, 08413, 08414, 08416, 08417, 08426, 08430, 08432, 08440, 08441, 08445, 08451, 08453, 08455, 08456, 08458-08460, 08464, 08465, 08467, 08468, 08472, 08474, 08476, 08478, 08482, 08483, 08490-08492, 08498, 08503, 08507, 08510-08512, 08527, 08528, 08540, 08541, 08546, 08554, 08556, 08558, 08559, 08563, 08565, 08570, 08576, 08583, 08584, 08586, 08588, 08594, 08601, 08607, 08613, 08618, 08621, 08622, 08624, 08627, 08628, 08630, 08633, 08643, 08645, 08648, 08650, 08654, 08656, 08658, 08661, 08665, 08668, 08674, 08683, 08688, 08702, 08708, 08715, 08720, 08723, 08725, 08728, 08736, 08737, 08741, 08743, 08752, 08757, 08771, 08775, 08777, 08782, 08785, 08787, 08789, 08793, 08803, 08818, 08820, 08832, 08833, 08836, 08843, 08844, 08846, 08848, 08850, 08852, 08860, 08864, 08865, 08867, 08870, 08873, 08877, 08885, 08890, 08894, 08896, 08899, 08901, 08905, 08922, 08927-08929, 08932, 08935, 08945, 08948, 08959, 08961, 08967, 08969, 08978, 08981, 08987, 08988, 08990, 09001, 09013, 09015, 09019, 09021, 09029, 09031, 09039, 09045, 09050, 09053, 09061, 09071, 09072, 09075, 09078, 09079, 09084, 09085, 09091, 09093, 09094, 09096, 09097, 09107, 09113, 09118, 09140, 09141, 09144, 09148, 09152, 09155, 09166, 09167, 09175, 09179, 09181, 09184, 09189, 09192-09194, 09200-09202, 09206, 09207, 09212, 09213, 09215, 09216, 09218, 09220, 09229, 09244, 09246, 09251-09253, 09259, 09264, 09272, 09273, 09283, 09287, 09290, 09291, 09309, 09328, 09332, 09339, 09341-09343, 09346, 09351, 09353, 09356, 09358, 09369, 09375, 09379, 09385, 09387, 09388, 09390, 09391, 09395, 09400, 09402, 09405, 09407, 09410, 09412, 09414, 09416, 09420, 09423, 09430, 09435, 09437, 09442, 09447, 09450, 09453, 09459, 09461, 09463, 09467, 09469, 09471, 09474-09476, 09479, 09482, 09483, 09486, 09489, 09493, 09494, 09497, 09500, 09502, 09506, 09508, 09511, 09514, 09523, 09529, 09530, 09542, 09546, 09548, 09555, 09557-09559, 09562, 09563, 09569, 09570, 09573, 09574,

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ON A/C 08495, 08529, 08596, 08635, 09190, 09324

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ON A/C 09509, 10347

321-272NX

CONF ALL

(2) Applicability by MSN

06286 06673 06720 06744 06772 06799 06801 06819 06829 06833 06849 06860
06864 06868 06904 06907 06914 06920 06946 06952 06967 06975 07001 07011
07033 07047 07051 07053 07060 07074 07078 07083 07094 07102 07103 07107
07124 07126 07129 07172 07192 07205 07209 07252 07269 07273 07329-07331
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07507 07510 07512 07517 07530 07533 07540 07544 07547 07548 07553 07554
07563 07567 07571 07577 07579 07588 07594 07598 07610 07618 07626 07629
07634 07648 07671 07688 07710 07721 07731 07735 07737 07744 07751 07753

07757 07788 07795 07804 07811-07813 07839 07842 07844 07848 07849 07851
07858 07859 07862 07864 07871 07881 07892 07895 07899 07912 07914 07917
07920 07931 07941 07959 07961 07968 07991 08000 08015 08038 08077 08087
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08257 08259 08264 08266 08273-08275 08277 08284 08289 08291 08302 08310
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08387 08389 08392 08397 08412-08414 08416 08417 08426 08430 08432 08436
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10773 10906

(3) MSN by configuration

MSN	CONFIGURATION
06286 06673 06720 06744 06772 06799 06801 06819 06829 06833 06849 06860 06864 06868 06904 06907 06914 06920 06946 06952 06967 06975 07001 07011 07033 07047 07051 07053 07060 07074 07078 07083 07094 07102 07103 07107 07124 07126 07129 07172 07192 07205 07209 07252 07269 07273 07329 07330 07331 07333 07334 07343 07391 07396 07401 07449 07470 07477 07483 07495 07504 07507 07510 07512 07517 07530 07533 07540 07544 07547 07548 07553 07554 07563 07567 07571 07577 07579 07588 07594 07598 07610 07618 07626 07629 07634 07648 07671 07688 07710 07721 07731 07735 07737 07744 07751 07753 07757 07788 07795 07804 07811 07812 07813 07839 07842 07844 07848 07849 07851 07858 07859 07862 07864 07871 07881 07892 07895 07899 07912 07914 07917 07920 07931 07941 07959 07961 07968 07991 08000 08015 08038 08077 08087 08088 08090 08092 08095 08098 08100 08101 08103 08112 08117 08121 08123 08129 08140 08142 08144 08146 08150 08152 08155 08157 08158 08166 08168 08172 08175 08181 08182 08186 08187 08196 08197 08199 08203 08206 08208 08209 08212 08217 08218 08224 08228 08229 08237 08242 08249 08253 08255 08257 08259 08264 08266 08273 08274 08275 08277 08284 08289 08291 08302 08310 08335 08341 08345 08349 08351 08364 08366 08367 08371 08372 08373 08382 08383 08387 08389 08392 08397 08412 08413 08414 08416 08417 08426 08430 08432 08436 08440 08441 08445 08446 08451 08453 08455 08456 08458 08459 08460 08461 08464 08465 08467 08468 08471 08472 08474 08476 08478 08480 08482 08483 08484 08490 08491 08492 08495 08496 08498 08501 08503 08507 08510 08511 08512 08515 08524 08527 08528 08529 08533 08540 08541 08542 08545 08546 08552 08554 08556 08557 08558 08559 08560 08562 08563 08565 08568 08570 08571 08573 08576 08578 08583 08584 08586 08587 08588 08589 08594 08596 08598 08601 08603 08607 08608 08610 08613 08617 08618 08619 08620 08621 08622 08624 08626 08627 08628 08629 08630 08633 08635 08643 08645 08648 08649 08650 08653 08654 08655 08656 08658 08660 08661 08665 08668 08669 08674 08678 08683 08688 08699 08702 08703 08706 08708 08710 08711 08712 08715 08720 08723 08725 08727 08728 08729 08732 08735 08736 08737 08740 08741 08743 08744 08747 08751 08752 08753 08755 08757 08761 08762 08764 08768 08769 08771 08775 08776 08777 08782 08783 08785 08787 08789 08790 08793 08794 08799 08803 08813 08814 08816 08818 08820 08823 08832 08833 08836 08837 08839 08843 08844 08846 08848 08849 08850 08852 08860 08864 08865 08867 08870 08872 08873 08876 08877 08878 08882 08885 08890 08893 08894 08896 08899 08901 08905 08906 08908 08919 08921 08922 08924 08927 08928 08929 08932 08935 08937 08941 08945 08948 08952 08953 08957 08958 08959 08961 08966 08967 08968 08969 08971 08978 08980 08981 08985 08987 08988 08989 08990 08992 08995 08997 09000 09001 09011 09013 09015 09016 09019 09021 09029 09031 09039 09042 09044 09045 09046 09050 09051 09053 09054 09059 09060 09061	001

MSN	CONFIGURATION
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09253 09259 09263 09264 09272 09273 09274 09276 09278	
09283 09285 09287 09290 09291 09294 09298 09299 09301	
09309 09315 09322 09324 09326 09328 09332 09333 09335	
09336 09339 09341 09342 09343 09345 09346 09347 09350	
09351 09353 09356 09358 09364 09368 09369 09375 09376	
09377 09379 09385 09387 09388 09390 09391 09395 09396	
09398 09400 09401 09402 09405 09407 09410 09412 09414	
09415 09416 09417 09419 09420 09423 09427 09429 09430	
09432 09435 09436 09437 09442 09443 09444 09445 09447	
09450 09452 09453 09458 09459 09461 09463 09467 09469	
09471 09474 09475 09476 09479 09482 09483 09486 09487	
09489 09492 09493 09494 09496 09497 09499 09500 09502	
09503 09506 09508 09509 09511 09514 09515 09523 09529	
09530 09542 09546 09547 09548 09553 09555 09557 09558	
09559 09562 09563 09564 09567 09568 09569 09570 09573	
09574 09575 09577 09578 09580 09581 09583 09586 09589	
09590 09591 09592 09593 09594 09596 09597 09598 10000	
10001 10005 10008 10010 10011 10014 10016 10021 10022	
10023 10024 10026 10027 10029 10032 10035 10042 10043	
10044 10046 10047 10049 10050 10052 10054 10056 10057	
10059 10062 10063 10066 10068 10069 10073 10076 10078	
10084 10090 10092 10093 10098 10099 10101 10103 10107	
10108 10112 10113 10115 10116 10117 10120 10125 10127	
10128 10129 10130 10138 10139 10143 10147 10148 10160	
10164 10165 10174 10175 10176 10189 10192 10194 10200	
10202 10207 10208 10209 10210 10212 10215 10219 10221	
10224 10229 10232 10241 10242 10247 10248 10249 10254	
10257 10268 10273 10275 10276 10278 10281 10282 10283	
10286 10287 10292 10295 10301 10303 10316 10322 10325	
10326 10330 10333 10335 10347 10349 10360 10363 10367	
10368 10371 10391 10399 10414 10427 10455 10463 10470	
10477 10494 10504 10505 10517 10521 10531 10537 10538	
10549 10561 10571 10572 10578 10587 10773 10906	

(4) Configuration definition
Configuration 001

CONF 001 is applicable for all the aircraft affected by this Service Bulletin as a standard configuration.

CONF 001 retrofits following modifications: 168875J4769.

B. CONCURRENT REQUIREMENTS

None

C. REASON

(1) History

The Low Pressure Shut Off Valve (LPSOV) prevents fuel flow from the wing tanks to the power plant in the event of an engine failure. This valve has two independent electrical command signals from routes 1M and 2M respectively. It has been identified that, in the event of an Uncontained Engine Rotor Failure (UERF) event, it is possible to sever the 2M shut command wire and the 1M shut command current return, thereby rendering the LPSOV inoperative.

(2) Objective/Action

This Service Bulletin modify the 1M route on the right hand wing replacing the wire 2824-4537 (routed from the LPSOV 10QG to the connector 4016VC A) by the wire 2824-4711 (routed from the LPSOV 10QG to the grounding point 4088VN). Due to the rotating direction of the engine, the left hand wing is not affected.

(3) Advantages

In case of an engine failure the LPSOV will be operative.

(4) Operational/Maintenance Consequences

None

D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to:

(1) Modification of the Route 1M in the RH Wing

- (a) Task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing
 - 1 Remove the Electrical Hardware in the RH Wing
 - 2 Modify the Route 1M in the RH Wing
 - 3 Install the Electrical Hardware in the RH Wing

E. COMPLIANCE**(1) Classification**

MANDATORY: Service Bulletin must be accomplished.

(2) Accomplishment Timescale

This Service Bulletin has been classified Mandatory. It is expected that an Airworthiness Directive (AD) published by the European Union Aviation Safety Agency (EASA) will be issued to confirm this classification. The accomplishment timescale, which has not yet been defined, will be given in the AD.

F. APPROVAL

The technical content of this document is approved under the authority of the Design Organisation Approval ref. EASA.21J.031.

If an aircraft listed in the applicability has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operator's circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts

and tools, drying times for paints, sealants, etc., and general administration work are also not included.

(1) Modification of the Route 1M in the RH Wing

- (a) Task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

PREPARATION		
Job Set-up	2.75 h	
PROCEDURE		
Remove the Electrical Hardware in the RH Wing	1.00 h	
Modify the Route 1M in the RH Wing	2.00 h	
Install the Electrical Hardware in the RH Wing	2.50 h	
PREPARATION FOR TEST		
Job Set-up	0.25 h	
TEST		
Test	1.00 h	
CLOSE-UP		
Close-up	2.75 h	
TOTAL MAN-HOURS	12.25 h	
ELAPSED TIME (HOURS)	12.25 h	

H. WEIGHT AND BALANCE

Not changed

I. ELECTRICAL LOAD DATA

Not changed

J. REFERENCES
(1) Modification of the Route 1M in the RH Wing

- (a) Task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

AIRCRAFT MAINTENANCE MANUAL (AMM)	
06-20-00, Page Block 001	06-41-57, Page Block 001
Task 12-34-24-869-002	Task 20-16-00-912-001
Task 20-21-15-912-001	Task 20-28-00-912-802
24-50-00	Task 28-24-51-000-001
	Task 28-24-51-400-001
Task 30-11-42-000-001	Task 57-41-37-000-003
Task 30-11-42-400-001	Task 57-41-37-000-004
	Task 57-41-37-000-009
	Task 57-41-37-400-002
	Task 57-41-37-400-003
	Task 57-41-37-400-009

ELECTRICAL STANDARD PRACTICES MANUAL (ESPM)	
20-33-00	20-33-30
20-33-33	20-33-42
20-33-43	20-33-44
20-43-11	20-44-10
20-48-11	20-48-21
20-48-24	20-48-41
20-51-20	20-52-10
20-52-21	20-54-50
20-55-00	20-56-13
20-56-51	20-56-57
STRUCTURAL REPAIR MANUAL (SRM)	
51-42-00	51-43-00

STANDARDS MANUAL (SM)

K. PUBLICATION AFFECTED

AIRCRAFT WIRING MANUAL (AWM)

L. INDUSTRY SUPPORT INFORMATION

This Service Bulletin is the subject of an AIRBUS monitored retrofit campaign.

For the organization of this retrofit, you are kindly requested to contact AIRBUS retrofit management department: monitored.retrofit@airbus.com.

AIRBUS will share the costs of accomplishment of this Service Bulletin by providing the kits at no charge for orders placed within 84 months after the initial issue date of the Service Bulletin.

For the accomplishment of this Service Bulletin within 84 months after the initial issue date of the Service Bulletin, AIRBUS will credit the man-hours indicated in this Service Bulletin at the agreed in-house warranty labor rate. Claims for this allowance shall be received no later than 90 days after completion of the last affected aircraft of your fleet fulfilling above timeframe conditions.

2. MATERIAL INFORMATION
A. MATERIAL APPLICABILITY

Material for task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

MATERIAL	QTY	SEE NOTES
Referenced tools	See SB	
Referenced consumables	See SB	
Part kit 921144B01R03	1	
Referenced parts	See SB	

B. TOOLING

Referenced tools for task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

To accomplish this Service Bulletin it is necessary to use the tools listed in:

Ref. AMM Task 30-11-42-000-001

Ref. AMM Task 30-11-42-400-001

Ref. AMM Task 57-41-37-400-002

Ref. ESPM 20-52-21

Ref. ESPM 20-56-13

Ref. ESPM 20-56-51

Ref. ESPM 20-56-57

C. CONSUMABLES

Referenced consumables for task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

To accomplish this Service Bulletin it is necessary to use the consumable materials listed in:

Ref. AMM Task 20-21-15-912-001

Ref. AMM Task 20-28-00-912-802

Ref. AMM Task 28-24-51-000-001

Ref. AMM Task 30-11-42-400-001

Ref. AMM Task 57-41-37-400-002

Ref. AMM Task 57-41-37-400-003

Ref. AMM Task 57-41-37-400-009

D. LIST OF NEW PARTS

Part kit 921144B01R03

Cost	2650.00 USD
Availability	240 d (calendar days from receipt of order)
NOTE(S)	
The sales terms (costs and availability) are estimated in relation to economic conditions. The latest valid price and lead time for ordering purposes shall be obtained through the AIRBUS Spares portal or through a request for quotation to airbus.kit@airbus.com .	

The availability given above is the standard lead time from the date of your purchase order. If items are required before this time, please include a retrofit planning schedule with your order so that we can try to comply with your requirements.

Procurement address	D4296	AIRBUS Material, Logistics and Suppliers ATP II B, Hein-Sass-Weg 24 21129 HAMBURG GERMANY Phone: +49 40 743 51660 E-mail: airbus.kit@airbus.com Internet: http://spares.airbus.com
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NOTE(S)

Customers with aircraft shown in the applicability of this Service Bulletin should send a purchase order to AIRBUS at the address given above and quote the number of this Service Bulletin.

ITEM	PART No.	QTY (UM)	KEYWORD	DRAWING	SEE NOTES
1	D9225001229000	3	STRIP		
2	D9245025500000	2	SUPPORT		
5	NSA935401-06	50	TIE		
6	NAS1801-3-9	1	SCREW		
7	NSA5522-032-052	2	CLAMP		(1)
8	NSA5522-047-067	1	CLAMP		(2)
12	ABS0916B03	160 (mm)	TUBING		(3) (4)
13	ABS0127T	4	HARPOON		
14	ABS0127A	4	RETAINER		
15	ABS0127-01	4	FAIRLEAD		
16	NSA935401-04	7	TIE		
17	ABS0125-03	280 (mm)	SLEEVE		
18	NSA5516-09NJ	1	CLAMP		
19	NSA5586A1	1	BLOCK		
20	NSA935401-08	1	TIE		
21	NAS1801-3-10	1	SCREW		
22	NSA5474-3K7	1	NUT		
24	NSA937201MT0600	2	SLEEVE		
25	NSA935401-05	1	TIE		
26	NSA935401-03	2	TIE		
27	NAS1149F0332P	1	WASHER		
	ABS0514-03	750 (mm)	TUBE		
	D9001095411796	1	BUNDLE		(5)
	E0616BB2000	2	PLUG		
	EN3155-004M2020	2	CONTACT		

NOTE(S)

Refer to the AIRBUS Ref. SM if you find part numbers of hardware components which you cannot identify. The SM will give you the correct part number to part number relationship.

ITEM	PART No.	QTY (UM)	KEYWORD	DRAWING	SEE NOTES
(1):	Or alternative PN ASNA0033-052.				
(2):	Or alternative PN ASNA0033-067.				
(3):	This item has a Shelf Life of less than 36 months and must be ordered when you intend to accomplish the Service Bulletin.				
(4):	Or equivalent PN.				
(5):	For the list of components in the bundle Part Number (PN) D9001095411796, refer to Appendix LIST OF PARTS IN BUNDLE.				

Referenced parts for task set A320-A-92-XX-1144-01000-93AA-A Modification of the Route 1M in the RH Wing

To accomplish this Service Bulletin it is necessary to use the expendable parts listed in:

Ref. AMM Task 30-11-42-400-001

E. LIST OF EXISTING PARTS

No parts

3. **ACCOMPLISHMENT INSTRUCTIONS**

Task set A320-A-92-XX-1144-01000-93AA-A (A320-A-92-XX-1144-01ZZZ-93AZ-A)

Modification of the Route 1M in the RH Wing

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES.

CAUTION: ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE). WHEN YOU DO A MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE. TO DO THIS:

- **PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC., AS NECESSARY ON WIRING AND COMPONENTS.**
- **REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.**

**THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.
IF THERE IS CONTAMINATION, REFER TO Ref. ESPM 20-55-00.**

NOTE: The accomplishment instructions of this Service Bulletin include procedures given in other documents or in other sections of the Service Bulletin. When the words "refer to" are used and the operator has a procedure accepted by the local authority he belongs to, the accepted alternative procedure can be used. When the words "in accordance with" are used then the given procedure must be followed.

NOTE: The access and close-up instructions, not comprising return to service tests, in this Service Bulletin do not constitute or affect the technical intent of the Service Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the technical intent of the Service Bulletin is met within the set parameters.

NOTE: Manual titles given in the accomplishment instructions are referred to by acronyms. Refer to paragraph 1.J., References, for the definition of acronyms.

NOTE: This Service Bulletin is classified mandatory or expected to be classified mandatory by an Airworthiness Directive (AD). The paragraphs 3.C. and 3.E. in these accomplishment instructions are Required for Compliance (RC) and must be done to comply with the AD. To allow more flexibility, the rule "refer to" and "in accordance with" will apply to these paragraphs 3.C. and 3.E. Other paragraphs are recommended and may be deviated from, done as part of other actions or done with accepted methods different from those given in the Service Bulletin, as long as the RC paragraphs can be done and the aircraft can be put back into a serviceable condition.

NOTE: This Service Bulletin contains the instructions for the on-aircraft maintenance necessary to ensure the continued airworthiness of the aircraft.
For any deviations to the instructions, including Required for Compliance paragraph contained herein, contact AIRBUS for further instructions and approval.

NOTE: Discarded parts must be managed at the operator's discretion.

A. TASK SET ASSOCIATED INFORMATION

Task Manpower

TOTAL MAN-HOURS	12.25 h
ELAPSED TIME (HOURS)	12.25 h

B. PREPARATION
**(1) Task A320-A-92-XX-1144-01001-540A-A (A320-A-92-XX-1144-01ZZZ-540Z-A)
Job Set-up**
Job Set-Up Information
Manpower/Resources/Skills

Man-hours	2.75 h
Minimum Number of person	1
Elapsed Time	2.75 h

Referenced Information

Manuals/Drawings	References/Sheets
AMM	Task 12-34-24-869-002 Task 20-16-00-912-001 24-50-00 Task 28-24-51-000-001 Task 30-11-42-000-001 Task 30-11-42-400-001 Task 57-41-37-000-003 Task 57-41-37-000-004 Task 57-41-37-000-009

Procedure

NOTE: For the basic Aircraft configuration, refer to AMM Chapter "Introduction - Aircraft status for maintenance" in Manual Front Matter section.

- (a) Make sure that the aircraft is electrically grounded, refer to Ref. AMM Task 12-34-24-869-002.
- (b) Do the job set-up procedure as specified in the removal of the LP fuel valve actuator (FIN 10QG), refer to Ref. AMM Task 28-24-51-000-001.
- (c) Remove the access panel (Panel 622AT) from the RH wing for access, refer to Ref. AMM Task 57-41-37-000-003.
- (d) Remove the access panel (Panel 621BT) from the RH wing for access, refer to Ref. AMM Task 57-41-37-000-009.
- (e) Remove the pressure relief panels (Panel 622XB and Panel 622YB) from the RH wing for access, refer to Ref. AMM Task 57-41-37-000-004.
- (f) Remove the anti-ice duct, refer to Ref. AMM Task 30-11-42-000-001.

NOTE: To access the work area, you must remove at least Item 3 of the Ref. AMM Task 30-11-42-400-001.

- (g) Open, safety/lock and tag this (these) circuit breaker(s):

PANEL	DESIGNATION	FIN	LOCATION	SEE NOTES
	FLIGHT CONTROLS/SLT/CTL AND MONG/SYS1	5CV		
	FUEL/RFL/DFL/SPLY	2QU		
	FUEL/RFL/DFL/XFR/DEFUEL/VALVE	1QU		
	FLIGHT CONTROLS/SLT/CTL/SYS2	7CV		
	ANTI ICE/WING/CTL	2DL		

PANEL	DESIGNATION	FIN	LOCATION	SEE NOTES
	ANTI ICE/WING/MONG	1DL		
	FLIGHT CONTROLS/SEC1/NORM/SPLY	21CE1		
	FLIGHT CONTROLS/FLP/CTL AND MONG/SYS1	6CV		
	FLT CTL/SEC1/STBY SPLY	22CE		
	FLIGHT CONTROLS/WTB/FLP/SYS2	12CV		
	FLIGHT CONTROLS/FLP/CTL AND/ MONG/SYS2	8CV		
	FLIGHT CONTROLS/SEC3/SPLY	21CE3		
	FLIGHT CONTROLS/SEC2/SPLY	21CE2		
	FLIGHT CONTROLS/WTB/FLP/SYS1	10CV		

NOTE: For the circuit breaker location, refer to Ref. AMM 24-50-00.

NOTE: For the circuit breaker safety practices, refer to Ref. AMM Task 20-16-00-912-001.

C. PROCEDURE

(1) Task A320-A-92-XX-1144-01001-500A-A (A320-A-92-XX-1144-01ZZZ-500Z-A) Remove the Electrical Hardware in the RH Wing

Job Set-Up Information

Working Area

Impacted Zone	Access / Work Location	
621	Access	Panel 621BT
622	Access	Panel 622AT, Panel 622XB, Panel 622YB

Manpower/Resources/Skills

Man-hours	1.00 h
Minimum Number of person	1
Elapsed Time	1.00 h
Skills	Electrical

Referenced Information

Manuals/Drawings	References/Sheets
AMM	06-20-00, Page Block 001 06-41-57, Page Block 001
ESPM	20-33-43 20-33-44 20-54-50 20-56-51 20-56-57
SRM	51-42-00

Procedure

Ref. Fig.BA Remove the Harness Branch of Route 1M from the LPSOV, RH Wing

(a) Standard practices given in the procedure:

- 1 For the identification of zones, refer to Ref. AMM 06-20-00, Page Block 001.
- 2 For the identification of access panels, refer to Ref. AMM 06-41-57, Page Block 001.
- 3 Remove and install fasteners in accordance with Ref. SRM 51-42-00.
- 4 For the protection of the connectors, contacts and terminals, refer to Ref. ESPM 20-54-50.
- 5 For the cable tie application and tooling, refer to Ref. ESPM 20-33-44 and Ref. ESPM 20-56-51.
- 6 For harpoon removal tool, refer to Ref. ESPM 20-56-57.
- 7 For the removal/installation of the harpoon ties, the fairleads and the retainers, refer to Ref. ESPM 20-33-43.

- (b) Disconnect the connectors FIN 10QGA and FIN 4016VCA.
- (c) Remove/Disconnect the items on the cable route 1M.

NOTE: Mark positions, orientations and quantities of all P-Clips, Hose Clamps and cable ties.

- 1 If necessary, remove as shown in view A and C:

2	CLAMP	Item (7)	Discard
1	CLAMP	Item (8)	Discard
3	STRIP-RUBBER attached with	D9225006420000 Item (1)	Discard
1	TIE-CABLE	Item (20)	Discard
<u>2</u>	Remove as shown in view A, D, F and section D-D:		
1	TUBE SPACER	Item (19)	Discard
1	TIE-CABLE	Item (25)	Discard
5	TIE-CABLE	Item (5)	Discard

- 3 Remove P-Clips as shown in view A, B, E and G:

NOTE: Mark positions, orientations and quantities of all P-Clips, Hose Clamps and cable ties.

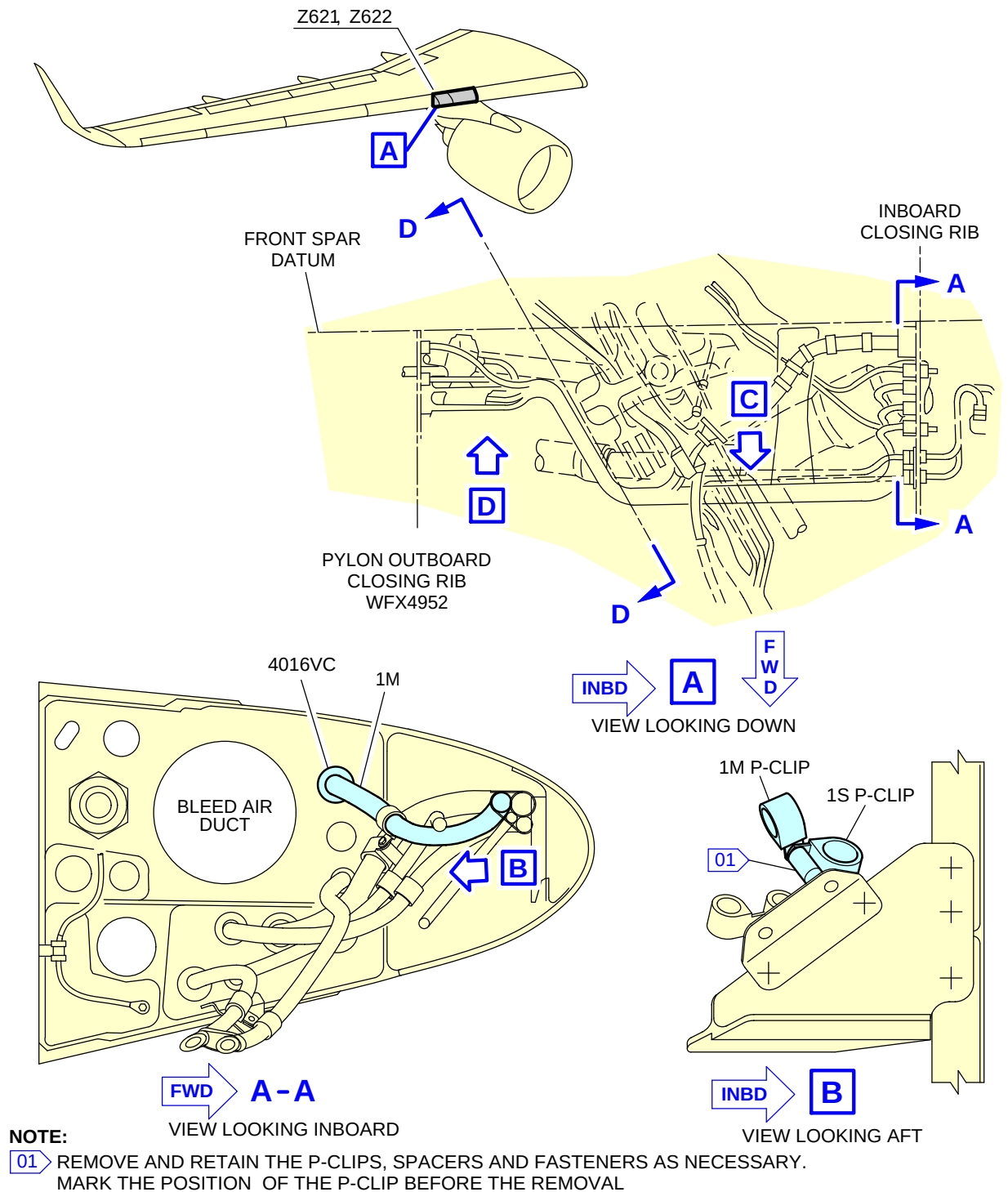
1	CLAMP, LOOP	Item (18)	Retain
1	CLAMP, LOOP attached with	Item (18)	Discard
1	SCREW HEX	Item (21)	Discard
1	NUT	Item (22)	Discard
<u>4</u>	Remove the grounding point FIN 4088VN as show in view J: attached with		
1	WASHER	Item (27)	Discard
1	SCREW HEXAGON-HEAD	Item (6)	Discard

5 Remove from the raceways as shown in view E, H, K and L:

2	SUPPORT ASSY-CABLE	D9245025500000	Item (2)	Discard
4	CABLE-TIE HARPOON		Item (13)	Discard
4	RETAINER		Item (14)	Discard
4	FAIRLEAD		Item (15)	Discard
2	TIE-CABLE		Item (26)	Discard
7	TIE-CABLE		Item (16)	Discard

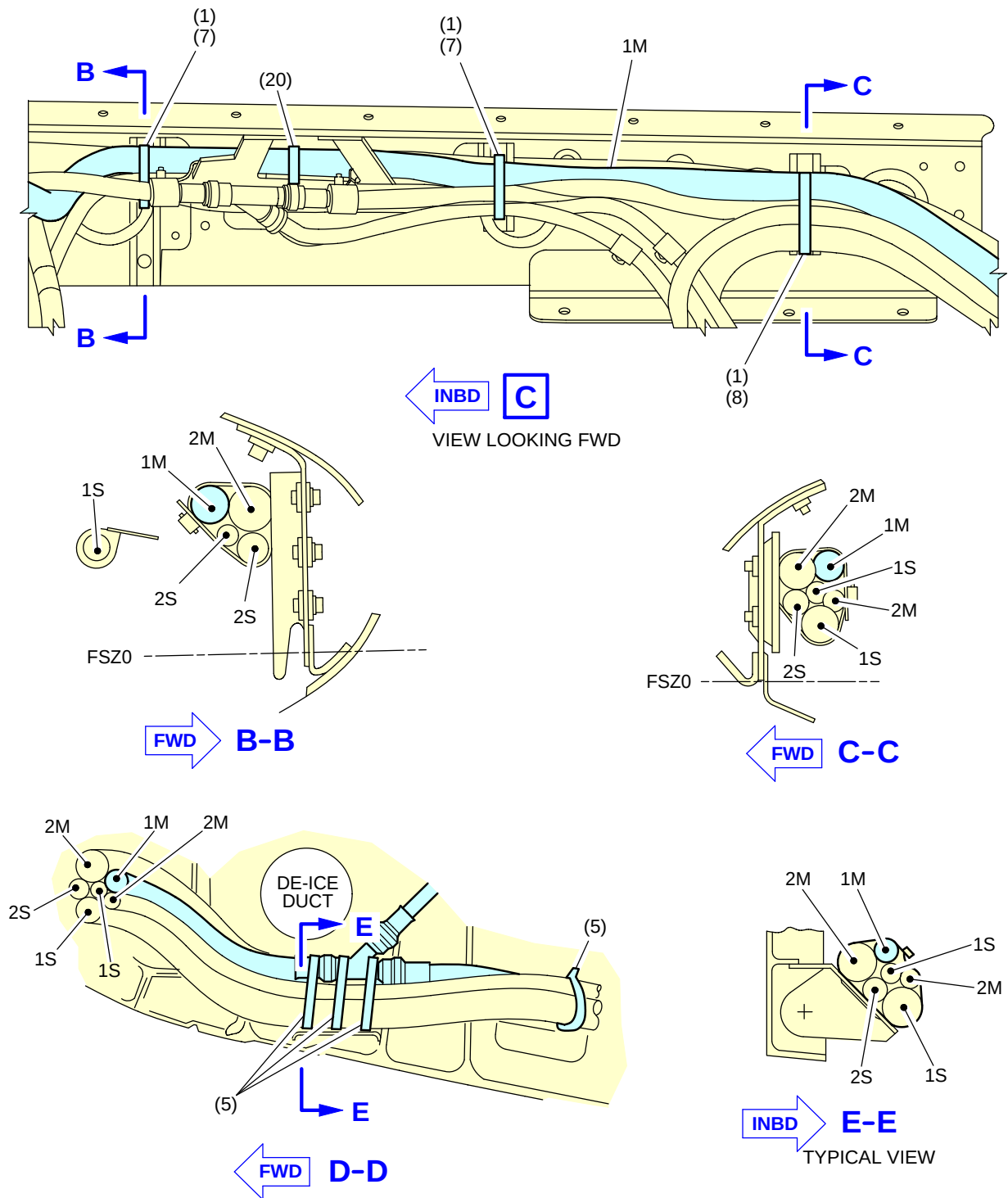
NOTE: Only remove the necessary cable ties to remove the wire.

CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-0294K-A-002-01

CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-0294L-A-003-01

Figure ICN-A320-A-92XX1144-A-FAPE3-0294L-A-003-01 Fig.BA Sol.AA SHEET 2/4

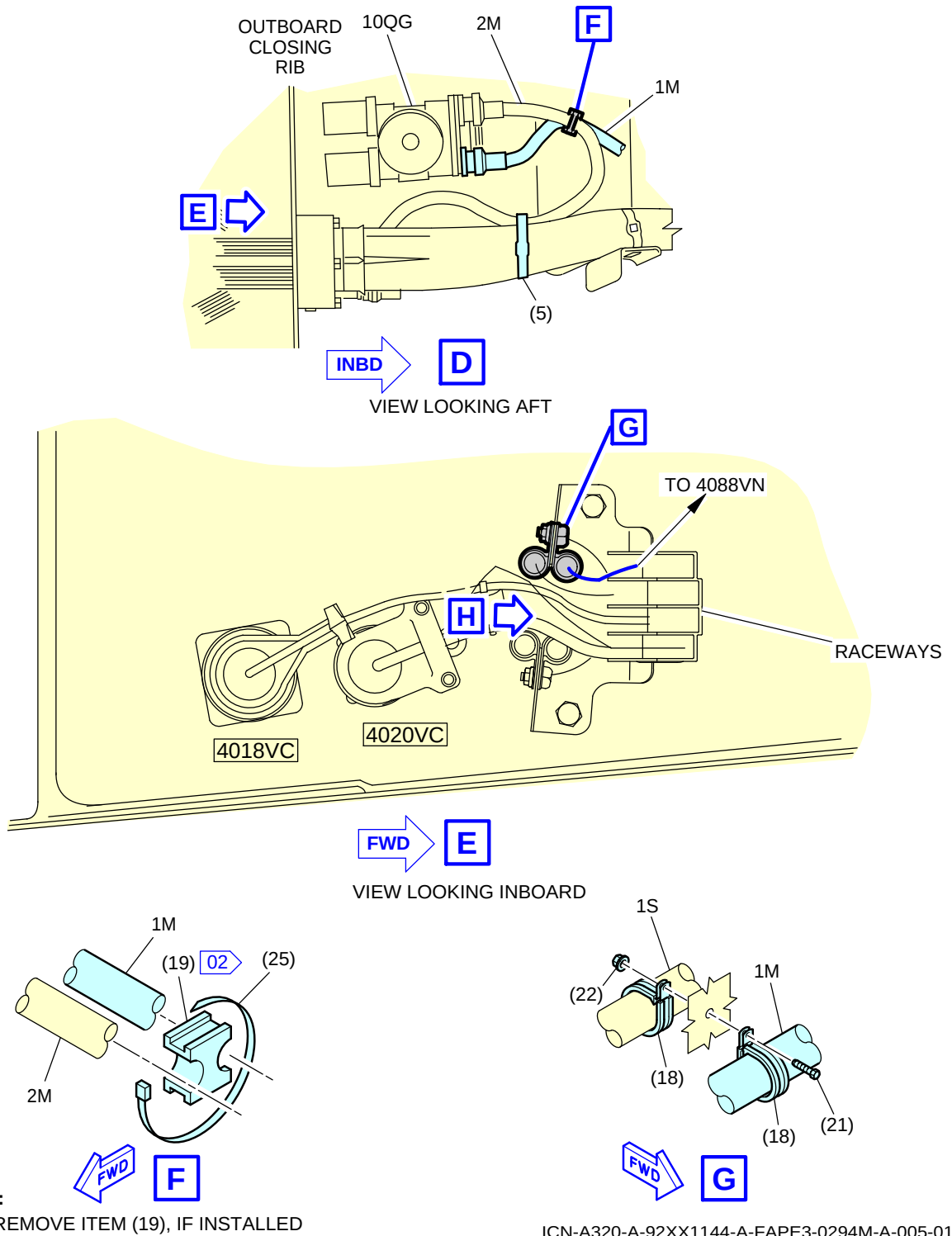
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Remove the Harness Branch of
Route 1M from the LPSOV, RH Wing

A320-92-1144

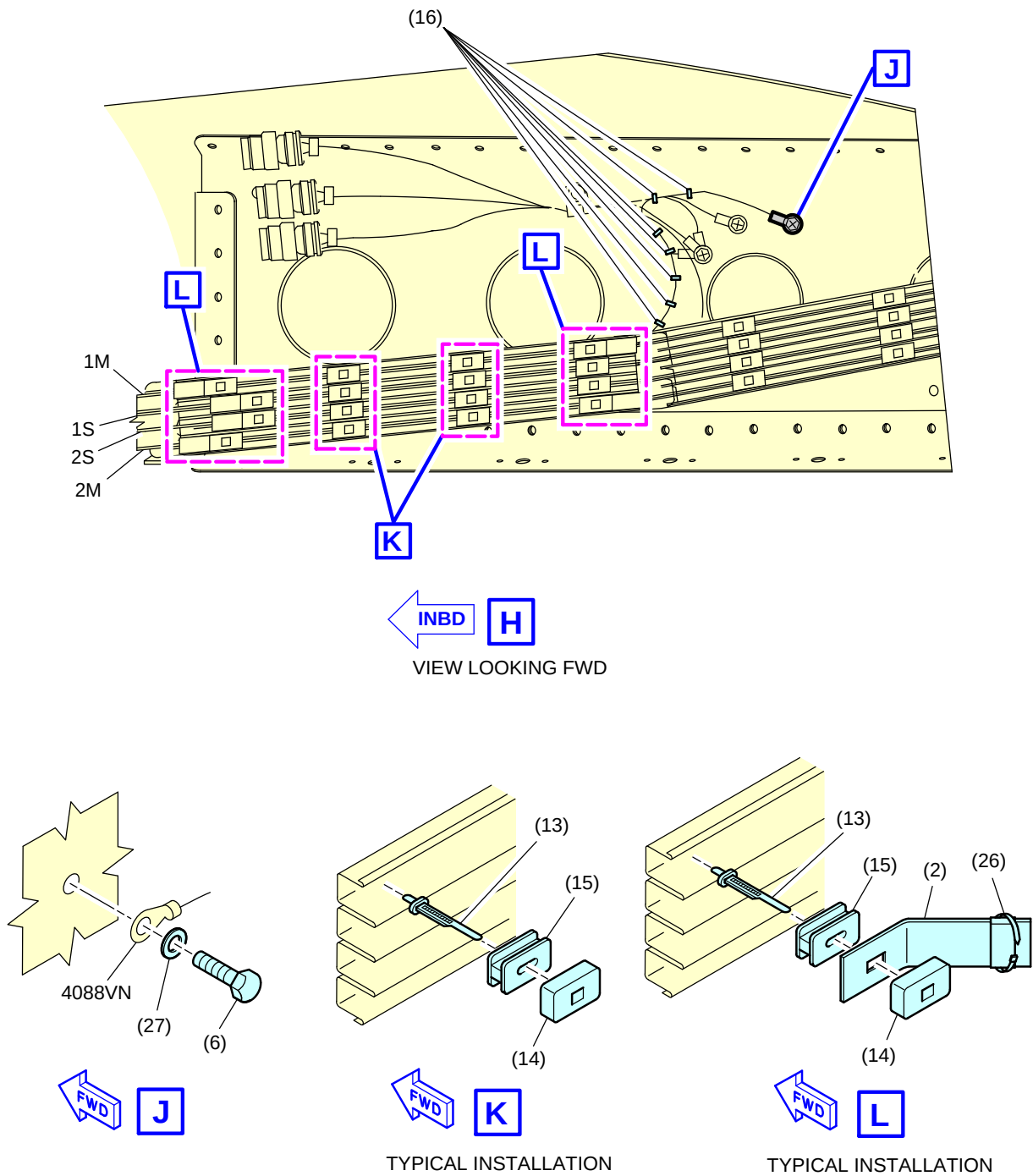
Page 22

CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-0294M-A-005-01

CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-0294N-A-004-01

**(2) Task A320-A-92-XX-1144-01001-920A-A (A320-A-92-XX-1144-01ZZZ-920Z-A)
Modify the Route 1M in the RH Wing**

Job Set-Up Information

Working Area

Impacted Zone	Access / Work Location	
621	Access	Panel 621BT
622	Access	Panel 622AT, Panel 622XB, Panel 622YB

Manpower/Resources/Skills

Man-hours	2.00 h
Minimum Number of person	1
Elapsed Time	2.00 h
Skills	Electrical

Material necessary to do the job

Part kit 921144B01R03					
ITEM	PART No.	QTY (UM)	KEYWORD	DRAWING	SEE NOTES
	ABS0514-03	750 (mm)	TUBE		
	D9001095411796	1	BUNDLE		(1)
	E0616BB2000	2	PLUG		
	EN3155-004M2020	2	CONTACT		
NOTE(S)					
(1): For the list of components in the bundle Part Number (PN) D9001095411796, refer to Ref. Appendix LIST OF PARTS IN BUNDLE.					

Referenced Information

Manuals/Drawings	References/Sheets
AMM	06-20-00, Page Block 001 06-41-57, Page Block 001
ESPM	20-33-00 20-44-10 20-48-11 20-48-24 20-48-41 20-52-10

Procedure

Ref. Fig.BC Principle of Y-Transition Routing

(a) Standard practices given in the procedure:

- 1 For the identification of zones, refer to Ref. AMM 06-20-00, Page Block 001.
- 2 For the identification of access panels, refer to Ref. AMM 06-41-57, Page Block 001.
- 3 To install copper wire terminals for PN NSA936501, refer to Ref. ESPM 20-48-11.
- 4 For the general installation of electrical wire harnesses, refer to Ref. ESPM 20-33-00.

- 5 Do a check of the electrical connectors before you connect them, refer to Ref. ESPM 20-52-10.
- 6 To install normal contacts for PREN connectors, refer to Ref. ESPM 20-48-24.
- (b) Modify the wiring in the RH Wing.
Refer to Ref. ESPM 20-33-00
 - 1 Take the 1M route from the connectors FIN 4016VCA and FIN 10QGA to the conduit plate and lower through the leading edge access panel.

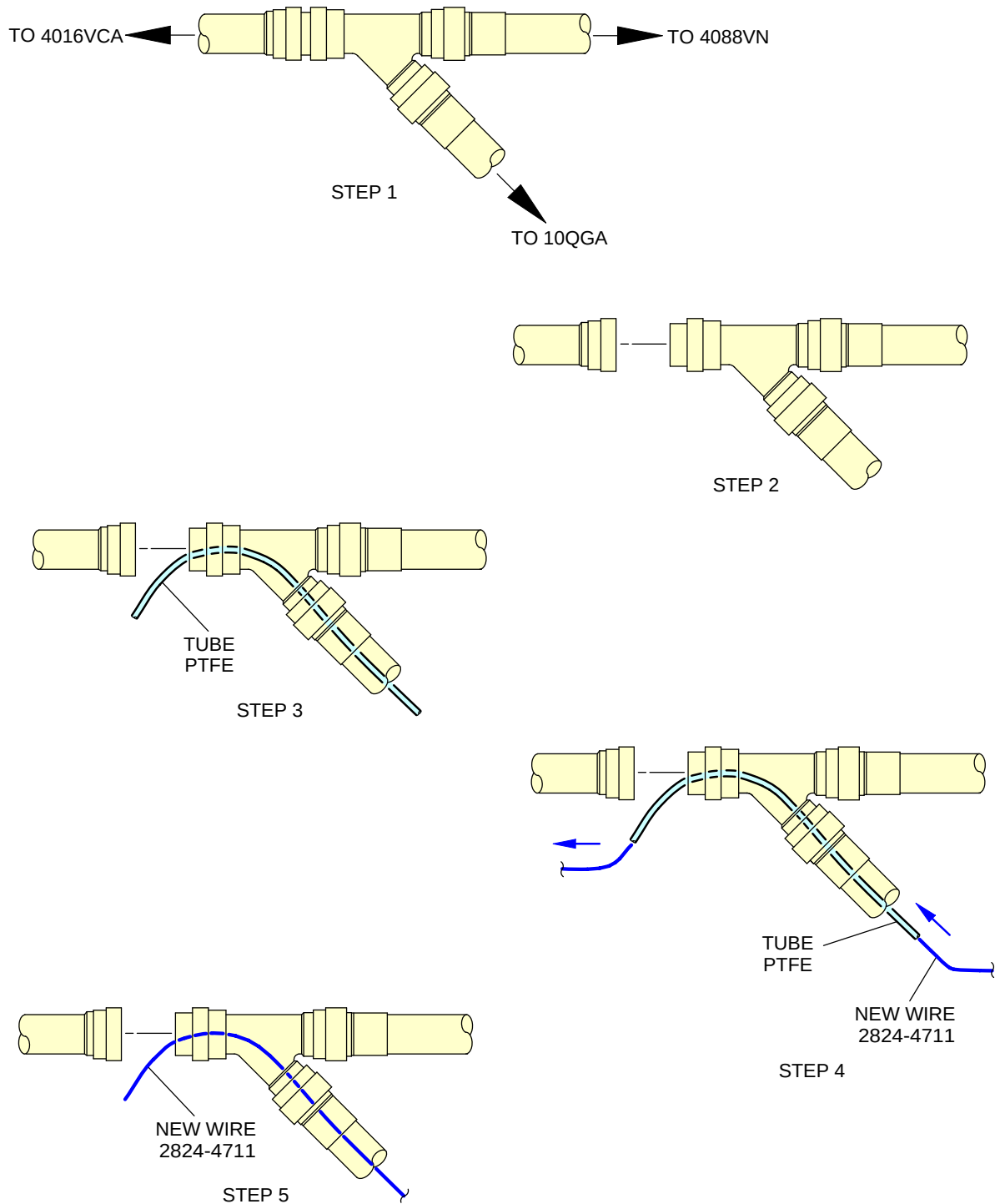
NOTE: Make sure there is no damage.
 - 2 Remove the conduit backshell of connectors FIN 4016VCA and FIN 10QGA.

NOTE: Ensure contacts are removed prior to wire 2824-4537 extraction through the conduits to prevent damage.
 - 3 Remove the wire(s) as shown on this(these) wiring diagram(s) and the related hook-up chart(s):
 - Ref. Fig.WA Wiring Diagram - ZONE 600 and Ref. Fig.HA Hook-up Chart - ZONE 600.
 - 4 Install dummy contact into the unused cavity of the connector FIN 4016VCA pin 2 from which the wire is disconnected, refer to Ref. ESPM 20-44-10.
- 2 CONTACT EN3155-004M2020
 - 5 Put the plug filler into the cavities of the connector FIN 4016VCA pin 2 from which the wire is disconnected, refer to Ref. ESPM 20-48-41.
- 2 PLUG E0616BB2000
 - 6 Disconnect the inboard conduit and if necessary LPSOV 10QGA branch conduit from the Y-transition as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 2.
 - 7 Feed the TUBE-PTFE through the LPSOV conduit branch from the FIN 10QGA until it protrudes past the Y-transition on the FIN 4016VCA side as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 3, use:
- 750(mm) TUBE-PTFE ABS0514-03

NOTE: Make sure that PTFE tube has no cutting edge to not cause damage on the wire harness.
- 8 Feed the wire 2824-4711 through the PTFE tube as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 4, supplied in:
- 1 BUNDLE D9001095411796
 - 9 Remove and retain the PTFE tube leaving the wire 2824-4711 in place as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 5.
 - 10 Feed the PTFE tube from the Y-transition on the FIN 4016VCA side through to the conduit plate until it is visible through the outboard pylon closing rib as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 6.
 - 11 Feed the wire 2824-4711 through the PTFE tube to make sure a minimum length of 750mm is protruding past the outboard pylon closing rib as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 7.

- 12 Remove and discard the PTFE tube and make sure that the wire 2824-4711 is in position as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 8.
- 13 Carefully pull the wire out from both ends at the same time to make sure no excess wire is within the conduit as shown on Ref. Fig.BC Principle of Y-Transition Routing, step 8 and 9.
- 14 Assemble and lock the Y-transition.

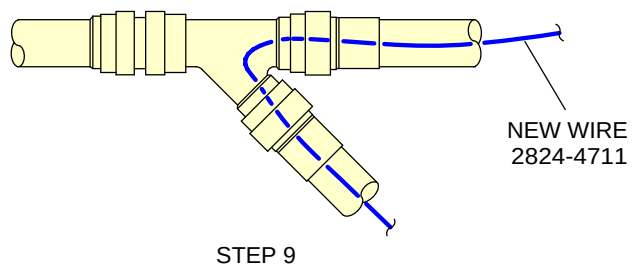
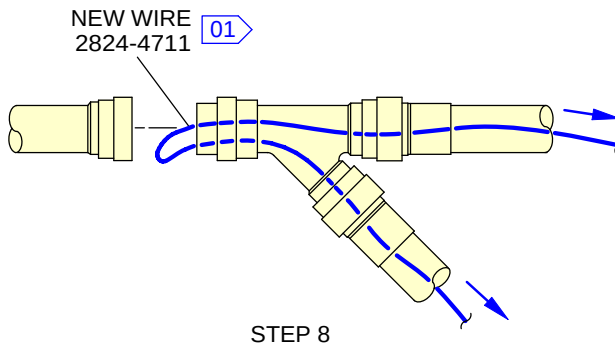
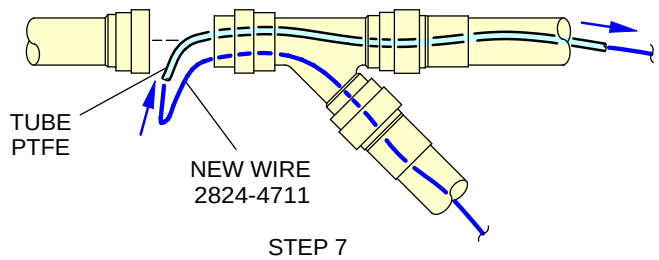
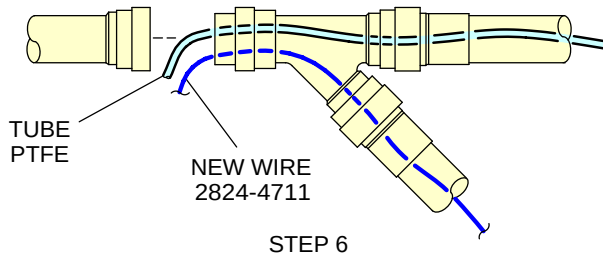
CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-02BL7-A-002-01

Figure ICN-A320-A-92XX1144-A-FAPE3-02BL7-A-002-01 Fig.BC Sol.AA SHEET 1/2

CONF ALL

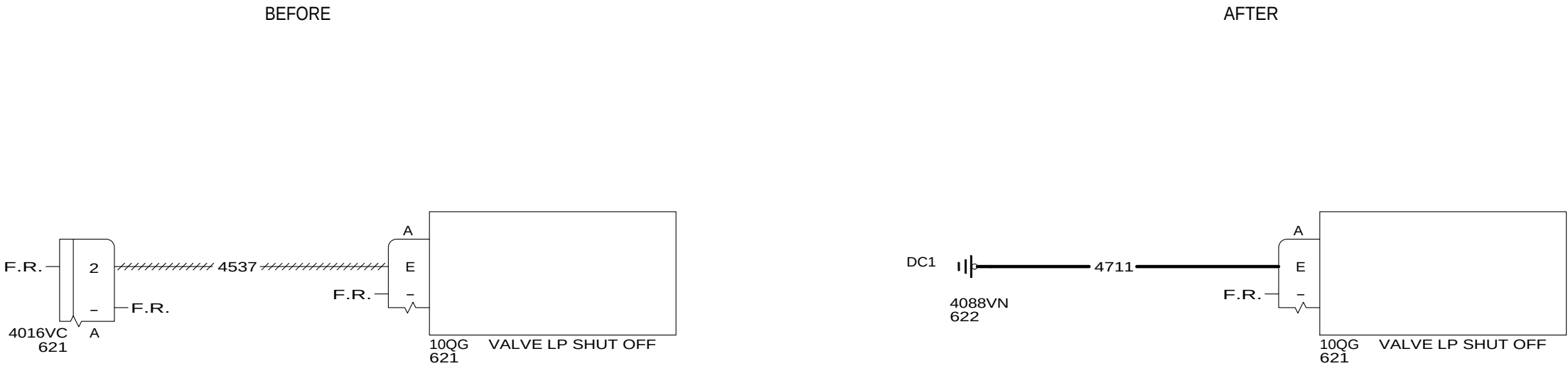


NOTE:

01 MAKE SURE TO NOT DAMAGE THE WIRE

ICN-A320-A-92XX1144-A-FAPE3-02BMF-A-004-01

CONF ALL



— NEW WIRE - - - - - WIRE TO BE DELETED F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2824
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DW20 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

N_SB_921144_5_WAAA_01_01

Figure ICN-A320-A-92XX1144-A-FAPE3-028MI-A-002-01 Fig.WA Sol.AA SHEET 1/1
Wiring Diagram - ZONE 600

CONF ALL

Line	END1				LEAD						END2				Instructions
	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Co	Rte	Gauge	Length		Zone or Panel	Elec.Ident.	Term	Terminal P/N	
									mm	Inch					
1	621	10QG-A	E	EN3155-019F2018	2824-4537		1M	DW20	2000	80	621	4016VC-A	2	NSA936501TA2004	(a) A
2	621	10QG-A	E		2824-4711		1M	DW20			622	4088VN	GND		
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
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17															
18															
19															
20															
21															
22															
23															
24															
25															
(a) = BUNDLE D9001095411796 GND = GROUND															
A = ADDED WIRE															
D = DELETED WIRE															

(3) Task A320-A-92-XX-1144-01001-700A-A (A320-A-92-XX-1144-01ZZZ-700Z-A) Install the Electrical Hardware in the RH Wing

Job Set-Up Information

Working Area

Impacted Zone	Access / Work Location	
621	Access	Panel 621BT
622	Access	Panel 622AT, Panel 622XB, Panel 622YB

Manpower/Resources/Skills

Man-hours	2.50 h
Minimum Number of person	1
Elapsed Time	2.50 h
Skills	Electrical

Material necessary to do the job

Part kit 921144B01R03					
ITEM	PART No.	QTY (UM)	KEYWORD	DRAWING	SEE NOTES
1	D9225001229000	3	STRIP		
2	D9245025500000	2	SUPPORT		
5	NSA935401-06	50	TIE		
6	NAS1801-3-9	1	SCREW		
7	NSA5522-032-052	2	CLAMP		(1)
8	NSA5522-047-067	1	CLAMP		(2)
12	ABS0916B03	160 (mm)	TUBING		(3) (4)
13	ABS0127T	4	HARPOON		
14	ABS0127A	4	RETAINER		
15	ABS0127-01	4	FAIRLEAD		
16	NSA935401-04	7	TIE		
17	ABS0125-03	280 (mm)	SLEEVE		
18	NSA5516-09NJ	1	CLAMP		
19	NSA5586A1	1	BLOCK		
20	NSA935401-08	1	TIE		
21	NAS1801-3-10	1	SCREW		
22	NSA5474-3K7	1	NUT		
24	NSA937201MT0600	2	SLEEVE		
25	NSA935401-05	1	TIE		
26	NSA935401-03	2	TIE		
27	NAS1149F0332P	1	WASHER		
	D9001095411796		BUNDLE		(5)
NOTE(S)					
(1): Or alternative PN ASNA0033-052.					
(2): Or alternative PN ASNA0033-067.					
(3): This item has a Shelf Life of less than 36 months and must be ordered when you intend to accomplish the Service Bulletin.					

Part kit 921144B01R03					
ITEM	PART No.	QTY (UM)	KEYWORD	DRAWING	SEE NOTES
(4): Or equivalent PN.					
(5): For the list of components in the bundle Part Number (PN) D9001095411796, refer to Ref. Appendix LIST OF PARTS IN BUNDLE.					

Referenced Information

Manuals/Drawings	References/Sheets
AMM	06-20-00, Page Block 001 06-41-57, Page Block 001 Task 20-21-15-912-001 Task 20-28-00-912-802 Task 30-11-42-400-001
ESPM	20-33-00 20-33-30 20-33-33 20-33-42 20-33-43 20-33-44 20-43-11 20-48-11 20-48-21 20-51-20 20-52-10 20-52-21 20-56-13 20-56-51
SRM	51-43-00

Procedure

Ref. Fig.BB Install the Harness Branch of Route 1M in the LPSOV, RH Wing

(a) Standard practices given in the procedure:

- 1 For the identification of zones, refer to Ref. AMM 06-20-00, Page Block 001.
- 2 For the identification of access panels, refer to Ref. AMM 06-41-57, Page Block 001.
- 3 To torque tighten the electrical component fasteners, refer to Ref. AMM Task 20-21-15-912-001.
- 4 For the cable tie application and tooling, refer to Ref. ESPM 20-33-44 and Ref. ESPM 20-56-51.
- 5 For the general installation of electrical wire harnesses, refer to Ref. ESPM 20-33-00.
- 6 For the electrical bonding, refer to Ref. ESPM 20-51-20 and Ref. AMM Task 20-28-00-912-802.
- 7 For the removal/installation of the harpoon ties, the fairleads and the retainers, refer to Ref. ESPM 20-33-43.
- 8 Get alternative and substitute fastener data in accordance with Ref. SRM 51-43-00.
- 9 Do a check of the electrical connectors before you connect them, refer to Ref. ESPM 20-52-10.

- 10 For general splicing instructions and precautions, refer to Ref. ESPM 20-43-11.
- 11 Adapt the clamp size as necessary, refer to Ref. ESPM 20-33-42.
- (b) Protect wire 2824-4711 as shown in view A, D, E, H and section F-F, refer to Ref. ESPM 20-33-30, Ref. ESPM 20-33-44 and Ref. ESPM 20-56-51.
 - 1 Install tubing as shown in view G and H through the clamp item 18 (installed later).
- 160(mm) TUBING,ELASTOMERIC ABS0916B03 Item 12
 - 2 From connector FIN 10QGA side, for wire 2824-4711, crimp terminal contact PN EN3155-019F2018 and shrink the sleeve PN NSA937210MB0200 supplied in bundle, refer to Ref. ESPM 20-48-21 and Ref. ESPM 20-56-13.
 - 3 Install the wire(s) as shown on this(these) wiring diagram(s) and the related hook-up chart(s):
 - Ref. Fig.WA Wiring Diagram - ZONE 600 and Ref. Fig.HA Hook-up Chart - ZONE 600, supplied in:
- 1 BUNDLE D9001095411796
 - 4 Install the conduit backshell of connector FIN 4016VCA and FIN 10QGA.
 - 5 At the outboard pylon closing rib, route the wire in the raceways from clamp item 18 to FIN 4088VN and put a mark between the two last harpoon ties location.

NOTE: Make sure that the wire route in the upper raceways route as shown in view E.
 - 6 On the wire from the mark:
 - a Install the sleeve item 24, until the mark:
- 1 SLEEVE-IDENTIFICATION NSA937201MT0600 Item 24
 - b Install sleeve item 17:
- 280(mm) SLEEVE ABS0125-03 Item 17
 - c Install sleeve item 24:
- 1 SLEEVE-IDENTIFICATION NSA937201MT0600 Item 24
 - d Install the identification sleeve (FIN 4088VN), supplied in bundle. Refer to Ref. ESPM 20-33-33 and refer to Ref. Task A320-A-92-XX-1144-01ZZZ-700Z-A.
 - e Shrink the assembly, sleeve item 24 at each end of the item 17 and identification sleeve FIN 4088VN.
 - f Cut the wire 2824-4711 to the necessary length.
 - g Install terminal lug PN NSA936501TA2004 and crimp as per Ref. ESPM 20-48-11.
- (c) Install the route 1M harness in the RH wing.
 - 1 If removed, install as shown in view A and C:
- 3 STRIP-RUBBER D9225001229000 Item 1

NOTE: Two turns of item 1 around conduit and cable carrier.

2	CLAMP	NSA5522-032-052	Item 7
1	CLAMP	NSA5522-047-067	Item 8

NOTE: Make sure the clamps, item 7 and item 8 are not tightened excess.

1	TIE-CABLE	NSA935401-08	Item 20
<u>2</u>	Install as shown in view A, B, D thru F and section D-D and E-E:		
1	BLOCK-ISOLATOR	NSA5586A1	Item 19
1	TIE-CABLE	NSA935401-05	Item 25
50	TIE-CABLE	NSA935401-06	Item 5

NOTE: Make sure tie-cable PN NSA935401-06 removed must be replaced on same location and same quantities.

NOTE: Make sure a minimum clearance of 10 mm is achieved between electrical harnesses and de-icer duct support.

3 Install as shown in view A, D, E and G:

1	CLAMP,LOOP		Item (18)	Retained
1	CLAMP and attach with	NSA5516-09NJ	Item 18	
1	SCREW	NAS1801-3-10	Item 21	
1	NUT	NSA5474-3K7	Item 22	

NOTE: Make sure that the sleeve item 12 exceeds the clamp item 18 by 10mm.

4 Install as shown in view A, D, E, J, L and M:

4	CABLE-TIE HARPOON	ABS0127T	Item 13
4	RETAINER	ABS0127A	Item 14
4	FAIRLEAD	ABS0127-01	Item 15
2	SUPPORT ASSY-CABLE	D9245025500000	Item 2
2	TIE-CABLE	NSA935401-03	Item 26
7	TIE-CABLE	NSA935401-04	Item 16

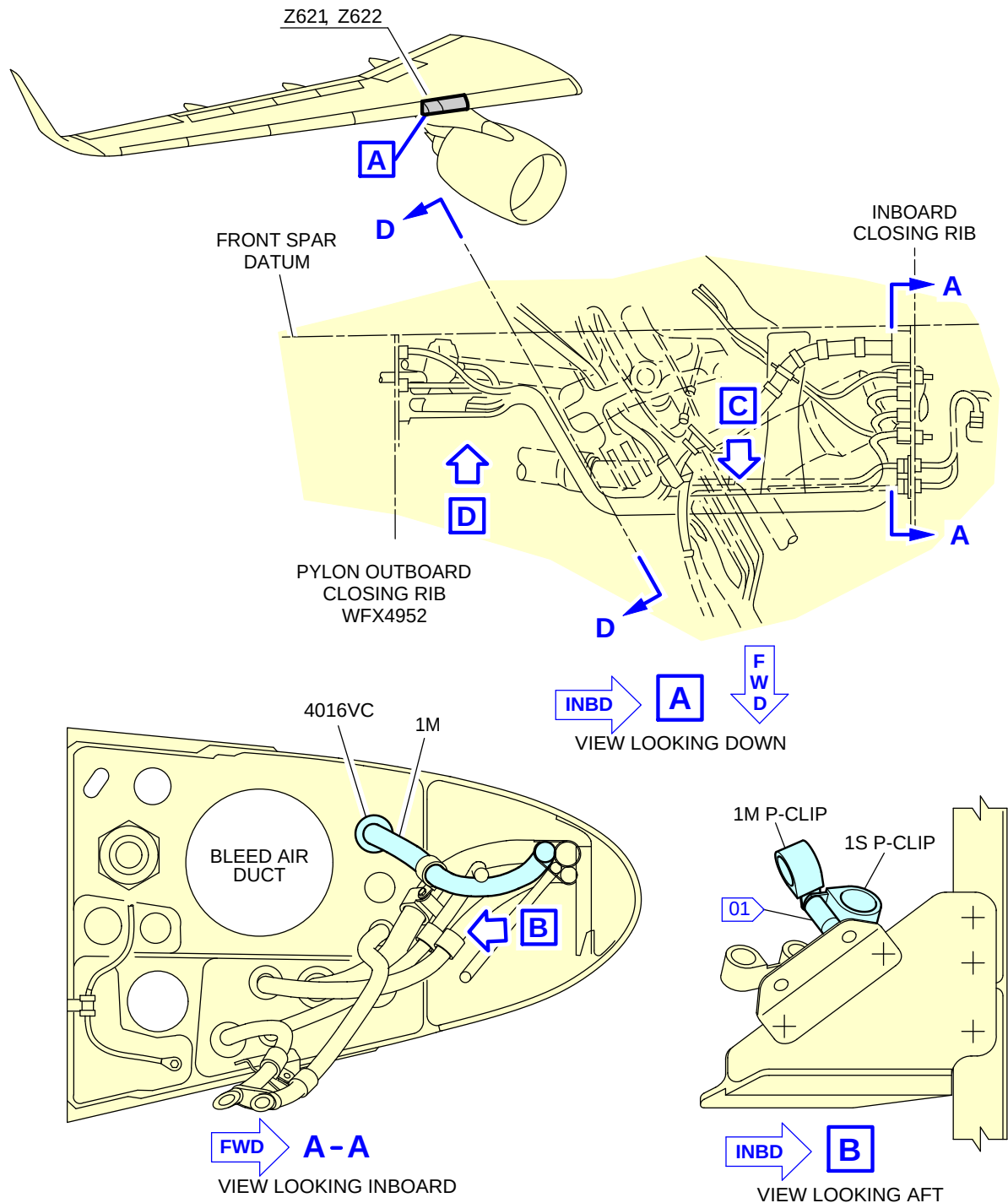
5 Attach the grounding point, FIN 4088VN as shown in view A, D, E, J and K with:

NOTE: Make sure to verify that the previously attached ground cable(s) at FIN 4088VN needs to be correctly reinstalled as well.

1	WASHER	NAS1149F0332P	Item 27
1	SCREW	NAS1801-3-9	Item 6

- a Do the electrical bonding, refer to Ref. ESPM 20-51-20 and Ref. AMM Task 20-28-00-912-802.
 - b Do a continuity test of the new and/or modified electrical wires, refer to Ref. ESPM 20-52-21.
- (d) Connect the connectors FIN 10QGA and FIN 4016VCA.
- (e) Remove and discard any markings for P-Clips and Cable ties.
- (f) Install the anti-ice duct, refer to Ref. AMM Task 30-11-42-400-001.

CONF ALL

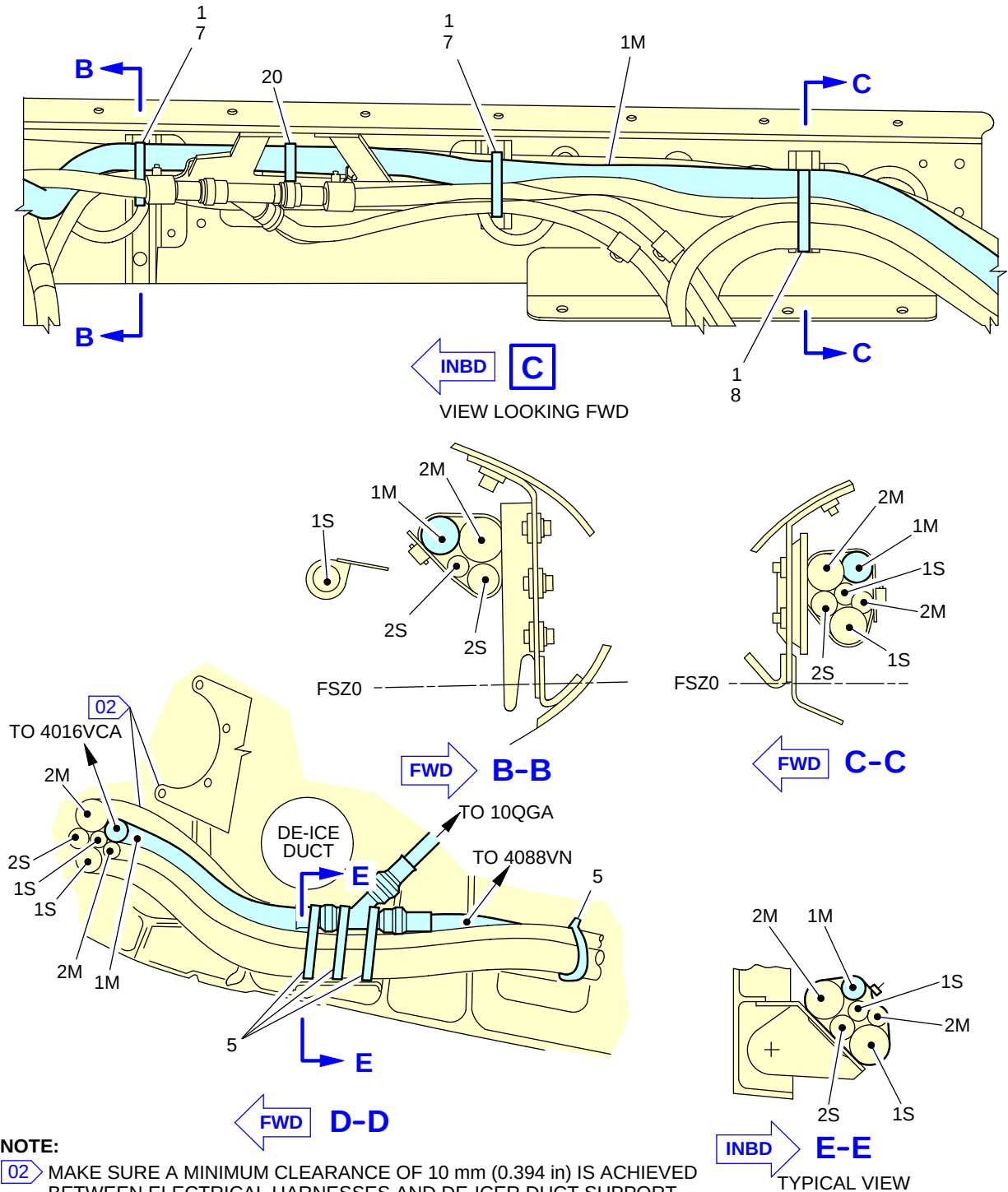


NOTE:

01 USE THE RETAINED PARTS

ICN-A320-A-92XX1144-A-FAPE3-02807-A-002-01

CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-0294H-A-004-01

Figure ICN-A320-A-92XX1144-A-FAPE3-0294H-A-004-01 Fig.BB Sol.AA SHEET 2/4

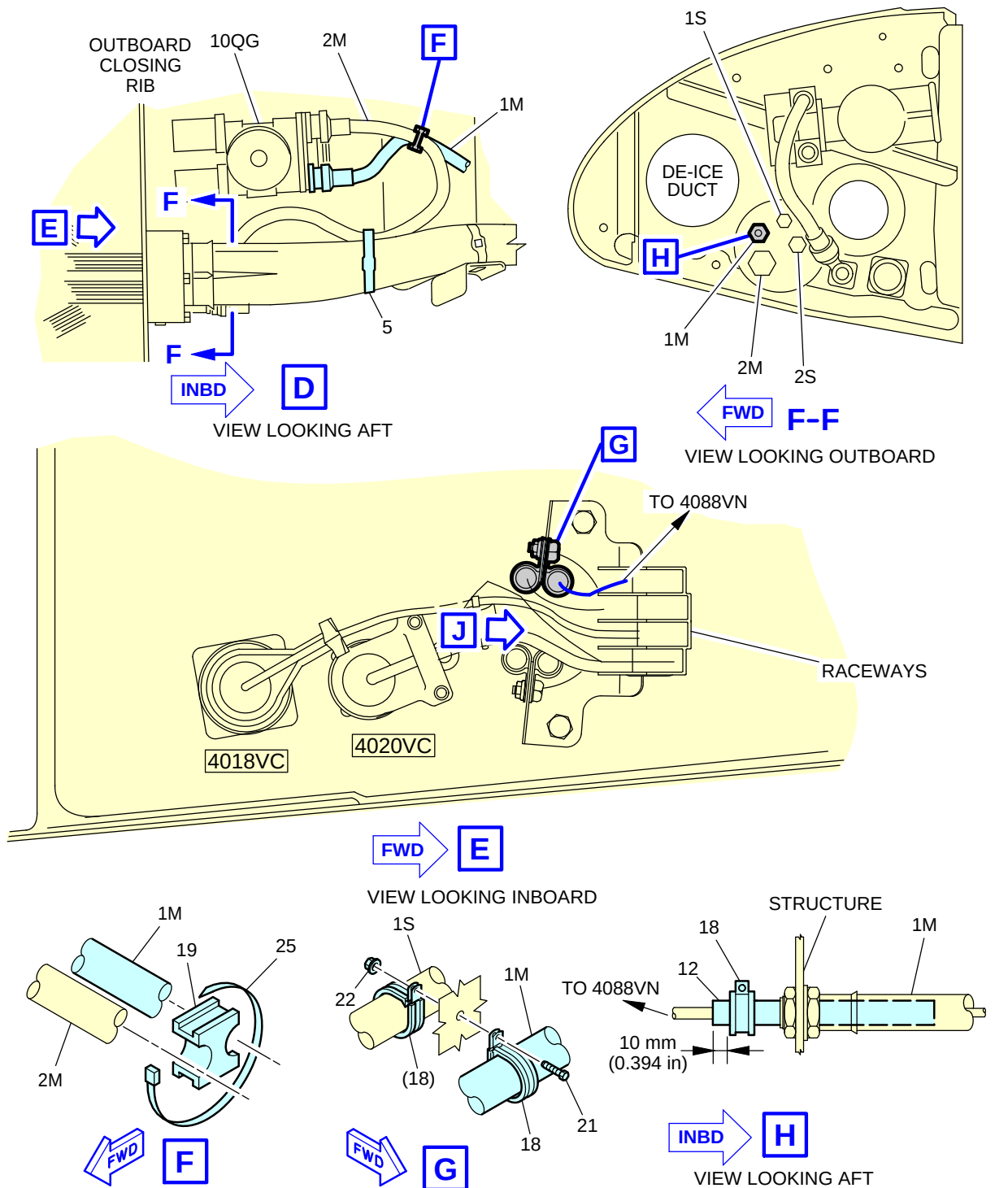
REV 00 Mar 04/22

Install the Harness Branch of Route 1M in the LP SOV, RH Wing

A320-92-1144

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CONF ALL



ICN-A320-A-92XX1144-A-FAPE3-0294I-A-006-01

Figure ICN-A320-A-92XX1144-A-FAPE3-0294I-A-006-01 Fig.BB Sol.AA SHEET 3/4

REV 00 Mar 04/22

Install the Harness Branch of Route 1M in the LP SOV, RH Wing

A320-92-1144

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CONF ALL

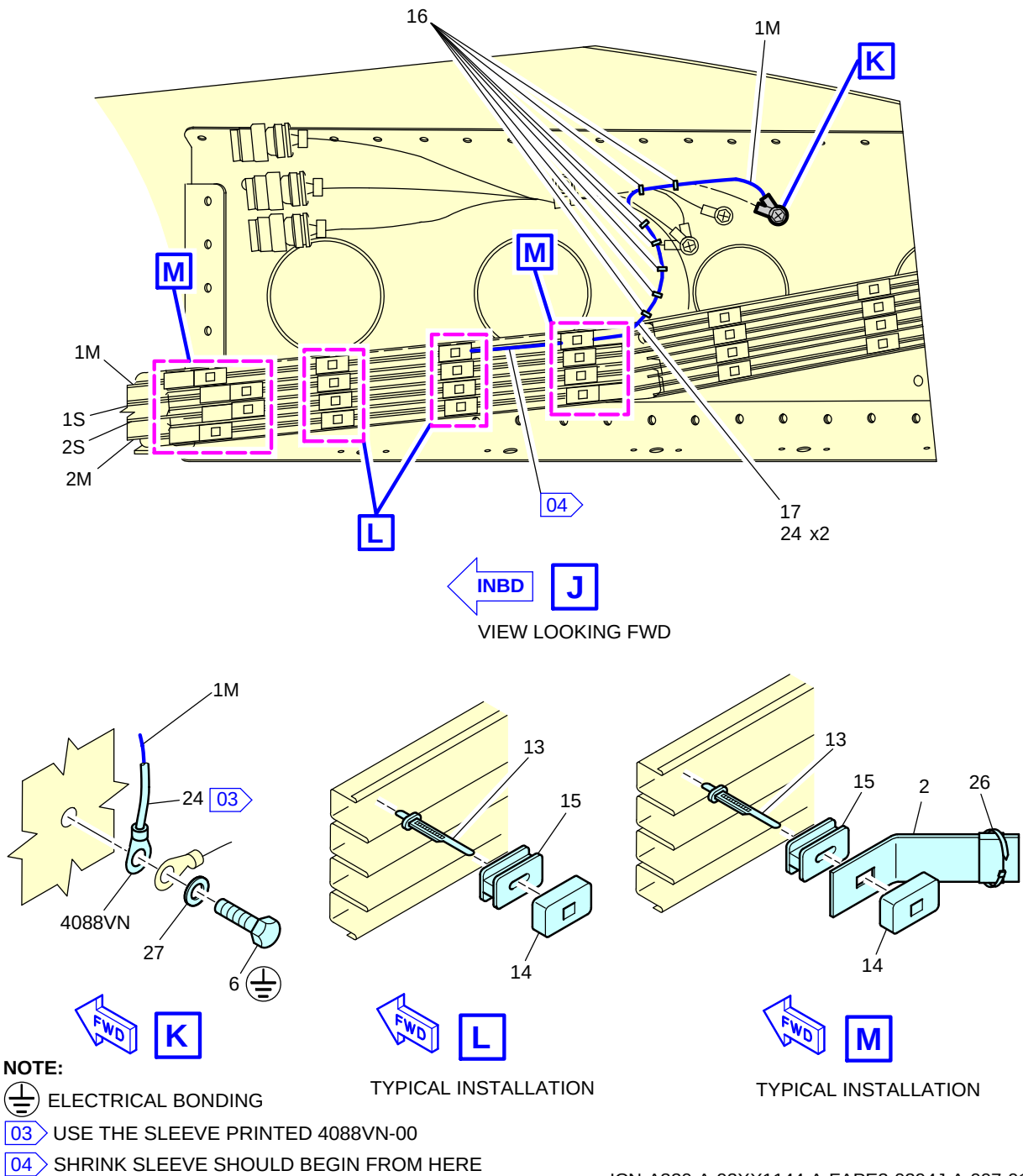
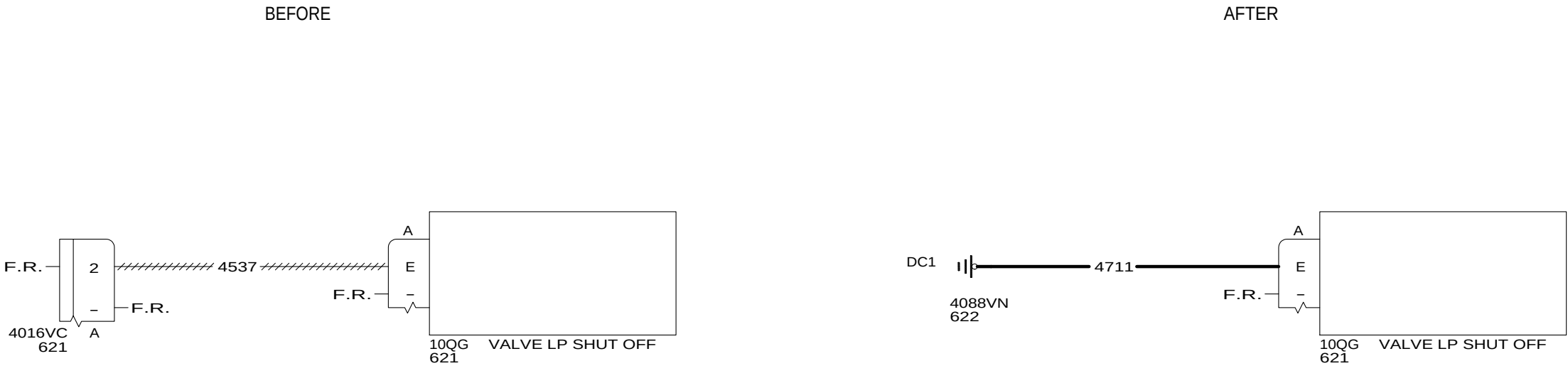


Figure ICN-A320-A-92XX1144-A-FAPE3-0294J-A-007-01 Fig.BB Sol.AA SHEET 4/4

CONF ALL



— NEW WIRE - - - - - WIRE TO BE DELETED F.R. FOR REFERENCE

NOTE : UNLESS OTHERWISE SPECIFIED PREFIX ALL WIRE IDENTIFICATION WITH ATA2824
UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DW20 GAUGE
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 1M

N_SB_921144_5_WAAA_01_01

Figure ICN-A320-A-92XX1144-A-FAPE3-028MI-A-002-01 Fig.WA Sol.AA SHEET 1/1
Wiring Diagram - ZONE 600

CONF ALL

Line	END1				LEAD						END2				Instructions
	Zone or Panel	Elec.Ident.	Term	Terminal P/N	Wire Ident.	Co	Rte	Gauge	Length		Zone or Panel	Elec.Ident.	Term	Terminal P/N	
									mm	Inch					
1	621	10QG-A	E	EN3155-019F2018	2824-4537		1M	DW20	2000	80	621	4016VC-A	2	NSA936501TA2004	(a) A
2	621	10QG-A	E		2824-4711		1M	DW20			622	4088VN	GND		
3															
4															
5															
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23															
24															
25															
(a) = BUNDLE D9001095411796 GND = GROUND A = ADDED WIRE D = DELETED WIRE															

D. PREPARATION FOR TEST
(1) Task A320-A-92-XX-1144-02001-540A-A (A320-A-92-XX-1144-02ZZZ-540Z-A)
Job Set-up
Job Set-Up Information
Manpower/Resources/Skills

Man-hours	0.25 h
Minimum Number of person	1
Elapsed Time	0.25 h

Referenced Information

Manuals/Drawings	References/Sheets
AMM	Task 20-16-00-912-001 24-50-00 Task 28-24-51-400-001 Task 30-11-42-400-001

Procedure

- (a) Remove the safety clip(s) and/or tag(s) and close/unlock this (these) circuit breaker(s) as specified in the installation of the LP fuel valve actuator (FIN 10QG), refer to Ref. AMM Task 28-24-51-400-001.
- (b) Remove the safety clip(s) and/or tag(s) and close/unlock this (these) circuit breaker(s) as specified in the installation of the anti-ice duct, refer to Ref. AMM Task 30-11-42-400-001.
- (c) Remove the safety clip(s) and/or tag(s) and close/unlock this (these) circuit breaker(s):

PANEL	DESIGNATION	FIN	LOCATION	SEE NOTES
	FLIGHT CONTROLS/SLT/CTL AND MONG/SYS1	5CV		
	FUEL/RFL/DFL/SPLY	2QU		
	FUEL/RFL/DFL/XFR/DEFUEL/VALVE	1QU		
	FLIGHT CONTROLS/SLT/CTL/SYS2	7CV		
	ANTI ICE/WING/CTL	2DL		
	ANTI ICE/WING/MONG	1DL		
	FLIGHT CONTROLS/SEC1/NORM/SPLY	21CE1		
	FLIGHT CONTROLS/FLP/CTL AND MONG/SYS1	6CV		
	FLT CTL/SEC1/STBY SPLY	22CE		
	FLIGHT CONTROLS/WTB/FLP/SYS2	12CV		
	FLIGHT CONTROLS/FLP/CTL AND/ MONG/SYS2	8CV		
	FLIGHT CONTROLS/SEC3/SPLY	21CE3		
	FLIGHT CONTROLS/SEC2/SPLY	21CE2		
	FLIGHT CONTROLS/WTB/FLP/SYS1	10CV		

NOTE: For the circuit breaker location, refer to Ref. AMM 24-50-00.

NOTE: For the circuit breaker safety practices, refer to Ref. AMM Task 20-16-00-912-001.

E. TEST
(1) Task A320-A-92-XX-1144-01001-340A-A (A320-A-92-XX-1144-01ZZZ-340Z-A) Test
Job Set-Up Information
Manpower/Resources/Skills

Man-hours	1.00 h
Minimum Number of person	2
Elapsed Time	1.00 h

Referenced Information

Manuals/Drawings	References/Sheets
AMM	Task 28-24-51-400-001 Task 30-11-42-400-001

Procedure

- (a) Do the test as specified after the installation of the LP fuel valve actuator (FIN 10QG), refer to Ref. AMM Task 28-24-51-400-001.
- (b) Do the test as specified after the installation of the anti-ice duct, refer to Ref. AMM Task 30-11-42-400-001.

F. CLOSE-UP
(1) Task A320-A-92-XX-1144-01001-740A-A (A320-A-92-XX-1144-01ZZZ-740Z-A) Close-up
Job Set-Up Information
Manpower/Resources/Skills

Man-hours	2.75 h
Minimum Number of person	1
Elapsed Time	2.75 h

Referenced Information

Manuals/Drawings	References/Sheets
AMM	Task 28-24-51-400-001 Task 57-41-37-400-002 Task 57-41-37-400-003 Task 57-41-37-400-009

Procedure

- (a) Make sure that the work areas are clean and clear of tools and other items of equipment.
- (b) Do the close-up procedure as specified in the installation of the LP fuel valve actuator (FIN 10QG), refer to Ref. AMM Task 28-24-51-400-001.
- (c) Install the pressure relief panels (Panel 622XB and Panel 622YB) in the RH wing, refer to Ref. AMM Task 57-41-37-400-002.

- (d) Install the access panel (Panel 621BT) in the RH wing, refer to Ref. AMM Task 57-41-37-400-009.
- (e) Install the access panel (Panel 622AT) in the RH wing, refer to Ref. AMM Task 57-41-37-400-003.
- (f) Put the aircraft back to its initial configuration.

G. ADMINISTRATIVE**(1) Task A320-A-92-XX-1144-01001-90AA-A (A320-A-92-XX-1144-01ZZZ-90AZ-A)
Administrative****Procedure**

Confirm in the applicable aircraft records that you have completed all the work defined in this Service Bulletin task set as required.

APPENDIX**A. GLOSSARY**

Glossary

ACRONYM	FULL FORM
LP	Low Pressure
NEO	New Engine Option
P&W	Pratt & Whitney
RH	Right Hand

B. LIST OF PARTS IN BUNDLE

List of Parts in Bundle D9001095411796

PART No.	KEYWORD	QTY
EN3155-019F2018	CONTACT	2
NSA936501TA2004	TERMINAL LUG	2
NSA937210MB0200	SLEEVE	1
NSA937201MT0600	SLEEVE (FIN 4088VN)	1
EN2346-005A006	WIRE <u>NOTE:</u> Printed with Wire Number: 2824-4711.	2000 (mm)

NOTE: List of components in bundle PN D9001095411796 are provided loose not assembled.

C. REPORTING SHEET

TITLE:	ELECTRIC AND ELECTRONIC COMMON INSTALLATION - INTRODUCE IMPROVED 1M HARNESS ROUTING TO THE LOW PRESSURE SHUT OFF VALVE P&W
MODIFICATION No.:	168875J4769

(1) SB Reporting status

This Service Bulletin will only be incorporated into affected customized Maintenance and Flight Operations Products if it is duly reported to Airbus.

(2) GENERAL information

The SB Reporting policy is published in ISI 00.00.00135. This document provides information regarding: the SB Reporting means and benefits, the update of customized Maintenance Products and customized Flight Operations Products.

If this Service Bulletin has an operational impact, refer to paragraph "Flight Operations Products" for further information on the update of affected Flight Operations Products.

(3) SB Reporting procedure

Standard practice to report SB is to use the online reporting application on AirbusWorld.

Refer to ISI 00.00.00179:

- For complete information on reporting means to Airbus, Question 2 "What are the standard practices for SB Reporting?"
- If this SB requires previous or simultaneous accomplishment of other SBs, Question 3 "What about the reporting of prerequisite Service Bulletins?"

NOTE: ISI 00.00.00179 covers all the frequently asked questions about SB Reporting. It is revised on a regular basis.

D. QUALITY PERCEPTION FORM

Use this form to tell us what is your perception of the quality of this Service Bulletin.

The reported data that you provide us will be used to analyse areas of difficulties and to take corrective action to further improve the quality of our Service Bulletin.

We thank you for the time you have taken in completing this form.

Quality rating of this SB	4	3	2	1
Quality rating of the Accomplishment Instructions	4	3	2	1
Quality rating of the Illustrations	4	3	2	1
Is this SB easy to understand ?	Y / N			

NOTE: Please rate on a scale of 1 to 4, with 4 being the highest score

If you have difficulties in the accomplishment of this SB please quote below the area(s) and give a short description of the issue.

	Planning		Material		Instructions
X	Applicability	X	Tooling	X	Preparation
X	Reason	X	List of Materials Operator Supplied	X	Mod/Inspection
X	Manpower	X	Kit content	X	Test
X	References	X	Re-identification	X	Close-up
X	Publication			X	Illustrations
X	Industry Support				

Comments :

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