

RUSSIAN FEDERATION MINISTRY OF TRANSPORT OF THE RUSSIAN FEDERATION FEDERAL AIR TRANSPORTATION AGENCY

AIRWORTHINESS DIRECTIVE

February 06, 2019

№ 2019-322-01

Applicability - RRJ-95 aircraft

State of Manufacturer – Russian Federation

The corrective actions prescribed by this Airworthiness Directive are mandatory. No persons may operate an aircraft to which this Airworthiness Directive applies, except in accordance with the requirements of this Airworthiness Directive.

Due to reveal of cases of application of titanium semi-finished products of non-confirmed origin during production of components of RRJ-95 aircraft with further confirmation, according to the results of investigation performed by PJSC "VASO", of compliance of main chemical composition of received titanium semi-finished products with the alloy BT64 (OST 1 90013-81) and confirmation, based on the results of metallographic analysis, of compliance of the metal structure with TV 1814-012-075410017-2006 requirements, and taking into consideration that these items are not included in the «List of extra critical parts and extra critical design parameters of A/C RRJ-95» NoT7.92.0100.001.000.14/P

PROPOSE:

1.2.

1. In accordance with technical decision No. № RRJ0000-OR-470-2581/A dd 01.02.2019 (Decision) starting from 06.02.2019 during the next scheduled maintenance with minimum frequency of 750 FH, 100 days and equal to them to perform for once only the following maintenance tasks on operated fleet of RRJ-95 aircraft according to applicability and criteria of the subject of the inspection indicated in Table No. 10f the Decision:

- 1.1. Detailed Inspection of MLG doors ball socket and brackets IAW AMM 52-81-00-210-801;
 - Visual Inspection of the MLG Upper Door Link Brackets, Fixed Panel Door Link Brackets, Lower Door Rod Brackets, Inboard Door Brackets IAW AMM 52-81-00-210-801 (on AC without installed 3210-101 option) or General visual inspection of General Visual Inspection of the MLG Upper Door Link Brackets, Fixed Panel Door Link Brackets, Lower Door Rod Brackets, Inboard Door Bracket IAW AMM 52-81-00-210-802 (on AC with installed 3210-101 option).

2. Starting from 06.02.2019 during the next scheduled maintenance with basic frequency of 7500 FH, 6000 flights, 24 months or equal to them to perform for once only the following maintenance tasks on operated park of RRJ-95 aircraft according to applicability and criteria of the subject of the inspection indicated in Table No. 1 of the Decsion:

- 2.1. Detailed Inspection of the Aileron Root Spar IAW AMM 57-60-00-220-805.
- 2.2. Inspection of the Outboard Flap Skins and Ribs From the inside for the presence of damages IAW NDT 57-53-00-001. In order to perform the inspection remove only lower Access Door Covers IAW AMM 57-53-27-900-801. Do not remove hatches on rivets.
- 2.3. Special Detailed Inspection of the Outboard Flap Skins and Ribs From the Inside for the presence of damages IAW AMM 57-53-00-270-805.
- 2.4. Detailed Inspection of the Attachment Brackets and Actuator Brackets of the Flight Spoilers 1, 2, 3; IAW AMM 57-71-00-220-803.
- 2.5. Special Detailed Inspection of the actuator brackets and the middle hinge fittings of the flight spoiler sections 1, 2, 3 IAW AMM 57-71-00- 250-801.
- 2.6. Detailed Inspection of the Pylon Box Upper, Side, Forward, and Aft Parts, Including the Engine Mount Bolts IAW AMM P3 54-51-00-220-801.
- 2.7. Detailed Inspection of the Pylon Box Upper, Lower, Forward, and Aft Parts IAW AMM 54-51-00-220-802.
- 2.8. Detailed Inspection of the Aileron Links IAW AMM 57-60-00-220-801.
- 2.9. Detailed Inspection of the Attachment Brackets 1, 2, 3, 4 and Aileron Actuator Brackets 1,2 IAW AMM 57-60-00-220-804.
- 2.10. Detailed Inspection of the Lug Fillets and Attach Bolts of the Aileron Actuator Brackets IAW AMM 57-60-00-220-808.
- 2.11. Detailed Inspection of aileron hinge bracket lugs 1 and 2 IAW AMM 57-60-00-220-810 (provided via IL 57-0216-19 as advanced copy).
- 2.12. Detailed Inspection of hinge bracket aileron actuator IAW AMM 57-60-00-220-809 (provided via IL 57-0215-19 as advanced copy).
- 2.13. Detailed Inspection of the Aileron Root and End Ribs IAW cl. 2.13 of the Decision.

3. In case non-conformities are revealed after performance of cl.1-2 – to report to SCAC's Operation and Situation Center via <u>Customercare@scac.ru</u>.

4. For the main structural elements of RRJ-95 aircraft to adopt revision of Maintenance Planning Data and Airworthiness Limitation Section according to the requirements and applicability indicated in Table No. 2.

5. To follow the requirements of cl.4 until the update of maintenance documentation or other notifications from RRJ-95 aircraft Manufacturer.

Note: Applicability indicated in Tables No. 1 and 2 of the Decision is correlated with Aircraft Inspection Report (AIR) data. In case of changes introduced to the configuration of the aircraft mentioned in the Tables it is necessary to perform the following, but taking into consideration the corresponding AIR data:

1) In case of interchange of AC components between each other – to perform inspection of the corresponding component and, according to cl. 2, to provide inspection results and indicate AC MSN.

2) In case of replacement of the component – to inform SCAC by means of report, according to cl. 2.2, indicating the name of the component, AC MSN, date of replacement and provide support documentation confirming component quality installed instead of the other one.

With issuance of Airworthiness Directive No. 2019-322-01 to consider Airworthiness Directive No. 2018-322-08 to be no longer in force.

Attachment:

1. Technical Decision No.RRJ0000-OR-470-2581/A on 11 pages in 1 copy.

Deputy Director Federal Air Transportation Agency

A.A. Novgorodov

"APPROVED BY" SSJ Program Chief Designer SCAC V.N. Lavrov «01» of February 2019

1

TECHNICAL DECISION RRJ0000-OR-470-2581/A

on continued airworthiness of RRJ-95 aircraft due to application of titanium semifinished products of non-confirmed origin during production of components of RRJ-95 aircraft

In accordance with Technical Decision RRJ0000-OR-470-2581 cases of application of titanium semi-finished products of non-confirmed origin during production of components of RRJ-95 aircraft have been revealed (Compliance certificates for the metal are not confirmed by the metal Manufacturer - PSC VSMPO-AVISMA Corporation).

Taking into account the confirmation, based on the results of investigation performed by PJSC "VASO", of compliance of main chemical composition of received titanium semi-finished products with the alloy BT6s (OST 1 90013-81) and confirmation, based on the results of metallographic analysis, of compliance of the metal structure with TV 1814-012-075410017-2006 requirements, and taking into consideration that these items are not included in the «List of extra critical parts and extra critical design parameters of A/C RRJ-95» №T7.92.0100.001.000.14/P the following decision has been taken:

DECISION:

- Starting from 06.02.2019 during the next scheduled maintenance with minimum intervals of 750 FH, 100 days and equal to them to perform for once only the following maintenance tasks on operated fleet of RRJ-95 aircraft according to applicability and criteria of the subject of the inspection indicated in Table No. 1: 1.1. Detailed Inspection of MLG doors ball socket and brackets IAW AMM 52-81-00-210-801;
 - 1.2. Visual Inspection of the MLG Upper Door Link Brackets, Fixed Panel Door Link Brackets, Lower Door Rod Brackets, Inboard Door Brackets IAW AMM 52-81-00-210-801 (on AC without installed 3210-101 option) or General visual inspection of General Visual Inspection of the MLG Upper Door Link Brackets, Fixed Panel Door Link Brackets, Lower Door Rod Brackets, Inboard Door Bracket IAW AMM 52-81-00-210-802 (on AC with installed 3210-101 option)
- 2. Starting from 06.02.2019 during the next scheduled maintenance with basic intervals of 7500 FH, 6000 flights, 24 months or equal to them to perform for once only the following maintenance tasks on operated park of RRJ-95 aircraft

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according to applicability and criteria of the subject of the inspection indicated in Table No. 1:

- 2.1. Detailed Inspection of the Aileron Root Spar IAW AMM 57-60-00-220-805;
- 2.2. Inspection of the Outboard Flap Skins and Ribs From the inside for the presence of damages IAW NDT 57-53-00-001. In order to perform the inspection remove only lower Access Door Covers IAW AMM 57-53-27-900-801. Do not remove hatches on rivets.
- 2.3. Special Detailed Inspection of the Outboard Flap Skins and Ribs From the Inside for the presence of damages IAW AMM 57-53-00-270-805;
- 2.4. Internal Detailed Inspection of the Attachment Brackets and Actuator Brackets of the Flight Spoilers 1, 2, 3; IAW AMM 57-71-00-220-803;
- 2.5. Special Detailed Inspection of the actuator brackets and the middle hinge fittings of the flight spoiler sections 1, 2, 3 IAW AMM 57-71-00-250-801;
- 2.6. Detailed Inspection of the Pylon Box Upper, Side, Forward, and Aft Parts, Including the Engine Mount Bolts IAW AMM 54-51-00-220-801;
- 2.7. Detailed Inspection of the Pylon Box Upper, Lower, Forward, and Aft Parts IAW AMM 54-51-00-220-802.
- 2.8. Detailed Inspection of the Aileron Links IAW AMM 57-60-00-220-801;
- 2.9. Detailed Inspection of the Attachment Brackets 1, 2, 3, 4 and Aileron Actuator Brackets 1,2 IAW AMM 57-60-00-220-804;
- 2.10. Detailed Inspection of the Lug Fillets and Attach Bolts of the Aileron Actuator Brackets IAW AMM 57-60-00-220-808.
- 2.11. Detailed Inspection of aileron hinge bracket lugs 1 and 2 IAW AMM 57-60-00-220-810 (provided via IL 57-0216-19 as advanced copy).
- 2.12. Detailed Inspection of hinge bracket aileron actuator IAW AMM 57-60-00-220-809 (provided via IL 57-0215-19 as advanced copy).
- 2.13. Detailed Inspection of the Aileron Root and End Ribs IAW IL 57-0058-19 rev. 00.
- **3.** In case non-conformities are revealed after performance of cl.1-2 to report to SCAC's Operation and Situation Center via Customercare@scac.ru.
- 4. For the main structural elements of RRJ-95 aircraft to adopt revision of Maintenance Planning Data and Airworthiness Limitation Section according to the requirements and applicability indicated in Table No. 2.
- **5.** To follow the requirements of cl.4 until the update of maintenance documentation or other notifications from RRJ-95 aircraft Manufacturer.
- **6.** Alternative consumables for performance of tasks specified in this Decision are indicated in IL 00-0094-19 rev. 00.

NOTE: Applicability indicated in Tables No. 1 and 2 is correlated with Aircraft Inspection Report (AIR) data. In case of changes introduced to the configuration

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of the aircraft mentioned in the Tables it is necessary to perform the following, but taking into consideration the corresponding AIR data:

- In case of interchange of AC components between each other to perform inspection of the corresponding component and, according to cl. 2, to provide inspection results and indicate AC MSN;
- 2) In case of replacement of the component to inform SCAC by means of report, according to cl. 2.2, indicating the name of the component, AC MSN, date of replacement and provide support documentation confirming component quality installed instead of the other one.

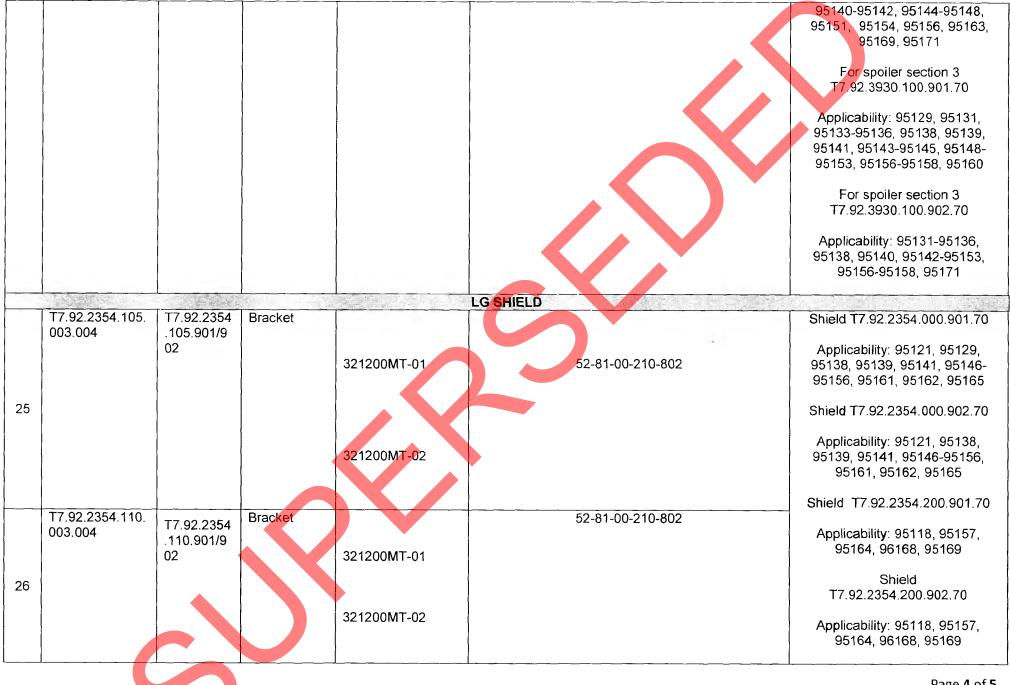
Upon receipt of the date mentioned above a decision of amendment of Table No. 2 will be taken.

Attachment: 1) Table No. 1 on 5 pages in 1 copy;2) Table No. 2 on 3 pages in 1 copy.

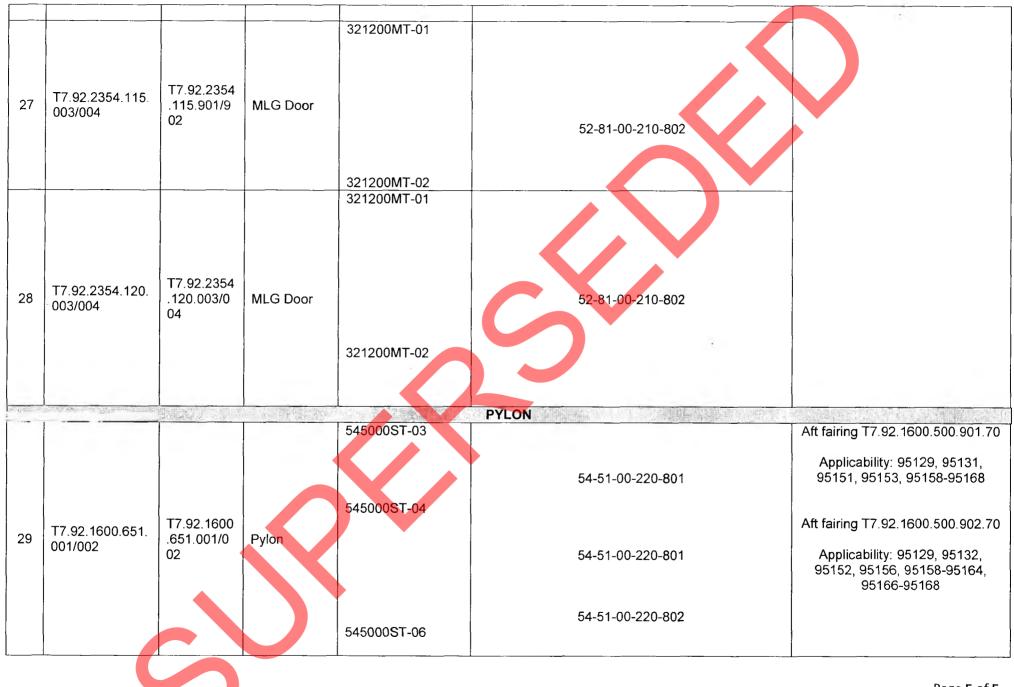
	AMM task number	Task Description	Task number in MPD/ATA 04	Description	Assembly Name	Part name	Nº		
AILERON									
-	For aileron 17.92.3500.100.901.70	57-60-00-220-801	576000ST-03	Link	T7.92.3500 .060.000	T7.92.3500.051. 000	1		
	Applicability: 95118-95144, 95146, 95148-95153, 95155	57-60-00-220-801	576000ST-03	Link	T7.92.3500 .065.901/90 2	T7.92.3500.052. 001/002	2		
	95161, 95164, 95166-95172 95174-95177	57-60-00-220-801	576000ST-03	Link	T7.92.3500 .070.000	T7.92.3500.053. 000	3		
		57-60-00-220-801	576000ST-03	Link	T7.92.3500 .075.000	T7.92.3500.054. 000	4		
	For aileron T7.92.3500.100.902.70	57-60-00-220-805	576000ST-01	Spar	T7.92.3500 .880.901/90 2	T7.92.3500.056. 001/002	5		
Applicability: 95118-95144, 95146-95153, 95158, 95164, 95165, 95167-95177		57-60-00-220-804 (and ref. to IL 57-0058-19)	576000ST-02	Bracket	T7.92.3500 .090.901/90 2	T7.92.3500.057. 001/002	6		
		57-60-00-220-804 (and ref. to IL 57-0058-19)	576000ST-02	Bracket	T7.92.3500 .110.	T7.92.3500.057. 001/002	7		
		57-60-00-220-804 (and ref. to IL 57-0058-19)	576000ST-02	Bracket	T7.92.3500 .110.	T7.92.3500.057. 001/002 T7.92.3500.058. 001/002	8		
		57-60-00-220-804 (and ref. to IL 57-0058-19)	576000ST-02	Bracket	T7.92.3500 .095.901/90 2	T7.92.3500.058. 001/002	9		
		57-60-00-220-805	576000ST-01	Bracket	T7.92.3500 .095.901/90 2	T7.92.3500.058. 001/002	10		
		57-60-00-220-808	041200A-087E	Spar	T7.92.3500 .056.001/00 2	T7.92.3500.056. 001/002	12		
		57-60-00-220-810 (provided via IL 57-0216-19 as advanced copy)	will be implemented in issue 2, rev.5 section 04 cl. № 176, December, 2018	Spar	T7.92.3500 .056.001/00 2	T7.92.3500.056. 001/002	13		

14	T7.92.3500.056. 001/002	T7.92.3500 .056.001/00 2	Spar	will be implemented in issue 2, rev.5 section 04 cl. № 175, December, 2018	57-60-00-220-809 (provided via IL 57-0215-19 as advanced copy)	
				ουτ	BOARD FLAP	
15	T7.92.3702.011. 000	T7.92.3702 .010.000	fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	For outboard flap T7.92.3702.000.901.70
16	T7.92.3702.012. 001/002	T7.92.3702 .012.001/0 02	fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	Applicability: 95123-95126, 95128-95142, 95147, 95148, 95150, 95152-95154, 95161,
17	T7.92.3702.013. 001/002	T7.92.3702 .013.001/0 02	fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	95165, 95166, 95171-95174, 95176, 95177
18	T7.92.3702.021. 000	T7.92.3702 .021.000	fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	For outboard flap T7.92.3702.000.902.70
19	T7.92.3702.023. 001/002	T7.92.3702 .023.001/0 02	fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	Applicability: 95123-95126, 95128-95142, 95144, 95146- 95148, 95150, 95151, 95154, 95155, 95165, 95167, 95170- 95175, 95177
					ILG DOOR	
20	T7.92.0940.111. 000	T7.92.0940 .111.000	Ball socket, bracket	323000MT-04	32-32-20-220-801	For MLG door T7.92.0940.100.901.70 Applicability: 95133-95139, 95143, 95144, 95146, 95148,
21	T7.92.0940.121. 001/002	T7.92.0940 .120.901/9	Bracket	321200MT-01	52-81-00-210-801	95143, 95144, 95146, 95146, 95149, 95153, 95160, 95173, 95177 For MLG door T7.92.0940.100.902.70
	0011002	02		321200MT-02		Applicability: 95133-95136, 95138, 95139, 95141, 95143,





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Nº	Part name	Descriptio n	Task number in MPD/ATA 04	AMM task number	Threshold for work commence ment	Interval	AC MSN
15				AILERON			一种花带 建合金
1	T7.92.3500.051.000	Link	576000ST-03	57-60-00-220-801	3000 FC; 2 YE	1500 FC; 2 YE	For aileron T7.92.3500.100.901.70
2	T7.92.3500.052.001/002	Link	576000ST-03	57-60-00-220-801	3000 FC; 2 YE	1500 FC; 2 YE	Applicability: 95118-95144
3	T7.92.3500.053.000	Link	576000ST-03	57-60-00-220-801	3000 FC; 2 YE	1500 FC; 2 YE	95146, 95148-95153, 95155, 95161, 95164,
4	T7.92.3500.054.000	Link	576000ST-03	57-60-00-220-801	3000 FC; 2 YE	1500 FC; 2 YE	95166-95172, 95174-9517
5	T7.92.3500.056.001/002	Spar	576000ST-01	57-60-00-220-805	6000 FC; 8 YE	6000 FC; 8 YE	- For aileron
6	T7.92.3500.057.001/002	Bracket	576000ST-02	57-60-00-220-804	6000 FC; 4 YE	6000 FC; 4 YE	T7.92.3500.100.902.70
7	T7.92.3500.057.001/002	Bracket	576000ST-02	57-60-00-220-804	6000 FC; 4 YE	6000 FC; 4 YE	Applicability: 95118-95144 95146-95153, 95158,
8	T7.92.3500.057.001/002 T7.92.3500.058.001/002	Bracket	576000ST-02	57-60-00-220-804	6000 FC; 4 YE	6000 FC; 4 YE	95164, 95165, 95167- 95177
9	T7.92.3500.058.001/002	Bracket	576000ST-02	57-60-00-220-804	6000 FC; 4 YE	6000 FC; 4 YE	-
10	T7.92.3500.058.001/002	Bracket	576000ST-01	57-60-00-220-805	6000 FC; 8 YE	6000 FC; 8 YE	
11	T7.92.3500.056.001/002	Spar	041200A-087E	57-60-00-220-808	3000 FC;	1000 FC;	-
12	T7.92.3500.056.001/002	Spar	will be implemented in issue 2, rev.5 section 04 cl. № 176, December, 2018	57-60-00-220-810	3000 FC;	1000 FC;	
13	T7.92.3500.056.001/002	Spar	will be implemented in issue 2, rev.5 section 04 cl. № 175, December, 2018	57-60-00-220-809	3000 FC;	1000 FC;	
			· · · · · · · · · · · · · · · · · · ·	OUTBOARD FLAP	The second second		
14	T7.92.3702.011.000	Fitting	575000ST-12		6000 FC; 8 YE	6000 FC; 8 YE	For outboard flap T7.92.3702.000.901.70
							Page 1 of 3

N₽	Part name	Descriptio n	Task number in MPD/ATA 04	AMM task number	Threshold for work commence ment	Interval	AC MSN
				57-53-00-270-805, NDT 57-53-00-001			Applicability: 95123-95126,
15	T7.92.3702.012.001/002	Fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	6000 FC; 8 YE	6000 FC; 8 YE	95128-95142, 95147, 95148, 95150, 95152- 95154, 95161, 95165, 95166, 95171-95174,
16	T7.92.3702.013.001/002	Fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	6000 FC; 8 YE	6000 FC; 8 YE	95176, 95177 For outboard flap
17	T7.92.3702.021.000	Fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	6000 FC; 8 YE	6000 FC; 8 YE	T7.92.3702.000.902.70 Applicability: 95123-95126, 95128-95142, 95144,
18	T7.92.3702.023.001/002	Fitting	575000ST-12	57-53-00-270-805, NDT 57-53-00-001	6000 FC; 8 YE	6000 FC; 8 YE	95146-95148, 95150, 95151, 95154, 95155, 95165, 95167, 95170- 95175, 95177
11.1111	In all selections of the			SPOILERS SECTION 1,2,3	No a Social States	翻算器系统全卫	
19	T7.92.3910.131.001/002	Bracket	577000ST-02	57-71-00-220-803	3000 FC; 4500 FH	500FC 750FH	For spoiler section 1 T7.92.3910.100.901.70
10	17.52.5510.151.6617662	Diacket	041200A-097C	57-71-00-250-801	6000 FC; 9000 FH	1000 FC; 1500 FH	Applicability: 95130, 95134-
20	T7 02 2020 424 001/002		577000ST-02	57-71-00-220-803	3000 FC; 4500 FH	500FC 750FH	95137, 95141-95144, 95146-95152, 95155
20	T7.92.3920.131.001/002	Bracket	041200A-097C	57-71-00-250-801	6000 FC; 9000 FH	1000 FC; 1500 FH	For spoiler section 1
			577000ST-02	57-71-00-220-803	3000 FC; 4500 FH	500FC 750FH	T7.92.3910.100.902.70
21	T7.92.3930.131.001/002	Bracket	041200A-097C	57-71-00-250-801	6000 FC; 9000 FH	1000 FC; 1500 FH	Applicability: 95131-95134, 95136, 95137, 95142- 95144, 95147-95152,

Nº	Part name	Descriptio n	Task number in MPD/ATA 04	AMM task number	Threshold for work commence ment	AC MSN
						95154, 95168, 95170
						For spoiler section 2 T7.92.3920.100.901.70
						Applicability: 95131-95135, 95137, 95138, 95142- 95151, 95154, 95156
						For spoiler section 2 T7.92.3920.100.902.70
				5		Applicability: 95131, 95132, 95134, 95135, 95137, 95138, 95140-95142, 95144-95148, 95151, 95154, 95156, 95163, 95169, 95171
						For spoiler section 3 T7.92.3930.100.901.70
-						Applicability: 95129, 95131, 95133-95136, 95138, 95139, 95141, 95143- 95145, 95148-95153, 95156-95158, 95160
						For spoiler section 3 T7.92.3930.100.902.70
						Applicability: 95131-95136, 95138, 95140, 95142- 95153, 95156-95158, 95171
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