

SERVICE BULLETIN

TS-S37

Safety Recall / NHTSA Campaign # 13V - 250



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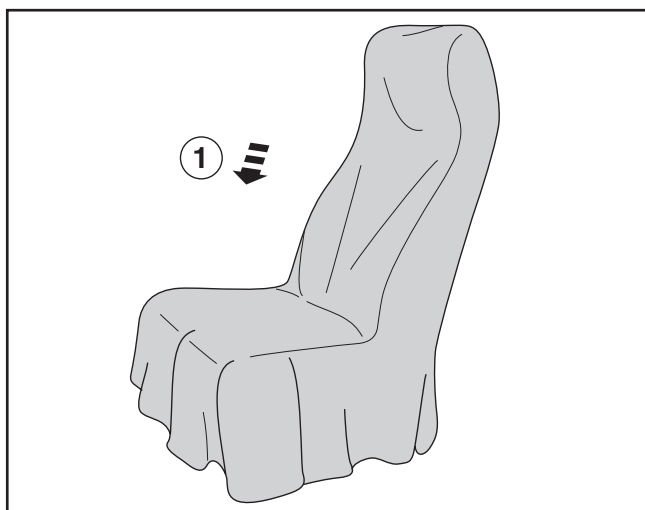
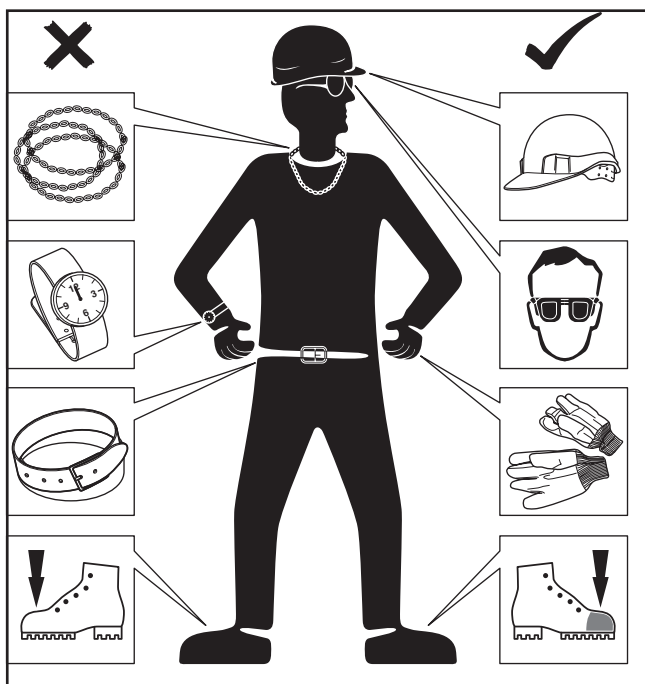
00 Foreword

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1. General Precautions

Please read the rules in this Section carefully; to avoid the risk of death, injury or property damage. Qualified and trained technicians should use The Service Bulletin. Making repairs or service without the adequate training and using inappropriate tools and equipment may cause injury and could damage the bus. Some of the procedures require specific tools designed for specific purposes, so use the tools mentioned in the manual when necessary.

Bus service and repair must be done correctly following the instructions to ensure the safety of the service technician and correct function of the bus. If a part must be replaced, the same part number or an equivalent part should be used. Pay great attention to use a replacement part of good quality.



2. Symbol List

Operating Instructions in this bulletin includes the following symbols, warning words and signs:



CAUTION

This symbol is used in conditions which may cause damage or injury if necessary measures are not taken.



WARNING

This symbol is used in conditions which may cause severe damage or fatal injury if necessary measures are not taken.



DANGER

This symbol is used to indicate danger.



VISUAL INSPECTION

This symbol is used to inform the user that a visual inspection is necessary.

3. Before Start of Work

3.1. Mechanical Requested Dress Code

Always wear protective clothing. Do not wear any damaged or loose-fitting clothing and remove jewelry before starting the work. In case of long hair use hairnet. The illustration below shows some of the correct on incorrect clothing that should be worn during work.

Sharp edges should be avoided e.g belts, watches, necklaces to prevent catching the vehicle.



WARNING

Dress correctly to avoid injury and damage to the vehicle.

3.2. Protect Seats When Mechanics Start Working

1. Seats, trimming, upholstery stuff and carpeting should be protected with appropriate coverings.

NOTE

Service bulletin expiry dates differ according to service bulletin type.

Definitions

Release Date: As of this date the bulletin is released and available on E-Doc. Modification parts can be ordered. The time period between the release date and the effective date may vary according to the procurement lead time.

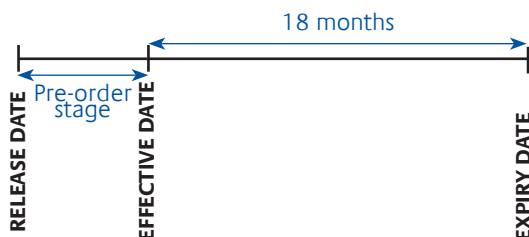
Effective Date: As of this date specified amount of the total modification parts will be available on Spare Parts Stock. Modification parts can be ordered and the application can be performed. (except non-compliance and safety related campaigns, i.e. S-Type Bulletin)

Part Order Deadline: Last order date for modification parts. The part orders which will be placed after this date should be approved by Regional Coordinator.

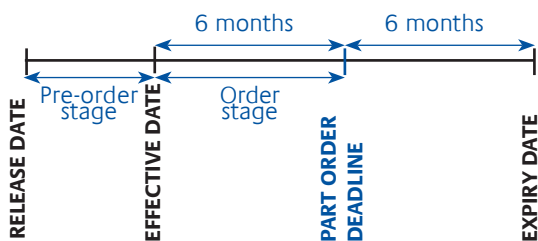
Expiry Date: Expiration date for the application.

Bulletin Types

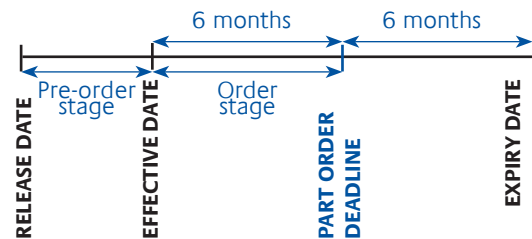
- **S-Type:** Application period of this bulletin is 18 months after the date of issue.



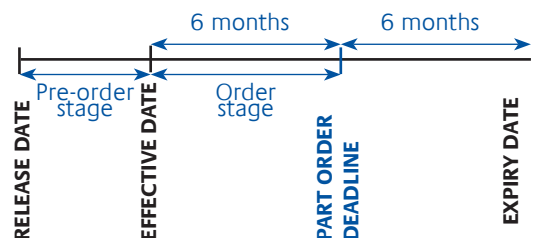
- **U-Type :** Application period of this bulletin is 12 months after the date of issue.



- **C-Type:** Application period of this bulletin is 12 months after the date of issue.



- **M-Type:** Application period of this bulletin is 12 months after the date of issue.

**IMPORTANT**

For reimbursement, all costs of modification should be claimed within 1 month from the application date.

01 Bulletin Information

Bulletin Type Service Campaign (Safety Recall)
Bulletin No TS-S37
Bulletin Reference No 700002154
Rev No 00
Release Date 08.07.2013
Effective Date 08.07.2013
Expiry Date 08.01.2015
Vehicle Model TS35C - TS30
Flat Rate Code TS-S37
Flat Rate Time 480 Minutes



NOTE

RECALL CAMPAIGN # 13V - 250

SUBJECT

Seat Bolts Replacement

SUMMARY

This Bulletin is released to demonstrate the replacement of seat connection parts (bolt, nut, washer plain, washer spring) of TS30 & TS35C vehicles.

Prepared by Emrah Öner

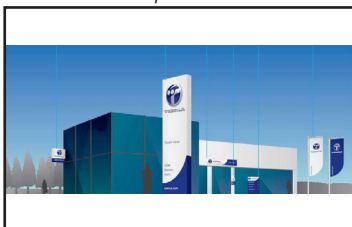
Approved by Osman Dündar

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Authorised Service Centre



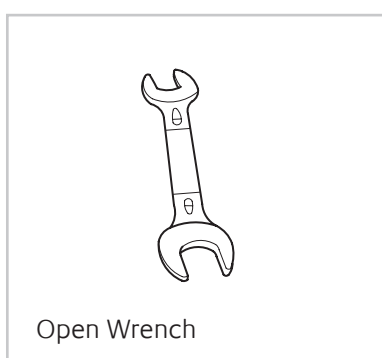
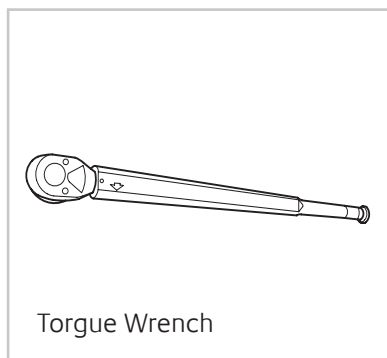
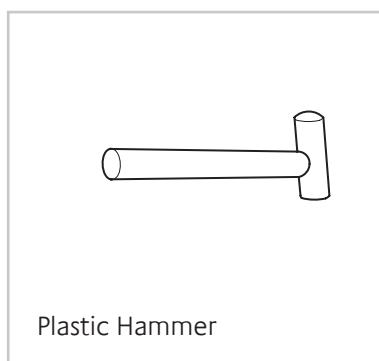
02 Tools

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1. General

- If work is performed by people who do not have the necessary training to carry out the work or if this information is handled carelessly or totally ignored, this may result in severe injury and/or death. In addition, serious damage to the vehicle may occur.
- Always read the safety instructions in full before starting certain operations. The safety instructions stipulate which aspects must be considered to achieve maximum safety. The information is given that is very important for health and safety.
- Always work in adequately ventilated rooms with sufficient lighting, free from dirt and clutter. Never leave tools or parts lying around, keep away from (high-) voltage sources that present a risk of short-circuiting. Always wear protective clothing. Do not wear any damaged or loose-fitting clothing and remove jewelry before starting the work. In case of long hair use hairnet.
- Tool list below is a recommended list. It is not a must to use the exact same tools.

2. Tools (Recommended)



03 Parts List

Installed Part List

	Part No	Part Name	Qty.	
1	9101-113Y	BOLT, SEAT RAIL BOLT	***	
2	TF430122Y	NUT, HEX (M10X1,25) K:10	***	
3	MF450155Y	WASHER PLAIN (10)	***	
4	MF450406Y	WASHER, SPRING (10)	***	

*** SEE QUANTITY TABLE BELOW

QUANTITY TABLE

	Number of Bolts, Nuts, Plain & Spring Washer to be Replaced	
Number of Seats	TS30	TS35C
21+1	N/A	65
30	89	N/A
34	101	N/A
36	106	92
38	N/A	97
40	N/A	102

Excluded Part List

	Part No	Part Name	Qty.	
1	RP296101Y	T-BOLT SEAT RAIL (TS35C)	***	
2	RP290110Y	T-BOLT SEAT RAIL (TS30)	***	
3	BSMB10010B30Y	NUT, HEX (M10X1,25) K:8	***	
4	MF450273Y	WASHER, PLAIN (A 10,5)	***	

*** SEE QUANTITY TABLE ABOVE

04 Technical Instructions



Do not remove the seats from the bus to the outside, after unscrewing the screws keep the seats in their own position.



Door side first row seats installation must not be replaced on following three buses NLTRPPR76D1000142, NLTRPPR75D1000147, NLTRPPR77D1000148.



Photo 1

1. Remove the rail covers from the seat rail on the floor.



Photo 2

2. Remove the screw cover from the seat leg attached on the floor.



Photo 3

3. Remove seat cushions by pulling the front lower side.



Photo 4

4. Remove side wall seat rail bolt covers. Different covers are used for TS30 & TS35C, both of which can easily be removed by hand.



Photo 5



Photo 6

5. Remove blind caps of nuts with the help of a screwdriver.



Photo 7

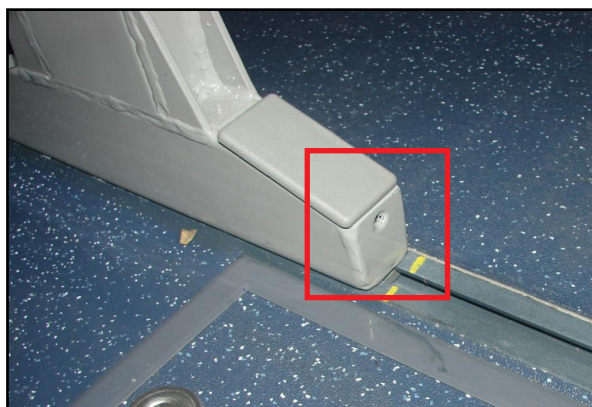


Photo 8

6. Make markings on the floor or the side wall so that you can protect seats from sliding and consequently losing their initial positions.



This process is of vital importance in terms of seat locations

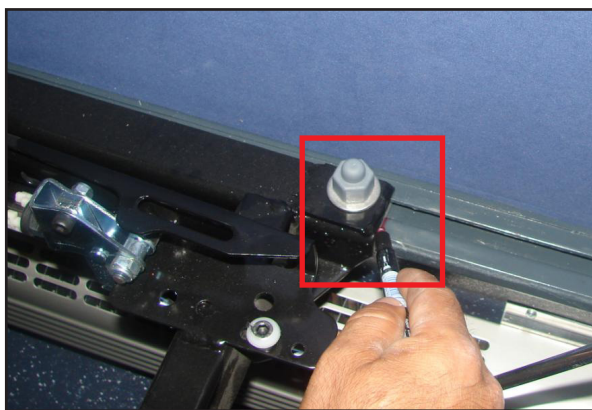


Photo 9

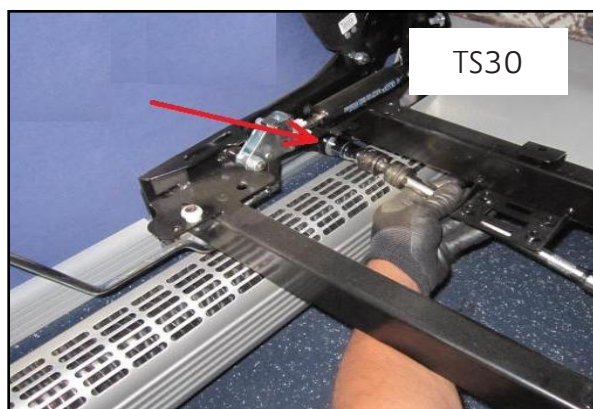


Photo 9

7. Unscrew the bolts and nuts on the sidewall.



Photo 10



Photo 11

8. Unscrew the seat connection bolts and nuts on the floor.



Photo 12

9. Lift the seats and slide the connection bolts through the rail towards the rear end after unscrewing the seat connection elements.



Photo 13



Photo 14

10. The process of sliding the T Bolts on the side wall must be started from front seats first and must be proceeded towards the rear seats. Then T Bolts at the very rear side of rails could be removed.

* Sliding the side wall connection bolts.



Photo 15

* Removing the side wall connection bolts.



Photo 16

11. The process of sliding the T Bolts on the floor must be started from the front seats first and must be proceeded towards the rear seats. Then bolts at the very rear side of rails could be removed.

* Sliding the connection bolts on the floor.

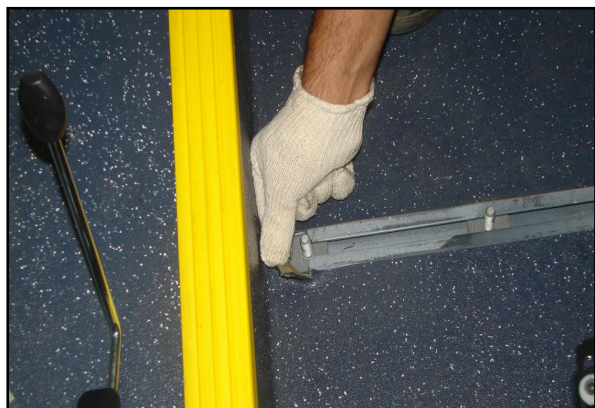


Photo 17

* Removing the floor connection bolts.

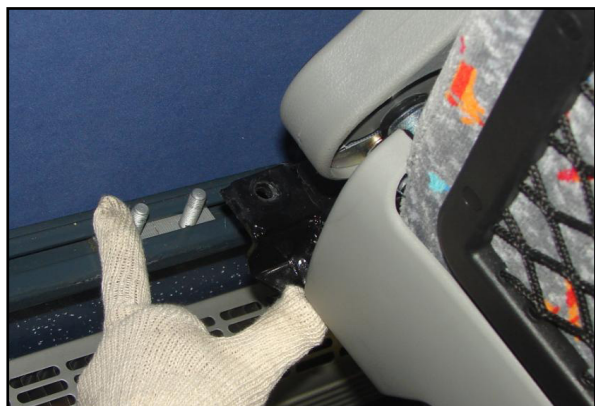


Photo 18

12. Insert new bolts just as many as those removed old bolts. And then, First insert side wall connection elements of seats into the bolts.



Make sure 10.9 quality T-Bolts and 10 quality nuts are used.



Replaced T-Bolts and nuts must be scrapped.



Assembly sequence:
First install the bolt then add washer on it, after that put the spring washer and finally screw the nut.

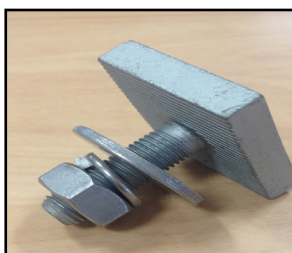


Photo 19



Photo 20



Photo 21



Photo 22

13. Secondly, insert the bolts attached on the floor into the seat legs.



Photo 23



Photo 24

14. Slide and locate the seats according to markings that you already made **to locate the seats in their original position which is extremely important. Be sure that they are located in their original position** after inserting the bolts' side wall and seat bottom connections. Start tightening the nuts with side wall connections.



Photo 25

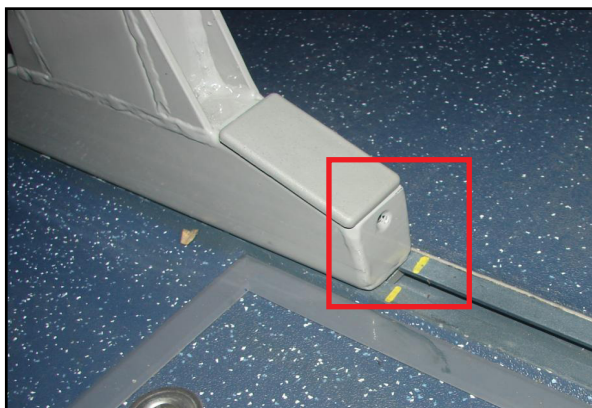


Photo 26



Photo 27

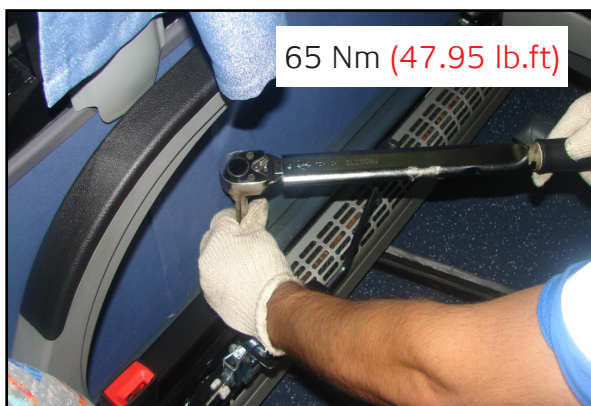


Photo 28



Apply a 65 Nm (47.95 lb.ft) torque to all the bolts and nuts after tightening process. (This process is of vital importance for safety reasons)

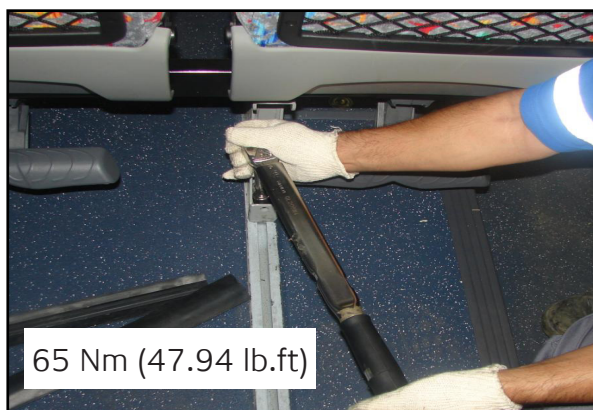


Photo 29



Photo 30

16. Insert screw covers and tighten the screws on the seat legs after the previous tightening and torquing process.



Photo 31



Photo 32

17. Insert rail covers back on the floor.



Photo 33

18. Insert the blind caps of side wall bolts and nuts back.

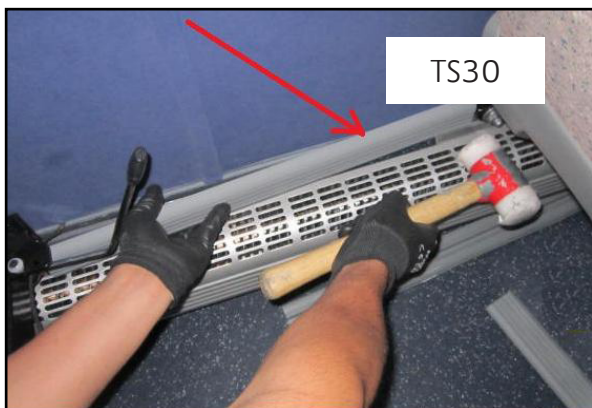


Photo 34

19. Insert the side wall rail covers back.



Photo 35



Photo 36

20 . The whole process is completed by inserting seat cushions back.

05 Affected Vehicle List

TS35C Vehicle list.

	VIN.	COUNTRY		VIN.	COUNTRY
1	NLTRPPU74D1000003	USA	27	NLTRPPR71D1000100	USA
2	NLTRPPR70B1000005	USA	28	NLTRPPR71D1000114	USA
3	NLTRPPR70C1000006	USA	29	NLTRPPR71D1000128	USA
4	NLTRPPR70C1000023	USA	30	NLTRPPR71D1000131	USA
5	NLTRPPR70C1000037	USA	31	NLTRPPR71D1000145	USA
6	NLTRPPR70C1000040	USA	32	NLTRPPR71D1000159	USA
7	NLTRPPR70C1000054	USA	33	NLTRPPR71D1000162	USA
8	NLTRPPR70C1000068	USA	34	NLTRPPR72B1000006	USA
9	NLTRPPR70C1000071	USA	35	NLTRPPR72C1000007	USA
10	NLTRPPR70D1000086	USA	36	NLTRPPR72C1000010	USA
11	NLTRPPR70D1000105	USA	37	NLTRPPR72C1000024	USA
12	NLTRPPR70D1000119	USA	38	NLTRPPR72C1000038	USA
13	NLTRPPR70D1000122	USA	39	NLTRPPR72C1000041	USA
14	NLTRPPR70D1000136	USA	40	NLTRPPR72C1000055	USA
15	NLTRPPR70D1000153	USA	41	NLTRPPR72C1000069	USA
16	NLTRPPR70D1000167	USA	42	NLTRPPR72C1000072	USA
17	NLTRPPR70D1000170	USA	43	NLTRPPR72D1000087	USA
18	NLTRPPR71C1000001	USA	44	NLTRPPR72D1000090	USA
19	NLTRPPR71C1000015	USA	45	NLTRPPR72D1000106	USA
20	NLTRPPR71C1000029	USA	46	NLTRPPR72D1000123	USA
21	NLTRPPR71C1000032	USA	47	NLTRPPR72D1000137	USA
22	NLTRPPR71C1000046	USA	48	NLTRPPR72D1000140	USA
23	NLTRPPR71C1000063	USA	49	NLTRPPR72D1000154	USA
24	NLTRPPR71C1000077	USA	50	NLTRPPR72D1000168	USA
25	NLTRPPR71C1000080	USA	51	NLTRPPR72D1000171	USA
26	NLTRPPR71C1000094	USA	52	NLTRPPR73B1000001	USA

	VIN.	COUNTRY
53	NLTRPPR73C1000002	USA
54	NLTRPPR73C1000016	USA
55	NLTRPPR73C1000033	USA
56	NLTRPPR73C1000047	USA
57	NLTRPPR73C1000050	USA
58	NLTRPPR73C1000064	USA
59	NLTRPPR73C1000078	USA
60	NLTRPPR73C1000081	USA
61	NLTRPPR73C1000095	USA
62	NLTRPPR73D1000082	USA
63	NLTRPPR73D1000101	USA
64	NLTRPPR73D1000115	USA
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66	NLTRPPR73D1000132	USA
67	NLTRPPR73D1000146	USA
68	NLTRPPR73D1000163	USA
69	NLTRPPR74B1000007	USA
70	NLTRPPR74B1000010	USA
71	NLTRPPR74C1000008	USA
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76	NLTRPPR74C1000056	USA
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	VIN.	COUNTRY
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185	NLTRPPR7XD1000161	USA
186	NLTRPPU72D1000002	USA

TS30 Vehicle list.

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3	NLTAPLR50D1000030	USA
4	NLTAPLR50D1000044	USA
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8	NLTAPLR51D1000019	USA
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28	NLTAPLR54D1000032	USA
29	NLTAPLR54D1000046	USA
30	NLTAPLR54D1000080	USA
31	NLTAPLR55D1000007	USA
32	NLTAPLR55D1000010	USA
33	NLTAPLR55D1000024	USA
34	NLTAPLR55D1000038	USA
35	NLTAPLR55D1000041	USA

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70	NLTAPLR5XD1000052	USA



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