

VEHICLE RECALL

**G-05508 R1
November 2005**

**SUBJECT: SAFETY RECALL (U.S., EXPORT)
DRIVELINE on certain RE School and Commercial Bus
models with IROS Suspension built between 01-28-2003
and 03-09-2005**

REVISION DESCRIPTION

Information regarding adjusting the axle travel has been added to the end of the Service Procedure section (just below figure 1).

DEFECT DESCRIPTION

Excessive suspension travel may cause the u-joint straps or strap bolts on either end of the driveshaft to fail as a result of the high working angle. Failure of the u-joint straps will cause part or all of the driveshaft to fall off the bus. This may result in **property damage, personal injury or death.**

MODELS INVOLVED

This recall involves certain RE School and Commercial Bus models with IROS Suspension built between 01-28-2003 and 03-09-2005.

PARTS INFORMATION

The parts required are VIN specific and are listed in Table 3 (at end of document).

SERVICE PROCEDURE

The repair procedure required is dependent on the VIN of the bus. Only charges for the labor and parts that each VIN **requires** will be honored. See attached VIN list (Table 3) for repair variation required.

One of the following 5 repairs will be completed. These variations are VIN specific.

VARIATION 1 A REPLACE AXLE STOPS, REPLACE SHOCKS, REVERSE ORIENTATION OF DRIVESHAFT (TURN END FOR END) & REPLACE U-JOINT STRAPS.

VARIATION 1 B REPLACE AXLE STOPS, REPLACE SHOCKS, REPLACE DRIVESHAFT & REPLACE U-JOINT STRAPS.

VARIATION 2 A REPLACE SHOCKS, REVERSE ORIENTATION OF DRIVESHAFT (TURN END FOR END) & REPLACE U-JOINT STRAPS.

VARIATION 2 B REPLACE SHOCKS, REPLACE DRIVESHAFT & REPLACE U-JOINT STRAPS.

VARIATION 3 REPLACE DRIVESHAFT & REPLACE U-JOINT STRAPS

Driveshaft...the correct **new** orientation is

Stub shaft = Male end: goes on axle end

Slip shaft = Female end: goes on transmission end

Not all VINs will have the driveshaft replaced. All VINs will have the **driveshaft orientation changed OR the driveshaft replaced**. The orientation described above should be the **final** orientation of the driveshaft.

Strap Kit...because the current driveshaft will be removed in all cases, all VINs will require the straps and strap bolts to be replaced. The correct strap kit will be determined by the current driveshaft if the driveshaft is re-oriented or by the new driveshaft if the driveshaft is replaced.

Shocks...these are the same for all VINs, which require shock replacement. Remember that the repair variation is VIN specific and not all VINs require new shocks. If this VIN also needs to have **AFC 04909** performed and it has not been completed yet, the shock part number installed in **this recall supersedes** the shock part number installed in **AFC 04909**. If AFC 04909 has been completed, the shocks must still be replaced.

Axle Stops...these are the same for all VINs, which require axle stop replacement. Remember that the repair variation is VIN specific and not all VINs will require new axle stops.



WARNING:

TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN YOU PERFORM VEHICLE MAINTENANCE OR SERVICE.



WARNING:

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH WHEN SERVICING THE VEHICLE, PARK ON A FLAT LEVEL SURFACE, SET THE PARKING BRAKE, TURN THE ENGINE OFF AND CHOCK THE WHEELS.

It is not necessary to jack the bus up to complete these procedures.
BE SURE to use the new nuts or bolts that are supplied in the kits.

Table 1 –Strap Kit Required and Torque Value for Strap Bolts

<i>Driveshaft Series</i>	<i>Driveshaft ID</i>	<i>Strap Kit P/N</i>	<i>Torque Spec</i>
SPL90	0259Dxxxxxx	2035772C91	50-60 LbF-Ft (68-81 Nm)
1610	0260Dxxxxxx	2035773C91	50-60 LbF-Ft (68-81 Nm)
1710	0270Dxxxxxx	2035774C91	115-135 LbF-Ft (156-183 Nm)

REORIENT DRIVESHAFT & REPLACE STRAPS

1. Check the orientation of the driveshaft before performing this step.
2. Remove u-joint strap bolts and strap at one end of the driveshaft.
3. Remove u-joint strap bolts and strap at other end of the driveshaft.
4. Reverse the driveshaft orientation end-for-end and attach using **new** straps and **new** bolts. The driveshaft should now be oriented as follows:
Stub shaft = Male end: goes on axle end
Slip shaft = Female end: goes on transmission end
5. Tighten the u-joint strap bolts with a torque wrench according to **Table 1** based on the existing driveshaft part number.

REPLACE DRIVESHAFT & REPLACE STRAPS

1. Remove u-joint strap bolts and strap at one end of the driveshaft.
2. Remove u-joint strap bolts and strap at the other end of the driveshaft.
3. Attach new driveshaft using **new** straps and **new** bolts. The driveshaft will now be oriented as follows:
Stub shaft = Male end: goes on axle end
Slip shaft = Female end: goes on transmission end
4. Tighten the u-joint strap bolts with a torque wrench according to **Table 1** based on the new driveshaft part number.

REPLACE SHOCKS

1. Remove left shock and replace with new shock using new bolts.
2. Torque left shock bolt to **148 - 177 LbF-Ft** (200-240 Nm) using a torque wrench.
3. Remove right shock and replace with new shock using new bolts.
4. Torque right shock bolt to between **148 - 177 LbF-Ft** (200-240 Nm) using a torque wrench.

REPLACE LEFT AXLE STOP – Refer to Figure 1 below. *Please read note about axle below Figure 1.

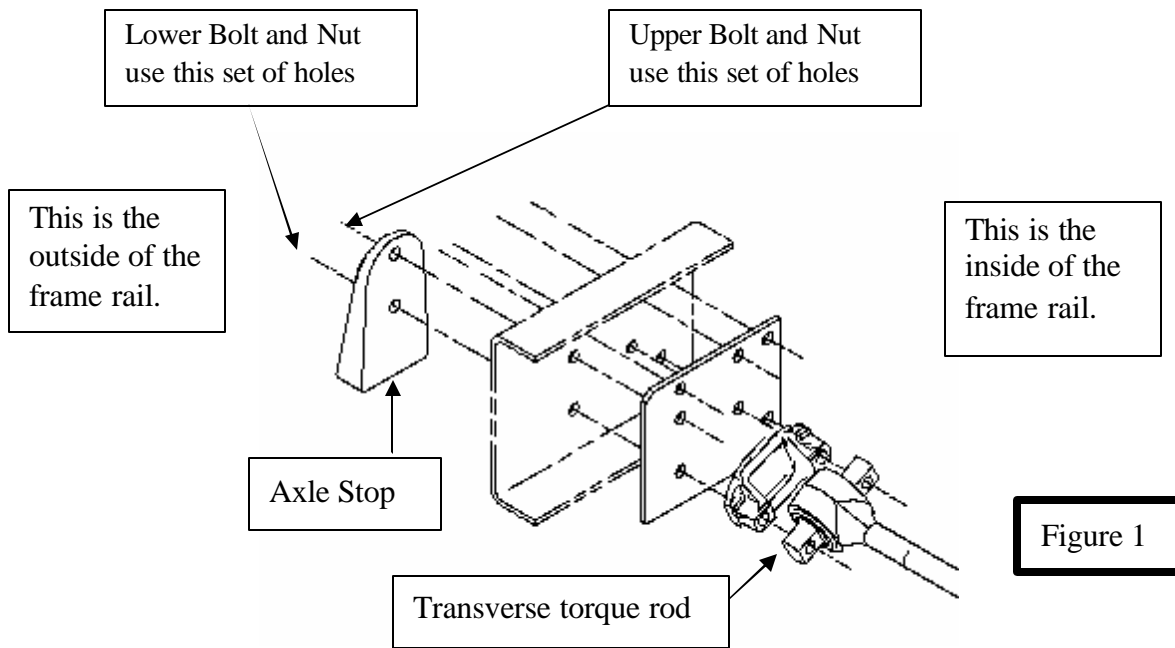
1. Remove Upper Nut and Upper Bolt that holds axle stop to frame rail.
2. Remove Lower Nut and Lower Bolt that holds axle stop to frame rail.
3. Replace axle stop with new one.
4. Replace the axle stop bolts and nuts with the **new** bolts and nuts that are included in the kit. Both bolts for the left side are the same length.
5. Torque the axle stop nuts to **196 - 239 LbF-Ft** (266-324 Nm).

REPLACE RIGHT AXLE STOP – Refer to Figure 1 below. *Please read note about axle travel.

1. Remove Upper Nut and Upper Bolt that holds axle stop to frame rail.
2. Remove Lower Nut and Lower Bolt that holds axle stop and transverse torque rod to frame rail.
3. Replace the axle stop bolts and nuts with the **new** bolts and nuts that are included in the kit. Both bolts for the right side are **NOT** the same length. Use the **longer** bolt to replace the Lower Bolt that also holds the transverse torque rod to the frame.
4. Torque the axle stop nuts to **196 - 239 LbF-Ft** (266-324 Nm).

Axle Stops:

The axle stops are held to the frame rail by 2 sets of bolts and nuts that pass through the frame rail. **Right side** is shown in Figure 1 below. The proper position of the bolts and nuts is to place the bolts into the holes from the inside, so that the nuts are on the outside of the frame rail. This correct position allows sufficient access to the nuts for the torque operation.



*PLEASE NOTE: With the new, longer axle stops installed, the axle travel should now be set to 2.375 ± 0.125 inches in order to maintain proper ride height. IROS axle travel is measured from the bottom of the axle stop to the top of the U-bolt as illustrated in Figure 5 (IROS Axle Travel Measurement) in TSI 04-03-01.

End of Service Procedure

LABOR INFORMATION

Table 2 - Labor Codes		
Labor Code	Description	Time (hours)
A40-05508-01	Inspect, setup & Variation 1A or 1B	1.10
A40-05508-02	Inspect, setup & Variation 2A or 2B	0.80
A40-05508-03	Inspect, setup & Variation 3	0.70

CAMPAIGN IDENTIFICATION LABEL

*Each vehicle corrected in accordance with this campaign **must be** marked with a S00109 Campaign Identification Label.*

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

DO NOT REMOVE

IC CORPORATION

Campaign No. _____

VIN _____

Eng.# _____

COMPLETED

Service Location Code # _____

DO NOT REMOVE

ADMINISTRATIVE/DEALER RESPONSIBILITIES (U.S. & POSSESSIONS)

Proceed immediately to make necessary correction to units in inventory. **All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery.** If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified **IMMEDIATELY** from your dealer location.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward. The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately **repaired** within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within **60 days** after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to **replacement** with an identical or reasonable equivalent vehicle at no charge, or to a **refund** of the purchase price less a reasonable allowance for depreciation.

However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date. To avoid having to replace an owner vehicle or refund the purchase price, every effort must be made to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible.

During the recall process, a listing of owner names and addresses will be furnished to the involved dealers to enable dealers to follow up with owners and have the vehicles corrected. You must limit the use of this listing to this campaign because the list may contain information obtained from state motor vehicle registration records and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

POSSIBLE CUSTOMER REIMBURSEMENT

There may be an occasion when a customer was charged for repairs related to this Recall prior to the Recall being released. The customer letter contains a statement for the customer to contact the Dealer if they believe they are entitled to reimbursement costs. The Dealer should follow the Customer Reimbursement guidelines in Warranty Policy Letter 03-001G. The Warranty Procedures and Administrative Policies manual (CTS1100) includes the information in Policy Letter 03-001G.

WARRANTY CLAIMS

Refer to Dealer Warranty Manual for procedures to conduct Recall Campaigns.

It is important that the Recall Coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44:

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—						
NOUN Leave blank						
C (CAUSE) Enter either 1, 2, 3. (see below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY (Warranty Code) Enter 40.						
TYPE PART Enter P for type part causing failure.						
PAD Enter 100						

ADMINISTRATIVE/DISTRIBUTOR RESPONSIBILITY (EXPORT)

Proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified from your distributor location.

Export locations are to submit warranty claims in the usual manner making reference to this Recall number.

We ask for your full cooperation and follow-up to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

Table 3 - VIN LIST															
Recall 05508 RE bus Driveline (With IROS)															
Repair 1A	Replace stops, shocks, straps, re-orient driveshaft; Stop & shock kits are the same for all VINs														
Repair 1B	Replace stops, shocks, straps, replace driveshaft; Stop & shock kits are the same for all VINs														
Repair 2A	Replace shocks, straps, re-orient driveshaft; Shock kits are the same for all VINs														
Repair 2B	Replace shocks, straps, replace driveshaft; Shock kits are the same for all VINs all the same														
Repair 3	Replace straps, replace driveshaft: Straps are driveshaft specific.														
Drive shaft Codes - P/N and Kit #						Strap Kit P/N (bolts are included) Dependent on driveshaft P/N. See Table 1 for required torque.						Shock Kit #			
0	No replacement											8900151R91			
1	0270DTH1206-Kit 8900149R91											Left Axle Stop Kit #			
2	0270DTH1218-Kit 8900148R91					1	2035772C91 for 0259xxxxxx					8900152R91			
3	0270DYA1128-Kit 8900147R91					2	2035773C91 for 0260xxxxxx					Right Axle Stop Kit #			
4	0270DYA1135-Kit 8900146R91					3	2035774C91 for 0270xxxxxx					8900153R91			
VIN2	Repair	Shaft Code	Strap Code	VIN2	Repair	Shaft Code	Strap Code	VIN2	Repair	Shaft Code	Strap Code	VIN2	Repair	Shaft Code	Strap Code
3A955122	1A	0	1	5A147837	1A	0	3	5A968050	1A	0	1	5A972041	1A	0	1
5A145839	2A	0	3	5A147838	1A	0	3	5A968070	1A	0	1	5A972413	1A	0	2
5A145840	2A	0	3	5A147839	1A	0	3	5A968071	1A	0	1	5A972414	1A	0	2
5A145841	2A	0	3	5A147840	1A	0	3	5A969079	1A	0	3	5A972415	1A	0	2
5A146847	1A	0	3	5A149376	1A	0	3	5A969088	1A	0	1	5A972416	1A	0	2
5A146848	1A	0	3	5A149377	1A	0	3	5A969663	1A	0	1	5A972417	1A	0	2
5A147319	2A	0	1	5A149378	1A	0	3	5A969685	2A	0	3	5A972714	1A	0	3
5A147360	1A	0	3	5A150418	1A	0	3	5A971667	1A	0	3	5A972715	1A	0	3
5A147361	1A	0	3	5A150419	1A	0	3	5A972037	1A	0	3	5A972716	1A	0	3
5A147362	1A	0	3	5A964329	1A	0	3	5A972038	1A	0	3	5A973072	1A	0	3
5A147363	1A	0	3	5A964330	1A	0	3	5A972039	1A	0	3	5A973266	1A	0	3
5A147364	1A	0	3	5A964977	1A	0	1	5A972040	1A	0	1	5A973267	1A	0	3

VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code
5A973268	1A	0	3			5A975083	1A	0	3			5A975809	1A	0	2			5A978148	1A	0	2		
5A973565	1A	0	2			5A975084	1A	0	3			5A975810	1A	0	2			5A978149	1A	0	2		
5A974449	1A	0	3			5A975085	1A	0	3			5A975811	1A	0	2			5A978150	1A	0	2		
5A974733	1A	0	1			5A975086	1A	0	3			5A975812	1A	0	2			5A978151	1A	0	2		
5A974734	1A	0	1			5A975088	1A	0	3			5A975813	1A	0	2			5A978152	1A	0	2		
5A974735	1A	0	1			5A975089	1A	0	3			5A975887	1A	0	3			5A978153	1A	0	2		
5A974736	1A	0	1			5A975090	1A	0	3			5A975983	1A	0	3			5A978154	1A	0	2		
5A974737	1A	0	1			5A975091	1A	0	3			5A975984	1A	0	3			5A978155	1A	0	2		
5A974738	1A	0	1			5A975092	1A	0	3			5A976219	1A	0	3			5A978156	1A	0	2		
5A974739	1A	0	1			5A975093	1A	0	3			5A976220	1A	0	3			5A978196	1A	0	3		
5A974740	1A	0	1			5A975094	1A	0	3			5A976222	1A	0	3			5A978197	1A	0	3		
5A974741	1A	0	1			5A975095	1A	0	3			5A976223	1A	0	3			5A978198	1A	0	3		
5A974742	1A	0	1			5A975096	1A	0	3			5A976224	1A	0	3			5A978199	1A	0	3		
5A974743	1A	0	1			5A975097	1A	0	3			5A976226	1A	0	1			5A978200	1A	0	3		
5A974744	1A	0	1			5A975098	1A	0	3			5A976227	1A	0	1			5A978201	1A	0	3		
5A974745	1A	0	1			5A975099	1A	0	3			5A976228	1A	0	1			5A978202	1A	0	3		
5A974746	1A	0	1			5A975100	1A	0	3			5A976864	1A	0	2			5A978203	1A	0	3		
5A974747	1A	0	1			5A975101	1A	0	3			5A977040	1A	0	1			5A978204	1A	0	3		
5A974748	1A	0	1			5A975102	1A	0	3			5A977055	1A	0	3			5A978205	1A	0	3		
5A974749	1A	0	1			5A975103	1A	0	3			5A977093	1A	0	3			5A978206	1A	0	3		
5A974750	1A	0	1			5A975104	1A	0	3			5A977095	1A	0	3			5A978207	1A	0	3		
5A974751	1A	0	1			5A975105	1A	0	3			5A977096	1A	0	3			5A978208	1A	0	3		
5A974752	1A	0	1			5A975106	1A	0	3			5A977097	1A	0	3			5A978209	1A	0	3		
5A974753	1A	0	1			5A975131	1A	0	3			5A977140	1A	0	3			5A978210	1A	0	3		
5A974754	1A	0	1			5A975132	1A	0	3			5A977141	1A	0	3			5A978211	1A	0	3		
5A974755	1A	0	1			5A975133	1A	0	3			5A977144	1A	0	3			5A978212	1A	0	3		
5A974756	1A	0	1			5A975180	1A	0	3			5A977397	1A	0	3			5A978213	1A	0	3		
5A974757	1A	0	1			5A975181	1A	0	3			5A977475	1A	0	3			5A978214	1A	0	3		
5A974758	1A	0	1			5A975323	1A	0	1			5A977476	1A	0	3			5A978215	1A	0	3		
5A974759	1A	0	1			5A975324	1A	0	1			5A977511	1A	0	3			5A978216	1A	0	3		
5A974760	1A	0	1			5A975325	1A	0	1			5A977512	1A	0	3			5A978217	1A	0	3		
5A974930	1A	0	3			5A975326	1A	0	1			5A977627	1A	0	3			5A978218	1A	0	3		
5A974931	1A	0	3			5A975327	1A	0	1			5A977744	1A	0	3			5A978219	1A	0	3		
5A974938	1A	0	3			5A975328	1A	0	1			5A977745	1A	0	3			5A978220	1A	0	3		
5A975016	1A	0	2			5A975346	1A	0	3			5A977746	1A	0	3			5A978221	1A	0	3		
5A975017	1A	0	2			5A975347	1A	0	3			5A977747	1A	0	3			5A978222	1A	0	3		
5A975028	1A	0	3			5A975348	1A	0	3			5A977833	1A	0	3			5A978223	1A	0	3		
5A975033	1A	0	3			5A975349	1A	0	3			5A978139	1A	0	2			5A978224	1A	0	3		
5A975060	1A	0	3			5A975350	1A	0	3			5A978140	1A	0	2			5A978225	1A	0	3		
5A975061	1A	0	3			5A975351	1A	0	3			5A978141	1A	0	2			5A978226	1A	0	3		
5A975062	1A	0	3			5A975512	1A	0	2			5A978142	1A	0	2			5A978227	1A	0	3		
5A975063	1A	0	3			5A975540	1A	0	2			5A978143	1A	0	2			5A978228	1A	0	3		
5A975064	1A	0	3			5A975546	1A	0	3			5A978144	1A	0	2			5A978229	1A	0	3		
5A975065	1A	0	3			5A975806	1A	0	2			5A978145	1A	0	2			5A978230	1A	0	3		
5A975081	1A	0	3			5A975807	1A	0	2			5A978146	1A	0	2			5A978231	1A	0	3		
5A975082	1A	0	3			5A975808	1A	0	2			5A978147	1A	0	2			5A978232	1A	0	3		

VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code
5A978233	1A	0	3			5A978627	1A	0	3			5A979379	1A	0	3			5A979905	1A	0	3		
5A978234	1A	0	3			5A978628	1A	0	3			5A979470	2A	0	3			5A979906	1A	0	3		
5A978235	1A	0	3			5A978642	1A	0	2			5A979494	1A	0	3			5A979907	1A	0	3		
5A978236	1A	0	3			5A978643	1A	0	2			5A979653	1A	0	3			5A979908	1A	0	3		
5A978237	1A	0	3			5A978690	1A	0	3			5A979654	1A	0	3			5A979909	1A	0	3		
5A978238	1A	0	3			5A978722	1A	0	2			5A979785	1A	0	3			5A979910	1A	0	3		
5A978239	1A	0	3			5A978723	1A	0	2			5A979786	1A	0	3			5A979911	1A	0	3		
5A978240	1A	0	3			5A978791	1A	0	3			5A979821	1A	0	3			5A979912	1A	0	3		
5A978241	1A	0	3			5A978792	1A	0	3			5A979822	1A	0	3			5A979913	1A	0	3		
5A978242	1A	0	3			5A978793	1A	0	3			5A979868	1A	0	3			5A979914	1A	0	3		
5A978243	1A	0	3			5A978794	1A	0	3			5A979869	1A	0	3			5A979915	1A	0	3		
5A978244	1A	0	3			5A978795	1A	0	3			5A979870	1A	0	3			5A979919	2A	0	3		
5A978245	1A	0	3			5A978796	1A	0	3			5A979871	1A	0	3			5A981304	1A	0	3		
5A978246	1A	0	3			5A978797	1A	0	3			5A979872	1A	0	3			5A981350	1A	0	3		
5A978247	1A	0	3			5A978798	1A	0	3			5A979873	1A	0	3			5A981351	1A	0	3		
5A978248	1A	0	3			5A978799	1A	0	3			5A979874	1A	0	3			5A981469	2A	0	3		
5A978249	1A	0	3			5A978800	1A	0	3			5A979875	1A	0	3			5A981939	1A	0	3		
5A978250	1A	0	3			5A978801	1A	0	3			5A979876	1A	0	3			5A981940	1A	0	3		
5A978251	1A	0	3			5A978818	1A	0	1			5A979877	1A	0	3			5A982067	1A	0	3		
5A978252	1A	0	3			5A978819	1A	0	1			5A979878	1A	0	3			5A982251	1A	0	2		
5A978253	1A	0	3			5A978820	1A	0	1			5A979879	1A	0	3			5A982269	1A	0	3		
5A978254	1A	0	3			5A978821	1A	0	1			5A979880	1A	0	3			5A982270	1A	0	3		
5A978255	1A	0	3			5A978822	1A	0	1			5A979881	1A	0	3			5A982272	1A	0	2		
5A978256	1A	0	3			5A978823	1A	0	1			5A979882	1A	0	3			5A982273	1A	0	3		
5A978257	1A	0	3			5A978824	1A	0	1			5A979883	1A	0	3			5A982284	1A	0	3		
5A978258	1A	0	3			5A978825	1A	0	1			5A979884	1A	0	3			5A982285	1A	0	3		
5A978259	1A	0	3			5A978826	1A	0	1			5A979885	1A	0	3			5A982286	1A	0	3		
5A978260	1A	0	3			5A978827	1A	0	1			5A979886	1A	0	3			5A982287	1A	0	3		
5A978320	1A	0	2			5A978828	1A	0	1			5A979887	1A	0	3			5A982329	1A	0	3		
5A978321	1A	0	2			5A978829	1A	0	1			5A979888	1A	0	3			5A982522	1A	0	2		
5A978322	1A	0	2			5A978830	1A	0	1			5A979889	1A	0	3			5A982523	1A	0	2		
5A978323	1A	0	2			5A978831	1A	0	1			5A979890	1A	0	3			5A982524	1A	0	2		
5A978324	1A	0	2			5A978832	1A	0	1			5A979891	1A	0	3			5A982525	1A	0	2		
5A978325	1A	0	2			5A978908	1A	0	2			5A979892	1A	0	3			5A982526	1A	0	2		
5A978326	1A	0	2			5A978909	1A	0	2			5A979893	1A	0	3			5A982527	1A	0	2		
5A978327	1A	0	2			5A978910	1A	0	2			5A979894	1A	0	3			5A982528	1A	0	2		
5A978427	1A	0	3			5A978911	1A	0	2			5A979895	1A	0	3			5A982529	1A	0	2		
5A978469	1A	0	3			5A978944	1A	0	3			5A979896	1A	0	3			5A982532	1A	0	3		
5A978470	1A	0	3			5A978945	1A	0	3			5A979897	1A	0	3			5A982596	1A	0	2		
5A978471	1A	0	3			5A978946	1A	0	3			5A979898	1A	0	3			5A982597	1A	0	2		
5A978472	1A	0	3			5A978947	1A	0	3			5A979899	1A	0	3			5A982598	1A	0	2		
5A978473	1A	0	3			5A978948	1A	0	3			5A979900	1A	0	3			5A982683	1A	0	2		
5A978474	1A	0	3			5A978949	1A	0	3			5A979901	1A	0	3			5A982684	1A	0	2		
5A978475	1A	0	2			5A978950	1A	0	3			5A979902	1A	0	3			5A982772	1A	0	3		
5A978476	1A	0	3			5A978951	1A	0	3			5A979903	1A	0	3			5A982851	1A	0	3		
5A978626	1A	0	3			5A979052	1A	0	3			5A979904	1A	0	3			5A982852	1A	0	3		

VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code
5A982853	1A	0	3			5A984209	1A	0	3			5A984904	1A	0	1			5A985687	1A	0	3		
5A982854	1A	0	3			5A984210	1A	0	3			5A984905	1A	0	3			5A985690	1A	0	3		
5A982855	1A	0	3			5A984211	1A	0	3			5A984961	1A	0	2			5A985694	1A	0	3		
5A982856	1A	0	3			5A984212	1A	0	3			5A984962	1A	0	2			5A985695	1A	0	3		
5A982857	1A	0	3			5A984213	1A	0	3			5A984963	1A	0	2			5A985696	1A	0	3		
5A982906	1A	0	3			5A984214	1A	0	3			5A984964	1A	0	2			5A985697	1A	0	3		
5A982945	1A	0	2			5A984215	1A	0	3			5A984965	1A	0	2			5A985698	1A	0	3		
5A982947	1A	0	2			5A984216	1A	0	3			5A984966	1A	0	2			5A985810	1A	0	3		
5A982948	1A	0	2			5A984217	1A	0	3			5A984967	1A	0	2			5A985811	1A	0	2		
5A983496	1A	0	1			5A984218	1A	0	3			5A984968	1A	0	2			5A985843	2A	0	3		
5A983497	1A	0	1			5A984219	1A	0	3			5A984969	1A	0	2			5A985936	1A	0	2		
5A983498	1A	0	1			5A984246	1A	0	3			5A984970	1A	0	2			5A985937	1A	0	2		
5A983499	1A	0	1			5A984247	1A	0	3			5A984971	1A	0	2			5A986147	1A	0	3		
5A983500	1A	0	1			5A984248	1A	0	3			5A984972	1A	0	2			5A986148	1A	0	3		
5A983501	1A	0	1			5A984249	1A	0	3			5A984973	1A	0	2			5A986214	1A	0	1		
5A983502	1A	0	1			5A984250	1A	0	3			5A984974	1A	0	2			5A986215	1A	0	1		
5A983509	2A	0	3			5A984251	1A	0	3			5A984975	1A	0	2			5A986543	1A	0	3		
5A983832	1A	0	3			5A984252	1A	0	3			5A984976	1A	0	2			5A986544	1A	0	3		
5A984175	1A	0	3			5A984253	1A	0	3			5A984977	1A	0	2			5A986547	1A	0	3		
5A984176	1A	0	3			5A984254	1A	0	3			5A984978	1A	0	2			5A986548	1A	0	3		
5A984177	1A	0	3			5A984285	1A	0	3			5A984979	1A	0	2			5A986549	2A	0	3		
5A984178	1A	0	3			5A984286	1A	0	3			5A984980	1A	0	2			5A986703	1A	0	3		
5A984179	1A	0	3			5A984287	1A	0	3			5A984981	1A	0	2			5A986712	1A	0	3		
5A984180	1A	0	3			5A984288	1A	0	3			5A985028	1A	0	3			5A986713	1A	0	3		
5A984187	2A	0	3			5A984289	1A	0	3			5A985063	2A	0	3			5A986878	1A	0	2		
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5A984189	2A	0	3			5A984291	1A	0	3			5A985317	1A	0	3			5A986880	1A	0	2		
5A984190	2A	0	3			5A984363	1A	0	3			5A985318	1A	0	3			5A986886	1A	0	2		
5A984191	1A	0	3			5A984364	1A	0	3			5A985319	1A	0	3			5A986887	1A	0	2		
5A984192	1A	0	3			5A984365	1A	0	3			5A985320	1A	0	3			5A986957	1A	0	3		
5A984193	1A	0	3			5A984367	1A	0	2			5A985321	1A	0	3			5A987087	1A	0	3		
5A984194	1A	0	3			5A984368	1A	0	2			5A985322	1A	0	3			5A987088	1A	0	3		
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5A984198	1A	0	3			5A984574	1A	0	3			5A985326	1A	0	3			5A987092	1A	0	2		
5A984199	1A	0	3			5A984575	1A	0	3			5A985327	1A	0	3			5A987170	2A	0	3		
5A984200	1A	0	3			5A984581	1A	0	2			5A985651	1A	0	3			5A987342	2A	0	3		
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5A984202	1A	0	3			5A984799	1A	0	3			5A985653	1A	0	3			5A987543	1A	0	2		
5A984203	1A	0	3			5A984830	1A	0	3			5A985654	1A	0	3			5A987621	2A	0	3		
5A984204	1A	0	3			5A984831	1A	0	3			5A985655	1A	0	3			5A987654	1A	0	3		
5A984205	1A	0	3			5A984884	1A	0	2			5A985656	1A	0	3			5A987675	1A	0	2		
5A984206	1A	0	3			5A984885	1A	0	2			5A985657	1A	0	3			5A987677	1A	0	2		
5A984207	1A	0	3			5A984890	1A	0	1			5A985658	1A	0	3			5A987678	1A	0	2		
5A984208	1A	0	3			5A984891	1A	0	1			5A985659	1A	0	3			5A987680	1A	0	2		

VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code
5A987682	1A	0	2			5A988575	2A	0	3			6A146900	1B	2	3			6A147084	3	2	3		
5A987692	2A	0	3			5A988576	2A	0	3			6A146901	1B	2	3			6A147085	3	2	3		
5A987693	2A	0	3			5A988630	1A	0	2			6A146902	1B	2	3			6A147086	3	2	3		
5A987694	2A	0	3			5A988631	1A	0	2			6A146903	1B	2	3			6A147087	3	2	3		
5A987728	1A	0	2			5A988632	1A	0	2			6A146904	1B	2	3			6A147088	3	2	3		
5A987764	1A	0	2			5A988633	1A	0	2			6A146905	1B	2	3			6A147089	3	2	3		
5A987765	1A	0	2			5A988634	1A	0	2			6A146906	1B	2	3			6A147090	3	2	3		
5A987766	1A	0	2			5A988635	1A	0	2			6A146907	1B	2	3			6A147091	3	2	3		
5A987767	1A	0	2			5A988636	1A	0	2			6A146908	1B	2	3			6A147092	3	2	3		
5A987768	1A	0	2			5A988637	1A	0	2			6A146909	1B	2	3			6A147093	3	2	3		
5A987769	2A	0	3			5A988638	1A	0	2			6A146910	1B	2	3			6A147094	3	2	3		
5A987818	1A	0	3			5A988639	1A	0	2			6A146911	1B	2	3			6A147095	3	2	3		
5A987819	1A	0	3			5A988789	1A	0	2			6A146912	1B	2	3			6A147096	3	2	3		
5A987820	2A	0	3			5A988790	1A	0	2			6A146913	1B	2	3			6A147097	3	2	3		
5A987821	2A	0	3			5A988791	1A	0	2			6A146914	1B	2	3			6A147098	3	2	3		
5A987839	1A	0	3			5A988792	1A	0	2			6A146915	2B	2	3			6A147099	3	2	3		
5A987840	1A	0	3			5A988793	1A	0	2			6A146916	2B	2	3			6A147100	3	2	3		
5A987841	1A	0	3			5A988794	1A	0	2			6A146917	2B	2	3			6A147101	3	2	3		
5A987842	1A	0	3			5A988795	1A	0	2			6A146918	2B	2	3			6A147102	3	2	3		
5A987843	1A	0	3			5A988796	1A	0	2			6A146919	2B	2	3			6A151126	2B	4	3		
5A987844	1A	0	3			5A988797	1A	0	2			6A146920	2B	2	3			6A151645	2A	0	3		
5A988526	2A	0	3			5A988798	1A	0	2			6A146921	2B	2	3			6A151646	2A	0	3		
5A988527	2A	0	3			5A988799	1A	0	2			6A146922	2B	2	3			6A151647	2A	0	3		
5A988550	2A	0	3			5A988800	1A	0	2			6A146923	2B	2	3			6A151648	2A	0	3		
5A988551	2A	0	3			5A988801	1A	0	2			6A146924	2B	2	3			6A151649	2A	0	3		
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5A988557	2A	0	3			5A988807	1A	0	2			6A147068	2B	2	3			6A154890	1A	0	3		
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5A988564	2A	0	3			5A988885	2A	0	3			6A147075	3	2	3			6A154897	1A	0	3		
5A988565	2A	0	3			5A989363	2A	0	3			6A147076	3	2	3			6A154898	1A	0	3		
5A988568	2A	0	3			6A146403	2A	0	3			6A147077	3	2	3			6A154899	1A	0	3		
5A988569	2A	0	3			6A146434	2A	0	3			6A147078	3	2	3			6A154900	1A	0	3		
5A988570	2A	0	3			6A146895	1B	2	3			6A147079	3	2	3			6A154901	1A	0	3		
5A988571	2A	0	3			6A146896	1B	2	3			6A147080	3	2	3			6A155135	1A	0	3		
5A988572	2A	0	3			6A146897	1B	2	3			6A147081	3	2	3			6A156293	1B	3	3		
5A988573	2A	0	3			6A146898	1B	2	3			6A147082	3	2	3			6A157088	2A	0	3		
5A988574	2A	0	3			6A146899	1B	2	3			6A147083	3	2	3			6A157376	1B	2	3		

VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code	VIN2	Repair	Shaft	Code	Strap	Code
6A157832	1B	4	3			6A166584	1B	2	3			6A168891	3	4	3			6A979051	2A	0	3		
6A157833	1B	4	3			6A166585	1B	2	3			6A168912	1B	4	3			6A984491	1B	4	3		
6A157834	1B	4	3			6A167824	2A	0	3			6A168913	1B	4	3			6A985064	2A	0	3		
6A157835	1B	4	3			6A167825	2A	0	3			6A168914	2B	4	3			6A985065	2A	0	3		
6A157836	1B	4	3			6A168715	2B	4	3			6A168915	2B	4	3			6A985660	2A	0	3		
6A157837	1B	4	3			6A168716	2B	4	3			6A168916	2B	4	3			6A985835	1B	4	3		
6A157838	1B	4	3			6A168717	2B	4	3			6A168917	2B	4	3			6A986881	1A	0	3		
6A157839	1B	4	3			6A168718	1B	4	3			6A168918	2B	4	3			6A986882	3	4	3		
6A157840	1B	4	3			6A168719	1B	4	3			6A168919	2B	4	3			6A986883	1A	0	3		
6A157841	1B	4	3			6A168720	1B	4	3			6A168920	2B	4	3			6A986884	1A	0	2		
6A157842	1B	4	3			6A168721	1B	4	3			6A168921	2B	4	3			6A987523	2A	0	3		
6A157843	1B	4	3			6A168722	1B	4	3			6A168922	2B	4	3			6A987655	1A	0	3		
6A158812	1B	4	3			6A168723	1B	4	3			6A169845	2A	0	3			6A988456	2A	0	3		
6A158813	1B	4	3			6A168724	1B	4	3			6A169846	2A	0	3			6A988536	2A	0	3		
6A161118	1A	0	3			6A168725	2B	4	3			6A169847	2A	0	3			6A988537	2A	0	3		
6A161119	1A	0	3			6A168726	2B	4	3			6A169848	2A	0	3			6A988538	2A	0	3		
6A162556	1A	0	2			6A168727	2B	4	3			6A169849	2A	0	3			6A988539	2A	0	3		
6A162799	2A	0	3			6A168728	2B	4	3			6A169850	2A	0	3			6A988540	2A	0	3		
6A162800	2A	0	3			6A168729	2B	4	3			6A169851	2A	0	3			6A988541	2A	0	3		
6A162801	2A	0	3			6A168730	2B	4	3			6A170617	2A	0	3			6A988542	2A	0	3		
6A162802	2A	0	3			6A168731	2B	4	3			6A170618	2A	0	3			6A988543	2A	0	3		
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6A162804	2A	0	3			6A168733	2B	4	3			6A170620	2A	0	3			6A988545	2A	0	3		
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6A162806	2A	0	3			6A168872	3	4	3			6A170884	2A	0	3			6A988547	2A	0	3		
6A162807	2A	0	3			6A168873	3	4	3			6A170885	2A	0	3			6A988548	2A	0	3		
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6A162982	2B	1	3			6A168876	3	4	3			6A170888	2A	0	3			6A988605	2A	0	3		
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6A163003	2A	0	3			6A168886	3	4	3			6A170975	2A	0	3			6A988821	1B	4	3		
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6A164773	2A	0	3																				