



# SAFETY RECALL BULLETIN

## NHTSA RECALL 12V-046

AUTOCAR, LLC SAFETY RECALL A-1201 Rev.1 (Permanent Fix) July, 2012

### Attention:

Service Managers / Parts Managers

### Subject:

Xpeditor 2011 & 2012 Permanent Fix to Bendix ATR-6 Valve

### Safety Recall Information:

Bendix Commercial Vehicle Systems, LLC has determined that a design modification in the ATR-6 Valve, which eliminated four small internal ribs in the cover assembly, and a material change made to a rubber ball seal in the solenoid, have resulted in a safety defect. In extremely cold conditions (at or below 0 degrees Fahrenheit / -18 degrees Celsius), internal leakage can potentially develop, resulting in pressure being delivered to the affected service brake circuit. If the solenoid armature lifts off, air pressure is delivered to the primary or secondary brake circuits, causing intermittent or, in isolated cases, continuous brake application. During such brake application, ABS will still be operational, and service brakes are still available.

**Bendix and Autocar previously made available as Safety Recall Bulletin A-1201 a temporary/interim solution** that addressed the risk which resulted from the unintended brake application. However, the temporary/interim solution disabled certain features as described in the Bendix documentation attached to Safety Recall Bulletin A-1201. For example, traction control was disabled, resulting in loss of the feature and triggering dash malfunction lamps.

**Bendix and Autocar now provide this permanent solution involving total replacement of the valve.**

Questions regarding this Safety Recall should be directed to Autocar Technical Support at 1-888-218-3611, or for additional information, go to the Bendix Product Action Center for the Bendix ATR-6 Valve Action, at: [www.bendix.com/en/servicessupport/recallcenter/recallcenter\\_1.jsp](http://www.bendix.com/en/servicessupport/recallcenter/recallcenter_1.jsp)

### Vehicles Affected:

There are 269 affected vehicles with serial numbers in the range 212340 through 213812. Refer to the VIN list on Page 9.

### Service Responsibility:

Service sites must perform this recall on affected vehicles at no charge to the owner regardless of vehicle mileage, age or ownership. If a vehicle affected by this recall is taken into or is currently in your vehicle inventory, or at your center for service, you must perform this recall before the vehicle is sold or released to the owner.

### To Obtain Parts:

Please send an e-mail to: [warranty@autocartruck.com](mailto:warranty@autocartruck.com) and provide the following:

1. VIN(s) (at least last 6 digits)
2. 'Ship To' address
3. 'Attention To' name

### Required Parts:

Autocar Part Number: S7440020K001



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PLEASE NOTE: The removed valve must be sent to Bendix. See step 17 of the REPAIR PROCEDURE for shipping and billing instructions.

### Claims for Reimbursement:

Submit a claim for reimbursement in accordance with Autocar's Warranty Administration Manual, with the claim coding information set forth below.

### Claim Coding Information:

Labor Operation Code Number	Time Allowance SRT	Description
56325-1-02	0.75 HR	Bendix ATR-6 Valve Replacement (Unbodied Chassis)
56325-1-03	1.5 HR	Bendix ATR-6 Valve Replacement (Bodied Chassis)

### Tools Required:

- (2) 1/2" Combination wrenches
- 3/8" Drive torque wrench capable of 18 Ft. Lb (24 Nm)
- Adjustable wrench
- Locking pliers
- Quick release pliers
- Red spray paint
- Thread sealant

### Safety Notices

#### **WARNING**

*Allow the vehicle's engine and cooling system to cool to ambient temperature before performing the repair procedure. A hot engine or cooling assembly may cause burns or other personal injury.*

#### **DANGER**

*To prevent eye injury, always wear eye protection when performing vehicle maintenance, service or inspection.*

#### **DANGER**

*Before working on a vehicle, set the parking brake, place the transmission in NEUTRAL and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.*



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### **⚠ CAUTION**

#### **LOCKOUT/TAGOUT PROCEDURES**

*Before entering the vehicle or vehicle body, read and follow OSHA regulations concerning entry and working in “CONFINED SPACE” OSHA 1910.146 and “LOCKOUT/TAGOUT” OSHA 1910.147. Follow OSHA regulations while performing any work on the vehicle. The vehicle must be disabled by the following steps before performing any work on the vehicle:*

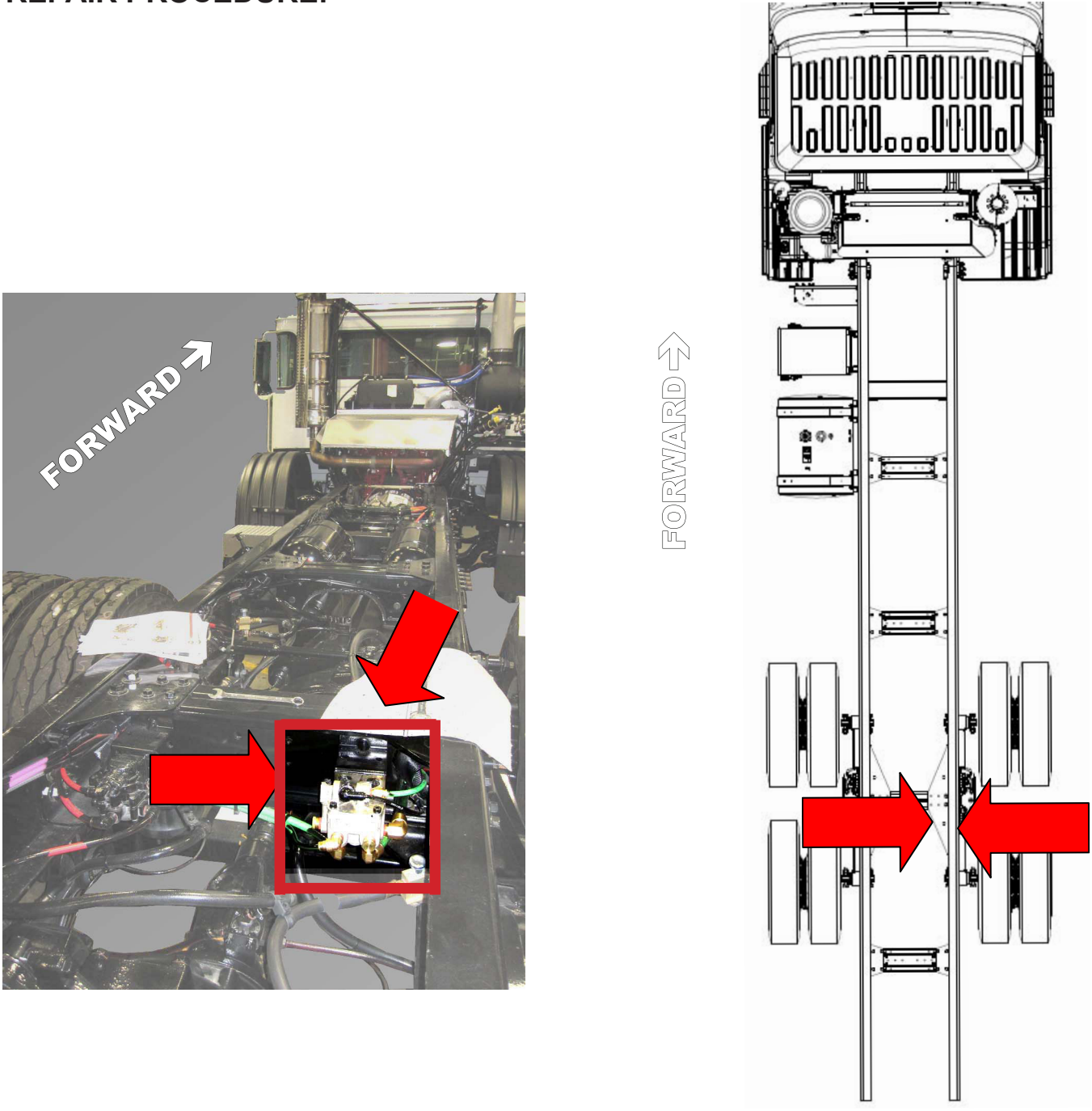
- 1. Place the transmission in NEUTRAL.*
- 2. Set the parking brake.*
- 3. Shut the engine OFF.*
- 4. Lock cab doors, keep the key in your pocket. Block the wheels before entering the body or performing any work on the vehicle.*
- 5. Turn the battery disconnect switch OFF, if equipped.*
- 6. Completely drain the air from the primary/A system and secondary/B system by opening the drain valves on the air tanks themselves or by using the drain manifold if supplied. When draining the air tanks, do not look into the area where air is draining. Dirt or sludge particles may be expelled in the air stream and can cause eye injury.*
- 7. Place magnetic “DANGER” signs on both cab doors before entering the body or performing any work on the vehicle.*
- 8. Take proper precautions before working under the vehicle. Use ramps approved for the weight of your vehicle, or use floor jacks and stands. Never work under a vehicle supported by jacks alone. Always use jack stands to support the vehicle.*

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### REPAIR PROCEDURE:



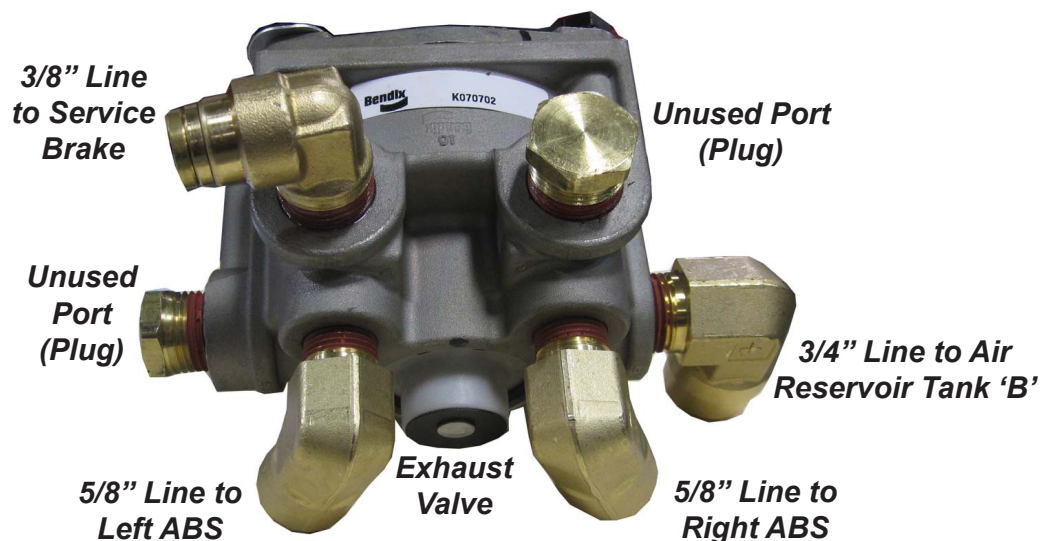
**Figure 1: Bendix ATR-6 Valve - Location on Xpeditor vehicle**

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1. Confirm the primary/A system and the secondary/B systems were completely drained during the lockout/tagout.
2. Locate the Bendix ATR-6 on the vehicle (See Figure 1).
3. Cut and remove the nylon ties as required to increase air line access. Label the locations for installation of new replacement nylon ties later.
4. Disconnect the 5 air lines from the valve's fittings, one at a time. Do **not** cut the air lines from the valve's fittings. Label the connections for reinstallation. Use a paint marker or label the end of air hoses. (See Figure 2 and Figure 3)
5. Remove the ATC electrical connector, by disengaging the collar lock. (See Figure 3)
6. Remove the valve from the vehicle by unbolting the valve's mounting bracket from the vehicle. **Do not remove the valve from the bracket.** Retain the fasteners for reinstallation.
7. Set the **removed** valve next to the **replacement** valve. (See Figure 4) Perform steps 7a - 7c for each fitting:
  - a. Remove one fitting at a time from the removed valve, noting the 'clocking' position of the fitting prior to removal. (See Figure 2 and Figure 3).
  - b. Ensure fitting is clean and free of old sealant. Apply thread sealant to the fitting. Avoid getting sealant on the first 2 threads of the fitting, to prevent system contamination. Screw the fitting to the finger tight position on the replacement valve.



**Figure 2: Bendix ATR-6 Valve - Front/Bottom**

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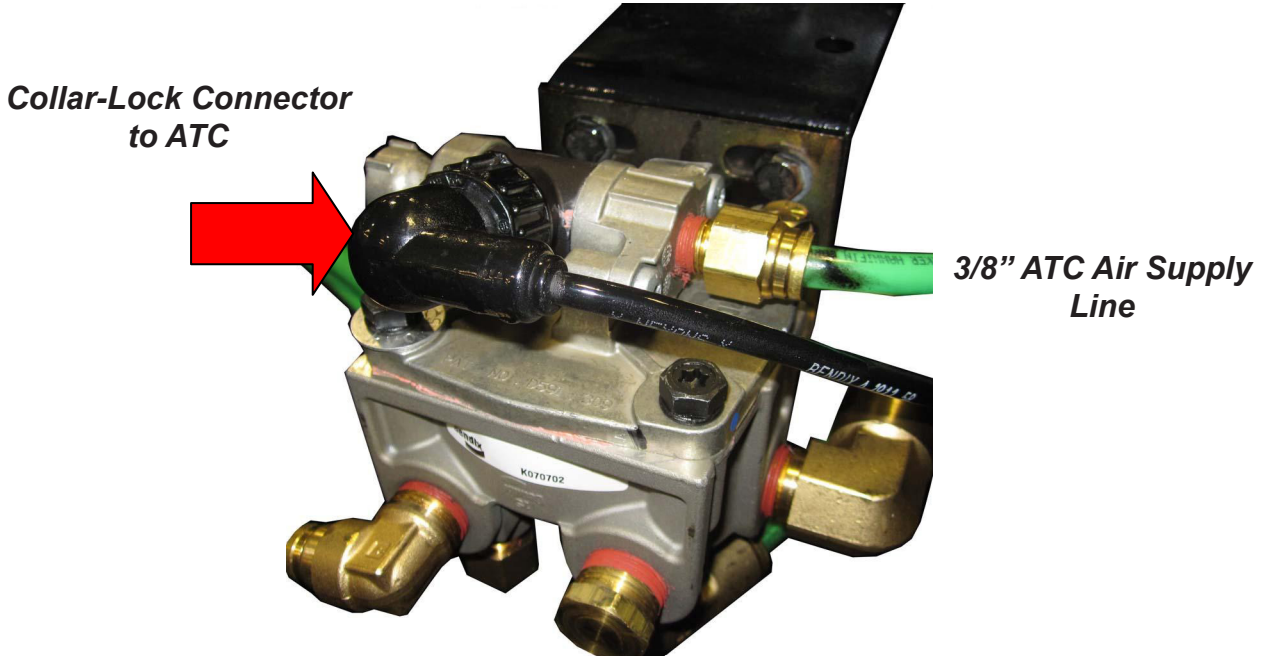


Figure 3: Bendix ATR-6 Valve - Top/Right

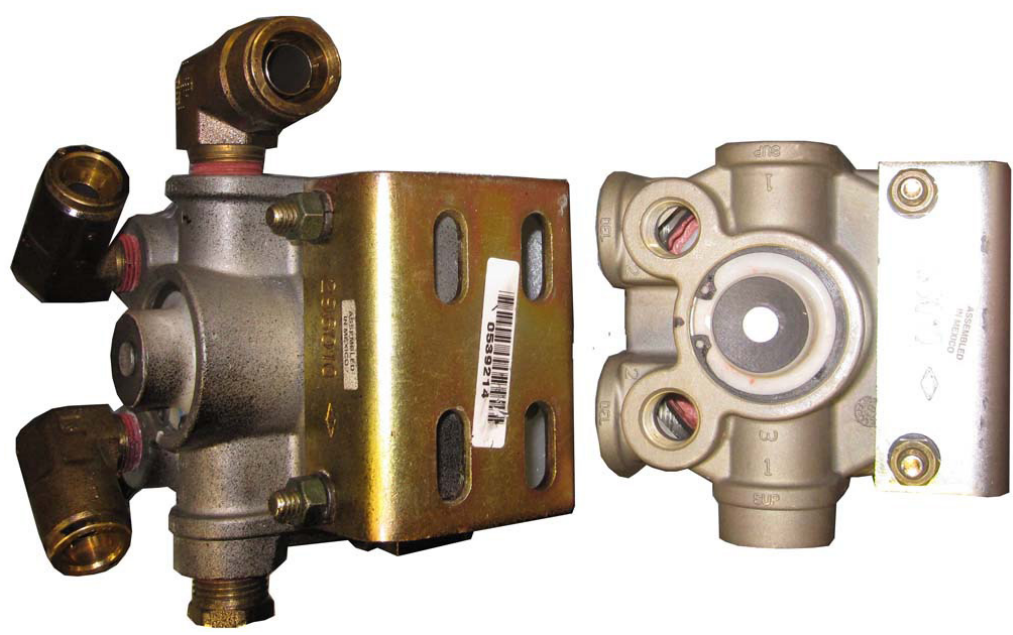


Figure 4: Bendix ATR-6 Valves - Removed (left) and replacement (right)

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- c. Wrench tighten the fitting **two to three** Turns From Finger Tight (T.F.F.T.), ensuring that proper alignment ('clocking') can be achieved without having to back off. The fittings are to be turned **clockwise only**, not counter-clockwise.
- d. After the last fitting has been removed, apply red spray paint on the label side of the removed valve to indicate its defective and replaced status (See Figure 5). The removed valve must be sent to Bendix. See step 17 for shipping and billing instructions
8. To install the replacement valve on the truck, position the replacement valve into the mounting location.  
(See Figure 1)
9. Reconnect the 5 quick-connect air lines, one air line at a time, to the appropriate fittings on the replacement valve.  
(See Figure 2 and Figure 3)
10. If nylon ties were removed previously, install replacement nylon ties in the locations noted during removal.
11. Position the mounting fasteners, retained from removal, through the mounting bracket; torque to 18 Ft.-Lb (24 Nm).
12. Position the ATC electrical connector and secure with the collar lock.  
(See Figure 3)
13. Close the drain valve on the primary air reservoir 'A' and the secondary air reservoir 'B'.
14. Start the truck to refill the primary air reservoir 'A' and the secondary air reservoir 'B'.
15. Listen for air leaks at the valve connections and fittings. Use soapy water as necessary to identify the source of air leaks. Correct the source of air leaks as necessary.



**Figure 5: Bendix removed ATR-6 valve**

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16. Verify functionality of the replacement valve:
  - a. Locate the ABS Diagnostic Switch under the dashboard on the primary driver station side kick-panel. (See Figure 6)
  - b. Push the ABS Diagnostic Switch 3 times, quickly.
  - c. Listen for the ABS system to discharge air. If the ABS system discharges air, then the installation is complete. If the ABS system does not discharge air, contact Autocar Technical Support at 1-888-218-3611.



**Figure 6: ABS Diagnostic Switch (under Xpeditor dashboard)**

17. Parts Return Information:

All replaced ATR-6 valves must be returned to Bendix as follows:

Bendix CVS  
Attn: Recall Returns Department  
1850 Riverfork Drive  
Huntington, IN 46750  
UPS Ground collect billing Account #:  
RW1663
18. The repair is now complete.



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5VCA3RLEXBH212340	5VCACRLE0BH212654	5VCACRLE4BH212690	5VCACDLE0BH212754
5VCA3LLE5BH212341	5VCACRLE2BH212655	5VCACRLE6BH212691	5VCACDLE2BH212755
5VCACSLE6BH212620	5VCACRLE4BH212656	5VCACRLE8BH212692	5VCACLLE0BH212778
5VCACSLE8BH212621	5VCACRLE6BH212657	5VCACRLEXBH212693	5VCACLLE2BH212779
5VCACSLEXBH212622	5VCACRLE8BH212658	5VCACRLE1BH212694	5VCACLLE9BH212780
5VCACSLE1BH212623	5VCACRLEXBH212659	5VCACRLE3BH212695	5VCACLLE0BH212781
5VCACSLE3BH212624	5VCACRLE6BH212660	5VCACRLE5BH212696	5VCACLLE2BH212782
5VCACSLE5BH212625	5VCACRLE8BH212661	5VCACRLE7BH212697	5VCACLLE4BH212783
5VCACSLE7BH212626	5VCACRLEXBH212662	5VCACRLE9BH212698	5VCACLLE6BH212784
5VCACSLE9BH212627	5VCACRLE1BH212663	5VCACRLE0BH212699	5VCACRLEXBH212788
5VCACSLE0BH212628	5VCACRLE3BH212664	5VCACRLE3BH212700	5VCACRLE1BH212789
5VCACSLE2BH212629	5VCACRLE5BH212665	5VCACRLE5BH212701	5VCACRLE8BH212790
5VCACSLE9BH212630	5VCACRLE7BH212666	5VCACRLE7BH212702	5VCACRLEXBH212791
5VCACSLE0BH212631	5VCACRLE9BH212667	5VCACRLE9BH212703	5VCACRLE1BH212792
5VCACSLE2BH212632	5VCACRLE0BH212668	5VCACRLE0BH212704	5VCACRLE3BH212793
5VCACSLE4BH212633	5VCACRLE2BH212669	5VCACRLE2BH212705	5VCACRLE5BH212794
5VCACLLE9BH212634	5VCACRLE9BH212670	5VCACRLE4BH212706	5VCACRLE7BH212795
5VCACLLE0BH212635	5VCACRLE0BH212671	5VCACRLE6BH212707	5VCACRLE9BH212796
5VCACLLE2BH212636	5VCACRLE2BH212672	5VCACRLE8BH212708	5VCACRLE0BH212797
5VCACLLE4BH212637	5VCACRLE4BH212673	5VCACRLEXBH212709	5VCA3LLE2BH212801
5VCACLLE6BH212638	5VCACRLE6BH212674	5VCACRLE6BH212710	5VCACLLE4BH212802
5VCACLLE8BH212639	5VCACRLE8BH212675	5VCACRLE8BH212711	5VCACLLE5BH212856
5VCACLLE4BH212640	5VCACRLEXBH212676	5VCACRLEXBH212712	5VCACLLE7BH212857
5VCACLLE6BH212641	5VCACRLE1BH212677	5VCACRLE1BH212713	5VCACLLE9BH212858
5VCACLLE8BH212642	5VCACRLE3BH212678	5VCACRLE3BH212714	5VCACLLE0BH212859
5VCACLLEXBH212643	5VCACRLE5BH212679	5VCACRLE5BH212715	5VCACLLE7BH212860
5VCACLLE1BH212644	5VCACRLE1BH212680	5VCACRLE7BH212716	5VCACLLE9BH212861
5VCACLLE3BH212645	5VCACRLE3BH212681	5VCA3D8F5BH212718	5VCACLLE0BH212862
5VCACLLE5BH212646	5VCACRLE5BH212682	5VCA3D8F7BH212719	5VCACLLE2BH212863
5VCACLLE7BH212647	5VCACRLE7BH212683	5VCACR8F2BH212737	5VCACSLE8BH212926
5VCACLLE9BH212648	5VCACRLE9BH212684	5VCACR8F4BH212738	5VCACSLEXBH212927
5VCACRLE7BH212649	5VCACRLE0BH212685	5VCACR8F6BH212739	5VCACSLE1BH212928
5VCACRLE3BH212650	5VCACRLE2BH212686	5VCACR8F2BH212740	5VCACRLE1BH212937
5VCACRLE5BH212651	5VCACRLE4BH212687	5VCACDLE5BH212751	5VCACRLE3BH212938
5VCACRLE7BH212652	5VCACRLE6BH212688	5VCACDLE7BH212752	5VCACRLE5BH212939
5VCACRLE9BH212653	5VCACRLE8BH212689	5VCACDLE9BH212753	5VCACRLE1BH212940



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5VCACRLE3BH212941	5VCACR8F8CH213411	5VCACRLE5CH213638	5VCACLLEXCH213681
5VCACRLE2BH212946	5VCACR8FXCH213412	5VCACRLE7CH213639	5VCA3SLE9CH213682
5VCACRLE4BH212947	5VCACR8F1CH213413	5VCACRLE3CH213640	5VCA3SLE0CH213683
5VCA3RLE0BH212976	5VCACR8F3CH213414	5VCACRLE5CH213641	5VCA3SLE2CH213684
5VCA3RLE2BH212977	5VCACR8F5CH213415	5VCACRLE7CH213642	5VCACRLE8CH213780
5VCA3RLE4BH212978	5VCACR8F7CH213416	5VCACRLE9CH213643	5VCACRLEXCH213781
5VCA3RLE6BH212979	5VCACR8F9CH213417	5VCACRLE0CH213644	5VCACR8F1CH213802
5VCACSLEXBH213012	5VCACR8F0CH213418	5VCACRLE2CH213645	5VCACR8F3CH213803
5VCACSLE1BH213013	5VCACR8F2CH213419	5VCACRLE4CH213646	5VCACR8F5CH213804
5VCA3RLE7F6BH213064	5VCACR8F9CH213420	5VCA3RLE3CH213654	5VCACR8F7CH213805
5VCACSLE6BH213072	5VCACR8F0CH213421	5VCACLLE9CH213655	5VCACR8F9CH213806
5VCACSLE8BH213073	5VCACR8F2CH213422	5VCACLLE0CH213656	5VCACR8F0CH213807
5VCACS7F4CH213138	5VCACR8F4CH213423	5VCACLLE2CH213657	5VCACR8F2CH213808
5VCACLLE2CH213139	5VCACR8F6CH213424	5VCACLLE4CH213658	5VCACR8F4CH213809
5VCACLLE9CH213140	5VCACR8F8CH213425	5VCACLLE6CH213659	5VCACR8F0CH213810
5VCACLLE0CH213141	5VCACR8FXCH213426	5VCACLLE2CH213660	5VCACR8F2CH213811
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5VCACR8F6CH213410	5VCACLLE8CH213632	5VCACLLE8CH213680	