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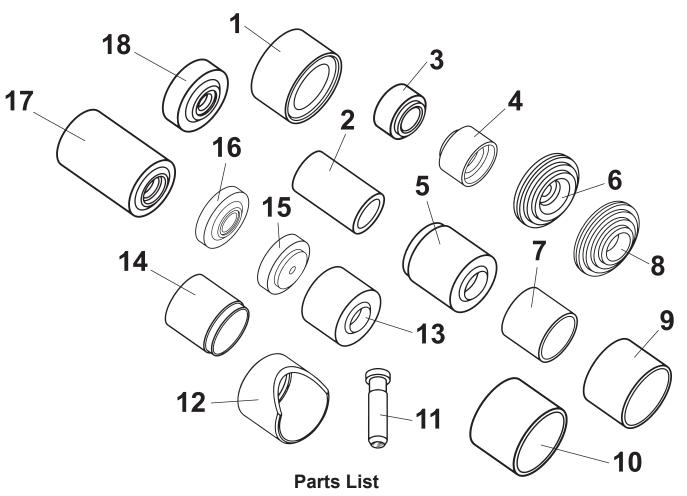
Fax: (800) 955-8329 Order Entry: (800) 533-6127 Fax: (800) 283-8665

International Sales: (507) 455-7223

Fax: (507) 455-7063

Parts List for: 6529-4

GM Ball Joint Adapter Kit



Item		
No.	Part No.	Description
1	554417	Adapter
2	554399	Adapter
3	313968	Adapter
4	554415	Adapter
5	38354	Adapter
6	305228	Adapter
7	29505	Adapter
8	305227	Adapter
9	29504	Adapter
10	29503	Adapter

Item No.	Part No	. Description
 1	314392	Plug
2	537499	Adapter
13	39976	Adapter
4	554413	Adapter
15	554403	Adapter
16	554414	Adapter
7	38355A	Adapter
8	204508A	Adapter

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Issue Date: Rev. D, September 7, 2017

Buick

Model	Year	Туре	Position	Location	Removal Adapters	Installation Adapters	Page
LeSabre	1986-1999	Car	Lower	Rear	38354, 554399	38355A, 554414	4
Park Avenue	1991-1997	Car	Lower	Rear	38354, 554399	38355A, 554414	4
Roadmaster	1991-1996	Car	Lower	Front	29503, 305228, 554415	305227, 537499, 554417	5

Cadillac

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
CTS	2003-2008	Car	Lower	Front	29504, 305228, 554414	29504, 204508A, 305227	6
DeVille w/ standard-duty suspension	1996-1999	Car	Lower	Front	29503, 29504, 305227, 305228	29504, 305228	7
DeVille w/ heavy-duty suspension	1997-2005	Car	Lower	Front	29503, 305228, 555376	29503, 305227, 554417	8
DTS	2006-2011	Car	Lower	Front	29503, 305228, 555376	29503, 305227, 554417	8
Fleetwood	1993-1996	Car	Lower	Front	29503, 305228, 554415	305227, 537499, 554417	5
XLR	2007-2009	Car	Lower	Front	29504, 305228, 554415	39976, 554417	9
XLR	2004-2009	Car	Upper	Front	313968, 554413	29505, 305227, 554403	10
XLR-V	2006-2009	Car	Lower	Front	29504, 305228, 554415	39976, 554417	9
XLR-V	2006-2009	Car	Upper	Front	313968, 554413	29505, 305227, 554403	10

Chevrolet

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Camaro	1970-2002	Car	Lower	Front	29503, 305228, 554415	305227, 537499, 554417	5
Caprice	1977-1996	Car	Lower	Front	29503, 305228, 554415	305227, 537499, 554417	5
Corvette	1984-1996	Car	Lower	Front	29503, 29504, 305227, 305228	29504, 305227, 554414	11
Corvette	1997-2011	Car	Lower	Front	29504, 305228, 554415	39976, 554417	9
Corvette	1997-2011	Car	Upper	Front	313968, 554413	29505, 305227, 554403	10
Impala	1994-1996	Car	Lower	Front	29503, 305228, 554415	305227, 537499, 554417	5

Oldsmobile

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
88	1985-1999	Car	Lower	Rear	38354, 554399	38355A, 554414	4
98	1985-1996	Car	Lower	Rear	38354, 554399	38355A, 554414	4
LSS	1996-1999	Car	Lower	Rear	38354, 554399	38355A, 554414	4
Regency	1997-1998	Car	Lower	Rear	38354, 554399	38355A, 554414	4

Pontiac

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Bonneville	1987-1999	Car	Lower	Rear	38354, 554399	38355A, 554414	4
Firebird	1970-2002	Car	Lower	Front	29503, 305228, 554415	305227, 537499, 554417	5
Solstice	2006-2007	Car	Lower	Front	29504, 305228, 554415	39976, 554417	9

Explanation of Safety Signal Words

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Notes: Provide clarity and helpful information.

Safety Precautions



CAUTION: To prevent personal injury,



- Wear protective eyewear that meets the requirements of ANSI Z87.1 and OSHA.
- Before performing any repairs on a vehicle, block all wheels to prevent movement.



• Check the final alignment of tooling and components before using the C-frame press to exert pressure.

U-Joint Service

The C-frame included in this kit also may be used to service U-joints on most cars and light trucks – either on or off vehicle.

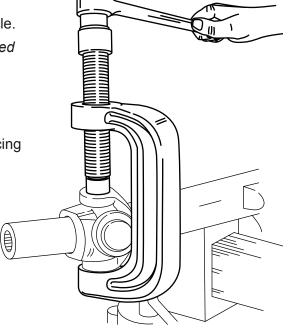
Note: This application uses the standard plug (29501) shipped with the forcing screw, not the 314392.

Disassembly

- 1. Remove external / internal lock rings.
- 2. Position C-frame around driveshaft yoke, and tighten forcing screw until first bearing is removed.
- 3. Position C-frame on second bearing, and tighten forcing screw until second bearing is removed.

Assembly

- 1. Clean dirt and oil from yoke area.
- 2. Align C-frame and new bearing as straight as possible over yoke.
- 3. Press new bearing into yoke, and install lock rings.
- 4. Position C-frame and second bearing as straight as possible over yoke.
- 5. Press new bearing into yoke, and install lock rings.



Ball Joint: Lower Rear

Application

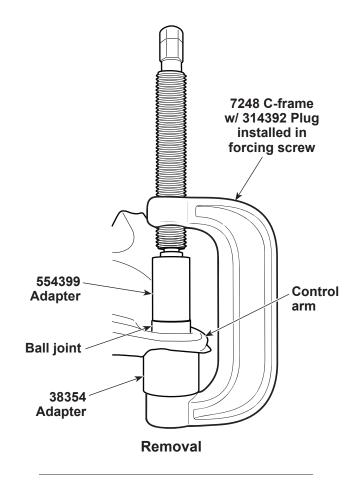
Buick LeSabre 1986-1999 Buick Park Avenue 1991-1997 Oldsmobile 88 1985-1999 Oldsmobile 98 1985-1996 Oldsmobile LSS 1996-1999 Oldsmobile Regency 1997-1998 Pontiac Bonneville 1987-1999

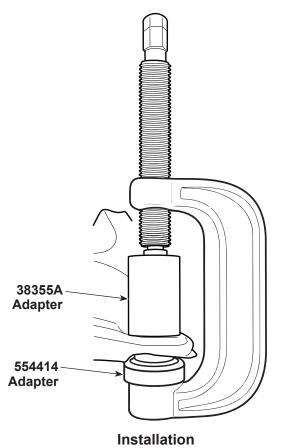
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.





Application

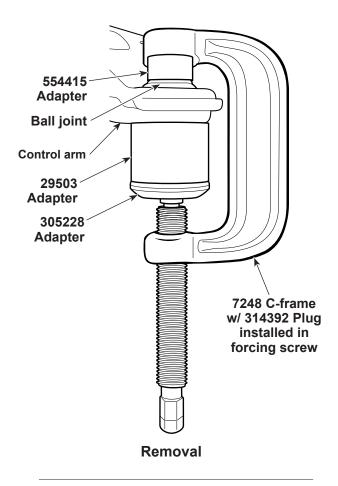
Buick Roadmaster 1991-1996 Cadillac Fleetwood 1993-1996 Chevrolet Camaro 1970-2002 Chevrolet Caprice 1977-1996 Chevrolet Impala 1994-1996 Pontiac Firebird 1970-2002

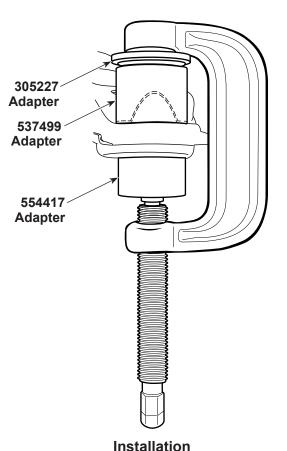
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- 3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- 4. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.





Application

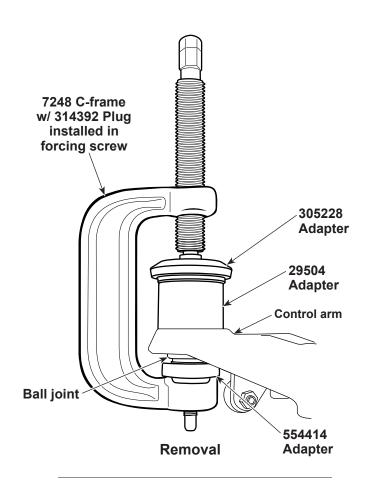
Cadillac CTS 2003-2008

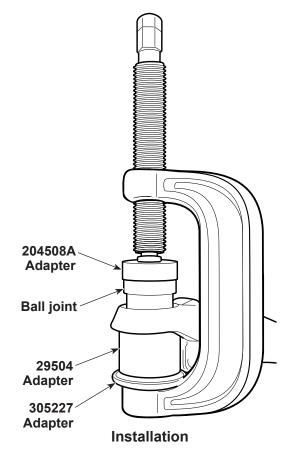
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.





Application

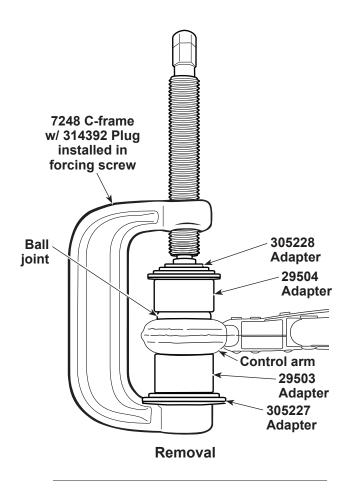
Cadillac DeVille w/ standard-duty suspension 1996-1999

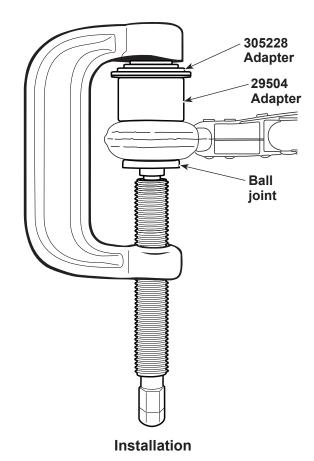
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

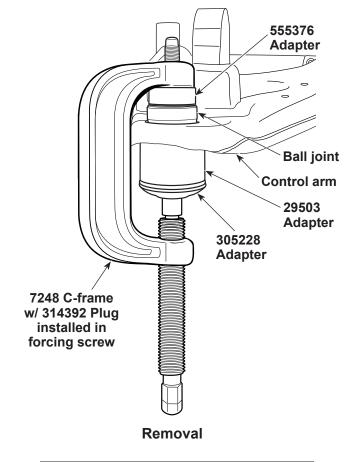
- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.





Application

Cadillac DeVille
w/ heavy-duty suspension 1997-2005
Cadillac DTS 2006-2011

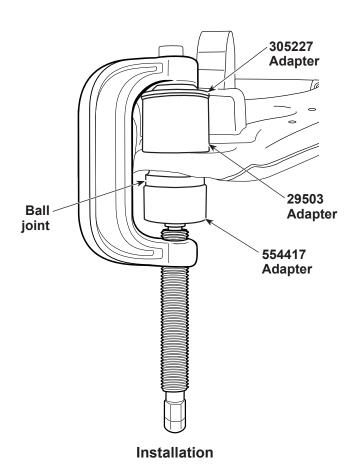


Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- 3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- 4. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.



Application

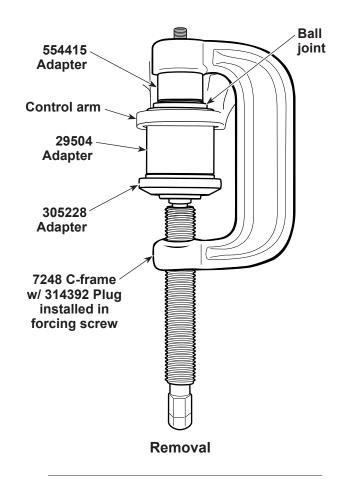
Cadillac XLR 2007-2009
Cadillac XLR-V 2006-2009
Chevrolet Corvette 1997-2011
Pontiac Solstice 2006-2007

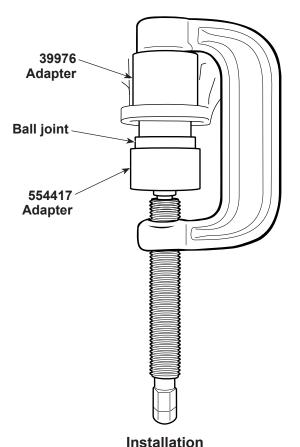
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.





Ball Joint: Upper Front

Application

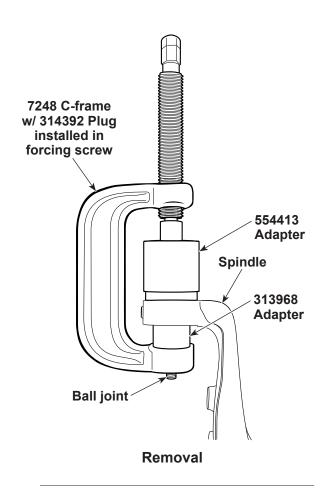
Cadillac XLR 2004-2009 Cadillac XLR-V 2006-2009 Chevrolet Corvette 1997-2011

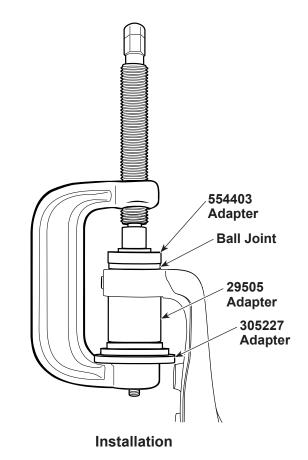
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in spindle.
- 2. Insert new ball joint as straight as possible into spindle.
- 3. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.





Application

Chevrolet Corvette 1984-1996

Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

Removal

- 1. Remove dust boot.
- 2. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 4. Tighten forcing screw until ball joint is removed.

- 1. Clean ball joint bore in control arm.
- 2. Insert new ball joint as straight as possible into control arm.
- 3. Position components as shown.
- Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
- 5. Tighten forcing screw until ball joint is firmly seated.
- 6. Install dust boot.

