

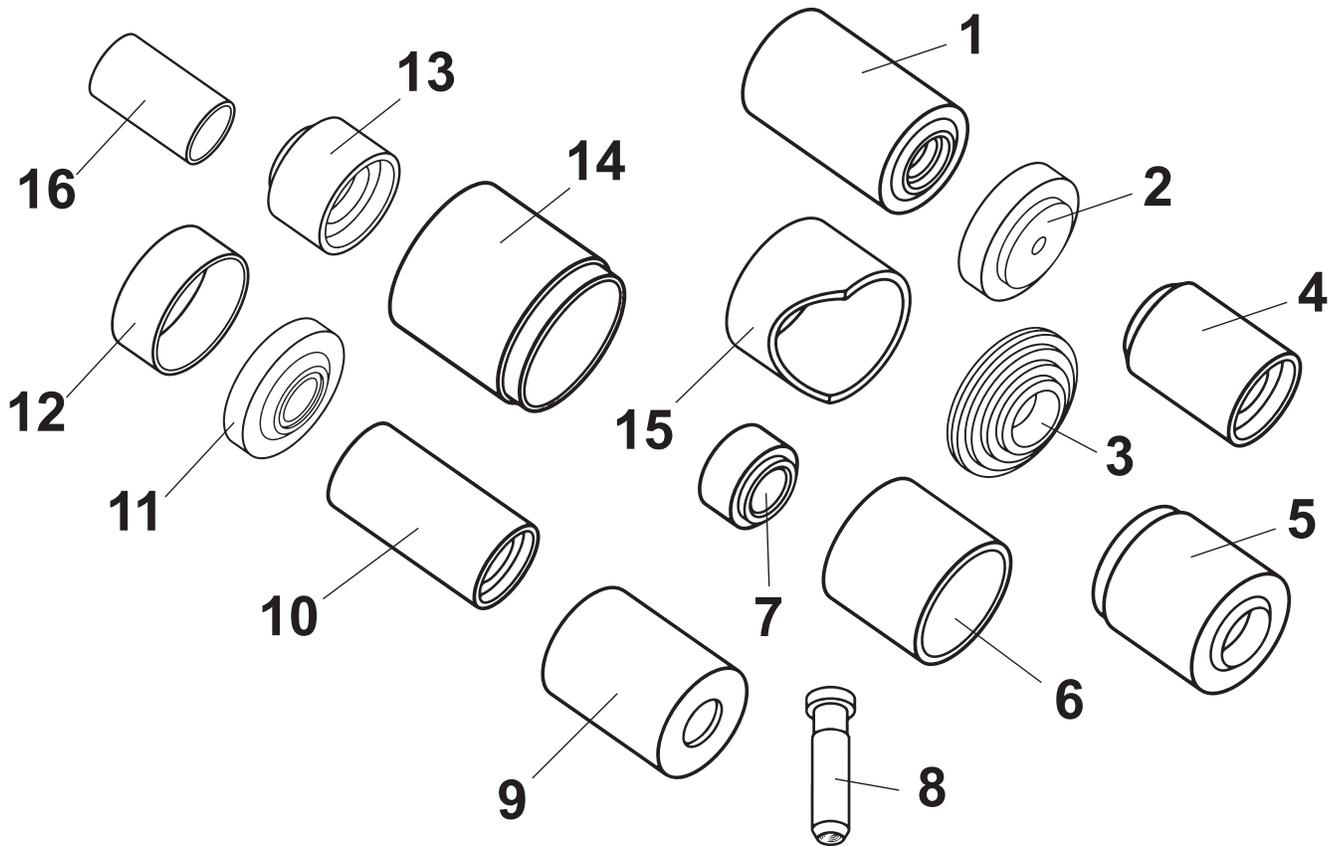


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Form No. 555194

Parts List for: 6529-6

## Hyundai, Infiniti, Nissan, Saab, Toyota Ball Joint Adapter Kit



### Parts List

Item No.	Part No.	Description	Item No.	Part No.	Description
1	38355A	Adapter	9	313969	Adapter
2	554403	Adapter	10	554416	Adapter
3	305227	Adapter	11	554414	Adapter
4	537500	Adapter	12	554422	Adapter
5	38354	Adapter	13	554415	Adapter
6	29505	Adapter	14	554413	Adapter
7	313968	Adapter	15	222306	Adapter
8	314392	Plug	16	531738	Adapter

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Issue Date: Rev. D, September 11, 2017

# Hyundai

NOTE: Models not listed most likely require the control arm with ball joint assembly be replaced, or has a bolt-in style ball joint.

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Accent	1995-2006; 2012-2016	Car	Lower	Front	313968, 554413	38355A, 554414	7
Accent	2000-2005	Car	Lower	Front	313968, 554413	38355A, 554403	8
Elantra	1996-2011; 2013-2016	Car	Lower	Front	313968, 554413	38355A, 554414	7
Sonata	1995-1998	Car	Lower	Front	313968, 554413	38355A, 554414	7
Sonata	1999-2005	Car	Lower	Front	537500, 554413	38355A, 554403	9
Tiburon	1997-2008	Car	Lower	Front	313968, 554413	38355A, 554414	7

# Infinity

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
G20	1991-1996	Car	Lower	Front	313968, 313969	38355A, 554415	10
I30	1996-1999	Car	Lower	Front	537500, 554413	38355A, 305227, 554415	11
I30	2000-2001	Car	Lower	Front	537500, 554413	38355A, 305227, 554422	12
I35	2002-2004	Car	Lower	Front	537500, 554413	38355A, 305227, 554422	12

# Kia

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Forte	2014-2015	Car	Lower	Front	313968, 554413	38355A, 554414	7
Spectra	2004-2009	Car	Lower	Front	313968, 554413	38355A, 554414	7
Spectra 5	2006-2009	Car	Lower	Front	313968, 554413	38355A, 554414	7

# Nissan

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
200SX	1995-1998	Car	Lower	Front	38355A, 313968	38355A, 554403	13
240SX	1994-1998	Car	Lower	Front	537500, 554413	38355A, 305227, 554422	12
300ZX	1990-1996	Car	Lower	Front	537500, 554413	38355A, 305227, 554422	12
Altima	1993-1997	Car	Lower	Front	313968, 313969	38355A, 554415	10
Altima	1998-2001	Car	Lower	Front	313968, 313969	38355A, 554414	14
Maxima	1995-1999	Car	Lower	Front	537500, 554413	38355A, 305227, 554415	11
Maxima	2000-2003	Car	Lower	Front	537500, 554413	38355A, 305227, 554422	12
Sentra	1991-1999	Car	Lower	Front	38355A, 313968	38355A, 554403	13
Sentra	2000-2006	Car	Lower	Front	38354, 554416	38355A, 554415	15
Versa	2007-2012	Car	Lower	Front	313968, 313969	313969, 554415	16

NOTE: Models not listed most likely require the control arm with ball joint assembly be replaced, or has a bolt-in style ball joint.

# SAAB

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
9-7X	2005-2009	SUV	Lower	Front	222306, 305227	38354, 204508A	5
9-7X	2005-2009	SUV	Upper	Front	38354, 531738	313968, 313969	6

# Toyota

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Echo	2000-2005	Car	Lower	Front	38355A, 313968	38355A, 554403	13
Yaris	2007-2008	Car	Lower	Front	38355A, 313968	38355A, 554403	13

## 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.

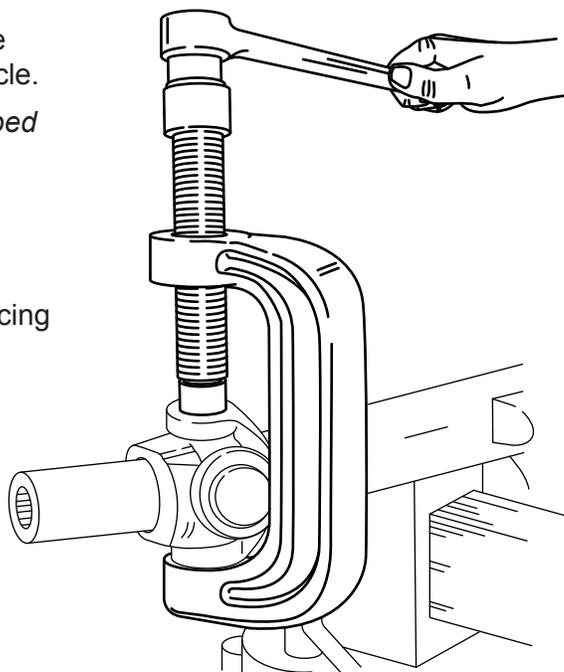
*Note: This application uses the standard plug (29501) shipped with the forcing screw, not the 314392.*

### 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 Front

## Application

Saab 9-7X 2005-2009

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

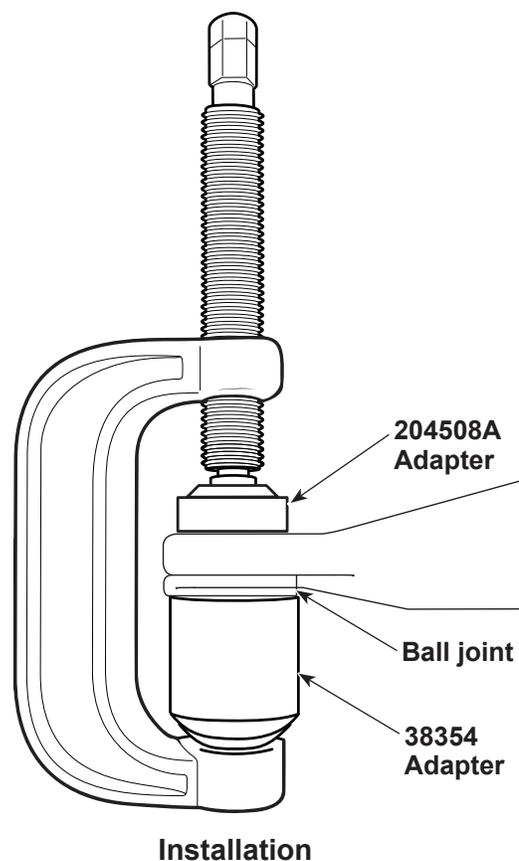
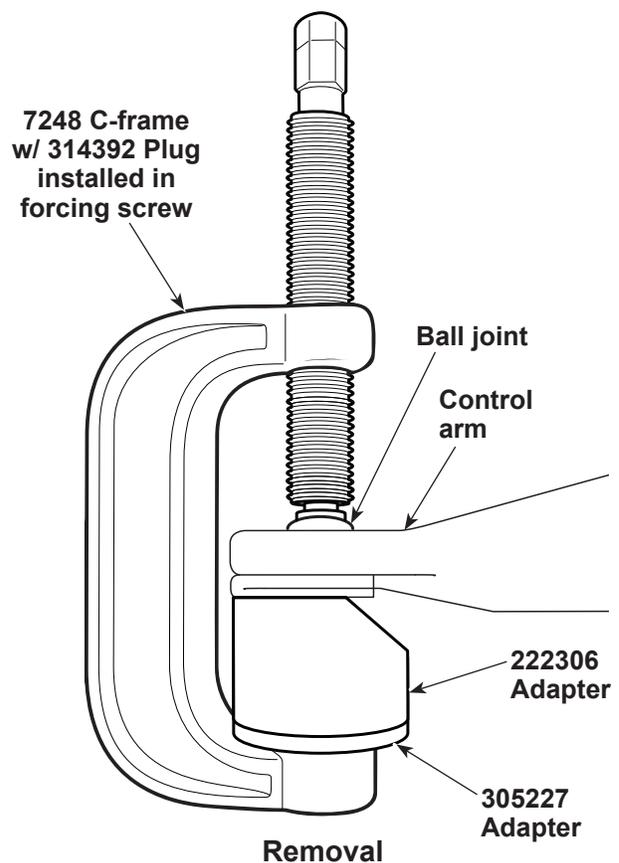
## Removal

*Note: On this application, ball joint is staked into lower control arm. The staked portion will shear off as ball joint is pushed out of control arm.*

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.

## Installation

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. Stake ball joint to lower control arm.
7. Install dust boot.



# Ball Joint: Upper Front

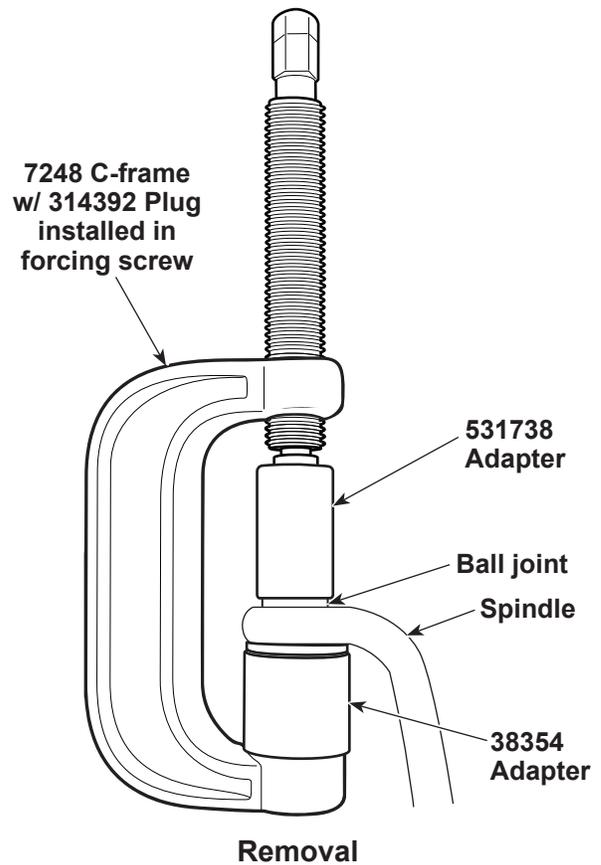
## Application

Saab 9-7X 2005-2009

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

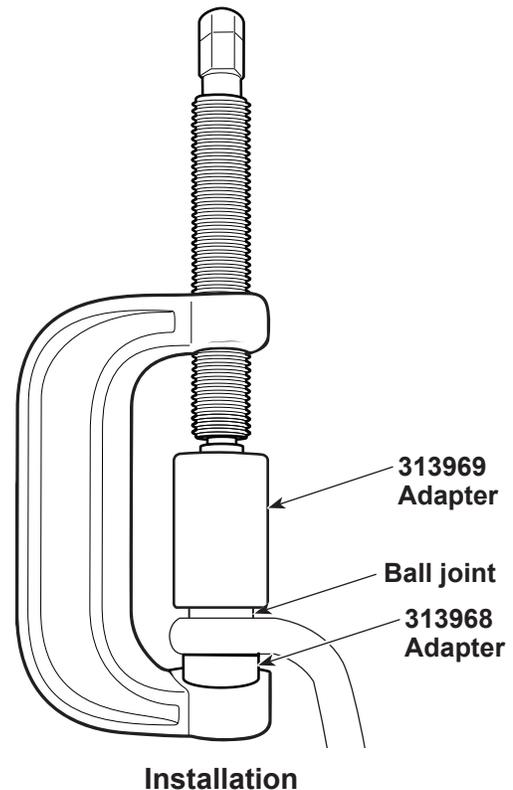
## Removal

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.



## Installation

1. Clean ball joint bore in spindle.
2. Insert new ball joint as straight as possible into spindle.
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.



# Ball Joint: Lower Front

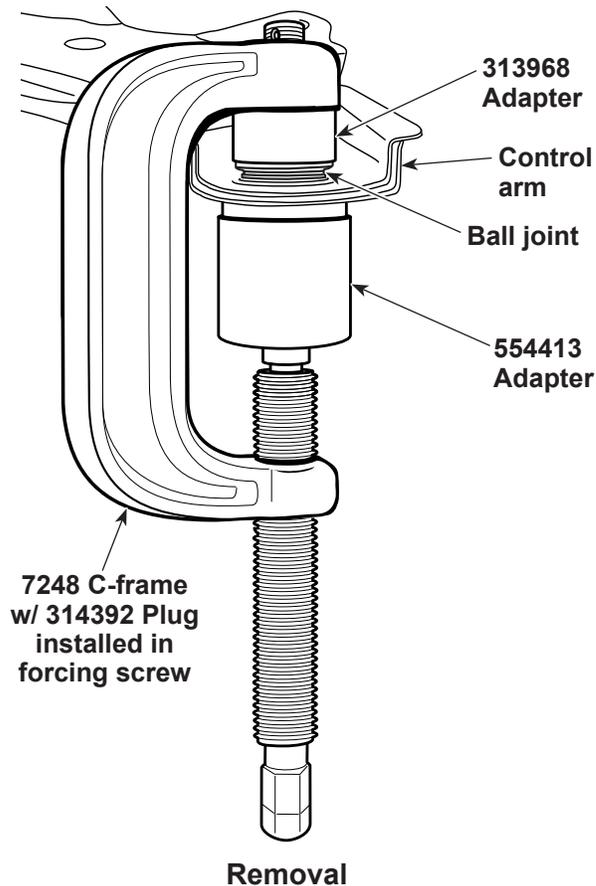
## Application

Hyundai Accent 1995-1999; 2012-2016  
Hyundai Elantra 1996-2011; 2013-2016  
Hyundai Sonata 1995-1998  
Hyundai Tiburon 1997-2008  
Kia Forte 2014-2015  
Kia Spectra 2004-2009  
Kia Spectra 5 2006-2009

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

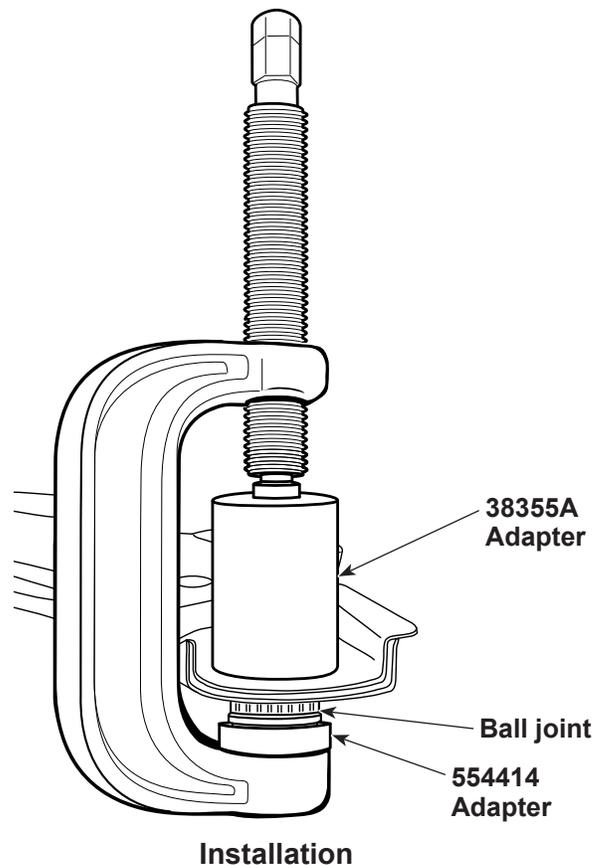
## Removal

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.



## Installation

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.



# Ball Joint: Lower Front

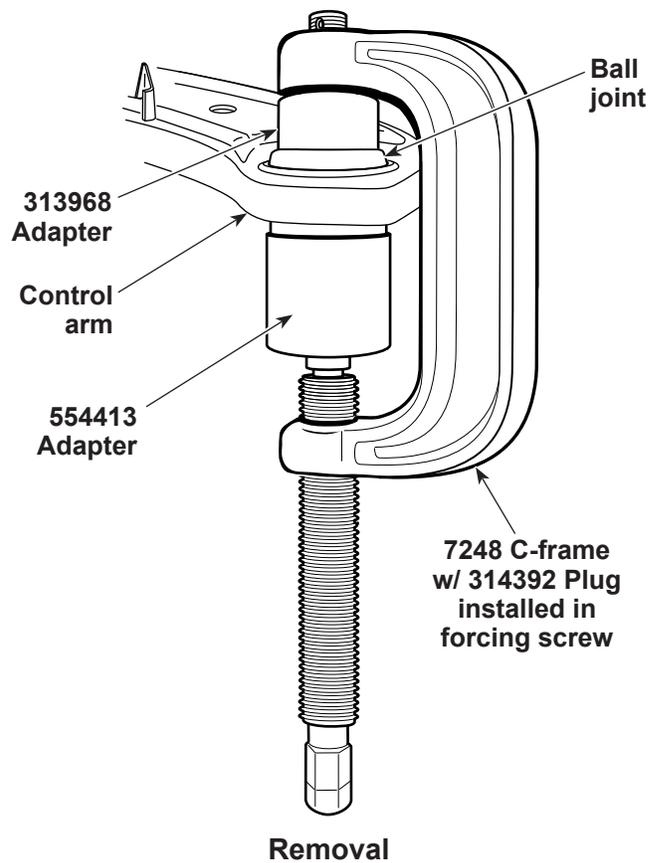
## Application

Hyundai Accent 2000-2005

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

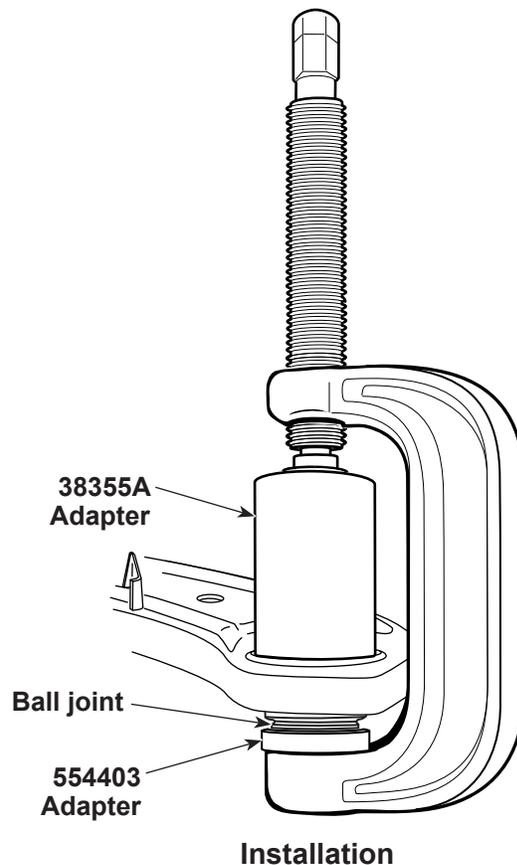
## Removal

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.



## Installation

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.



# Ball Joint: Lower Front

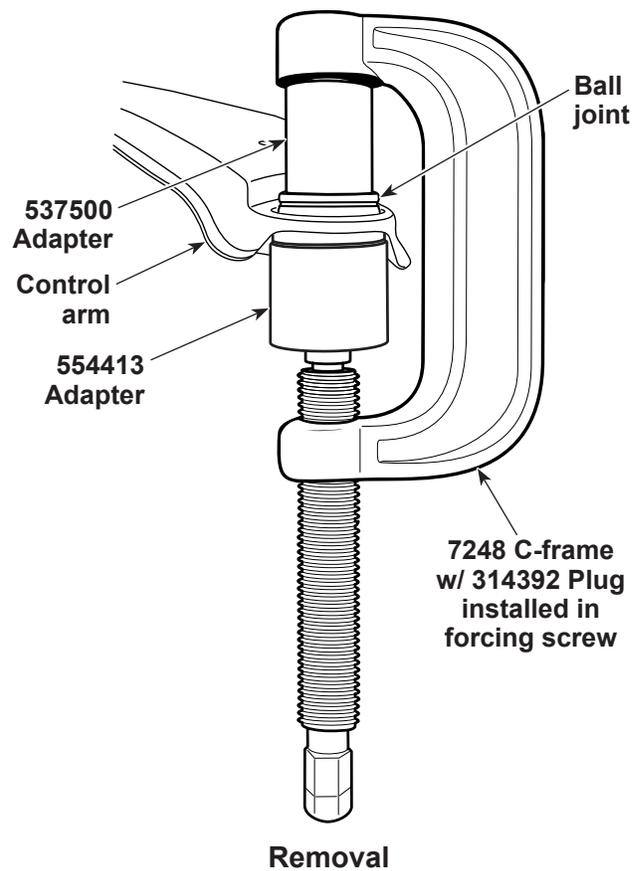
## Application

Hyundai Sonata 1999-2005

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

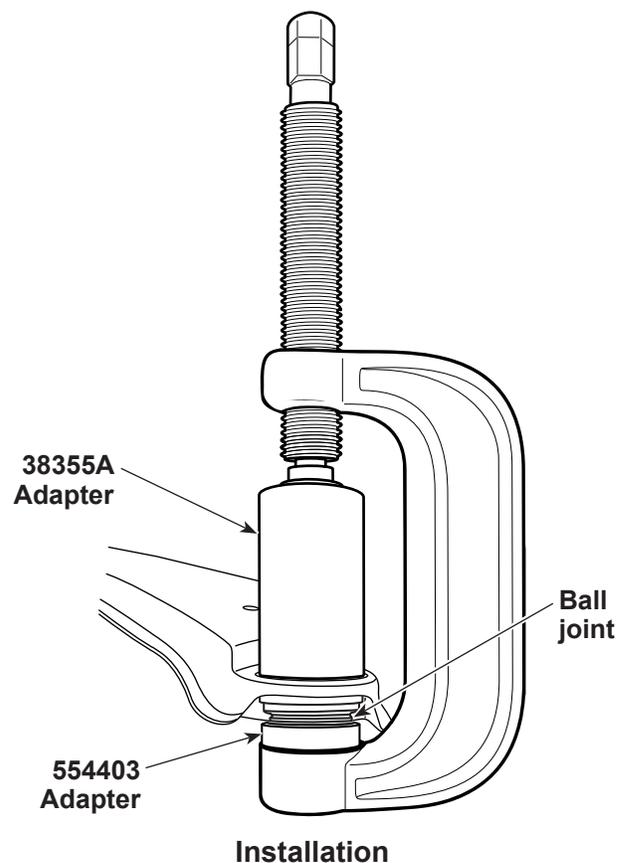
## Removal

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.



## Installation

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.



# Ball Joint: Lower Front

## Application

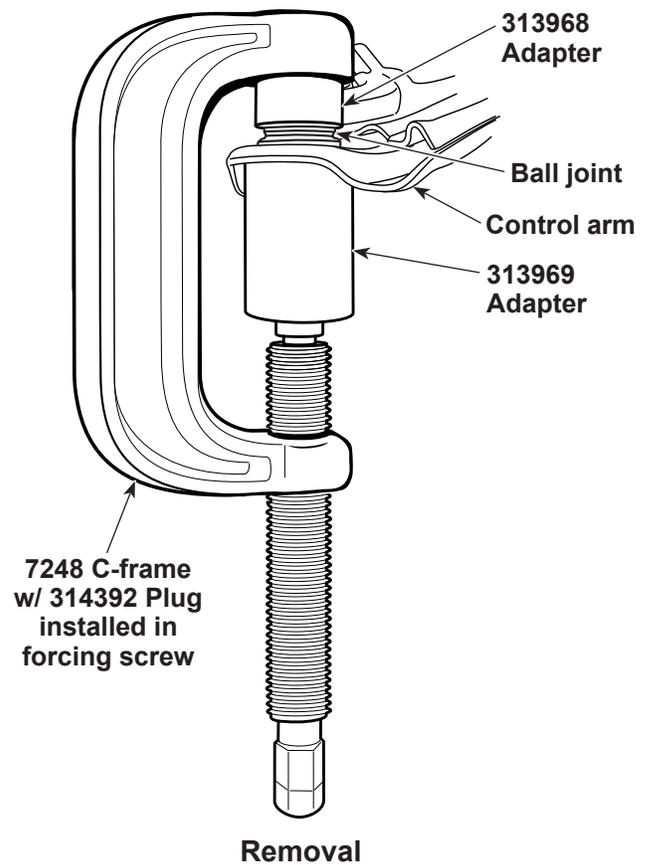
Infiniti G20 1991-1996

Nissan Altima 1993-1997

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

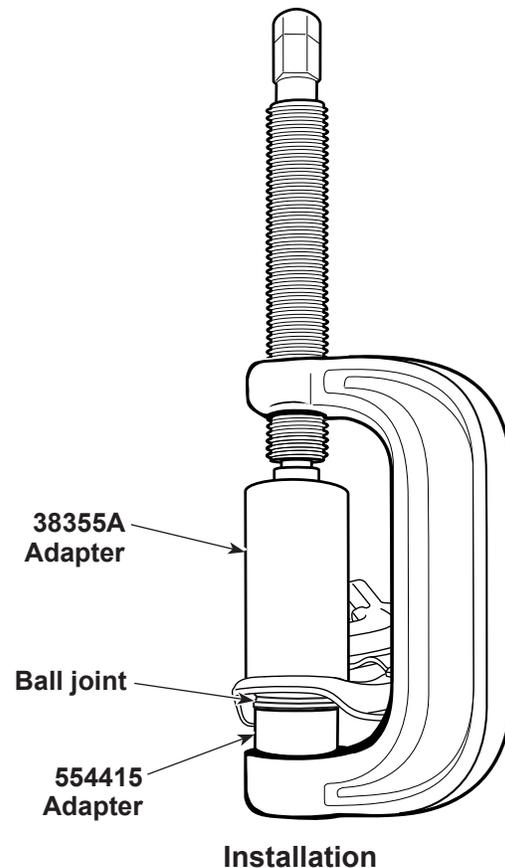
## Removal

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.



## Installation

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.



# Ball Joint: Lower Front

## Application

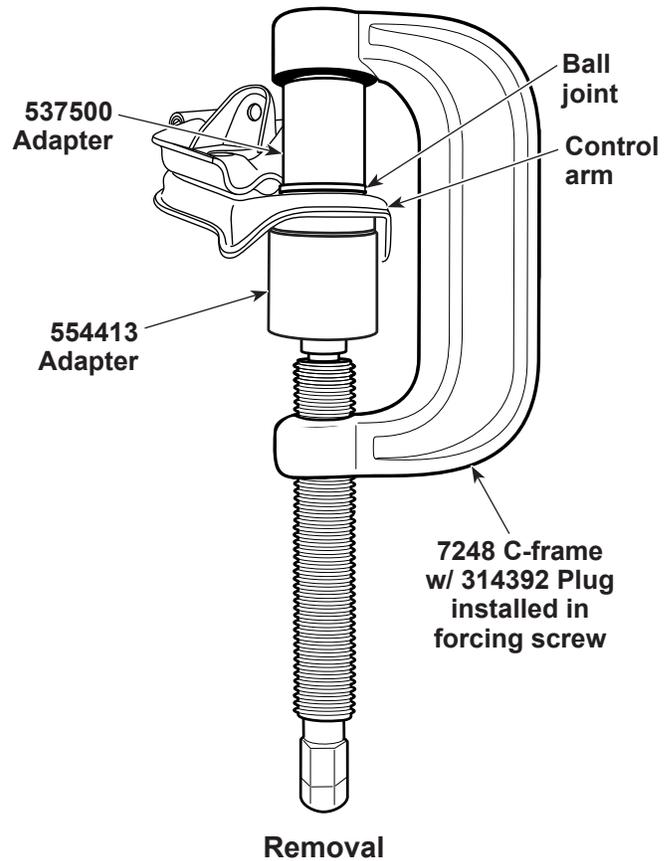
Infiniti I30 1996-1999

Nissan Maxima 1995-1999

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

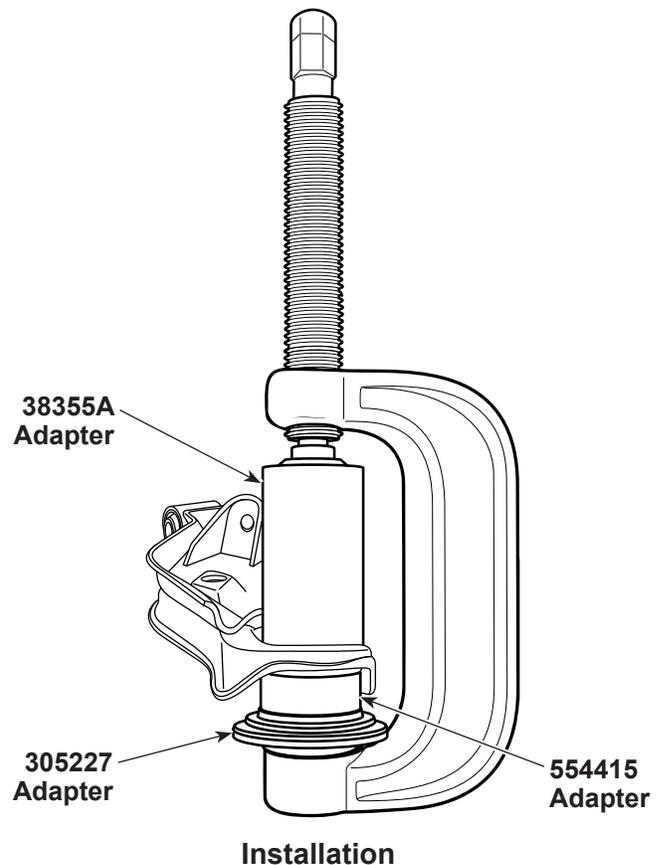
## Removal

1. Remove dust boot.
2. Position components as shown.
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.



## Installation

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.



# Ball Joint: Lower Front

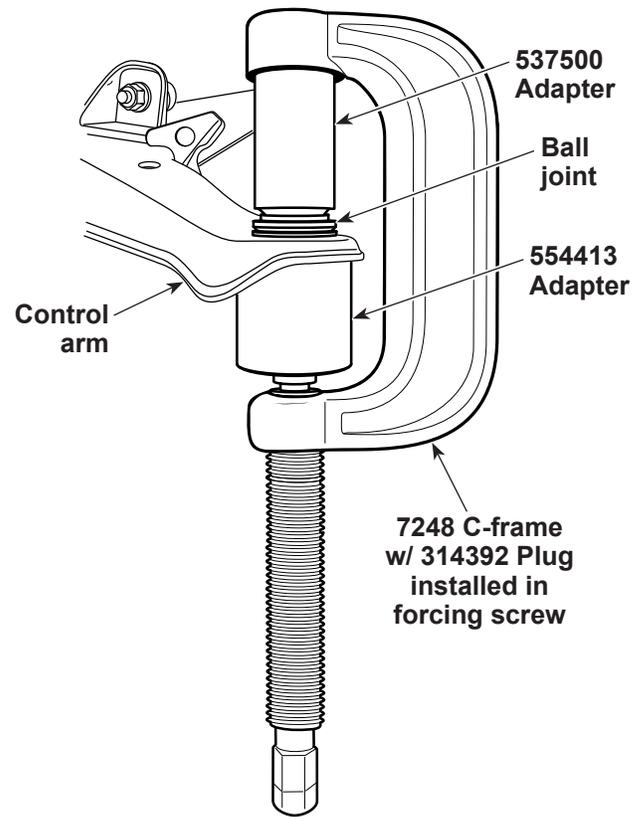
## Application

- Infiniti I30 2000-2001
- Infiniti I35 2002-2004
- Nissan 240SX 1994-1998
- Nissan 300ZX 1990-1996
- Nissan Maxima 2000-2003

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

## Removal

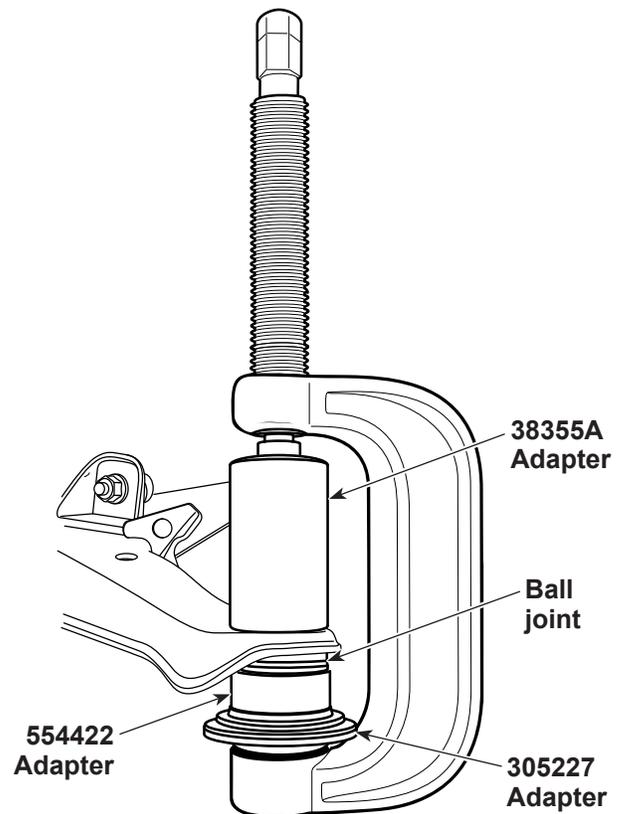
1. Remove dust boot.
2. Position components as shown.
3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
4. Tighten forcing screw until ball joint is removed.



**Removal**

## Installation

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.



**Installation**

# Ball Joint: Lower Front

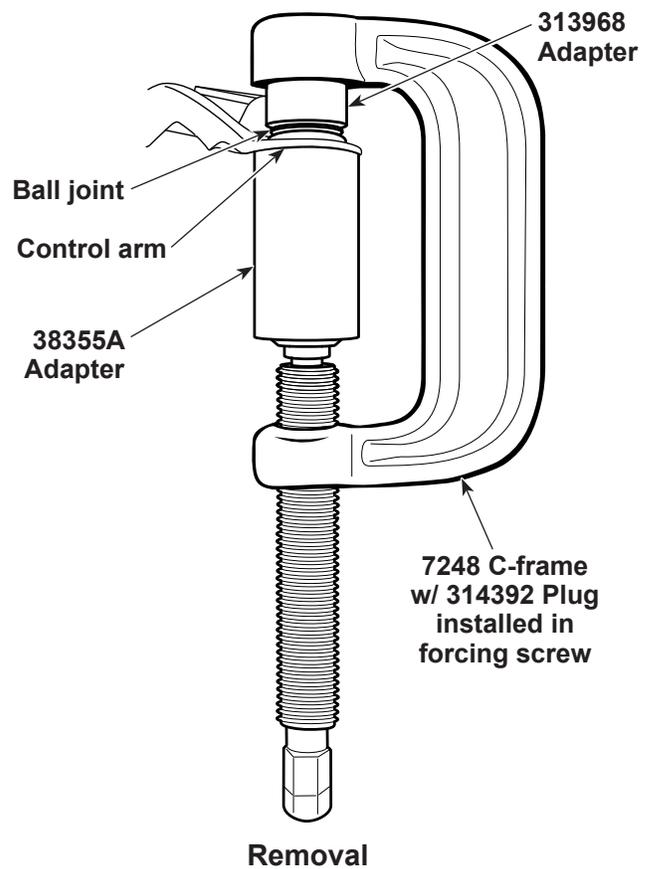
## Application

Nissan 200SX 1995-1998  
Nissan Sentra 1991-1999  
Toyota Echo 2000-2005  
Toyota Yaris 2007-2008

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

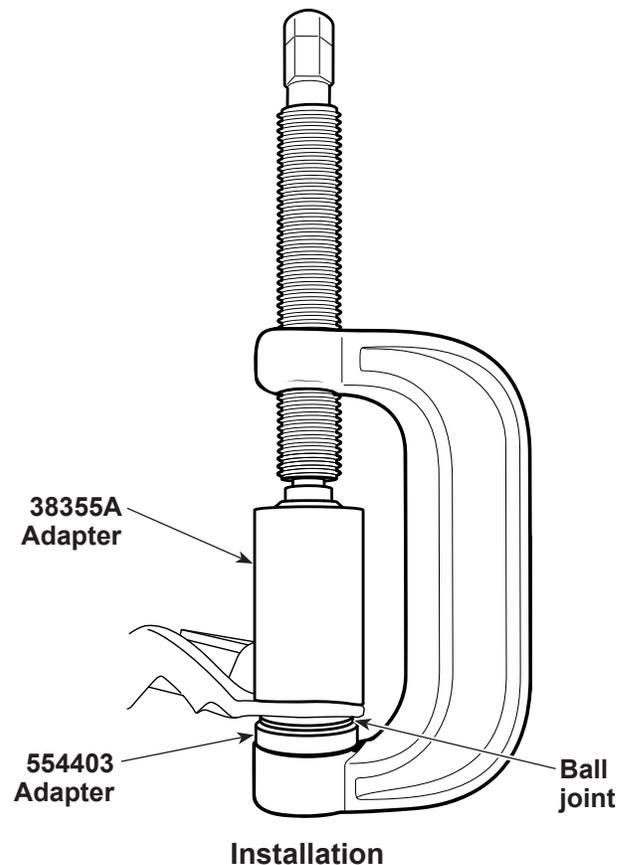
## Removal

1. Remove dust boot.
2. Position components as shown.
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.



## Installation

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.



# Ball Joint: Lower Front

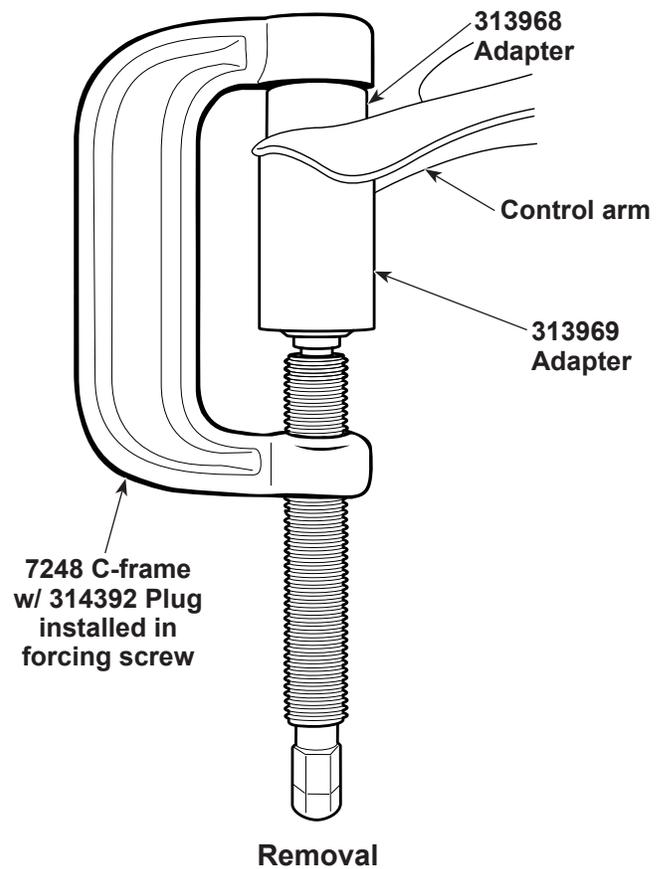
## Application

Nissan Altima 1998-2001

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

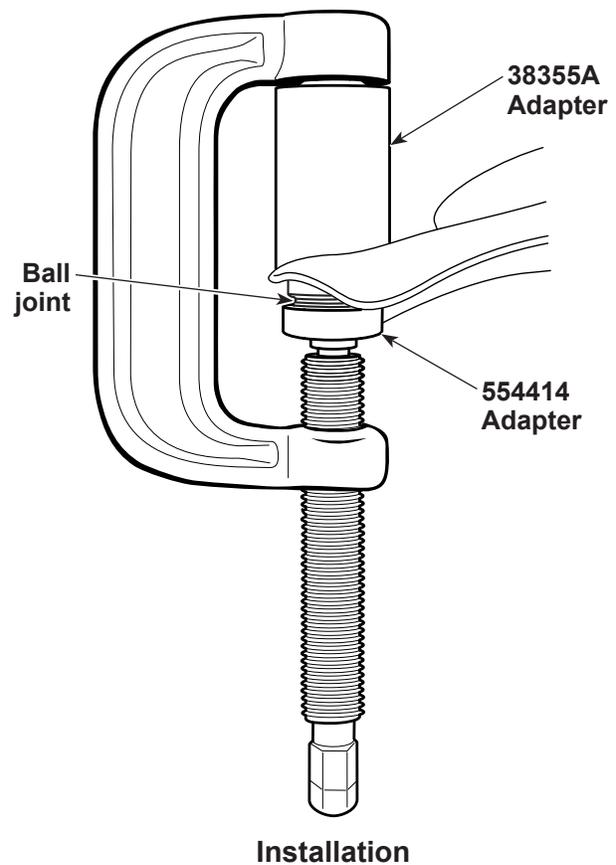
## Removal

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.



## Installation

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.



# Ball Joint: Lower Front

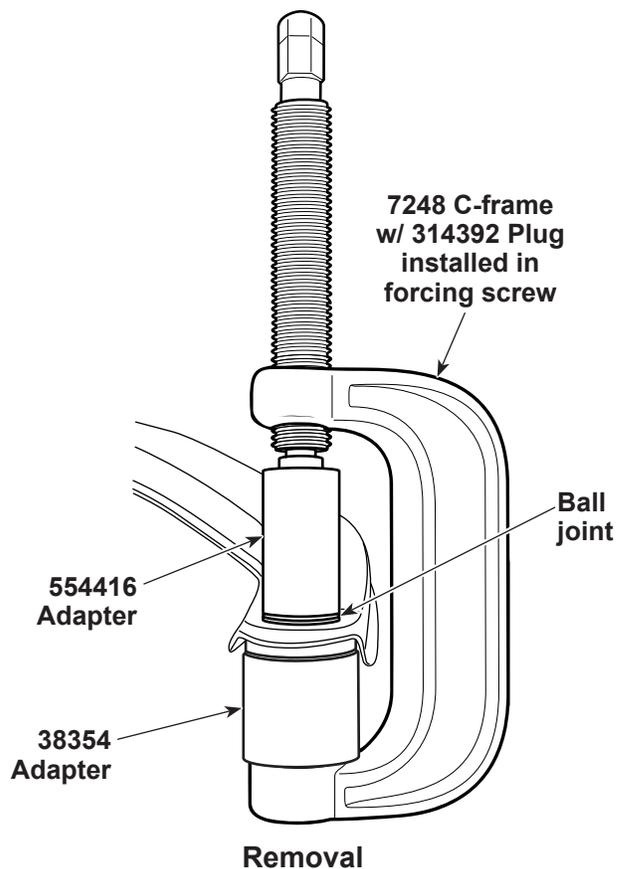
## Application

Nissan Sentra 2000-2006

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

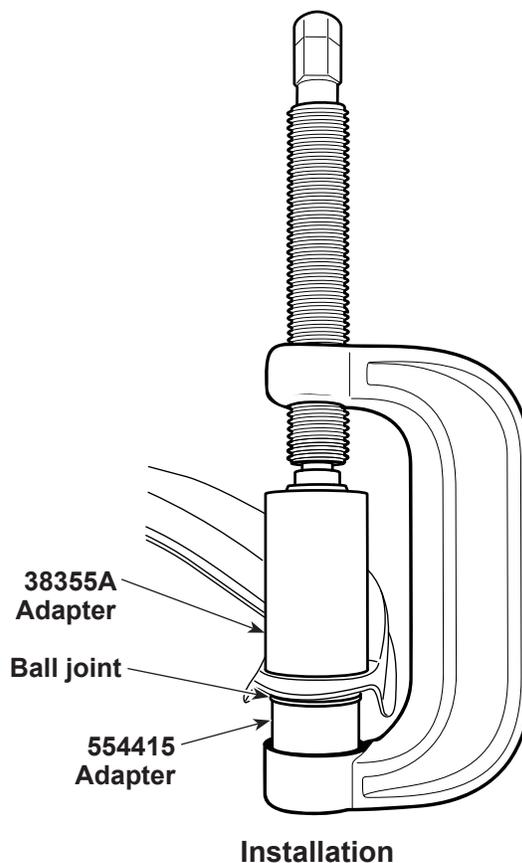
## Removal

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.



## Installation

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.



# Ball Joint: Lower Front

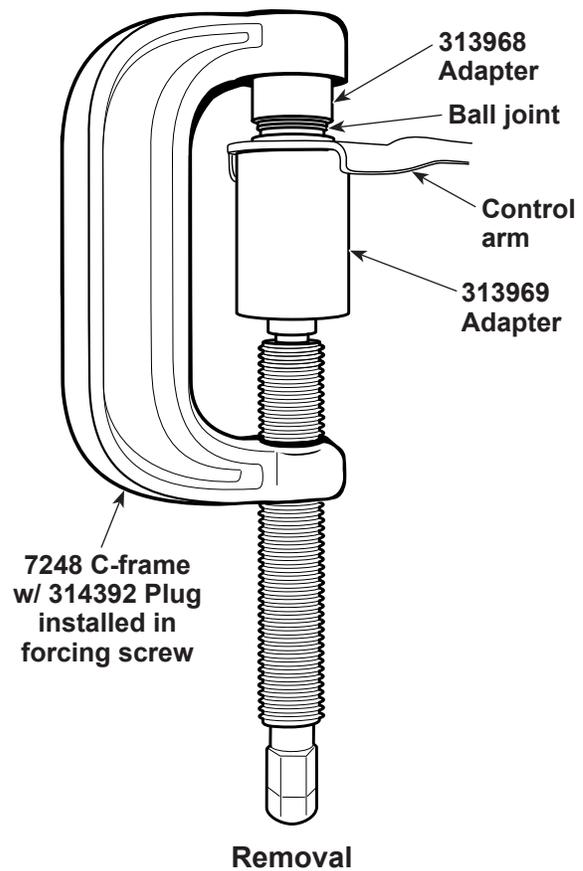
## Application

Nissan Versa 2007-2012

*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.



## Installation

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.

