

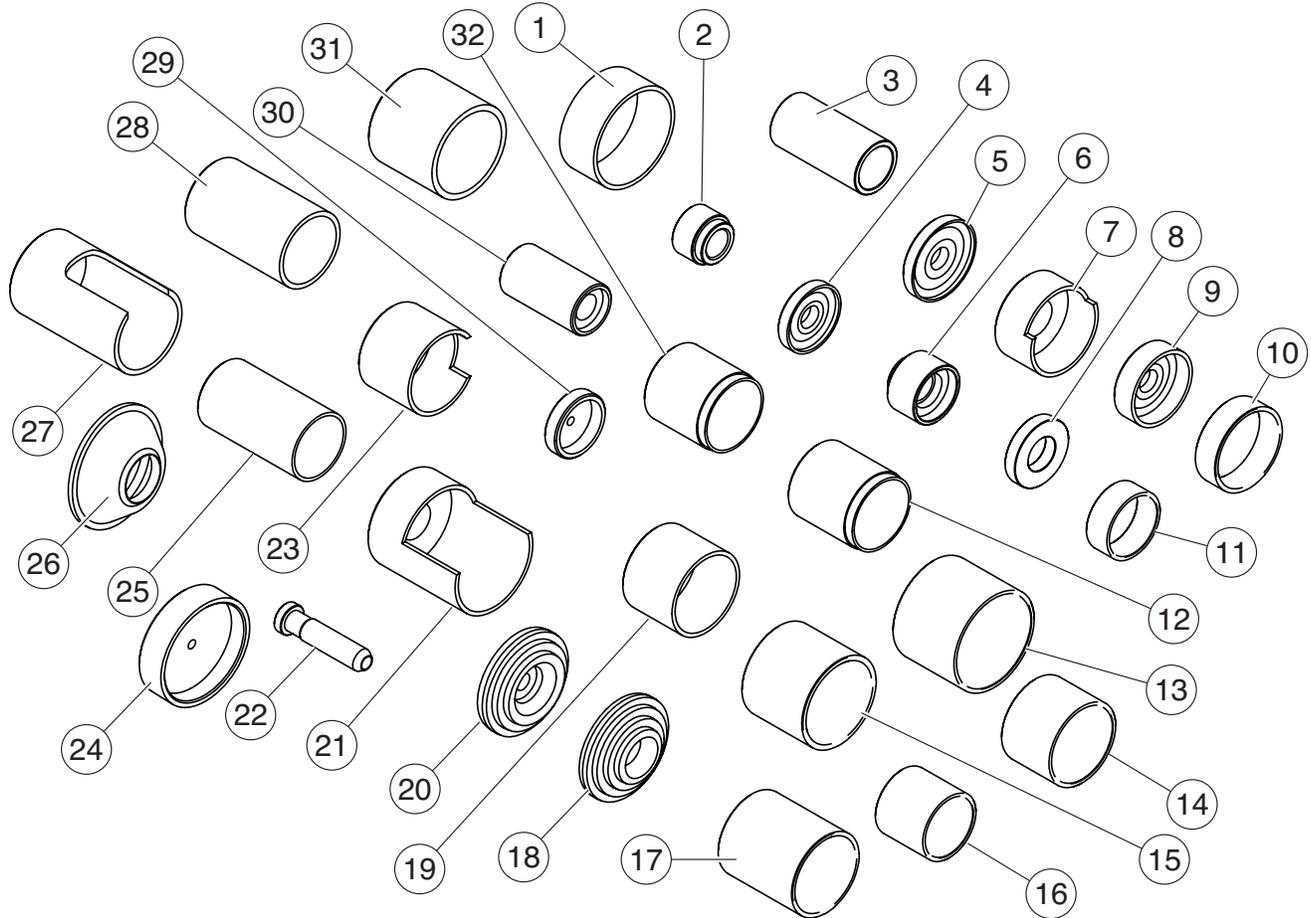


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Form No. 558177

Parts List for: 6539-3

Ford and Mazda Truck Ball Joint Adapter Kit



Parts List

Item No.	Part No.	Description	Item No.	Part No.	Description	Item No.	Part No.	Description
1	555532	Adapter	12	38354	Adapter	23	531739	Adapter
2	313968	Adapter	13	29503	Adapter	24	557010	Adapter
3	554419	Adapter	14	29504	Adapter	25	38355A	Adapter
4	554414	Adapter	15	222307	Adapter	26	556930	Adapter
5	555380	Adapter	16	29505	Adapter	27	554592	Adapter
6	554415	Adapter	17	222305	Adapter	28	555379	Adapter
7	555377	Adapter	18	305227	Adapter	29	554403	Adapter
8	555378	Adapter	19	39976	Adapter	30	538590	Adapter
9	204508A	Adapter	20	305228	Adapter	31	554478	Adapter
10	222304	Adapter	21	313444	Adapter	32	554413	Adapter
11	554422	Adapter	22	314392	Plug			

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Issue Date: Rev. C, September 15, 2017

Ford

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
Aerostar 2WD	1986-1997	Van	Lower	Front	29503, 305228, 554415	29504 & 305227 or 39976, 555380	11
Aerostar 4WD	1986-1997	Van	Lower	Front	29504 & 305227 or 39976	29505, 204508A, 305227	12
Bronco	1980-1996	SUV	Lower	Front	38354	38355A, 204508A	13
Bronco	1980-1996	SUV	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
Bronco II 4WD w/ Dana 28 axle	1984-1990	SUV	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Bronco II 4WD w/ Dana 28 axle	1984-1990	SUV	Upper	Front	29504, 305227	29505, 204508A, 305227	16
Bronco II 4WD w/ Dana 35 axle	1990	SUV	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Bronco II 4WD w/ Dana 35 axle	1990	SUV	Upper	Front	29504, 305227	29505, 204508A, 305227	16
E-150	1992-2004	Van	Lower	Front	29504 & 305227 or 39976	29505, 204508A, 305227	17
E-150	1992-2006	Van	Lower	Front	305227 & 222307 or 554478	29505, 204508A, 305227	19
E-150	2007-2014	Van	Lower	Front	313444 or 29503 & 305227	38354, 204508A or 305228 & 222304	20
E-150	1992-2014	Van	Upper	Front	222305, 305227	29505, 204508A, 305227	17
E-150	2003-2008	Van	Upper	Front	29504 & 305227 or 39976 or 531739	29505, 204508A, 305227	19
E-250	1992-2014	Van	Lower	Front	313444 or 29503 & 305227	38354, 204508A or 305228 & 222304	20
E-250	1992-2014	Van	Upper	Front	222305, 305227	29505, 204508A, 305227	17
E-250	2005-2008	Van	Upper	Front	29504 & 305227 or 39976 or 531739	29505, 204508A, 305227	19
E-350	1992-2017	Van	Lower	Front	313444 or 29503 & 305227	38354, 204508A or 305228 & 222304	21
E-350	1992-2017	Van	Upper	Front	222305, 305227	29505, 204508A, 305227	18
E-350	2005-2008	Van	Upper	Front	29504 & 305227 or 39976 or 531739	29505, 204508A, 305227	20
E-450	2000-2017	Van	Lower	Front	313444 or 29503 & 305227	38354, 204508A or 305228 & 222304	21
E-450	1992-2017	Van	Upper	Front	222305, 305227	29505, 204508A, 305227	18
E-450	2005-2008	Van	Upper	Front	29504 & 305227 or 39976 or 531739	29505, 204508A, 305227	20

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Ford *(continued)*

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
Escape 2WD/4WD	2001-2012	SUV	Lower	Front	313968, 554413	555378, 204508A, 38354	22
Excursion 2WD	2000-2005	SUV	Lower	Front	222305, 305227	38354, 204508A	23
Excursion 2WD	2000-2005	SUV	Upper	Front	38354	38355A, 204508A	24
Excursion 4WD	2000-2005	SUV	Lower	Front	222305, 305227	38354, 204508A	25
Excursion 4WD w/ monobeam axle	2000-2005	SUV	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
Expedition 2WD/4WD	1997-2002	SUV	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Expedition 2WD/4WD	1997-2002	SUV	Upper	Front	554419, 555377	555379, 555380	27
Expedition 2WD/4WD	2003-2006	SUV	Lower	Front	313444	204508A, 29504, 305227 or 39976 or 531739	28
Explorer 2WD/4WD	1996-2010	SUV	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Explorer 2WD/4WD	1995-2001	SUV	Upper	Front	554419, 555377	555379, 555380	27
Explorer 2WD/4WD	2002-2005	SUV	Upper	Front	313968, 554419, 555377	38355A, 554403, 554413	29
Explorer 2WD/4WD	2006-2010	SUV	Upper	Front	554415, 554419, 555377	305227 & 554422 or 554414, 554592	30
Explorer 4WD	1991-1994	SUV	Upper	Front	29504, 305227	38355A, 204508A	38
Explorer 4WD w/ Dana 28 axle	1991-1994	SUV	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Explorer 4WD w/ Dana 28 axle	1991-1994	SUV	Upper	Front	29504, 305227	29505, 204508A, 305227	16
Explorer 4WD w/ Dana 35 axle	1991-1994	SUV	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Explorer 4WD w/ Dana 35 axle	1991-1994	SUV	Upper	Front	29504, 305227	29505, 204508A, 305227	16
Explorer Sport Trac	2007-2010	SUV	Upper	Front	554415, 554419, 555377	305227 & 554422 or 554414, 554592	30
Explorer Sport/ Sport Trac 2WD/4WD	2001-2010	SUV	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Explorer Sport/ Sport Trac 2WD/4WD	2001-2005	SUV	Upper	Front	554419, 555377	555379, 555380	27
F-150 2WD	1987-1996	Truck	Lower	Front	29504, 305227	29505, 204508A, 305227	31
F-150 2WD	1987-1996	Truck	Upper	Front	38354	29505, 204508A, 305227	32
F-150 2WD/4WD	1997-2003	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
F-150 2WD/4WD	1997-2004	Truck	Upper	Front	554419, 555377	555379, 555380	27
F-150 2WD/4WD	2004-2012	Truck	Lower	Front	313444	204508A, 29504, 305227 or 39976 or 531739	28

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Ford *(continued)*

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
F-150 4WD	1980-1996	Truck	Lower	Front	38354	38355A, 204508A	13
F-150 4WD	1980-1996	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-150 Heritage & Lightning	2004	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
F-150 Heritage & Lightning	2004	Truck	Upper	Front	554419, 555377	555379, 555380	27
F-250 2WD	1987-1996	Truck	Lower	Front	29504, 305227	38354, 204508A or 222034 & 305228	33
F-250 2WD	1987-1996	Truck	Upper	Front	38354	29505, 204508A, 305227	32
F-250 HD 2WD w/ twin I-beam axle	1997	Truck	Lower	Front	29504, 305227	38354, 204508A or 222034 & 305228	33
F-250 HD 2WD w/ twin I-beam axle	1997	Truck	Upper	Front	38354	29505, 204508A, 305227	32
F-250 4WD w/ 3850 lb. axle (except 4.10 ratio)	1980-1996	Truck	Lower	Front	38354	38355A, 204508A	13
F-250 4WD w/ 4600 lb. axle	1980-1996	Truck	Lower	Front	222305 & 305227 or 39976	38354, 204508A	34
F-250 4WD w/ twin I-beam axle	1980-1996	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-250 4WD (under 8500 lb. GVW)	1997-1999	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
F-250 4WD (under 8500 lb. GVW)	1997-1999	Truck	Upper	Front	554419, 555377	555379, 555380	27
F-250 Heavy Duty 4WD w/ 4600 lb. twin I-beam axle	1997	Truck	Lower	Front	222305 & 305227 or 39976	38354, 204508A	34
F-250 Heavy Duty w/ 4600 lb. twin I-beam axle	1997	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-250 Super Duty	1999-2015	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-250 Super Duty 2WD w/ twin I-beam axle	1997-2015	Truck	Lower	Front	222305, 305227	38354, 204508A	23
F-250 Super Duty 2WD w/ twin I-beam axle	1999-2015	Truck	Upper	Front	38354	38355A, 204508A	24
F-250 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Lower	Front	222305, 305227	38354, 204508A	26
F-250 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14

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Ford *(continued)*

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Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
F-350	1992-1997	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-350 2WD	1987-1998	Truck	Lower	Front	222305, 305227	38354, 204508A	23
F-350 2WD	1987-1998	Truck	Upper	Front	38354	29505, 204508A, 305227	32
F-350 2WD	1987-1997	Truck	Lower	Front	29504, 305227	38354, 204508A or 222034 & 305228	33
F-350 4WD w/ monobeam axle	1992-1997	Truck	Lower	Front	222305, 305227	38354, 204508A	25
F-350 4WD w/ monobeam axle	1992-1997	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-350 Super Duty	1997-2014	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-350 Super Duty 2WD w/ twin I-beam axle	1999-2014	Truck	Lower	Front	222305, 305227	38354, 204508A	23
F-350 Super Duty 2WD w/ twin I-beam axle	1999-2014	Truck	Upper	Front	38354	38355A, 204508A	24
F-350 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Lower	Front	222305, 305227	38354, 204508A	25
F-350 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-450 Super Duty	1997-2004, 2011-2017	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-450 Super Duty 2WD/4WD	2005-2008	Truck	Lower	Front	222306, 556930	222307, 556930, 557010	35
F-450 Super Duty 2WD/4WD	2005-2008	Truck	Upper	Front	222307, 305227	38354, 222304, 305228	36
F-450 Super Duty 2WD/4WD w/ monobeam axle	2011-2017	Truck	Lower	Front	222305, 305227	38354, 204508A	25
F-450 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-550 Super Duty	1999-2004	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
F-550 Super Duty 2WD/4WD	2005-2008	Truck	Lower	Front	222306, 556930	222307, 556930, 557010	35
F-550 Super Duty 2WD/4WD	2005-2008	Truck	Upper	Front	222307, 305227	38354, 222304, 305228	36
F-550 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Lower	Front	222305, 305227	38354, 204508A	25

(continued on the next page)

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

Ford (continued)

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
F-550 Super Duty 2WD/4WD w/ monobeam axle	1999-2017	Truck	Upper	Front	38354 or 39976	38355A or 305227 & 29505, 204508A	14
Ranger 2WD	1989-1997	Truck	Lower	Front	29504, 305227	29505, 305227, 204508A	31
Ranger 2WD	1989-1997	Truck	Upper	Front	38354	29505, 204508A, 305227	32
Ranger 2WD w/ coil springs	1998-2011	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
Ranger 2WD w/ coil springs	1998-2007	Truck	Upper	Front	38354, 538590	38355A, 204508A, 555378	40
Ranger 2WD/4WD w/ torsion bar suspension	1998-2011	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Ranger 2WD/4WD w/ torsion bar suspension	1998-2010	Truck	Upper	Front	554419, 555377	555379, 555380	27
Ranger 4WD	1989-1997	Truck	Upper	Front	29504, 305227	38355A, 204508A	38
Ranger 4WD w/ Dana 28 axle	1983-1997	Truck	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Ranger 4WD w/ Dana 28 axle	1983-1997	Truck	Upper	Front	29504, 305227	29505, 204508A, 305227	16
Ranger 4WD w/ Dana 35 axle	1993-1997	Truck	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Ranger 4WD w/ Dana 35 axle	1993-1997	Truck	Upper	Front	29504, 305227	29505, 204508A, 305227	16

Lincoln

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Aviator	2003-2005	SUV	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Aviator 2WD/4WD	2003-2005	SUV	Upper	Front	313968, 554419, 555377	38355A, 554403, 554413	29
Blackwood	2002-2003	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Blackwood	2002-2003	Truck	Upper	Front	554419, 555377	555379, 555380	27
Mark LT	2006-2008	Truck	Lower	Front	313444	204508A, 29504, 305227 or 39976 or 531739	28
Navigator 2WD/4WD	1998-2002	SUV	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Navigator 2WD/4WD	1998-2002	SUV	Upper	Front	554419, 555377	555379, 555380	27
Navigator 2WD/4WD	2003-2006	SUV	Lower	Front	313444	204508A, 29504, 305227 or 39976 or 531739	28

Mazda

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
B2300 2WD	1994-1997	Truck	Lower	Front	29504, 305227	29505, 204508A, 305227	31
B2300 2WD w/ coil springs	2001-2004	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B2300 2WD w/ coil springs	2001-2002	Truck	Upper	Front	38354, 538590	38355A, 204508A, 555378	40
B2300 2WD w/ torsion bar suspension	2001-2010	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
B2300 2WD/4WD	2005-2008	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B2300 2WD/4WD w/ torsion bar suspension	2001-2004	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B2300 2WD/4WD w/ torsion bar suspension	2001-2004	Truck	Upper	Front	554419, 555377	555379, 555380	27
B2300 4WD	1995-1996	Truck	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
B2300 4WD	1995-1997	Truck	Upper	Front	29504, 305227	29505, 204508A, 305227	16
B2300 4WD	1994-1997	Truck	Upper	Front	29504, 305227	38355A, 204508A	38
B2500 2WD w/ coil springs	1998-2001	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B2500 2WD w/ coil springs	1998-2001	Truck	Upper	Front	38354, 538590	38355A, 204508A, 555378	40
B2500 2WD w/ torsion bar suspension	1998-2001	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
B2500 2WD/4WD w/ torsion bar suspension	1998-2001	Truck	Upper	Front	554419, 555377	555379, 555380	27
B2500 4WD w/ torsion bar suspension	1998-2001	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B3000 2WD	1994-1996	Truck	Lower	Front	29504, 305227	29505, 204508A, 305227	31
B3000 2WD w/ coil springs	1998-2004	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B3000 2WD w/ coil springs	1998-2002	Truck	Upper	Front	38354, 538590	38355A, 204508A, 555378	40
B3000 2WD w/ torsion bar suspension	1998-2008	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
B3000 2WD/4WD	2005-2007	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39

Mazda (continued)

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
B3000 2WD/4WD w/ torsion bar suspension	2002-2004	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B3000 2WD/4WD w/ torsion bar suspension	1998-2007	Truck	Upper	Front	554419, 555377	555379, 555380	27
B3000 4WD	1994-1997	Truck	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
B3000 4WD	1994-1996	Truck	Upper	Front	29504, 305227	29505, 204508A, 305227	16
B3000 4WD	1994-1996	Truck	Upper	Front	29504, 305227	38355A, 204508A	38
B3000 4WD w/ torsion bar suspension	1998-2001	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B4000 2WD	1994-1997	Truck	Lower	Front	29504, 305227	29505, 204508A, 305227	31
B4000 2WD w/ coil springs	1998-2004	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B4000 2WD w/ coil springs	1998-2002	Truck	Upper	Front	38354, 538590	38355A, 204508A, 555378	40
B4000 2WD w/ torsion bar suspension	1998-2010	Truck	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
B4000 2WD/4WD	2005-2008	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B4000 2WD/4WD w/ torsion bar suspension	2002-2004	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
B4000 2WD/4WD w/ torsion bar suspension	1998-2010	Truck	Upper	Front	554419, 555377	555379, 555380	27
B4000 4WD	1994-1997	Truck	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
B4000 4WD	1994-1997	Truck	Upper	Front	29504, 305227	29505, 204508A, 305227	16
B4000 4WD w/ torsion bar suspension	1998-2001	Truck	Lower	Front	313444	204508A, 531739 or 39976 or 29504 & 305227	39
MX6	1988-1997	Car	Lower	Front	38354, 314426	38354, 204508A	37
Navajo 2WD	1992-1994	SUV	Lower	Front	29504, 305227	29505, 204508A, 305227	31
Navajo 4WD	1992-1994	SUV	Upper	Front	29504, 305227	38355A, 204508A	38
Navajo 4WD w/ Dana 35 axle	1991-1994	SUV	Lower	Front	29504, 305227	29505, 305227, 204508A or 222304 & 305228	15
Navajo 4WD w/ Dana 35 axle	1993-1994	SUV	Upper	Front	29504, 305227	29505, 204508A, 305227	16
Tribute 2WD/4WD	2001-2006, 2011	SUV	Lower	Front	313968, 554413	555378, 204508A, 38354	22

Mercury

Model	Year	Type	Position	Location	Removal Adapters	Installation Adapters	Page
Mariner 2WD/4WD	2005-2011	SUV	Lower	Front	313968, 554413	555378, 204508A, 38354	22
Mountaineer	1997-2010	SUV	Lower	Front	313444 or 305227 & 29503	204508A, 531739 or 29504 & 305227	26
Mountaineer	1997-2001	SUV	Upper	Front	554419, 555377	555379, 555380	27
Mountaineer 2WD/4WD	2002-2005	SUV	Upper	Front	313968, 554419, 555377	38355A, 554403, 554413	29
Mountaineer 2WD/4WD	2006-2010	SUV	Upper	Front	554415, 554419, 555377	305227 & 554422 or 554414, 554592	30

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.

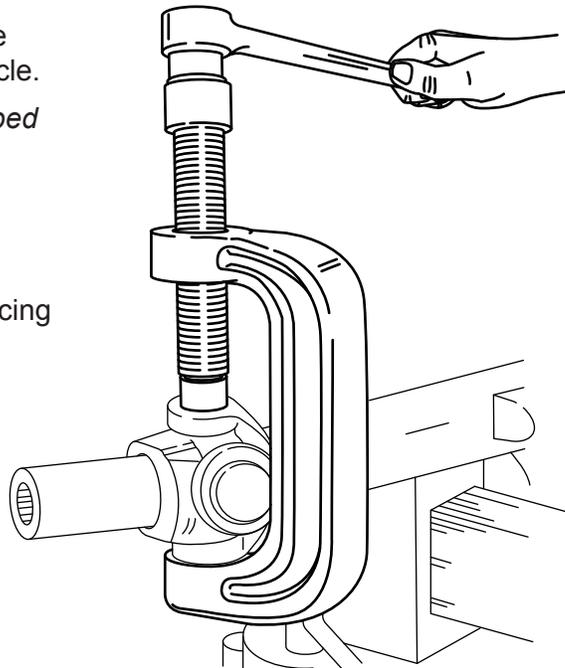
Note: This application uses the standard plug (29501) shipped with the forcing screw, not the 314392.

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

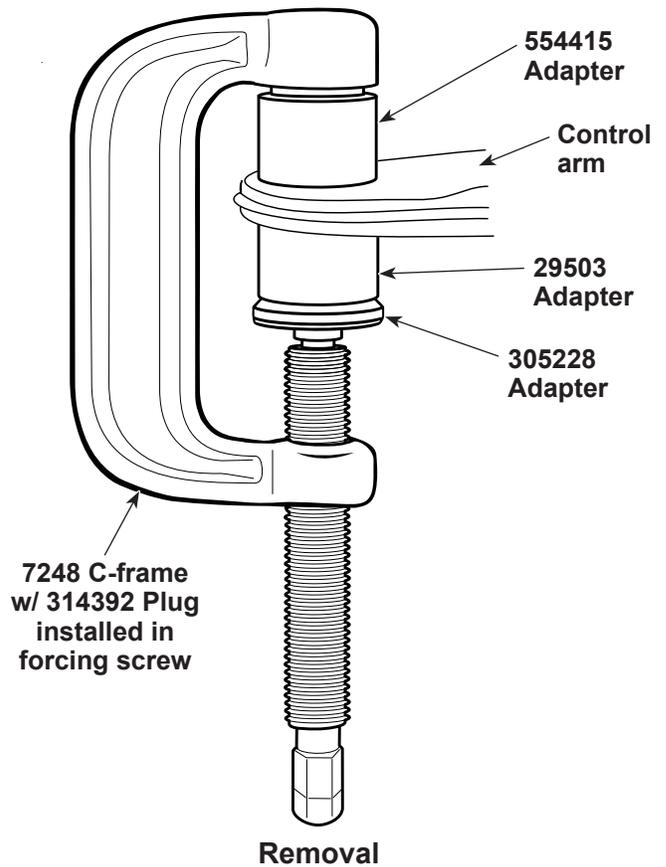
Application

Ford Aerostar 2WD 1986-1997

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

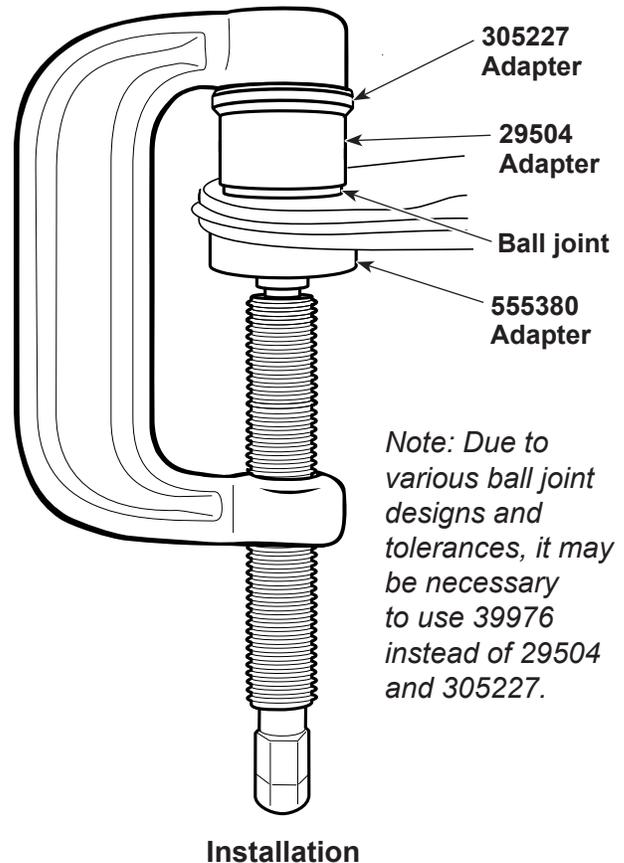
Removal

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.



Note: Due to various ball joint designs and tolerances, it may be necessary to use 39976 instead of 29504 and 305227.

Ball Joint: Lower Front

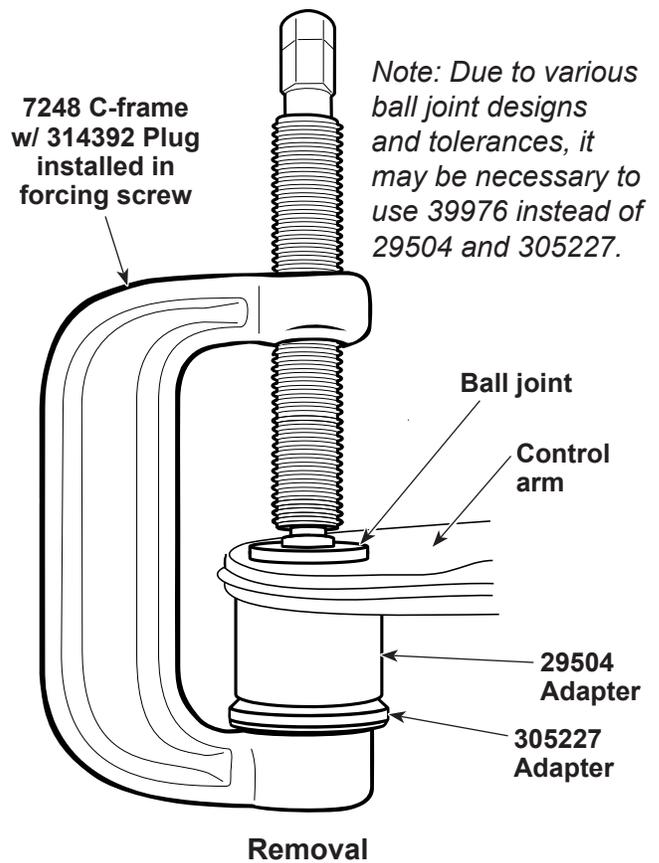
Application

Ford Aerostar 4WD 1986-1997

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

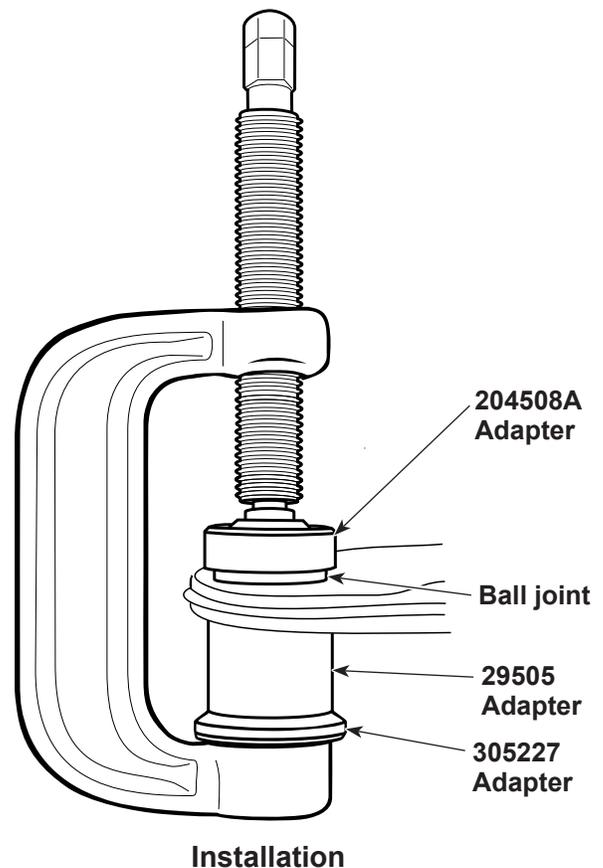
Removal

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

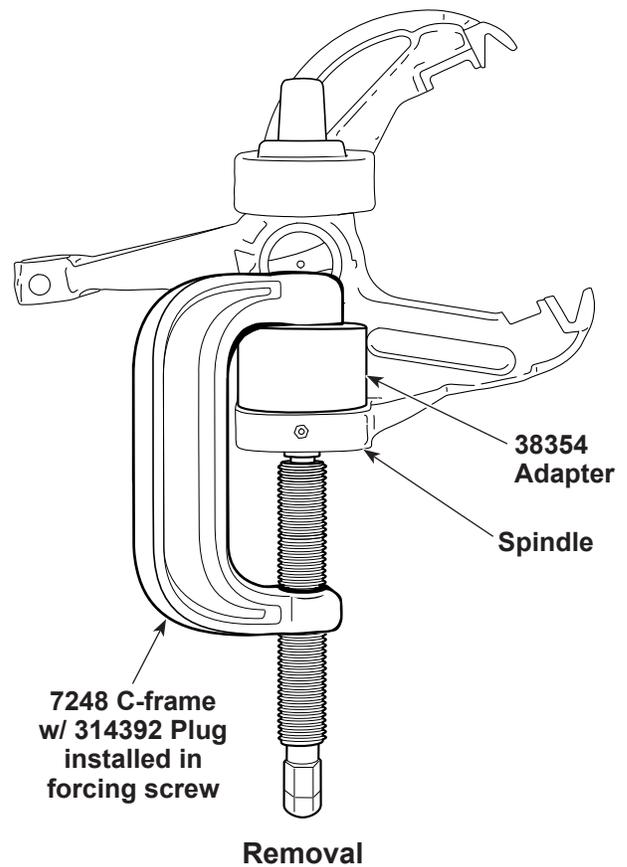
Application

- Ford Bronco 1980-1996
- Ford F-150 4WD 1980-1996
- Ford F-250 4WD w/ 3850 lb. axle
(except 4.10 ratio) 1980-1996

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

Removal

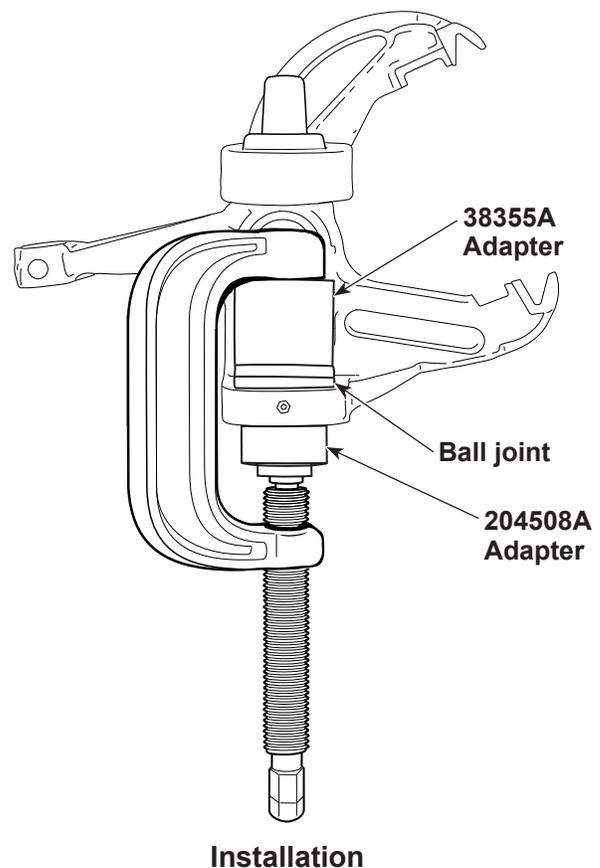
1. Remove dust boot.
2. Position components as shown.
3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
4. Tighten forcing screw until ball joint is removed.



Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.

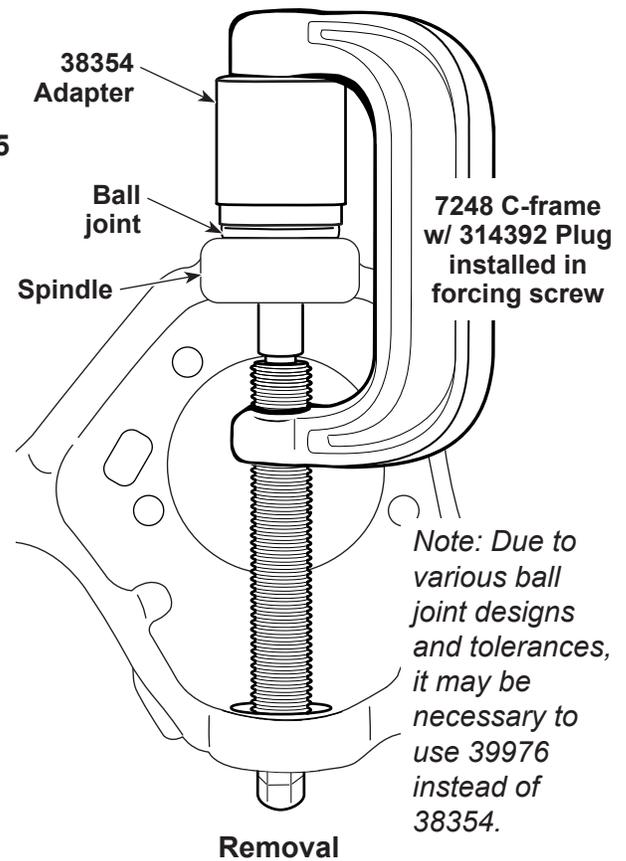


Ball Joint: Upper Front

Application

- Ford Bronco 1980-1996
- Ford Excursion 4WD w/ monobeam axle 2000-2005
- Ford F-150 4WD 1980-1996
- Ford F-250 4WD w/ twin I-beam axle 1980-1996
- Ford F-250 Heavy Duty 4WD w/ 4600 lb. twin I-beam axle 1997
- Ford F-250 Super Duty 1999-2015
- Ford F-250 Super Duty 2WD/4WD w/ monobeam axle 1999-2017
- Ford F-350 1992-1997
- Ford F-350 4WD w/ monobeam axle 1992-1997
- Ford F-350 Super Duty 1997-2014
- Ford F-350 Super Duty 2WD/4WD w/ monobeam axle 1999-2017
- Ford F-450 Super Duty 1997-2004, 2011-2017
- Ford F-450 Super Duty 2WD/4WD w/ monobeam axle 1999-2017
- Ford F-550 Super Duty 1999-2004
- Ford F-550 Super Duty 2WD/4WD w/ monobeam axle 1999-2017

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



Removal

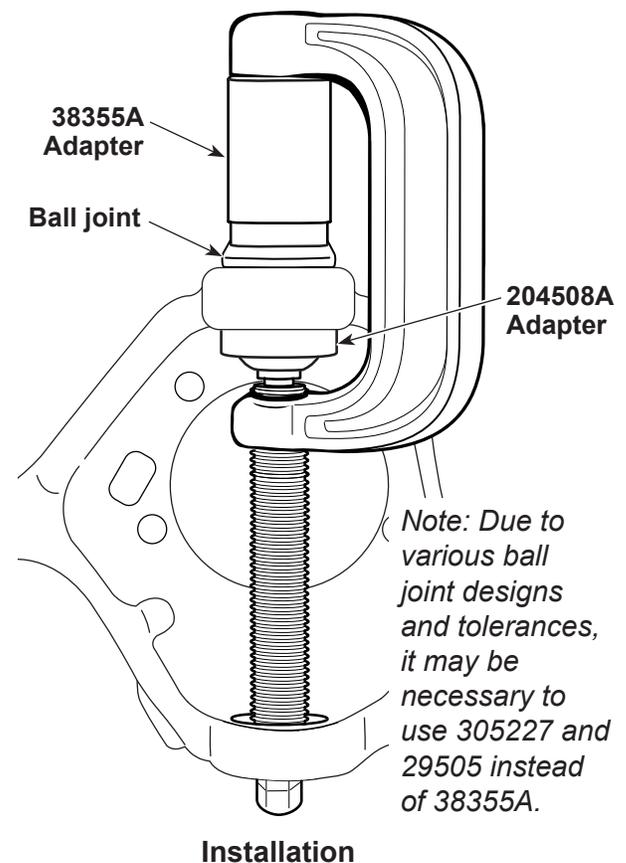
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

- Ford Bronco II 4WD w/ Dana 28 axle 1984-1990
- Ford Bronco II 4WD w/ Dana 35 axle 1990
- Ford Explorer 4WD w/ Dana 28 axle 1991-1994
- Ford Explorer 4WD w/ Dana 35 axle 1991-1994
- Ford Ranger 4WD w/ Dana 28 axle 1983-1997
- Ford Ranger 4WD w/ Dana 35 axle 1993-1997
- Mazda B2300 4WD 1995-1996
- Mazda B3000 4WD 1994-1997
- Mazda B4000 4WD 1994-1997
- Mazda Navajo 4WD w/ Dana 35 axle 1991-1994

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

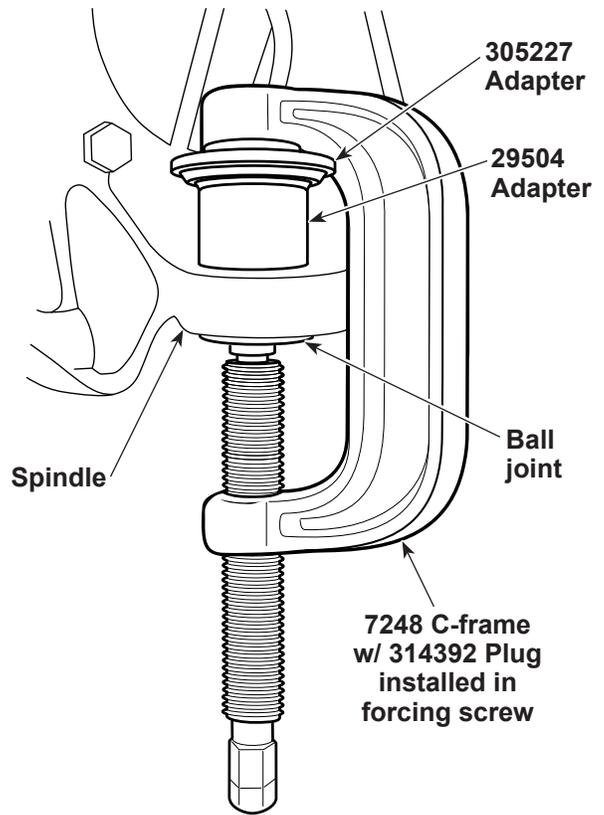
Removal

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.

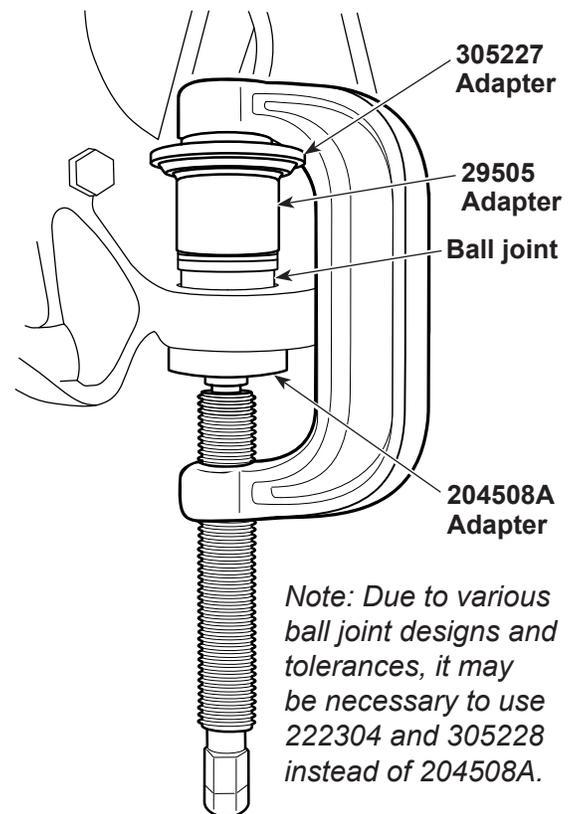
Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.



Removal



Note: Due to various ball joint designs and tolerances, it may be necessary to use 222304 and 305228 instead of 204508A.

Installation

Ball Joint: Upper Front

Application

Ford Bronco II 4WD w/ Dana 28 axle 1984-1990
Ford Bronco II 4WD w/ Dana 35 axle 1990
Ford Explorer 4WD w/ Dana 28 axle 1991-1994
Ford Explorer 4WD w/ Dana 35 axle 1991-1994
Ford Ranger 4WD w/ Dana 28 axle 1983-1997
Ford Ranger 4WD w/ Dana 35 axle 1993-1997
Mazda B2300 4WD 1995-1997
Mazda B3000 4WD 1994-1996
Mazda B4000 4WD 1994-1997
Mazda Navajo 4WD w/ Dana 35 axle 1993-1994

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

Removal

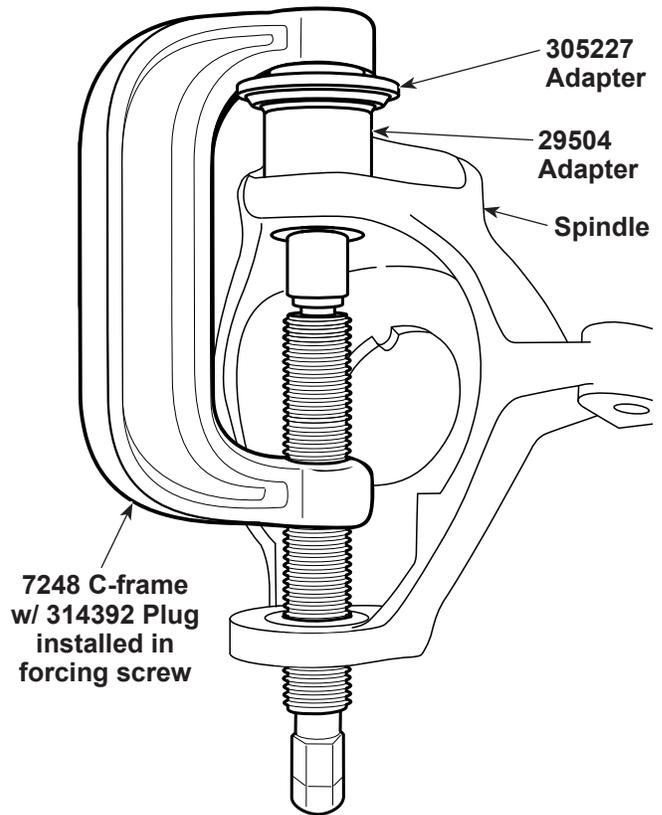
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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.

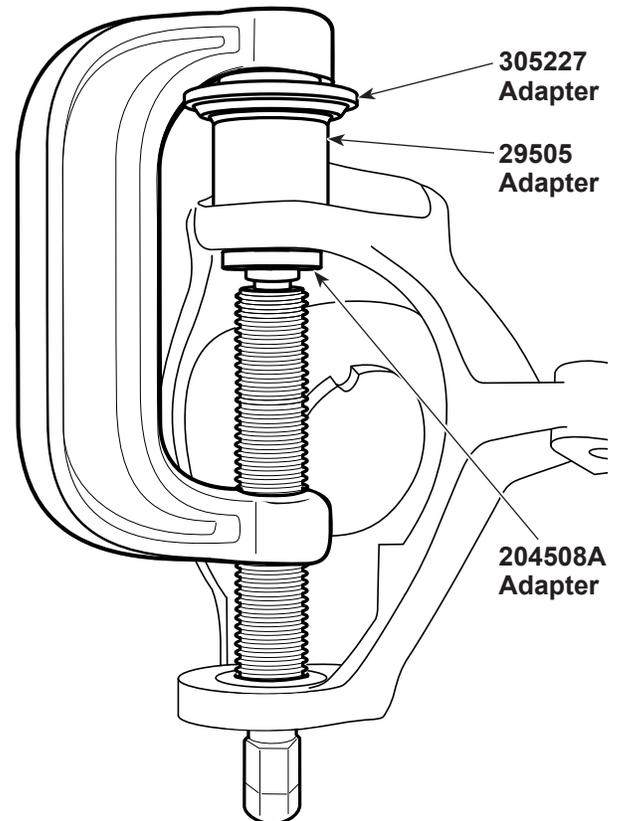
Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.



Removal



Installation

Ball Joint: Lower Front

Application

Ford E-150 1992-2004

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

Removal

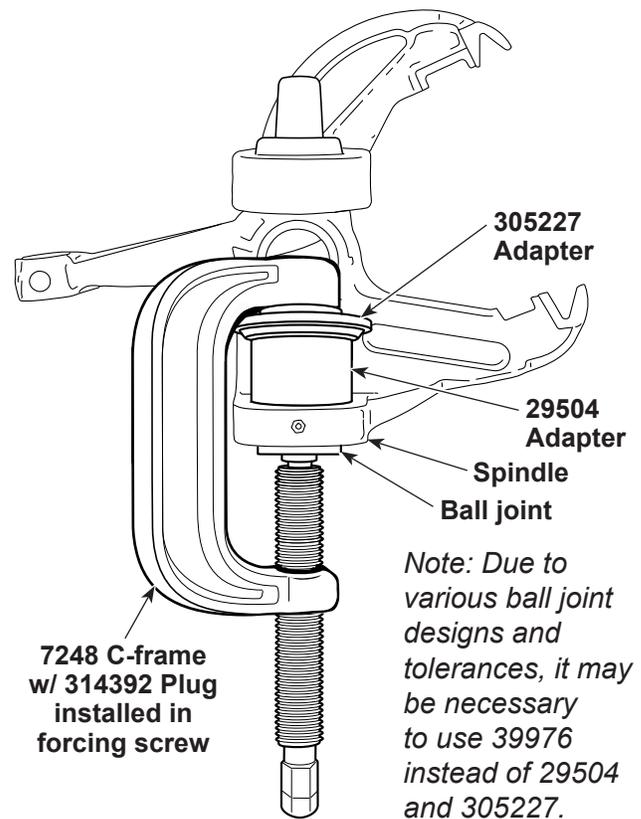
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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.

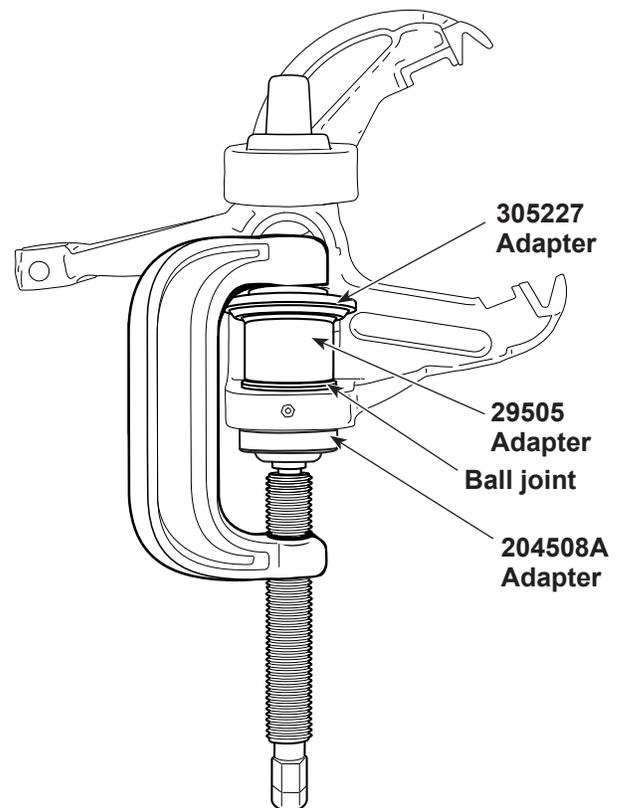
Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.



Removal



Installation

Ball Joint: Upper Front

Application

Ford E-150 1992-2014
Ford E-250 1992-2014
Ford E-350 1992-2017
Ford E-450 1992-2017

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

Removal

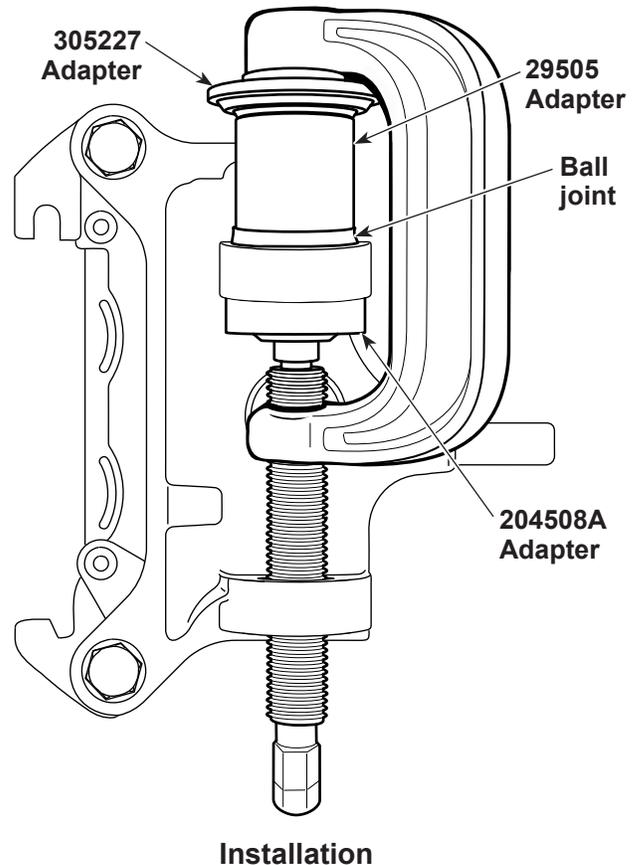
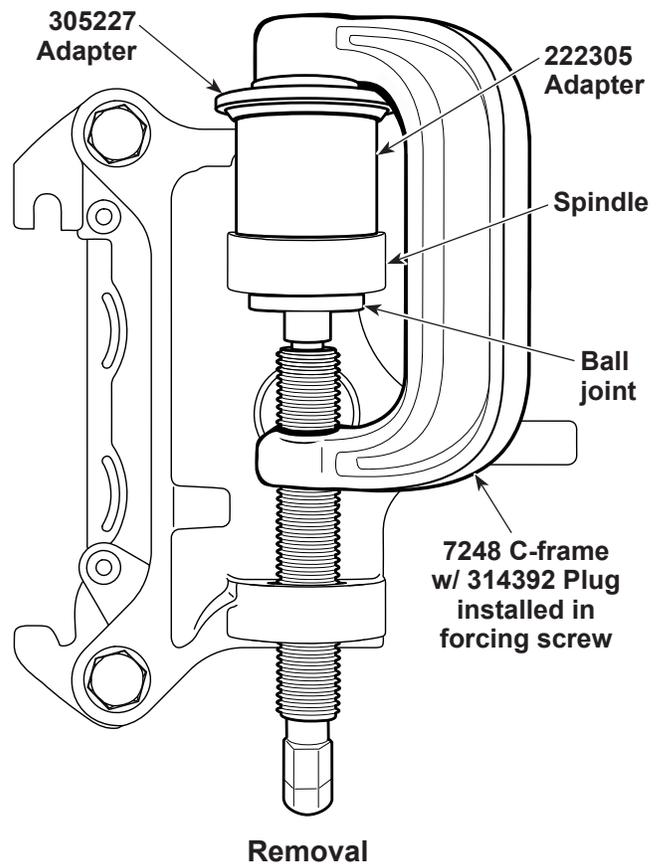
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

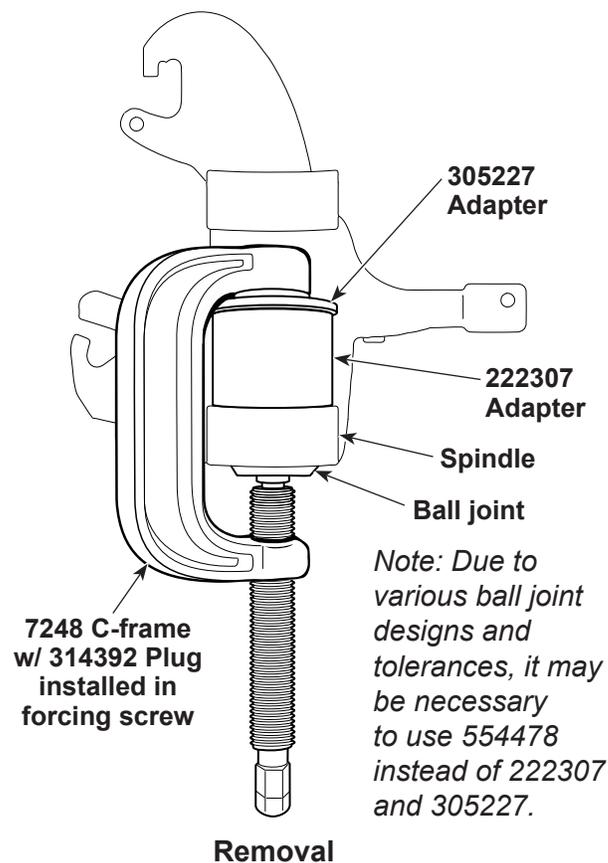
Application

Ford E-150 1992-2006

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

Removal

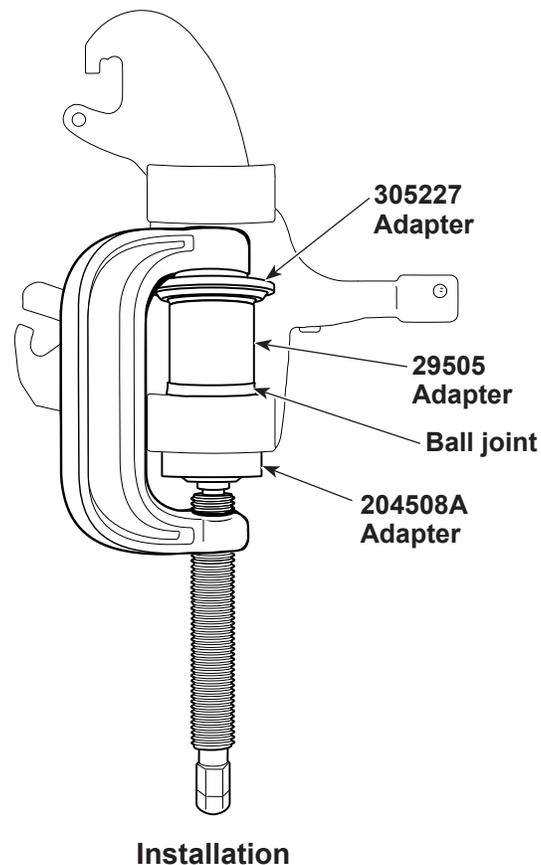
1. Remove dust boot.
2. Position components as shown.
3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
4. Tighten forcing screw until ball joint is removed.



Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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: Upper Front

Application

Ford E-150 2003-2008
Ford E-250 2005-2008
Ford E-350 2005-2008
Ford E-450 2005-2008

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

Removal

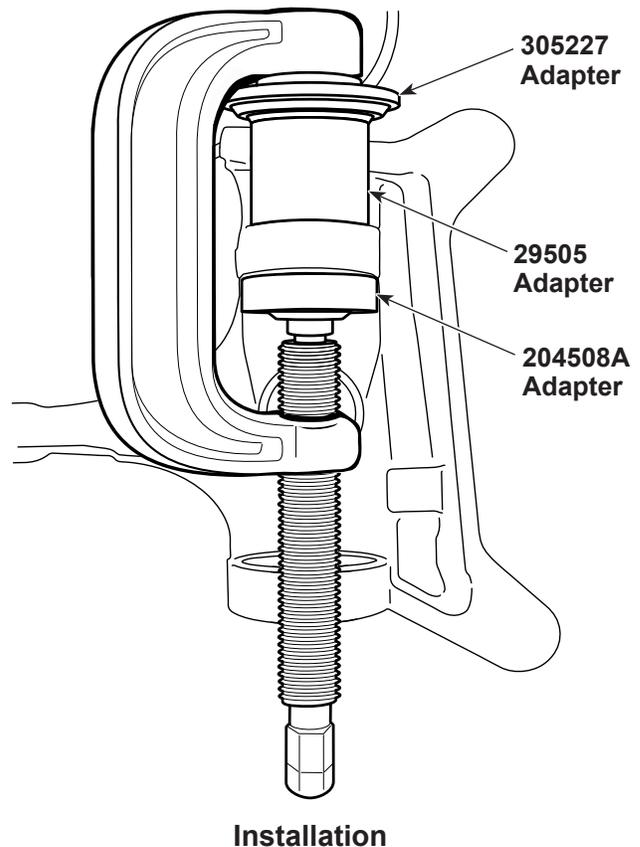
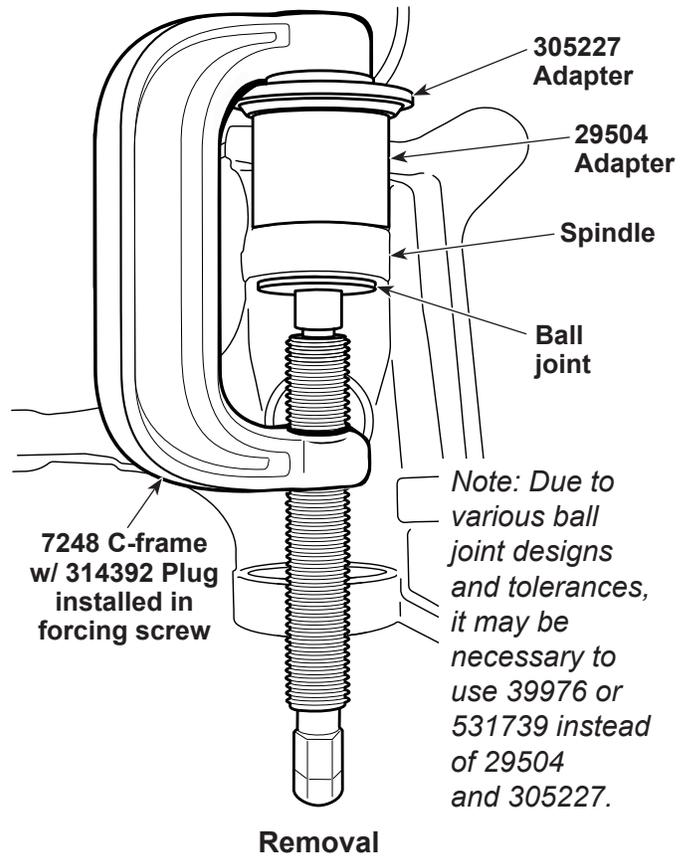
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

- Ford E-150 2007-2014
- Ford E-250 1992-2014
- Ford E-350 1992-2017
- Ford E-450 2000-2017

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

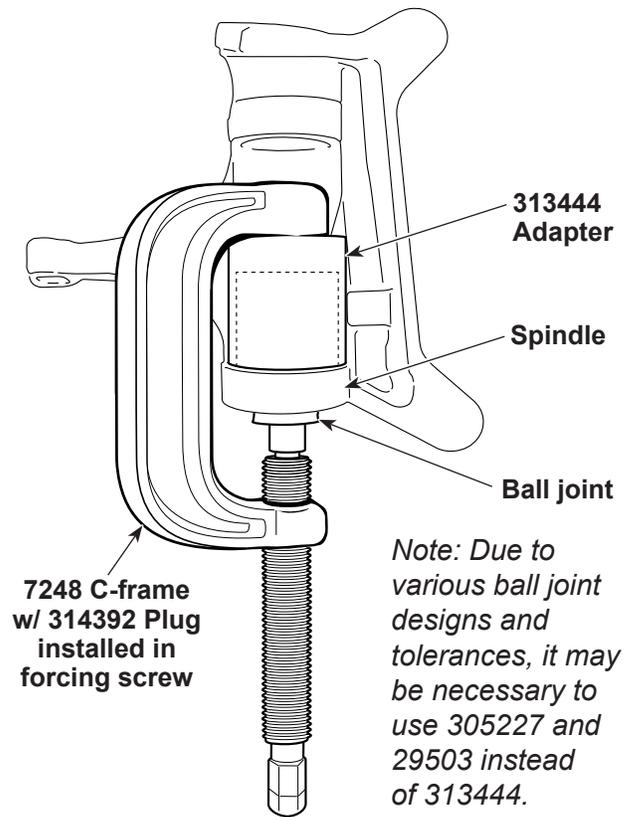
Removal

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.

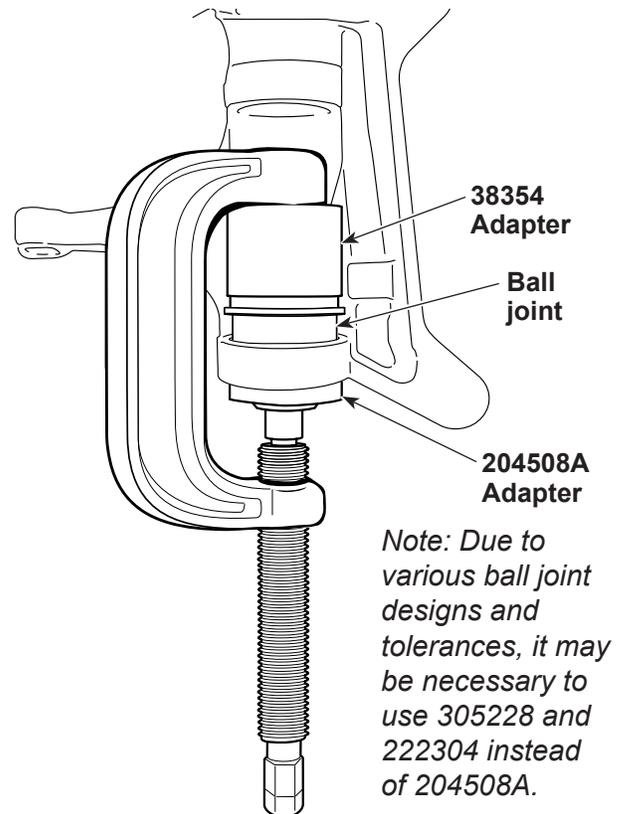
Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.



Removal



Installation

Ball Joint: Lower Front

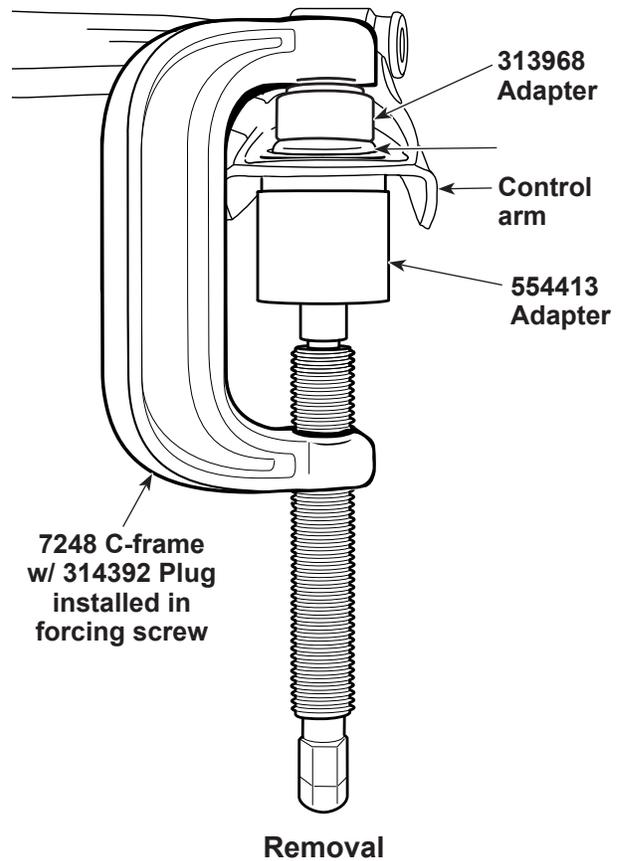
Application

Ford Escape 2WD/4WD 2001-2012
Mazda Tribute 2WD/4WD 2001-2006 & 2011
Mercury Mariner 2WD/4WD 2005-2011

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

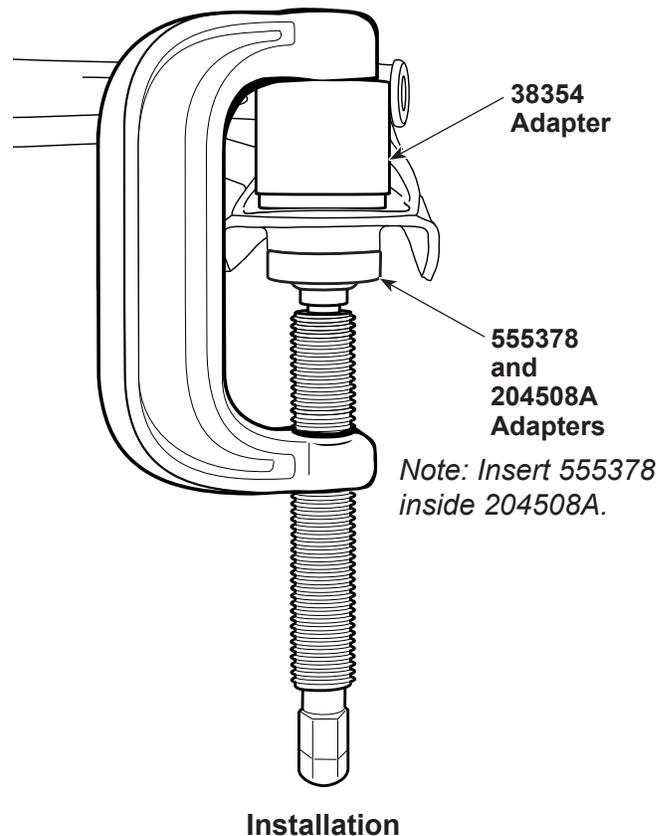
Removal

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.



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

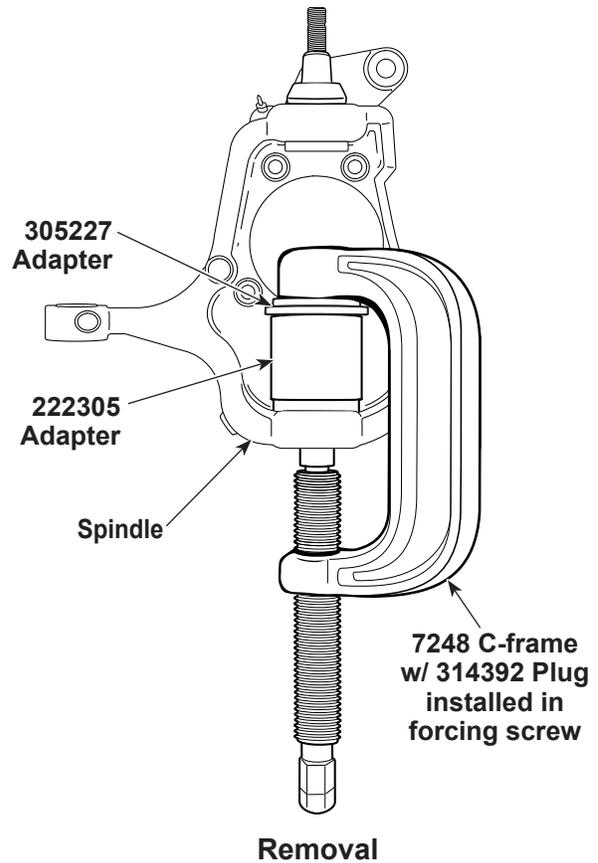
Application

Ford Excursion 2WD 2000-2005
Ford F-250 Super Duty 2WD
w/ twin I-beam axle 1997-2015
Ford F-350 2WD 1987-1998
Ford F-350 Super Duty 2WD
w/ twin I-beam axle 1999-2014

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

Removal

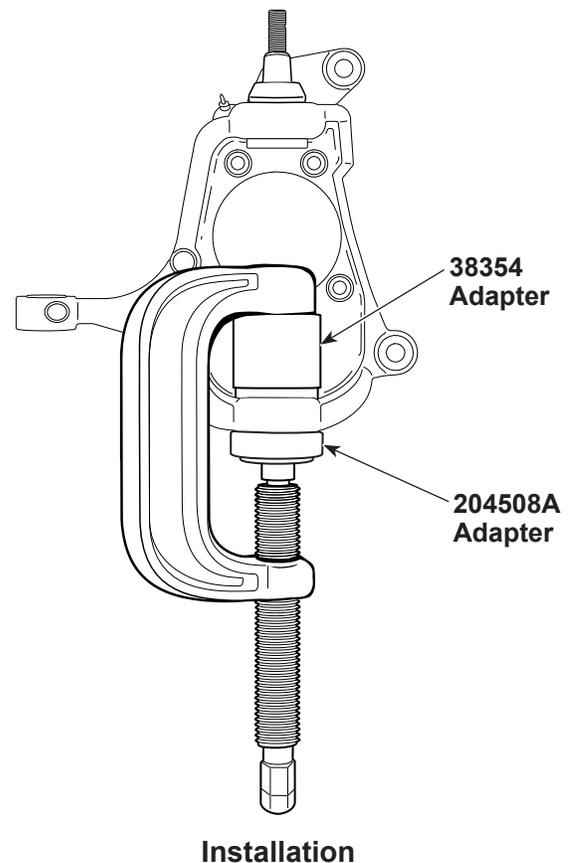
1. Remove dust boot.
2. Position components as shown.
3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
4. Tighten forcing screw until ball joint is removed.



Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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: Upper Front

Application

Ford Excursion 2WD 2000-2005
Ford F-250 Super Duty 2WD
w/ twin I-beam axle 1999-2015
Ford F-350 Super Duty 2WD
w/ twin I-beam axle 1999-2014

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

Removal

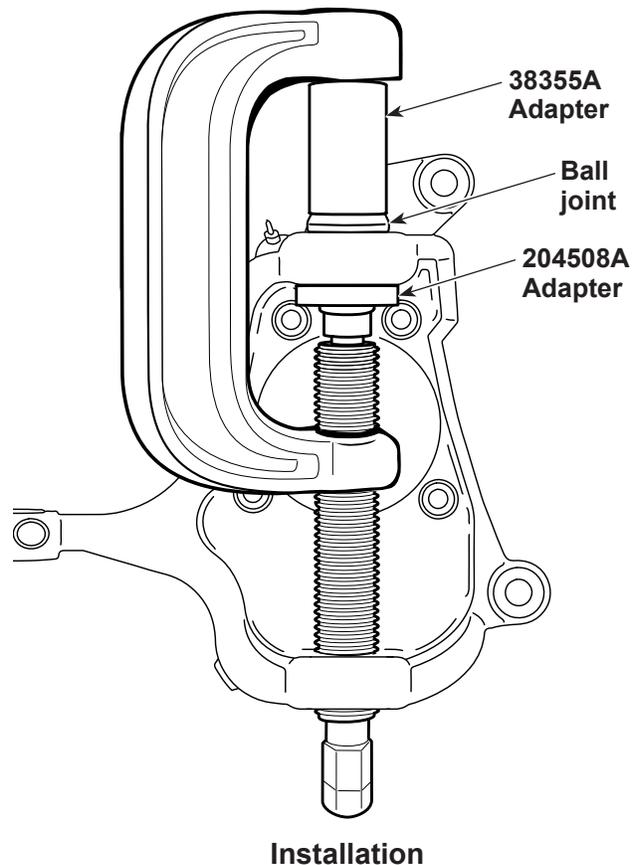
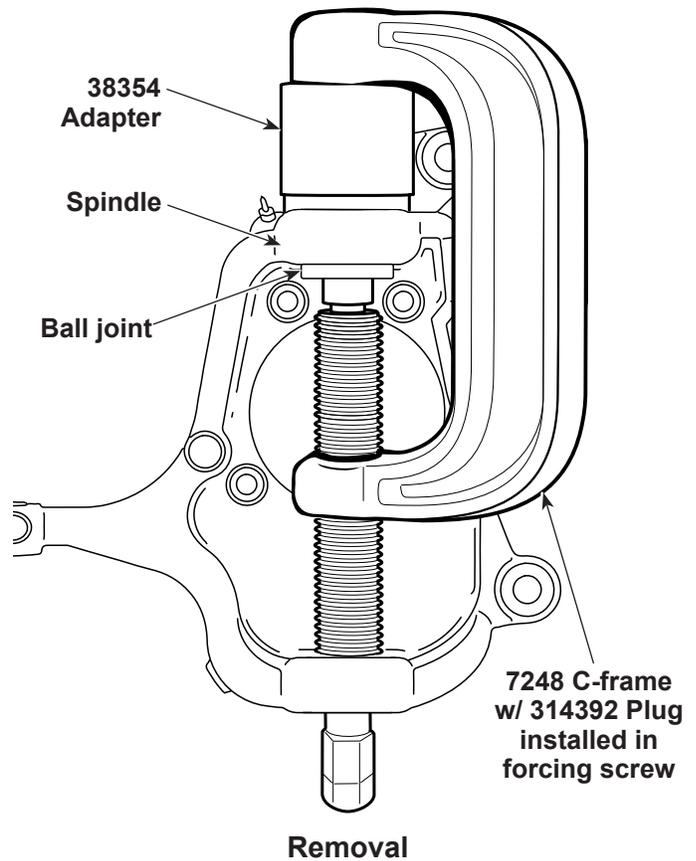
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

- Ford Excursion 4WD 2000-2005
- Ford F-250 Super Duty 2WD/4WD w/ monobeam axle 1999-2017
- Ford F-350 Super Duty 2WD/4WD w/ monobeam axle 1999-2017
- Ford F-350 4WD w/ monobeam axle 1992-1997
- Ford F-450 Super Duty 2WD/4WD w/ monobeam axle 2011-2017
- Ford F-550 Super Duty 2WD/4WD w/ monobeam axle 1999-2017

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

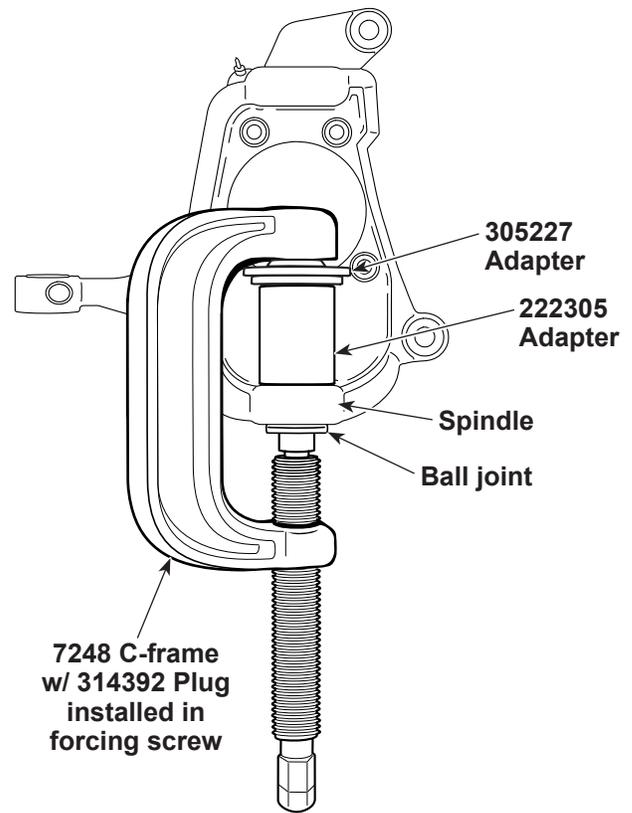
Removal

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.

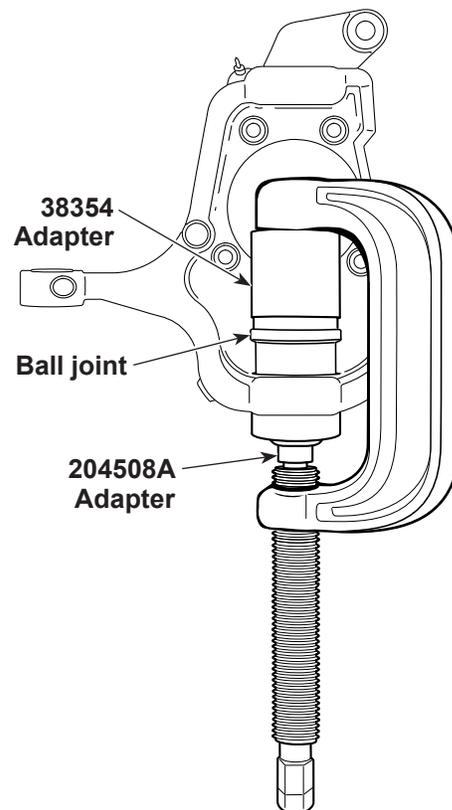
Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.



Removal

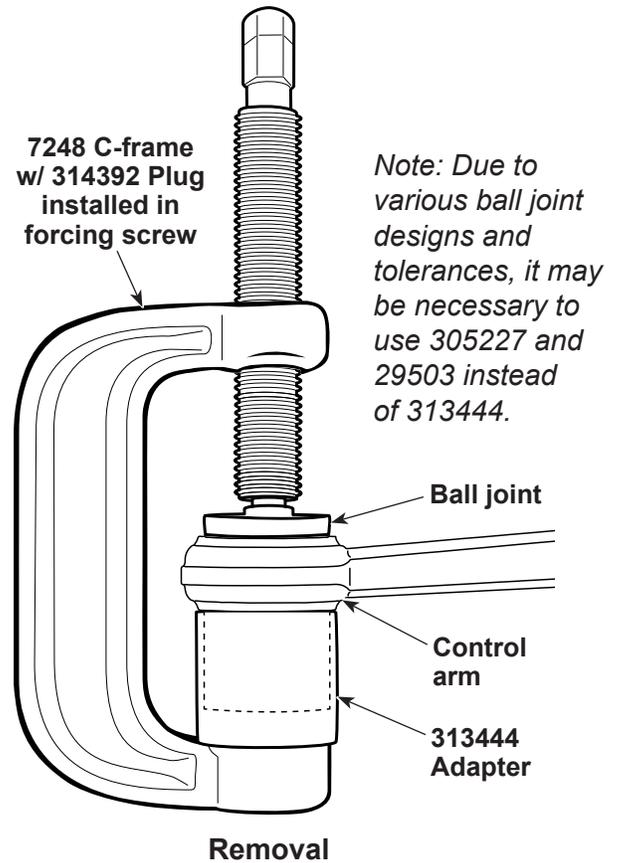


Installation

Ball Joint: Lower Front

Application

- Ford Expedition 2WD/4WD 1997-2002
- Ford Explorer 2WD/4WD 1996-2010
- Ford Explorer Sport 2WD/4WD 2001-2010
- Ford Explorer Sport Trac 2WD/4WD 2001-2010
- Ford F-150 2WD/4WD 1997-2003
- Ford F-150 Heritage 2004
- Ford F-150 Lightning 2004
- Ford F-250 4WD (under 8500 lb. GVW) 1997-1999
- Ford Ranger 2WD/4WD
 - w/ torsion bar suspension 1998-2011
- Lincoln Aviator 2003-2005
- Lincoln Blackwood 2002-2003
- Lincoln Navigator 2WD/4WD 1998-2002
- Mazda B2300 2WD
 - w/ torsion bar suspension 2001-2010
- Mazda B2500 2WD
 - w/ torsion bar suspension 1998-2001
- Mazda B3000 2WD
 - w/ torsion bar suspension 1998-2008
- Mazda B4000 2WD
 - w/ torsion bar suspension 1998-2010
- Mercury Mountaineer 1997-2010



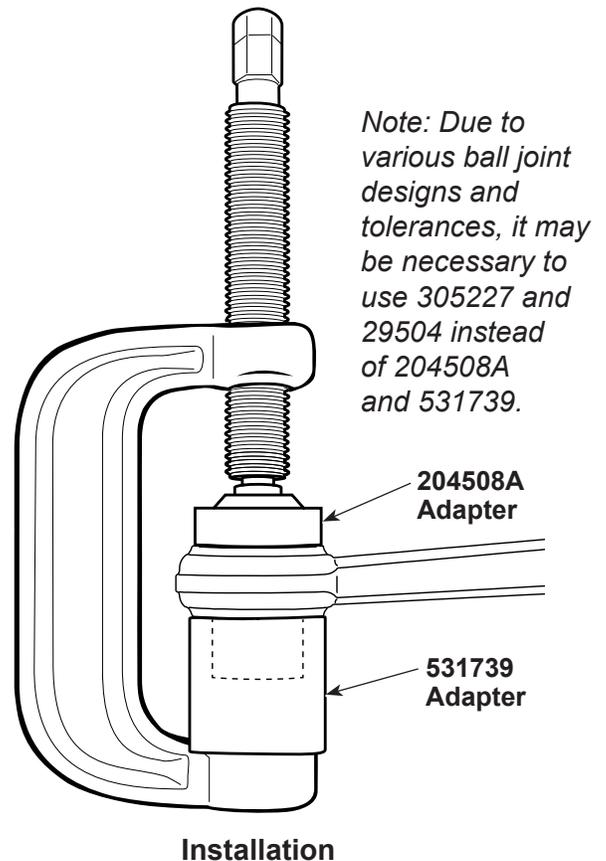
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

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: Upper Front

Application

Ford Expedition 2WD/4WD 1997-2002
Ford Explorer 2WD/4WD 1995-2001
Ford Explorer Sport 2WD/4WD 2001-2005
Ford Explorer Sport Trac 2WD/4WD 2001-2005
Ford F-150 2WD/4WD 1997-2004
Ford F-150 Heritage 2004
Ford F-150 Lightning 2004
Ford F-250 4WD (under 8500 lb. GVW) 1997-1999
Ford Ranger 2WD/4WD
w/ torsion bar suspension 1998-2010
Lincoln Blackwood 2002-2003
Lincoln Navigator 2WD/4WD 1998-2002
Mazda B2300 2WD/4WD
w/ torsion bar suspension 2001-2004
Mazda B2500 2WD/4WD
w/ torsion bar suspension 1998-2001
Mazda B3000 2WD/4WD
w/ torsion bar suspension 1998-2007
Mazda B4000 2WD/4WD
w/ torsion bar suspension 1998-2010
Mercury Mountaineer 1997-2001

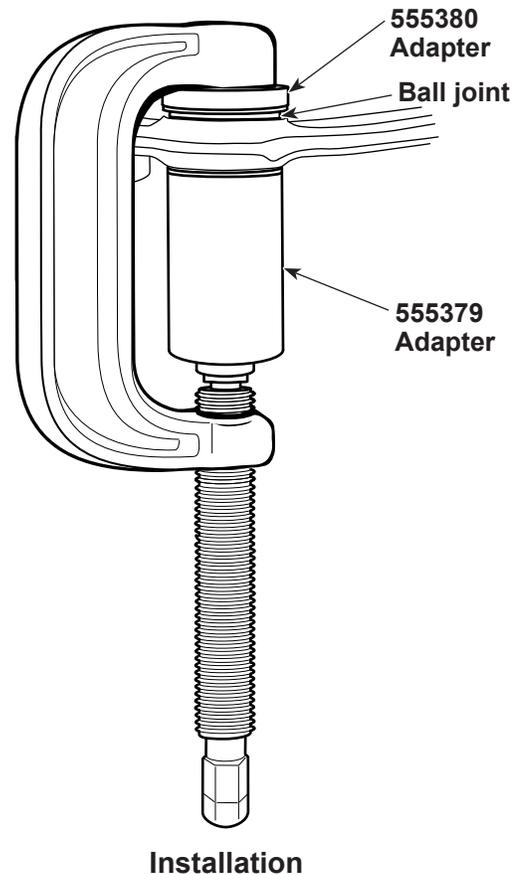
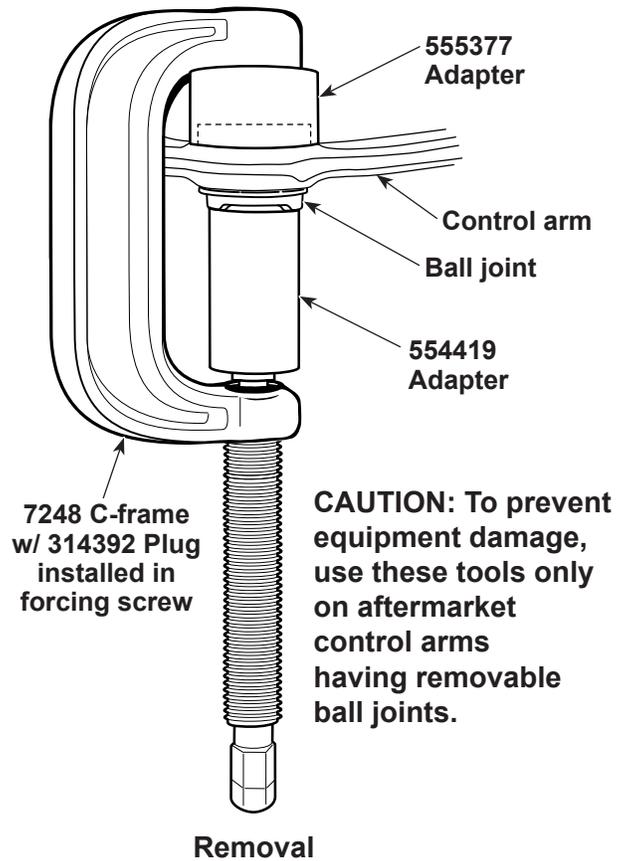
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

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

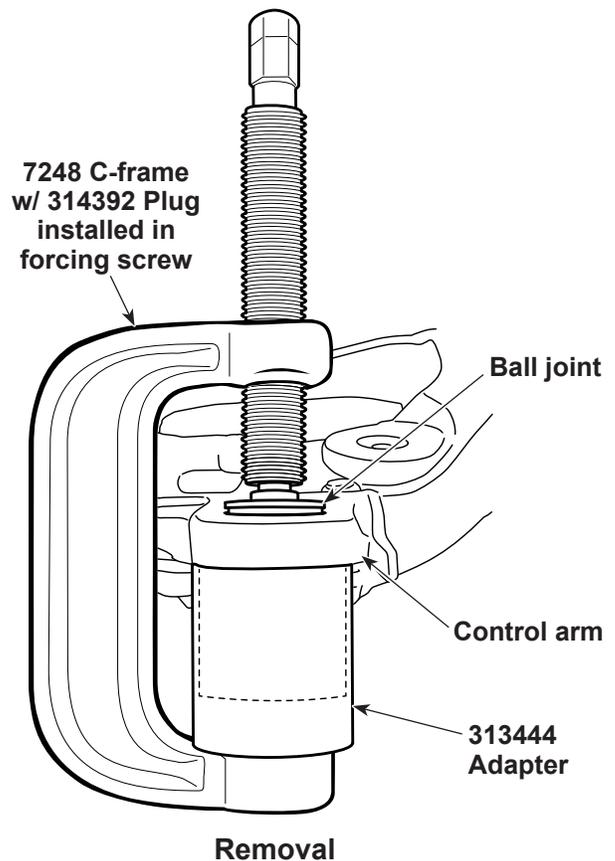
Application

Ford Expedition 2WD/4WD 2003-2006
Ford F-150 2WD/4WD 2004-2012
Lincoln Mark LT 2006-2008
Lincoln Navigator 2WD/4WD 2003-2006

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

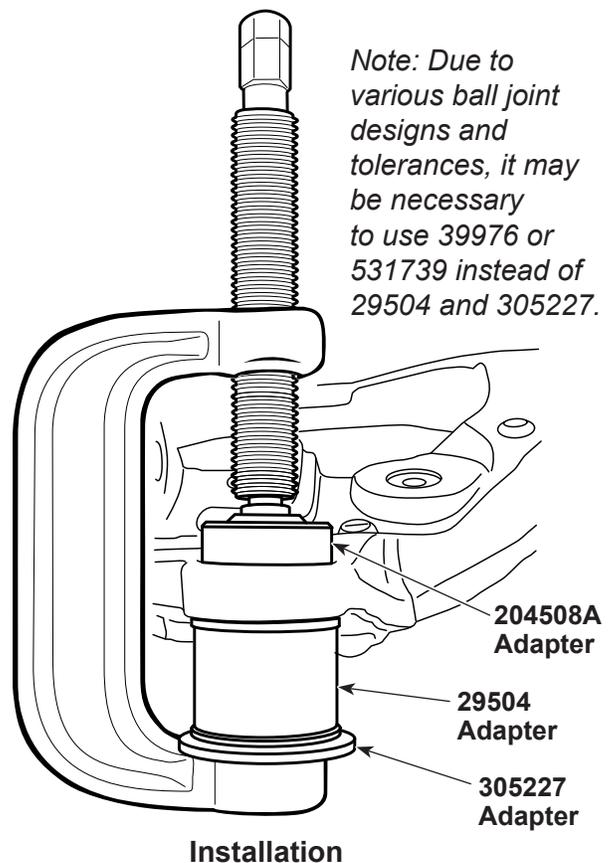
Removal

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: Upper Front

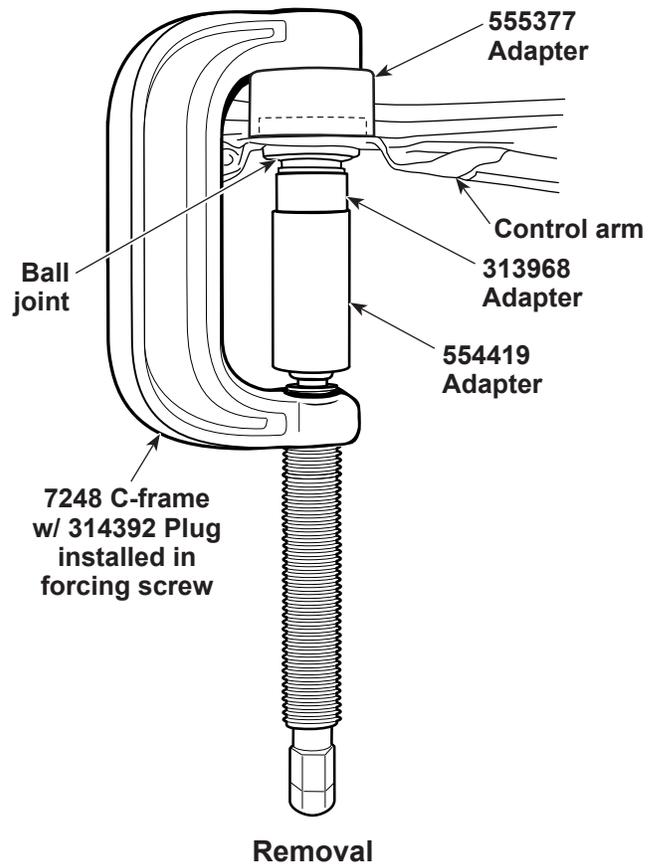
Application

Ford Explorer 2WD/4WD 2002-2005
Lincoln Aviator 2WD/4WD 2003-2005
Mercury Mountaineer 2WD/4WD 2002-2005

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

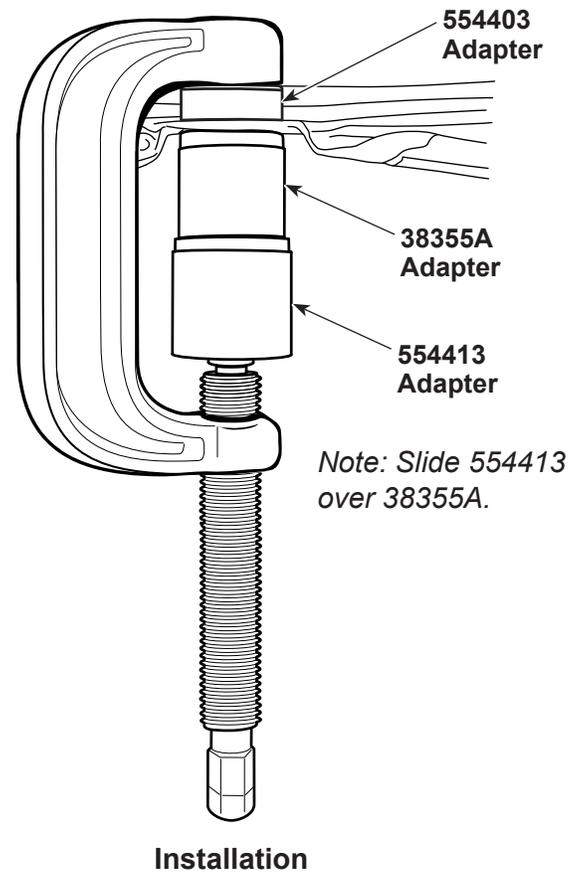
Removal

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: Upper Front

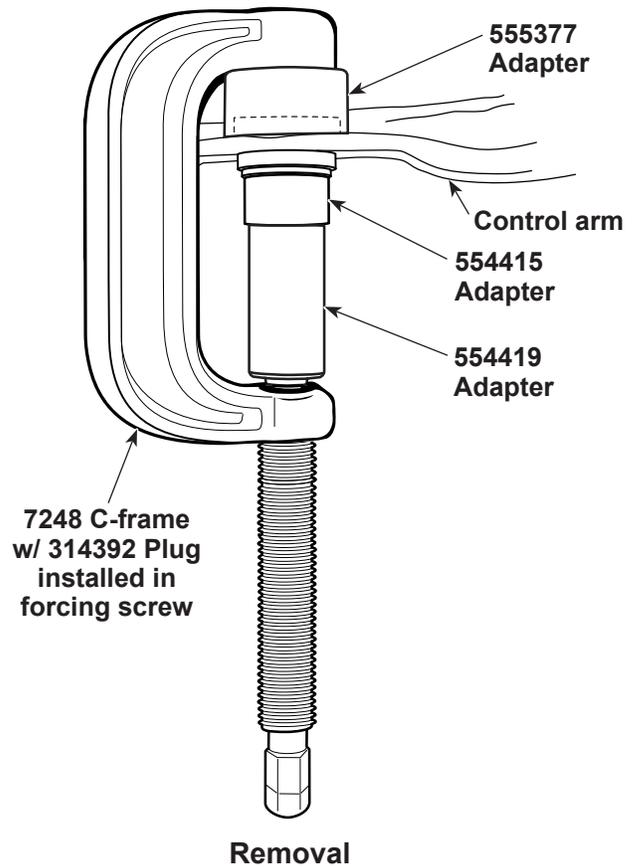
Application

Ford Explorer 2WD/4WD 2006-2010
Ford Explorer Sport Trac 2007-2010
Mercury Mountaineer 2WD/4WD 2006-2010

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

Removal

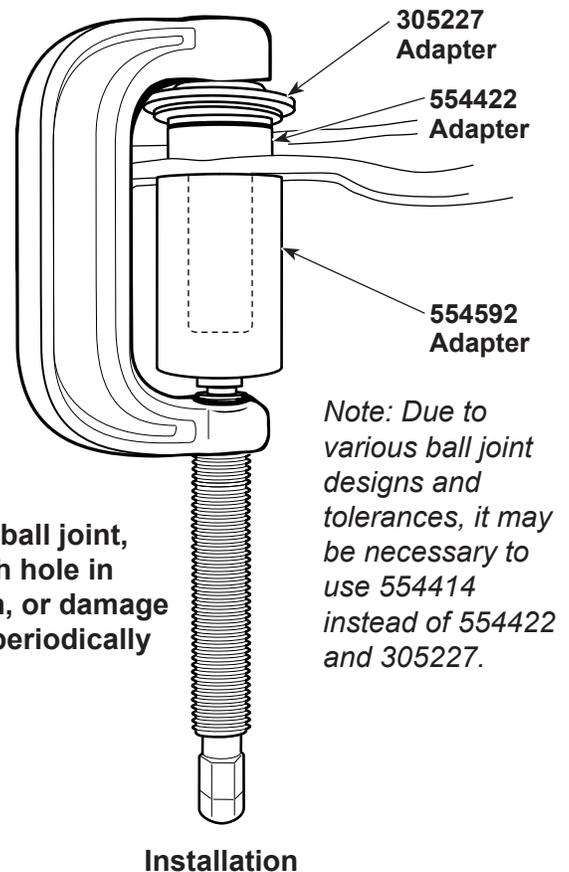
1. Remove dust boot.
2. Position components as shown.
3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
4. Tighten forcing screw until ball joint is removed.



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.

CAUTION: Depending on type of ball joint, verify ball joint shaft lines up with hole in end of adapter during installation, or damage may occur to ball joint. Confirm periodically during installation.



Ball Joint: Lower Front

Application

Ford F-150 2WD 1987-1996
Ford Ranger 2WD 1989-1997
Mazda B2300 2WD 1994-1997
Mazda B3000 2WD 1994-1996
Mazda B4000 2WD 1994-1997
Mazda Navajo 2WD 1992-1994

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

Removal

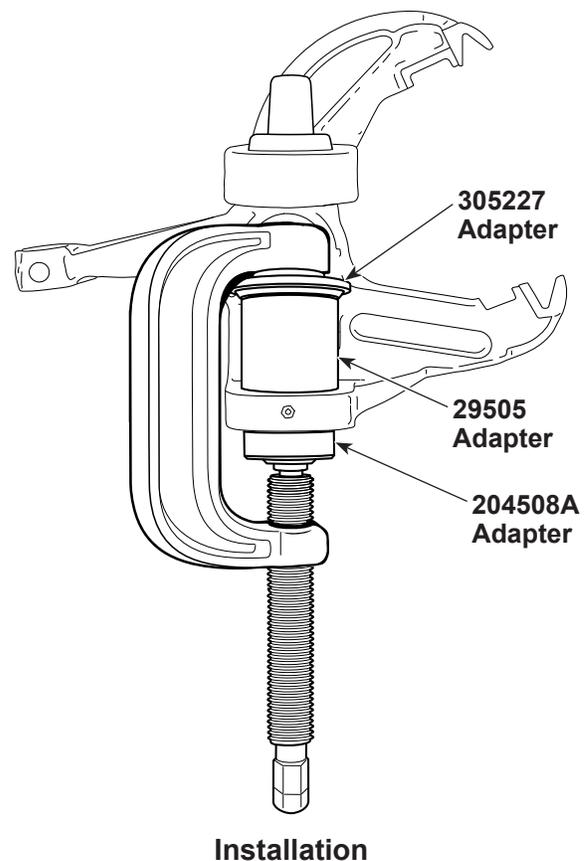
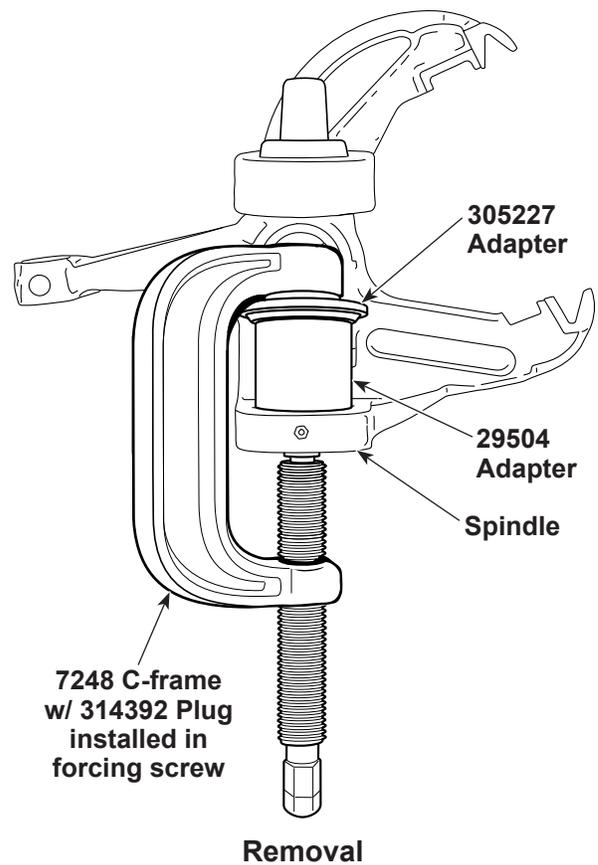
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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: Upper Front

Application

- Ford F-150 2WD 1987-1996
- Ford F-250 2WD 1987-1996
- Ford F-250 2WD HD w/ twin I-beam axle 1997
- Ford F-350 2WD 1987-1998
- Ford Ranger 2WD 1989-1997

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

Removal

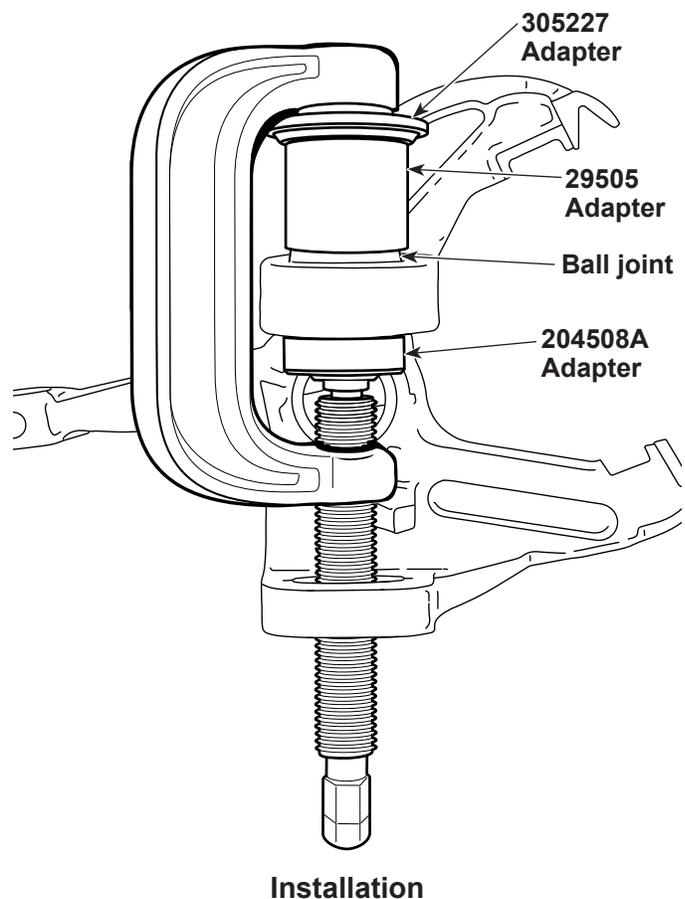
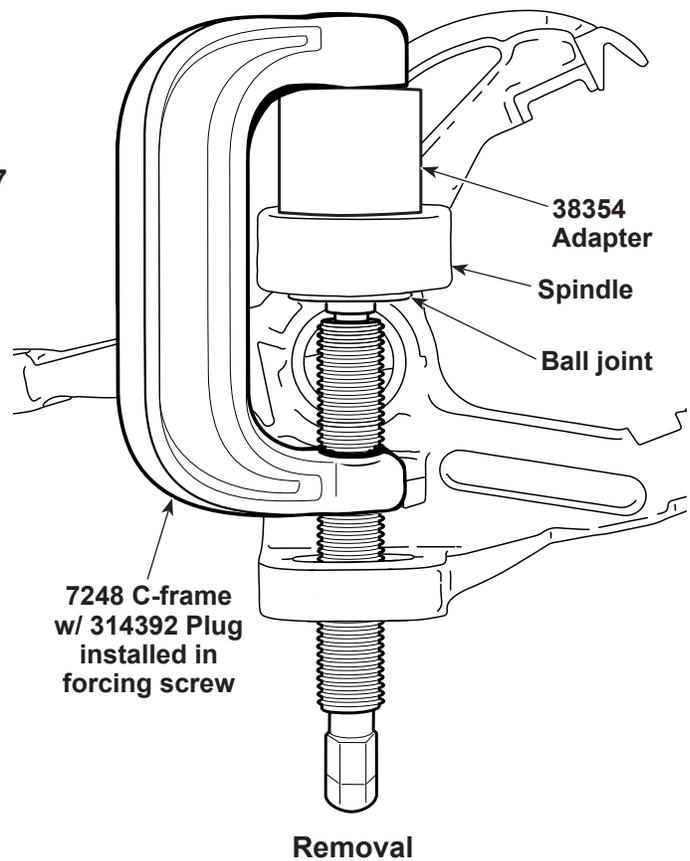
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

Ford F-250 2WD 1987-1996
Ford F-250 HD 2WD w/ twin I-beam axle 1997
Ford F-350 2WD 1987-1997

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

Removal

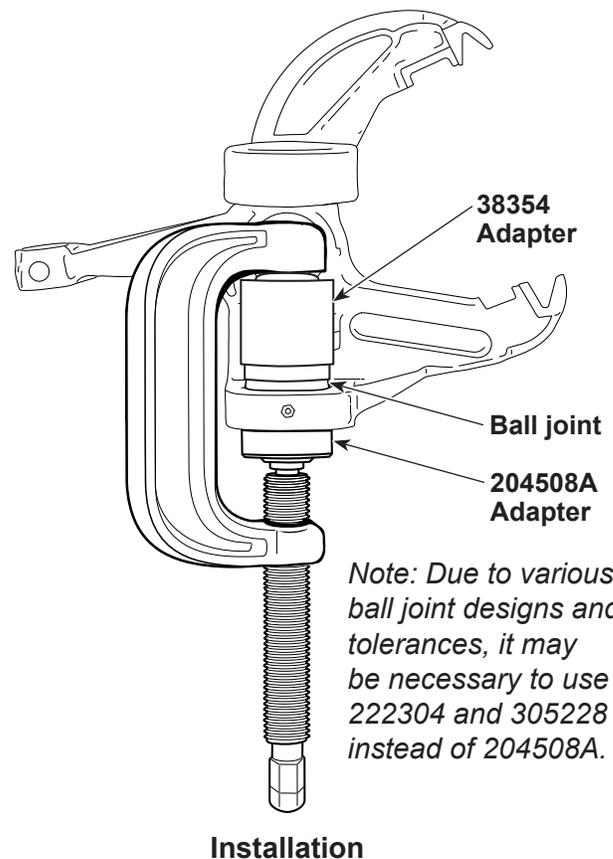
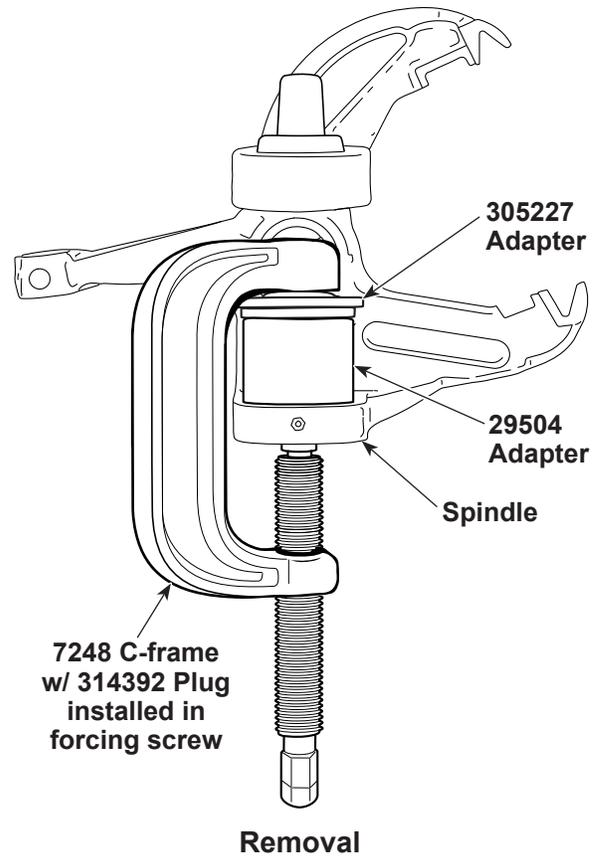
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

Ford F-250 4WD w/ 4600 lb. axle 1980-1996
Ford F-250 HD 4WD
w/ 4600 lb. twin I-beam axle 1997

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

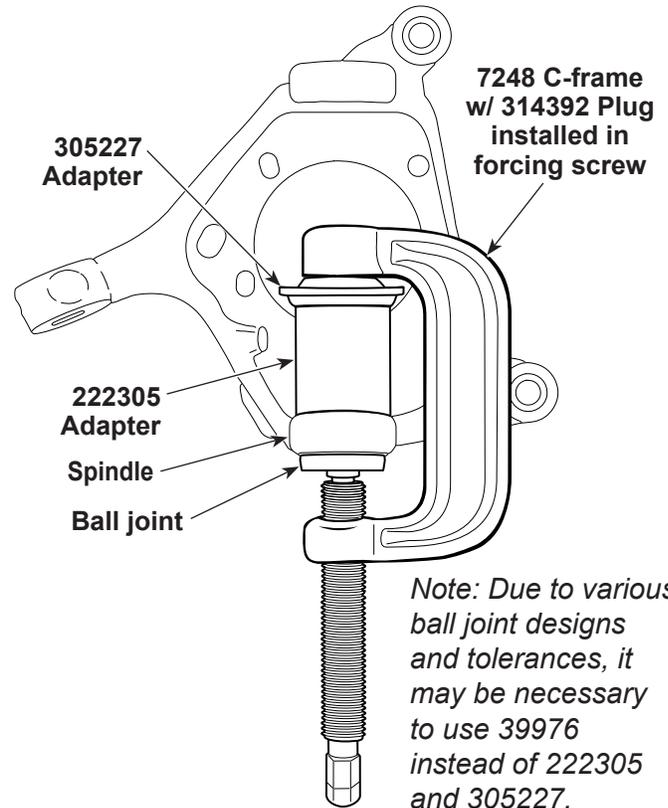
Removal

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.

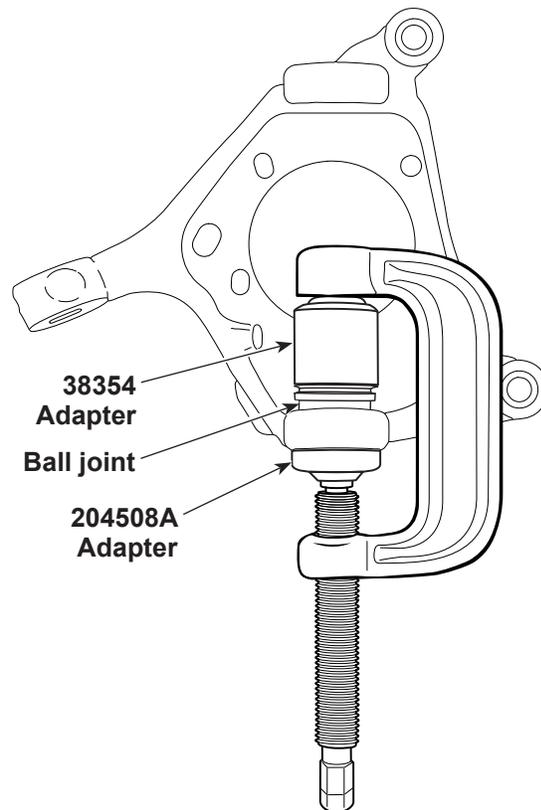
Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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.



Removal



Installation

Ball Joint: Lower Front

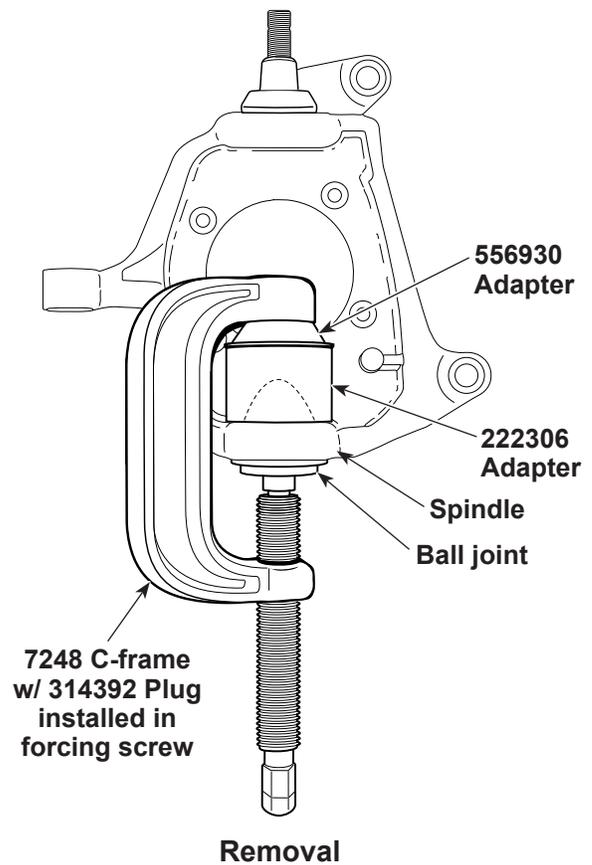
Application

Ford F-450 Super Duty 2WD/4WD 2005-2008
Ford F-550 Super Duty 2WD/4WD 2005-2008

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

Removal

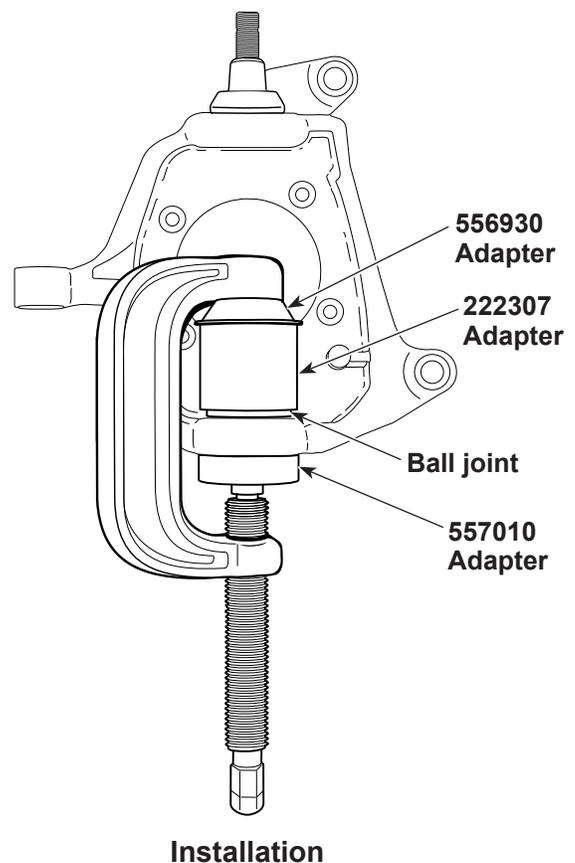
1. Remove dust boot.
2. Position components as shown.
3. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
4. Tighten forcing screw until ball joint is removed.



Installation

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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: Upper Front

Application

Ford F-450 Super Duty 2WD/4WD 2005-2008
Ford F-550 Super Duty 2WD/4WD 2005-2008

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

Removal

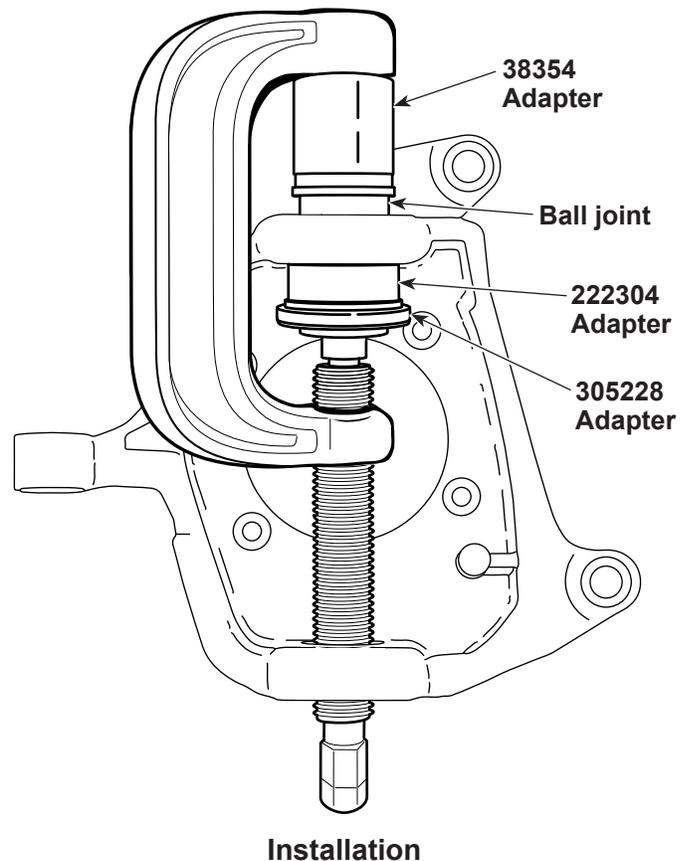
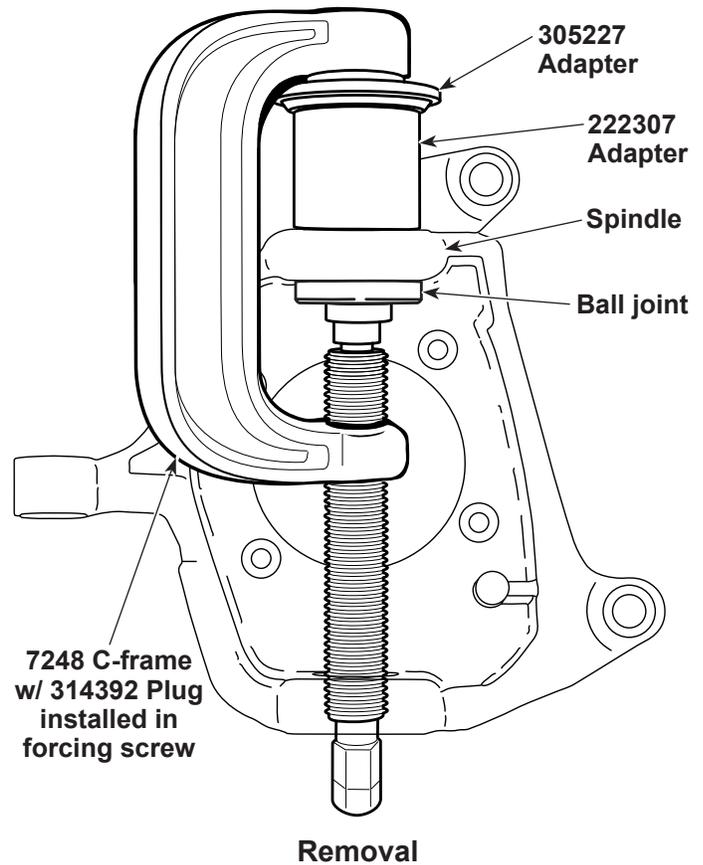
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

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

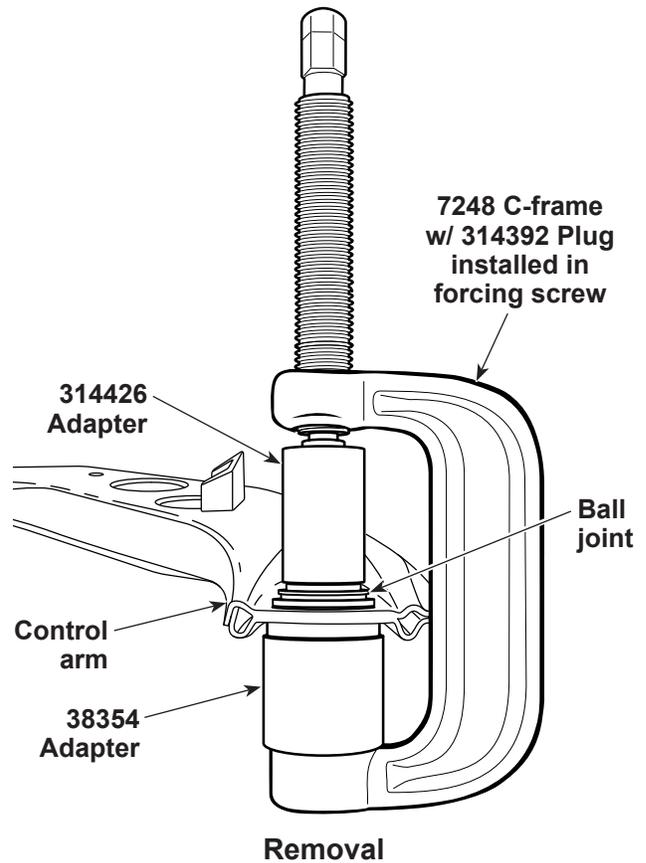
Application

Ford Probe 1989-1997
Mazda 626 1983-1997
Mazda MX6 1988-1997

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

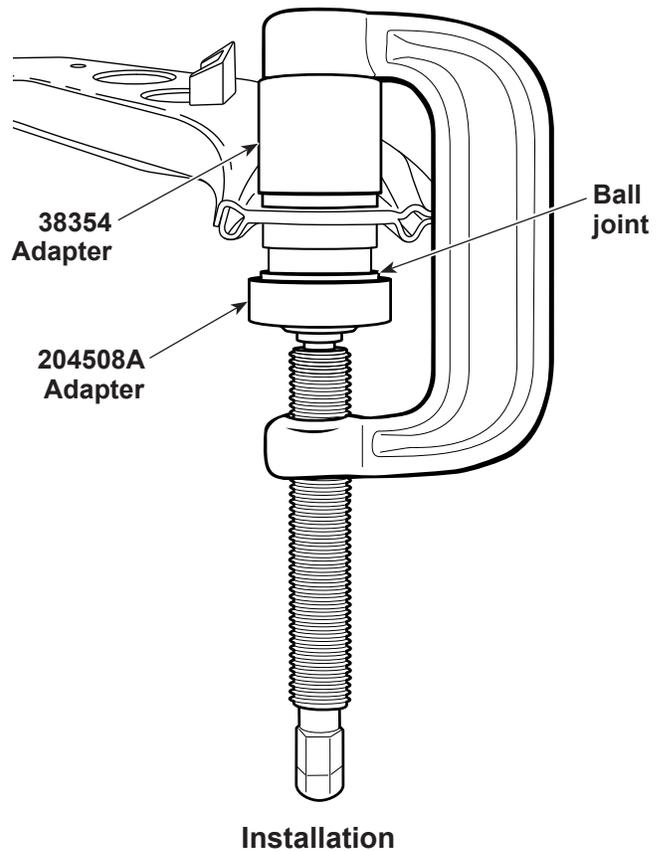
Removal

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: Upper Front

Application

Ford Explorer 4WD 1991-1994
Ford Ranger 4WD 1989-1997
Mazda B2300 4WD 1994-1997
Mazda B3000 4WD 1994-1996
Mazda Navajo 4WD 1992-1994

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

Removal

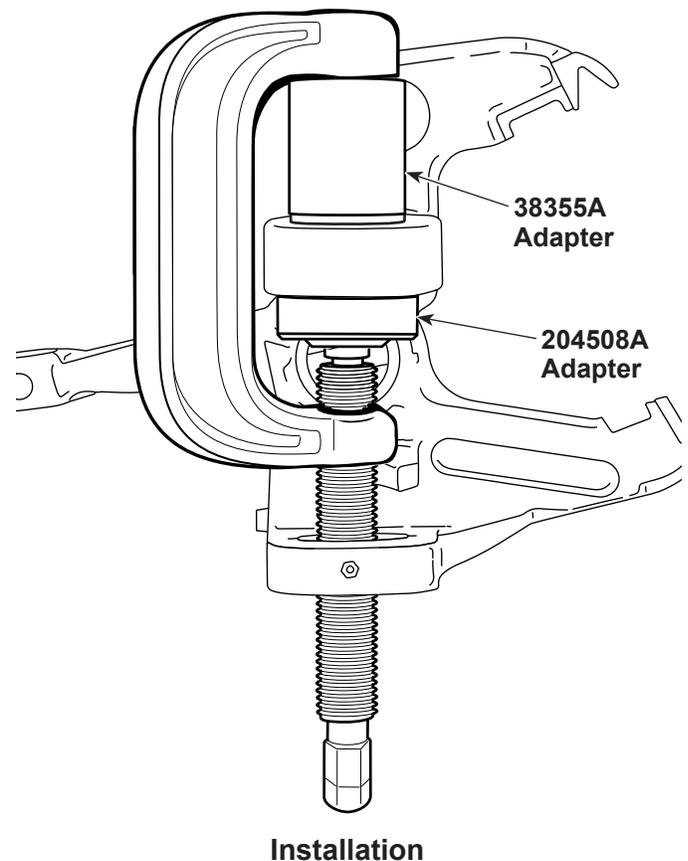
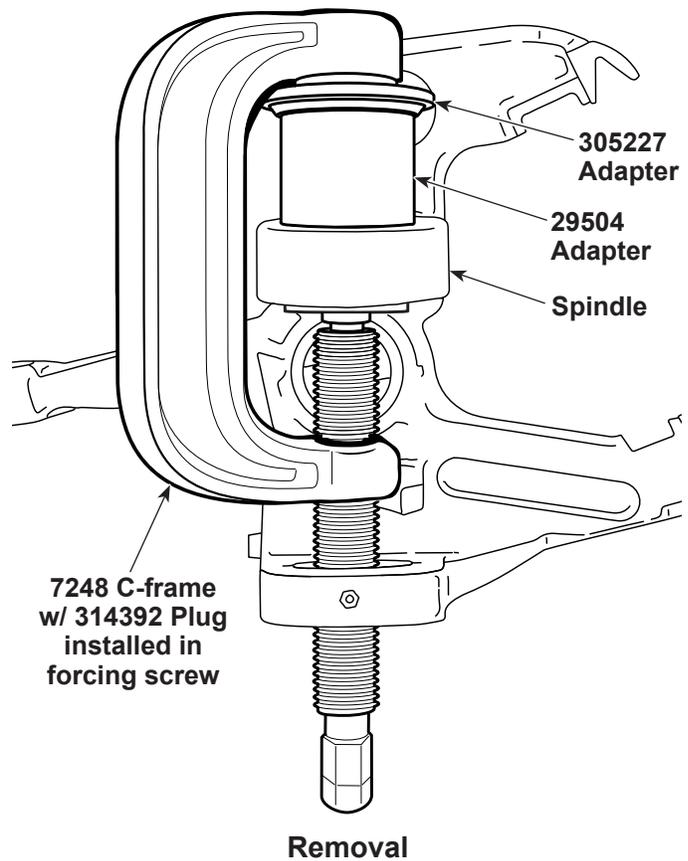
Note: Lower ball joint must be removed before upper ball joint can be serviced.

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

Note: If replacing both upper and lower ball joints at the same time, remove and install upper ball joint before installing lower ball joint.

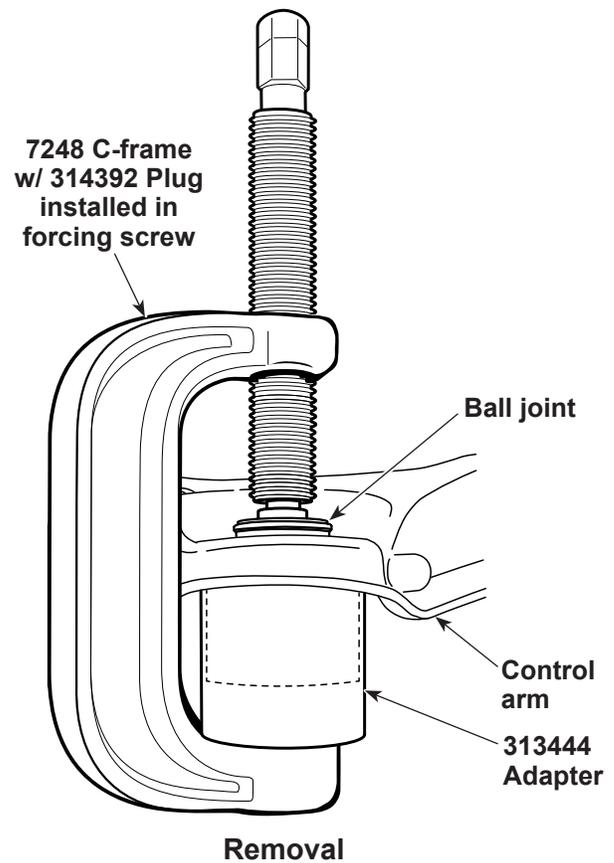
1. Clean ball joint bore in spindle.
2. Insert new ball joint as straight as possible into spindle.
3. Position components as shown.
4. Turn forcing screw until plug meets ball joint or adapter. Check alignment of all components.
5. Tighten forcing screw until ball joint is firmly seated.
6. Install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



Ball Joint: Lower Front

Application

- Ford Ranger 2WD w/ coil springs 1998-2011
- Mazda B2300 2WD w/ coil springs 2001-2004
- Mazda B2300 2WD/4WD
 - w/ torsion bar suspension 2001-2004
- Mazda B2300 2WD/4WD 2005-2008
- Mazda B2500 2WD w/ coil springs 1998-2001
- Mazda B2500 4WD
 - w/ torsion bar suspension 1998-2001
- Mazda B3000 2WD w/ coil springs 1998-2004
- Mazda B3000 2WD/4WD 2005-2007
- Mazda B3000 2WD/4WD
 - w/ torsion bar suspension 2002-2004
- Mazda B3000 4WD
 - w/ torsion bar suspension 1998-2001
- Mazda B4000 2WD w/ coil springs 1998-2004
- Mazda B4000 2WD/4WD
 - w/ torsion bar suspension 2002-2004
- Mazda B4000 2WD/4WD 2005-2008
- Mazda B4000 4WD
 - w/ torsion bar suspension 1998-2001



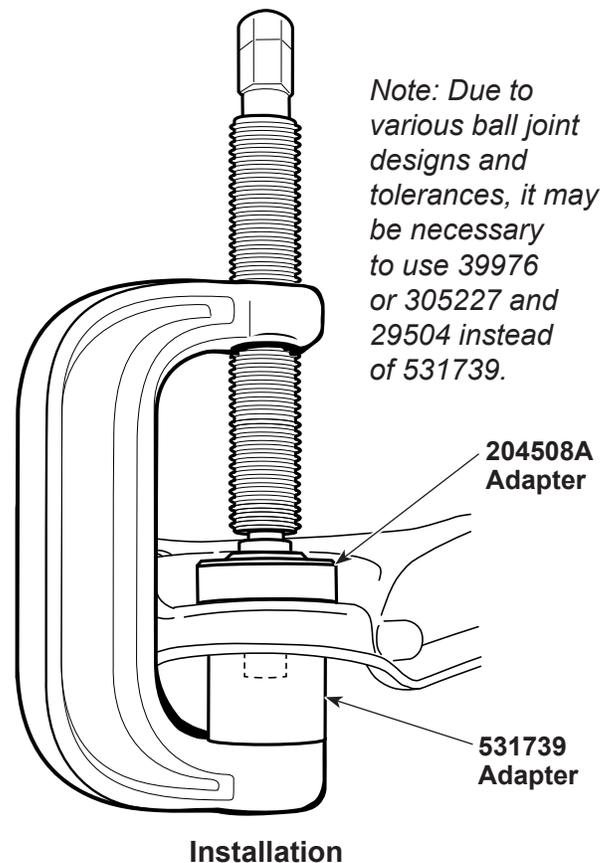
Note: Remove live center plug from C-frame forcing screw; replace it with 314392 plug supplied with this kit.

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: Upper Front

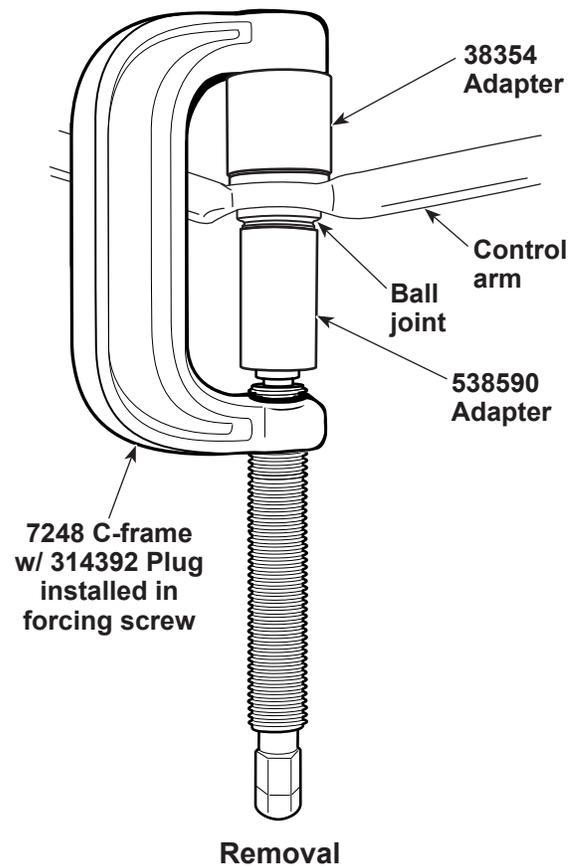
Application

Ford Ranger 2WD w/ coil springs 1998-2007
Mazda B2300 2WD w/ coil springs 2001-2002
Mazda B2500 2WD w/ coil springs 1998-2001
Mazda B3000 2WD w/ coil springs 1998-2002
Mazda B4000 2WD w/ coil springs 1998-2002

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.



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.

