



ALIGNMENT

ALIGNMENT SYSTEMS
ALIGNMENT TOOLS & EQUIPMENT
SHIMS & BUSHINGS FOR CARS & TRUCKS



EZ-Shims & EZ-CAM™ XR Camber Kits

Full Contact Dual Angle EZ Shims™

- Full contact/dual angle
- Corrects toe and camber with one shim
- Total of three shims cover most shimable FWD vehicles
- Estimated installation time - .5/hr. side

Ascot No.	Mfg. No.	Description
221-75200	75200	Blue
221-75400	75400	Grey
221-75800	75800	Red



APPLICATIONS - BLUE 221-75200

Audi, Chevrolet/Geo, Chrysler, Dodge, Eagle, Isuzu, Plymouth, Volkswagen

APPLICATIONS - GREY 221-75400

Acura, Audi, Buick, Chevrolet, Chrysler, Dodge, Ford, Honda, Mercury, Nissan, Oldsmobile, Plymouth, Pontiac

APPLICATIONS - RED 221-75800

Buick, Cadillac, Chevrolet, Geo, Lexus SP, Oldsmobile, Pontiac, Toyota

EZ-CAM™ XR - Camber Kits for Domestic/Import Two Bolt Struts (Pair)

- Designed for non-slotted struts
- Allows both positive and negative camber changes up to approximately 1.75° (depending on vehicle) by replacing the upper O.E. strut/spindle bolt
- Easy to use adjuster provides built-in adjustment over the life of a vehicle just by rotating the head of the bolt
- Each kit contains two cam bolt assemblies, enough for both sides of the vehicle
- Estimated installation time - .4 hr/side



APPLICATIONS - 223-03545 for 17mm Bolts

Geo, Lexus, Toyota

APPLICATIONS - 223-81280 for 16mm Bolts

Buick, Cadillac, Chevrolet, Chrysler, Dodge, Eagle, Ford, Lincoln, Mercury, Oldsmobile, Pontiac: This kit may also be used on GM vehicles equipped with aftermarket slotted struts with the addition of our new adapter plate, #81286

APPLICATIONS - 223-81270 for 15mm Bolts

Geo, Lexus, Toyota

APPLICATIONS - 223-81260 for 14mm Bolts

Chevrolet, Chrysler, Daewoo, Dodge, Hyundai, Infiniti, Mitsubishi, Nissan, Plymouth, Saturn, Subaru, Toyota, Volvo

APPLICATIONS - 223-81250 for 12mm Bolts

Chevrolet, Cadillac, Daihatsu, Daewoo, Dodge, Eagle, Ford, Geo, Hyundai, Infiniti, Isuzu, Mazda, Mercury, Mitsubishi, Nissan, Plymouth, Pontiac, Porsche, Renault, Saab, Saturn, Suzuki, Toyota, Volkswagen, Volvo, Yugo

APPLICATIONS - 223-81240 for 10mm Bolts

Alfa Romeo, Fiat, Lancia

Ascot No.	Specialty No.	Ascot No.	Ingalls No.	Description
223-81240	81240	223-03540	I-81250	Replacement 10mm Bolts
223-81250	81250	223-03541	I-81280	Replacement 12mm Bolts
223-81260	81260	223-03542	I-81260	Replacement 14mm Bolts
223-81270	81270	223-03543	I-81270	Replacement 15mm Bolts
223-81280	81280	223-03544	I-81280	Replacement 16mm Bolts
223-81290	81290	223-03545	I-81290	Replacement 17mm Bolts

Focus, Mazda 3, Celica Camber Arm

These high strength forged rear arms are perfect for tuners or installers that need extended camber ranges on these popular platforms. Complete with OE style bushings installed for a factory type ride.



Ascot No.	Mfg. No.	Description
225-67420	67420	Focus, Mazda 3 Camber Arm
225-67440	67440	Toyota Celica Camber Arm

APPLICATIONS - 225-67420 Focus, Mazda 3 Camber Arm

Ford - 2000 & Up Focus, Mazda - 2004 & Up Mazda 3, 2006 & Up Mazda 5, Volvo - 2004 & Up S40, 2004 & Up V50 67440, Toyota - 2000 - 05 Celica

APPLICATIONS - 225-67440

Celica - 2000 to 2005

Honda, Acura EZ Arm

These rear arms are for Accords, Pilots and more. An O.E. ball joint is integrated into this arm. Perfect for stock height and lowered vehicles.



Ascot No.	Mfg. No.	Description
225-67290	67290	Honda, Acura EZ Arm

APPLICATIONS 225-67290 Honda, Acura EZ Arm

Acura - 2001 & Up MDX, 2003 & Up TSX, Honda - 2003 & Up Accord, 1999 - 04 Odyssey, 2003 & Up Pilot

***Call for current application chart**

Passenger Car Alignment Accessories

Light Truck/SUV Sleeve Assortment Board Set

This great new board set includes the most popular parts for aligning today's trucks and SUVs. Don't be caught without the part that you need. Shipped with our polymer display board.



Board includes One each of the following:

- 23755 Dodge 4x4 - 2002 & Up Camber/Caster kit for 4 Wheel Drive BR1500s
- 23765 Dodge 4x2 - 2002 & Up Camber/Caster kit for 2 Wheel Drive BR1500s
- 86140 Ford Explorer Front Kit - For 2002 & Up Explorers and Mountaineers
- 86240 Ford F150 Camber/Caster Kit - Front kit for the 2004 & Up F150s
- 86640 Expedition Front Kit - For 2002 & Up Expeditions & 2003 & Up Navigators
- 87310 Explorer Front Camber/Caster Kit - Cams for 1995 - 01 Explorers and Mountaineers along with 1998 & Up Rangers
- 87385 Ford F150 Front Camber - Cam bolt assemblies for 1997 - 03 F150s and F250(LD)s
- 87400 GM 2WD & 4WD Camber/Caster Kit - For 1988 - 99 C & K 1500, 2500 and 3500s
- 86350 GM 1/2 & 3/4-Ton Camber Bushings - For 2002 & Up C & K 1500s, Suburbans and more
- 86320 GM 1/2 & 3/4-Ton Cam Lock Plates - For 2002 & Up C & K 1500, 2500 and 3500s
- 86325 GM 1/2 & 3/4-Ton Alignment Pins - For 2002 & Up C & K 1500, 2500 and 3500s
- 86330 GM 1/2 & 3/4-Ton Camber Bushings - For 2002 & Up C & K 2500 and 3500s
- 87520 Nissan Camber/Caster Kit - For 2004 & Up Titan and 2005 & Up Pathfinder, Xterra and more

Ascot No.	Mfg. No.	Description
251-88270	88270	Light Truck/SUV Sleeve Assortment Board

Passenger Car Assortment Board Set

- Board set includes the most popular shims, cam kits and adjustable strut plates
- A "must have" for any shop performing 4 wheel alignments on passenger cars
- Shipped with high-strength polymer display board



Board includes One each of the following:

- 75200, 75400, EZ Shims - a patented full contact, dual angle shim set that corrects toe and camber with one shim. These shims cover many rear shimmable FWD vehicles on the road today
- 75915 EZ Shim Cutter - A necessary tool for properly cutting EZ Shims
- 75970 EZ Shim Caliper Spacer Set - Aligns caliper to rotor after installing our EZ Shims on some FWD cars with hub mounted rear brakes
- 10408 Hub Replacement Bolt Set - to be used when installing rear shims
- 81250, 81260, 81270, 81280, 81290 EZ Cams XR - Camber kits for domestic and imported vehicles with two bolt non-slotted struts. Sizes include 12mm, 14mm, 15mm, 16mm and 17mm. Each kit contains two cam bolt assemblies, enough for both sides of the vehicle
- 71720, 71721, 71730 Chrysler and Dodge Mini Van Rear Camber and Toe Shims. The shim you need to align this very popular platform
- 71520, 71521, 71530 VW Beetle, Jetta, Golf Rear Camber and Toe Shims. Includes our 87530 wrench to make installing these shims easy and profitable
- 81340 VW Beetle, Jetta, Golf Front Camber/Caster adjustable upper strut plate assembly
- 81310 Ford Focus Rear Camber Kit
- 81320 Ford Focus Front Camber/Caster adjustable upper strut plate

Ascot No.	Mfg. No.	Description
251-88260	88260	Passenger Car Assortment Board Set

Light Truck/SUV Camber/Caster Sleeve Sets

Ford 4WD Camber/Caster Sleeve Set

- Change camber, caster or both at the same time. Remove the tire, cotter pin and upper ball joint stud nut and break the taper free between the stud and sleeve
- To adjust camber/caster, the sleeve may be lifted and rotated 1/8 turn
- Sized in 1/4° increments through 2°
- One sleeve covers one side of the vehicle
- Estimated installation time – .5 hr/side



Ascot No.	Mfg. No.	Description
231-23100	23100	Complete Set

SET CONTENTS

Ascot No.	Specialty No.	Ascot No.	Ingalls No.	Total	Change
231-23101	23101	231-66501	I-23101	.25°	(1/4°)
231-23102	23102	231-66502	I-23102	.50°	(1/2°)
231-23103	23103	231-66503	I-23103	.75°	(3/4°)
231-23104	23104	231-66504	I-23104	1.00°	(1°)
231-23105	23105	231-66505	I-23105	1.25°	(1-1/4°)
231-23106	23106	231-66506	I-23106	1.50°	(1-1/2°)
231-23107	23107	231-66507	I-23107	1.75°	(1-3/4°)
231-23108	23108	231-66508	I-23108	2.00°	(2°)
231-23109	23109	231-66509	I-23109	0.00°	(0°)
231-23111	23111*	231-66511	I-23111	2.25°	(2-1/4°)
231-23112	23112*	231-66512	I-23112	2.50°	(2-1/2°)
231-23113	23113*	231-66513	I-23113	2.75°	(2-3/4°)

* Extended range sold separately.

APPLICATIONS - 232-23100 Series

Ford 4WD: 1980 & Up F250, F350, E250, E350, Full Size Bronco w/Ball Joints, 1980-96 F150, F250 (L/D)

Ford 4WD Camber/Caster Sleeve Set

- Same features as the 23100 series
- Estimated installation time – .5 hr/side

Ascot No.	Mfg. No.	Description
231-23120	23120	Complete Set



SET CONTENTS

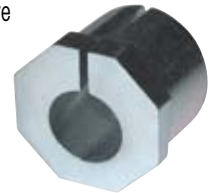
Ascot No.	Mfg. No.	Total	Change
231-23121	23121	.25°	(1/4°)
231-23122	23122	.50°	(1/2°)
231-23123	23123	.75°	(3/4°)
231-23124	23124	1.00°	(1°)
231-23125	23125	1.25°	(1-1/4°)
231-23126	23126	1.50°	(1-1/2°)
231-23127	23127	1.75°	(1-3/4°)
231-23128	23128	2.00°	(2°)
231-23129	23129	0.00°	(0°)

APPLICATIONS - 232-23120 Series

Ford 4WD: 1983-89 Ranger, Bronco II

Ford & Dodge Camber/Caster Sleeve Set

- Sleeves change camber, caster or both at the same time
- Remove the upper ball joint stud nut and break taper free between the stud and sleeve
- Calculate the change and install correct sleeve
- Sized in 1/4° increments
- One sleeve covers one side of the vehicle
- Estimated installation time – .5 hr/side



Ascot No.	Mfg. No.	Description
231-23130	23130	Complete Set

SET CONTENTS

Ascot No.	Specialty No.	Total	Change
231-23131	23131	.25°	(1/4°)
231-23132	23132	.50°	(1/2°)
231-23133	23133	.75°	(3/4°)
231-23134	23134	1.00°	(1°)
231-23135	23135	1.25°	(1-1/4°)
231-23136	23136	1.50°	(1-1/2°)
231-23139	23139	1.75°	(1-3/4°)

APPLICATIONS - 232-23130 Series

Dodge: 1994-99 BR2500 4WD, BR3500 2WD/4WD Ford 4WD: 1992 & Up F350 Crew Cab Pickup, Some F250 4WD w/Straight Axle, 1999 & Up Super Duty 250, 350, 450, 550

ALIGNMENT TERMS

Caster

Definition The forward or backward tilt of the upper ball joint, or top of the strut, relative to the lower ball joint

Purpose Caster affects steering stability and steering wheel returnability

Methods of Adjustment (1) Shims; (2) Cams; (3) Slotted Frame; (4) Strut Rod; (5) Strut Rotation; (6) Cradle Movement; (7) Offset Ball Joint; (8) Sliding Ball Joint

0 Caster The upper ball joint or top strut bearing and lower ball joint are in the same plane as viewed from the side of the vehicle

Pos. Caster The upper ball joint or top strut bearing is toward the rear of the vehicle in relation to the lower ball joint as viewed from the side of the vehicle

Neg. Caster The upper ball joint or top strut bearing is toward the front of the vehicle in relation to the lower ball joint as viewed from the side of the vehicle

Camber

Definition Inward or outward tilt of the top of the wheel

Purpose Adjustment centers the vehicle's load on tire, eliminating pull. Proper adjustments reduce camber tire wear and pulling

Methods of Adjustment (1) Shims; (2) Cams; (3) Slotted Frame; (4) Strut Rod; (5) Wedges; (6) Ball Joint Rotation; (7) Offset Bearing Plates; (8) Cam Bolts; (9) Eccentrics; (10) Offset Ball Joints

0 Camber When wheel and tire assembly are in exact vertical position

Pos. Camber When the top of the wheel and tire assembly is tilted out, or away from the engine

Neg. Camber The top of the wheel and tire assembly is tilted in toward the engine



Light Truck/SUV Camber/Caster Sleeve Sets

23220 & 23230 Sleeve Sets

Ford changed the axle design in 2005 on their Heavy Duty trucks. These sleeves correct camber and caster on the new 4x4 F250 and F350 Super Duty trucks.

Ascot No.	Mfg. No.	Description
231-23220	23220	Complete Set



SET CONTENTS

Ascot No.	Mfg. No.	Camber	Change
231-23221	23221	.25°	(1/4")
231-23222	23222	.50°	(1/2")
231-23223	23223	.75°	(3/4")
231-23224	23224	1.00°	(1")
231-23225	23225	1.25°	(1-1/4")
231-23226	23226	1.50°	(1-1/2")
231-23227	23227	1.75°	(1-3/4")
231-23228	23228	2.00°	(2")
231-23229	23229	0.00°	(0")
231-23211	23211	2.25°	(2-1/4")
231-23212	23212	2.50°	(2-1/2")

APPLICATIONS - 231-23220 Series

Ford 4WD: 2005 & Up F250, F350 Super Duty

Ford RWD: 2005 & Up F250, F350 Solid Axle/Coil Spring

Ascot No.	Mfg. No.	Description
231-23230	23230	Complete Set



SET CONTENTS

Ascot No.	Mfg. No.	Camber	Change
231-23231	23231	.25°	(1/4")
231-23232	23232	.50°	(1/2")
231-23233	23233	.75°	(3/4")
231-23234	23234	1.00°	(1")
231-23235	23235	1.25°	(1-1/4")
231-23236	23236	1.50°	(1-1/2")
231-23237	23237	1.75°	(1-3/4")
231-23238	23238	2.00°	(2")
231-23239	23239	0.00°	(0")

APPLICATIONS - 231-23230 Series

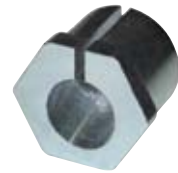
Ford RWD/4WD: 2005 & Up F450, F550 Coil Springs

Chevy/GMC 4WD: 2005 & Up Kodiak K4500, Topkick K5500

Ford 2 & 4WD Camber/Caster Truck Sleeves

- Sleeves are widely used to adjust caster and/or camber on many Ford 2WD/4WD trucks
- To install, simply loosen and remove upper ball joint pinch bolt. Remove top snap ring if one is present
- Sleeves allow for larger caster and camber changes which may be required on lowered and raised trucks
- Set contains nine of the XR™ Camber/Caster truck sleeves

Ascot No.	Mfg. No.	Description
231-23180	23180	Complete Set



SET CONTENTS

Ascot No.	Specialty No.	Ascot No.	Ingalls No.	2WD Adj. Total Change	4WD Adj. Total Change
231-23181	23181	231-56501	I-23181	.25° (1/4")	.20°
231-23182	23182	231-56502	I-23182	.50° (1/2")	.40°
231-23183	23183	231-56503	I-23183	.75° (3/4")	.60°
231-23184	23184	231-56504	I-23184	1.00° (1")	.75°
231-23185	23185	231-56505	I-23185	1.25° (1-1/4")	.90°
231-23186	23186	231-56506	I-23186	1.50° (1-1/2")	1.10°
231-23187	23187	231-56507	I-23187	1.75° (1-3/4")	1.25°
231-23188	23188	231-56508	I-23188	2.00° (2")	1.40°
231-23189*	23189	231-56509	I-23189	2.25° (2-1/4")	1.60°
231-23190*	23190	231-56510	I-23190	2.50° (2-1/2")	1.80°
231-23191*	23191	231-56511	I-23191	2.75° (2-3/4")	2.00°
231-23192*	23192	231-56512	I-23192	3.00° (3")	2.25°
231-23193*	23193	231-56513	I-23193	3.25° (3-1/4")	2.50°
231-23194*	23194	231-56514	I-23194	3.50° (3-1/2")	2.75°
231-23199	23199	231-56500	I-23199	0°	0°

* Extended range sold separately.

APPLICATIONS - Chamber/Caster Truck Sleeves

Ford 2WD: 1987 & Up F350, 1987-96 F150, F250 (L/D), 1989-90 Bronco II, 1992 & Up E150, E250, E350, 1991-94 Explorer, 1989 -97 Ranger, 1999 & Up F250, F350 Super Duty; **Mazda 2WD:** 1991-97 Navajo, Pickup; **Ford 4WD:** 1991-94 Explorer, 1990 - 97 Ranger; **Mazda 4WD:** 1991-97 Navajo, Pickup

Light Truck/SUV Camber/Caster Kits

Thrust Alignment Plates



- Allows for corrections of setback and thrust angle on most vehicles with rear leaf springs
- Install by loosening the U-bolts holding the leaf spring to the axle, installing the alignment plate between the axle and leaf spring and re-tightening the U-bolts
- Kit includes multiple parts to provide coverage of most vehicles with rear leaf springs, including all early model passenger cars
- One kit covers one side of the vehicle
- Estimated Installation Time - .3 hr/side
- NOTE: Allow extra time for rusted bolts - new, longer U-Bolts may be required

Ascot No.	Mfg. No.	Description
231-63020	63020	2-3/8" Width
231-63030	63030	3" Width

APPLICATIONS - 232-63020 2-3/8" Width

Vehicles with 2-3/8" wide to 2-3/4" wide leaf springs including 60mm, 65mm and 70mm leaf springs of import trucks; all passenger vehicles with rear leaf springs

APPLICATIONS - 232-63030 3" Width

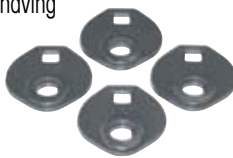
Vehicles with 3", 3-1/2" and 3-5/8" wide leaf springs including 80mm, 90mm and 100mm wide leaf springs

APPLICATIONS - 232-63040 4" Width

Vehicles with 4" - 5" wide leaf springs

Explorer Camber/Caster Kit

- Set of 4 cams for quick installation without having to remove the upper control arm bolt
- Change camber and caster up to $\pm 1.75^\circ$
- One kit covers both sides of the vehicle
- Estimated installation time - .3 hr/side



Ascot No.	Mfg. No.	Description
231-87310	87310	Explorer Camber/Caster Kit

APPLICATIONS

Ford-1995-01 2WD & 4WD Explorer, 1998-02 2WD & 4WD Ranger; **Mercury**-1995-01 & up 2WD & 4WD Mountaineer; **Mazda**-1998 2WD & 4WD B-Series Pickup

F150/250 (L/D) 2/4WD Camber/Caster Kit

- Used to change caster and/or camber on the new F150, F250 (L/D), Expedition and Navigator
- Replace the existing upper control arm mounting bolts with these cam bolts for caster/camber changes up to 2.0°
- One kit covers both sides of the vehicle
- Estimated installation time - .5 hr/side



Ascot No.	Specialty No.	Ascot No.	Ingalls No.	Description
231-87385	87385	231-00290	I-87385	F150/250, 2/4WD Camber Caster Kit

APPLICATIONS

Ford-1997-03 F150, F250 (L/D), 1997-02 2WD & 4WD Expedition; **Lincoln**-1997-02 2WD & 4WD Navigator

GM 2WD & 4WD Camber/Caster Kit

- Replaces the upper control arm mounting bolts
- Remove the O.E. bolts and replace with these cams, rotating them to provide up to 2° camber and/or caster adjustment
- One kit covers both sides of the vehicle
- Estimated installation time - .5 hr/side



Ascot No.	Specialty No.	Ascot No.	Ingalls No.	Description
231-87400	87400	231-00288	I-87400	GM 2/4WD Camber Caster Kit

APPLICATIONS

GM-1988-99 1500, 2500, 3500 C & K series 2WD/4WD trucks, 1990 & up Safari AWD Van; **Chevrolet**-1990 & up Astro AWD Van

Ford Explorer Camber/Caster Kit

- Kit will provides up to 2° positive or negative camber/caster adjustment
- Replace the O.E. upper control arm mounting bolts with the #87500 cam bolts for fast and efficient adjustment
- One kit covers both sides of the vehicle
- Estimated installation time - .5 hr/side passenger side
- Estimated installation time - .7 hr/side driver side



Ascot No.	Specialty No.	Ascot No.	Ingalls No.	Description
231-87500	87500	231-00286	I-87500	Ford Explorer Camber/Caster Set

APPLICATIONS

Ford: 1995-01 2WD & 4WD Explorer, 1998 & up 2WD & 4WD Ranger; **Mercury**: 1995-01 2WD & 4WD Mountaineer; **Mazda**: 1998 2WD & 4WD B-Series Pickup

Camber/Caster/Ball Joints

Jeep and Dodge Offset Ball Joint

- Offset ball joint replaces the O.E. upper ball joint to provide up to 2° camber/caster change on several previously non-adjustable Jeep and Dodge vehicles
- Comes with an installation template for accurate changes



Ascot No.	Mfg. No.	Description
237-23510	23510	1/2° Positive Or Negative Change
237-23520	23520	1° Positive Or Negative Change
237-23530	23530	1-1/2° Positive Or Negative Change
237-23540	23540	2° Positive Or Negative Change

APPLICATIONS

Jeep: 1984 & up 2WD/4WD Cherokee, Comanche, 1987 & up Wrangler; 1990 & up Renegade, 1984 & up 2WD/4WD downsize Wagoneer; 1993 & up Grand Cherokee, **Dodge:** 1994 -2001 BR1500 4WD & BR2500 (L/D) Pickups

Ball Joint Press Sleeves

- These specially designed sleeves make installation of the #23510-40 ball joints easy and profitable for the installer
- Sleeves are designed to match the angle of the yoke on the axle housing to insure proper ball joint



Ascot No.	Mfg. No.	Description
231-23580	23580	Bushing Sleeves For Ball Joints 23510, 23520, 23530, 23540

Dodge Truck Camber/Caster Kits

- Heavy duty bolts and brackets replace the upper control arm mounting bolts giving you both camber and caster adjustments for this popular series of Dodge trucks
- Caster adjustments from -1.5° to +1.5° and camber adjustments from -1.0° to +1.0°
- Kit includes 4 cam and bolt sets to cover both sides of the vehicle



Ascot No.	Mfg. No.	Description
231-23755	23755	Dodge Camber/Caster Kit, 4 Wheel Drive
231-23765	23765	Dodge Camber/Caster Kit, 2 Wheel Drive

APPLICATIONS -231-23755

Dodge: 2002 & Up 1500 Series - 4 Wheel Drive

APPLICATIONS - 231-23765

Dodge: 2002 & Up 1500 Series - 2 Wheel Drive

Ford Pinch Bolt Axle Adjustable Bushing

- Camber adjustment up to +/- 2-1/2° on full size and 1-3/4° on downsize
- .5 hours per side installation time
- 1 bushing per wheel



Ingalls
Performance Suspension
Components

Ascot No.	Mfg. No.	Description
231-00594	59400	Ford Pinch Bolt Axle Adjustable Bushing

APPLICATIONS

Ford: 1989-1990 2WD and 4WD Bronco II; 1989-1997 2WD and 4WD Ranger; 1991-1994 2WD and 4WD Explorer; 1992-1999 2WD E150, E250, E350; 1987-1996 2WD F150; 1987-2000 F250 and F350

Mazda: 1994-1999 Pickup; 1991-1994 Navajo

Ford F150 Kit

This innovative cam nut and sturdy bracket saves time and money. Easily adjust camber and caster on F150s from '04 and up (including late model) and '07 & up Expeditions. Save time since you don't have to remove the O.E. bolt or stabilizer bar. The sturdy guide bracket allows for live adjustment. This product is a must have every time these vehicles enter your shop!



Ascot No.	Mfg. No.	Description
231-86250	86250	Ford F150 Kit

APPLICATIONS

Ford: 2004 & Up F150, 2007 & Up Expedition

Lincoln: 2006 & Up Mark LT, 2007 & Up Navigator

Honda/Acura Adjustable Front Camber Kit

- 223-03570 and 223-03572 equipped with polyurethane for performance vehicles
- 223-03571 and 223-03573 with O.E. style rubber bushing for factory-like ride
- .5 hours per side installation time
- 1 kit per wheel



Ascot No.	Mfg. No.	Description
223-03570	35700	Polyurethane Bushings, -5/8° To +1°
223-03571	35710	Rubber Bushings, -5/8° To +1°
223-03572	35720	Polyurethane Bushings, +1-1/4° To 3°
223-03573	35730	Rubber Bushings, +1-1/4° To 3°

APPLICATIONS

Acura: 1990-2000 Integra; 1991-1995 Legend; 1992-1994 Vigor; 1996-2000 Acura 3.5 RL; 1997-1999 Acura 3.0 CL;

1996-2000 Acura 3.2 TL; 1995-1998 Acura 2.5 TL. **Honda:** 1988-1991 CRX; 1988-1995 Civic; 1993-1997 Del Sol; 1990-1997 Accord; 1992-1996 Prelude; 1995-1998 Odyssey; 1992-2000 Prelude (Rear). **Izuzu:** 1996-1998 Oasis

Alignment Kits

Chrysler, Dodge, Mitsubishi and Eagle Adjustable Front Camber Kit

- 223-03575 and 223-03577 equipped with polyurethane for performance vehicles
- 223-03576 and 223-03578 with O.E. style rubber bushing for factory-like ride
- .5 hours per side installation time
- 1 kit per wheel



Ascot No.	Mfg. No.	Camber Range
223-03575	35750	Polyurethane Bushings, -3/4° To 1°
223-03576	35760	Rubber Bushings, -3/4° To 1°
223-03577	35770	Polyurethane Bushings, +1-1/4° To 3°
223-03578	35780	Rubber Bushings, +1-1/4° To 3°

APPLICATIONS

Chrysler, Dodge, Mitsubishi and Eagle Front Camber Kit

Chrysler: 1995-2000 Sebring (exc. Convertible)

Dodge: 1995-2000 Avenger

Eagle: 1995-1998 Talon

Mitsubishi: 1995-1999 Eclipse; 1999-2000 Galant

Adjustable Upper Control Arm

- Camber adjustment from -1° to +4°
- .8 hours per side installation time
- 1 control arm per wheel



Ascot No.	Mfg. No.	Description
236-00100	CA100	Adjustable Upper Control Arm

APPLICATIONS

Honda: 1996-2000 Civic, 1997-2000 CRV

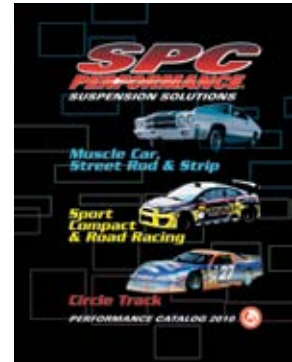
Honda/Acura EZ Arm XR™

- Installation time: .5 hours
- Applications: Acura: Integra Honda: Civic, Del Sol, CRV, CRX
- 67230 Applications: 2001 and up Civic



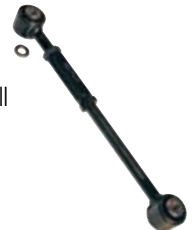
Ascot No.	Mfg. No.	Adjustment Range
226-67030	67030	-2.00° To +3.40°
226-67230	67230	-4.00° To +6.00°

Performance Alignment Catalog Available Call for Details



Hyundai/Kia Rear EZ Arm XR™

- These adjustable rear upper control arm and toe cam kits, for many Hyundai and Kia models, will provide up to ±2° camber and toe change
- Rear Adjustment range: Camber and Toe ±2.00°
- Installation time: .3 Hrs./side
- Required: 1 per wheel



Ascot No.	Mfg. No.	Description
226-67410	67410	Hyundai/Kia Rear EZ Arm XR™

APPLICATIONS

Hyundai: 2007 & Up Elantra

Kia: 2007 & Up Optima, 2007 & Up Rondo

Honda EZ Arm XR™

- Adjustment range: -2.00° to +4.00°
- NOTE: An O.E. style ball joint is integrated in this arm
- Installation time: .8 hours
- 67090 Applications: **Honda:** 1998-2002 Accord. **Acura:** 2001 3.2CL, 1999-2002 3.2TL 1996 & Up 3.5RL



Ascot No.	Mfg. No.	Description
226-67090	67090	Honda/Acura EZ Arm XR™
226-67290	67290	Honda EZ Arm XR™

Honda Front Camber/Caster Control Arm

- O.E. style control arm now makes it possible to adjust camber and caster on newer Honda Civics
- Arm may be used on vehicles that have retained their stock ride height and vehicles that have been lowered for performance and appearance

Ascot No.	Mfg. No.
222-62010	62010

APPLICATIONS

Honda: 1996-2000 Civic



Camber Kits

Camber Adjusting "Magna Cam" Bolt Kits

- Fast and easy alternative to adjust camber on vehicles utilizing standard 2 bolt (upper and lower) strut-to-knuckle mounting bolt design
- Unique design incorporates an offset internal sleeve working in conjunction with a full-size/high strength O.E. diameter bolt (with matching internal offset) which allows camber to be increased or decreased by a simple turn of a bolt
- Allows technician to accurately adjust camber with the weight of the vehicle on its front wheels. Available in 12mm, 14mm, 15mm, 16mm and 17mm sizes



Ascot No.	Mfg. No.	Description
223-41147	41-147	12mm 12.9 High-Strength Bolts
223-41158	41-158	14mm 12.9 High-Strength Bolts
223-41149	41-149	15mm 10.9 High-Strength Bolts
223-41160	41-160	16mm 10.9 High-Strength Bolts
223-41151	41-151	17mm 10.9 High-Strength Bolts

GM "Quick Cam" Adjusters

- The unique design allows fast and easy "on-vehicle" camber/caster adjustment with an easy to access Allen wrench slot



Ascot No.	Mfg. No.	Description
223-44257	44-2507	4 Per Pack - Fits 2004-2006 Chevrolet Colorado, GMC Canyon, Hummer H3, and Isuzu I35/I28
223-44256	44-2506	2 Per Pack - Fits 2003-2006 Chevrolet Express Van and GMC Savanna Van

Dodge/Chrysler/Jeep Camber Adjustment Kits

- The unique design allows fast and easy "on-vehicle" camber/caster adjustment with an easy to access Allen wrench slot



Ascot No.	Mfg. No.	Description
223-44792	44-792	4 Per Pack - This Kit Provides Precise, Controlled Camber and Caster Adjustments. 2002-2005 Dodge Ram 1500
223-41825	41-8256	Pair - This Kit Adjusts Caster and the Front Pinion Angle on Jeep Vehicles That Have no Such Adjustment From the O.E. 1997-2006 Jeep Wrangler, 1993-1998 Jeep Grand Cherokee, 1994-1998 Dodge Ram Truck (36mm Cams)

Rear Full Contact Camber/Toe Shim



Ascot No.	Mfg. No.	Description
221-46121	46-1121	.25° Green
221-46122	46-1122	.5° Green
221-46123	46-1123	.75° Green
221-46124	46-1124	1° Green
221-46120	46-1120A	Contains 2 Each Size Shims - Green
221-46151	46-1501	.25°
221-46152	46-1502	.5°
221-46153	46-1503	.75°
221-46154	46-1504	1°
221-46150	46-1500A	Contains 2 Each Size Shims
221-46521	46-1521	.25°
221-46522	46-1522	.5°
221-46523	46-1523	.75°
221-46524	46-1524	1°
221-46520	46-1520A	Contains 2 Each Size Shims

46-1120 Series Applications: 1998-Newer **Toyota** Sienna, **Chrysler** Town & Country Van (exc. AWD), **Dodge** Caravan (exc. AWD)

46-1500 Series Applications: **Pontiac** Vibe 2003 & Newer, **Toyota:** Matrix & Corolla 2003 & Newer, **Scion:** XA & XB

46-1520 Series Applications: **Chevrolet** Cobalt 2005-2006, **Saturn** Ion 2003-2006, **Chevrolet** HHR 2005-2006

Ford Truck Cam Bolt Kits

- These kits provide adjustment for camber and caster on Ford light-duty trucks/SUVs where no O.E. adjustment is available



Ascot No.	Mfg. No.	Description
223-42778	42-778	Pair - 1997-2003 Ford F150, 1997-2002 Ford Expedition and Lincoln Navigator
223-44789	44-789	4 Per Pack - 2004-2006 Ford F150
223-44786	44-786	4 Per Pack - 2003-2006 Ford Expedition and Lincoln Navigator
223-44768	44-768	Pair - 1995-2001 Ford Explorer, 1998-2001 Ford Ranger
223-44773	44-773	2 Cam Guides - 2002-006 Ford Explorer, Mercury Mountaineer, and Lincoln Aviator

Nissan Light Truck Cam Bolt Kit

- This Cam Bolt Kit makes Nissan light-duty trucks with no O.E. adjustment fully adjustable for camber and caster



Ascot No.	Mfg. No.	Description
223-44820	44-820	4 per pack - Fits 2004-2006 Nissan Titan 2005-2006 Nissan: Armada, Frontier, Pathfinder, and Xterra

Camber/Caster Tools & Bushings

Ford Truck Fixed Camber/Caster Bushings

- Fits the same applications as 5032 on the right. Adjust caster/camber or a combination of both from 0° to 2.75° either positive or negative, with easy to adjust "Multi-Slot" bushings



Ascot No.	Mfg. No.	Description
231-44499	44-4099	0°
231-44501	44-5001	.25°
231-44502	44-5002	.5°
231-44503	44-5003	.75°
231-44504	44-5004	1°
231-44505	44-5005	1.25°
231-44506	44-5006	1.5°
231-44507	44-5007	1.75°
231-44508	44-5008	2°
231-44509	44-5009	2.25°
231-44510	44-5010	2.5°
231-44511	44-5011	2.75°

Inner Tie Rod Tool

- Unique design allows for fast and easy replacement of inner tie rod ends without removing the rack and pinion
- Fits domestic and foreign vehicles with inner tie rods up to 42mm outer diameter. Adjusts to fit all styles of inner tie rods (round, square, flat or hex) without slipping



Ascot No.	Mfg. No.	Description
227-88731	88-7301	Inner Tie Rod Tool

Dodge Truck Adjusting Tool

- 2002-2005 Dodge Ram 1500
- Allows for fast and easy camber/caster adjustment on Dodge trucks without removing any bolts or the wheel
- Easy-to-adjust tool jaws allow for a smooth controlled adjustment



Ascot No.	Mfg. No.	Description
236-88928	88-8928	Dodge Truck Adjusting Tool

Taurus/Sable Ball Joint Adapter Set

- Unique Design Easily removes Ford Taurus ball joints
- Even Removes the most Stubborn Ball Joints
- Prevents arm from being damaged while removing ball joint
- 4 Piece set fits for both removal and installation



Ascot No.	Mfg. No.	Description
227-88787	88-7870C	Taurus Sable Ball Joint Adapter Set



Adjustable Light Truck Bushings

- This New "DUAL AXIS" design allows for up to 25% greater range of adjustment and a "Tech Friendly" adjustment feature makes on-site vehicle adjustments a snap (standard socket fits easily & securely over inner hex adjuster for fast & accurate settings)
- The universal adjustable design allows technician to make any camber/caster or combination adjustment needed with just one part number, even True Zero

Ascot No.	Mfg. No.	Description
231-44532	44-5032	0° to ± 3.25°, Ford: F-150 4x4 1980-96 F-250 4x4 1980-97, F-350, F-450, F-550 4X4 1992-96, F-250, F-350, F-450 4X4 1998-04, F-550 Super Duty 4x4 Dodge: 1994-02 - Ram 2500, 3500 4x4 1994-99 - Ram 2500, 3500 4x2 1994-02
231-44535	44-5035	0° to ± 3.25°, Ford: 1983-89 Ranger & Bronco II 4X4
231-44536	44-5036	0° to ± 2.5°, Ford: 2005-06 F-250 & F-350 4X4
231-44537	44-5037	0° to ± 2.5°, Ford: 2005-06 F-450 & F-550 4X4 & 4X2, Chevy: Kodiak (2005-06), GMC: Top Kick (2005-06)
231-44594	44-5094	0° to ± 4°, Ford: Explorer 4x4 & 4x2 1991-94 Ranger 4x4 & 4x2 1990-97 F-150, F250, F350 4X2 1987-96 Econoline Van 1992-05 Excursion 4x2 2000-05, F250, F350 Super Duty 4x2 1998-05, Mazda: Navajo 4x4 & 4x2 1991-94, Pickup 4x4 & 4x2 1994-99

Ford Truck Fixed Camber/Caster Bushings

- Adjust caster/camber or a combination of both from .25° to 3.5° either positive or negative with easy to adjust "Hex-Head" bushings (Fits same applications as 44-5094 above)



Ascot No.	Mfg. No.	2WD	4WD
231-42949	42-949	0°	0°
231-42951	42-951	.25°	.25°
231-42952	42-952	.5°	3/8°
231-42953	42-953	.7°	.5°
231-42954	42-954	1°	.75°
231-42955	42-955	1.25°	7/8°
231-42956	42-956	1.5°	1°
231-42957	42-957	1.75°	1.25°
231-42958	42-958	2°	1.5°
231-42959	42-959	2.25°	1.75°
231-42960	42-960	2.5°	2°
231-42961	42-961	2.75°	2.25°
231-42962	42-962	3°	2.5°
231-42963	42-963	3.25°	2.75°
231-42964	42-964	3.5°	3°

Caster/Camber Accessories

Adjustable Ball Joint

- Adjustable upper ball joints make front camber/caster adjustments easy on late model Honda and Acura
- Sliding ball joint allows for greater camber changes than previously available
- Sliding plate assembly is perfect for vehicles that have been lowered for performance or retain the factory ride
- Adjustment: -1.50° to $+1.50^{\circ}$
- Installation time: .6 hours



Ascot No.	Mfg. No.	Description
226-67125	67125	Honda/Acura Adjustable Ball Joint
226-67165	67165	Honda/Acura Adjustable Ball Joint

APPLICATIONS: 226-67125 - Standard Range

Acura: 1996 - 97 2.2CL, 1998 - 99 2.3CL, 1996 - 99 3.0CL, 2001-04 3.2CL, 1999 -2004 TSX; 1996-98 2.5 TL; 3.2 TL;
Honda: 1998 - 02 Accord, 1989 - 91 Civic & CRX, 1995 - 98 Odyssey

APPLICATIONS: 226-67165 - Standard Range

Acura: 1995 - 98 2.5TL, 1992 - 94 Vigor (front); **Honda:** 1992 - 02 Prelude (Rear) 1992 - 1996 Prelude (Front)

Honda/Acura Uprights

- New uprights incorporate a sliding mechanism for easy camber changes
- O.E. bushing eliminates squeaking and no special tools are required



Ascot No.	Mfg. No.	Description
222-84945	84945	Up To $+1.5^{\circ}$
222-84955	84955	$+1.75^{\circ}$ To $+3.25^{\circ}$

APPLICATIONS:

Acura: 1990 - 99 Integra, 1991 - 96 Legend, 1992 - 94 Vigor, 1996 - 97 2.2CL, 1998 & up 2.3CL, 1996 - 98 2.5 TL, 1996 - 99 3.0CL, 3.5RL; **Honda:** 1990 - 97 Accord, 1988 - 91 Civic SW & 4WD, 1988 - 95 Civic, 1988 - 92 CRX, 1992 - 96 Prelude, 1995 - 98 Odyssey, 1992 - 94 Del Sol, Prelude 4WS; Isuzu: 1995 - 98 Oasis

Performance Ball Joint Press Set

- Specifically designed to remove the original equipment ball joints on smaller cars such as Hondas and Acuras when installing SPC Performance's sliding ball joints
- Can remove the ball joint from the front upper control arm without removing the arm from the vehicle, saving time and cost
- Packaged in a convenient blow-molded plastic case this set comes complete with adapters for both removing and installing stock or Specialty Product's sliding ball joints



Ascot No.	Mfg. No.	Description
227-40920	40920	Performance Ball Joint Set

FasTrax™ Complete Adjustable Camber/Caster Gauge

- Portable, hands-free alignment can be done quickly and easily with the FasTrax™ Adjustable Camber/Caster Gauge

Ascot No.	Mfg. No.	Wheel Size
223-91000	91000	13" - 18"



FasTrax™ Camber/Caster Gauge

- Add quick alignment checks to your fleet PMS. Save tire wear & fuel costs

Ascot No.	Mfg. No.	Wheel Size
223-91040	91040	21" - 26"



Ford/Dodge Truck Adjustable Camber/Caster Bushing

- Camber and caster adjustment up to $\pm 2-3/4^{\circ}$
- .5 hours per side installation time
- 1 bushing per wheel



Ascot No.	Mfg. No.	Description
231-00532	532	Ford/Dodge Truck Adjustable Camber/Caster Bushing
231-00535	535	Ford Downsize Truck Adjustable Camber/Caster Bushing
233-23120	23120	SET (9) 4WD CAM/CAS Sleeves. Set 23120 contains 23121 thru 23129
233-23130	23130	SET (9) 4WD & RWD SLEEVES. Set contains one each of 23131 thru 23139

APPLICATIONS - 231-00532

Ford: 1980-1985 4WD F150 and Bronco, 1980-2000 4WD F250 and F350; **Dodge:** 1994-1999 2WD/4WD 2500 Trucks, 1994-1999 4WD 3500 Trucks

APPLICATIONS - 231-00535

Ford: 1983-1990 4WD Downsize Trucks

APPLICATIONS - 231-23120

Ford 4WD: 1983 - 89 Bronco II; 1990 (Early) Bronco II; 1983 - 89 Ranger

APPLICATIONS - 231-23130

Ford 4WD: 1997 - 98 F250 (H/D), 1999 - 04 F250, F350, F450, F550, Super Duty 2000 - 05 Excursion, 1992 - 98 F350 Crew Cab; **Ford RWD:** 1999 - 04 F450, F550 Super Duty; **Dodge 4WD:** 1994 - 99 BR2500, BR3500; **Dodge RWD:** 1994 - 02 BR3500 w/Mono Beam

Ford Combination Sleeve Puller

- Pulls both O.E. and most aftermarket camber/caster sleeves quickly and efficiently without damaging the ears of the sleeve
- Heat treated high strength steel
- Single-unit design with no loose parts

Ascot No.	Mfg. No.
247-77880	77880



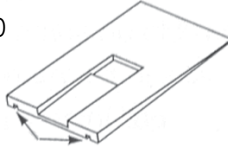
APPLICATIONS:

Ford: Twin I-Beam w/ Upper And Lower Ball Joints

Heavy Duty Truck Alignment Shims

Truck Axle Shims (Heavy Duty Zinc Alloy)

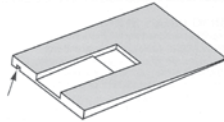
- Twice the coverage with half the inventory, these truck axle shims fit a variety of 2WD and 4WD vehicles with solid axles from full size Blazers to school buses
- Measure the spring pad, break the shim off at the correct width and insert between the spring and axle
- Available in 1/2° changes up to a 4° caster change, either positive or negative
- Packaged 6 per box
- Any solid axle 2 or 4 wheel drive vehicle



Ascot No.	Mfg. No.	Width	Degree Taper
243-00891	89199	3"-3-1/2"-4"	1/2°
243-00892	89299	3"-3-1/2"-4"	1°
243-00893	89399	3"-3-1/2"-4"	1-1/2°
243-00894	89499	3"-3-1/2"-4"	2°
243-00895	89599	3"-3-1/2"-4"	2-1/2°
243-00896	89699	3"-3-1/2"-4"	3°
243-00897	89799	3"-3-1/2"-4"	3-1/2°
243-00898	89899	3"-3-1/2"-4"	4°

Truck Axle Shims (Heavy Duty Zinc Alloy)

- One part number gives you six shims in a box



Ascot No.	Mfg. No.	Degree	Width	Box Wt.
243-00841	84199	1/2°	2-1/4"- 2-1/2"	1-1/2 Lbs.
243-00842	84299	1°	2-1/4"- 2-1/2"	1-1/2 Lbs.
243-00843	84399	1-1/2°	2-1/4"- 2-1/2"	2 Lbs.
243-00844	84499	2°	2-1/4"- 2-1/2"	2-1/4 Lbs.
243-00845	84599	2-1/2°	2-1/4"- 2-1/2"	2-3/4 Lbs.
243-00846	84699	3°	2-1/4"- 2-1/2"	2-3/4 Lbs.
243-00847	84799	3-1/2°	2-1/4"- 2-1/2"	3-1/4 Lbs.
243-00848	84899	4°	2-1/4"- 2-1/2"	3-1/4 Lbs.

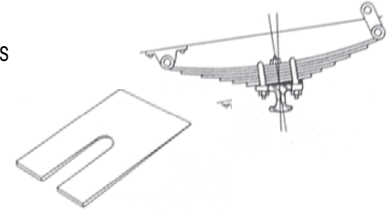
Kenworth Air Glide Spacer for Eight Baggers



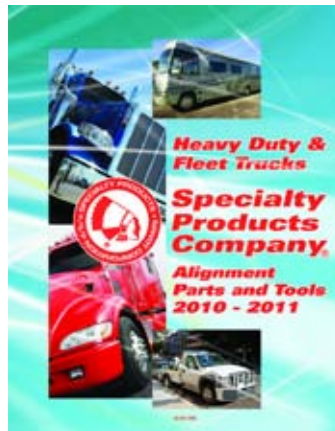
Ascot No.	Mfg. No.	Thickness	Qty.
241-35001	35001	1/32"	6
241-35002	35002	1/16"	6
241-35003	35003	1/8"	6
241-35004	35004	1/4"	6
241-35005	35005	1/2"	6
241-35006	35006	3/4"	6
241-35007	35007	1"	6

Truck Axle Shims

- Packaged six per box
- Spring pad length and width is needed when placing orders
- Installation time – .5 hr./side



Ascot No.	Mfg. No.	Ascot No.	Mfg. No.	Width	Degree	Length
Bronze	Bronze	Aluminum	Aluminum			
241-04050	T10405	241-04051	AL10405	2-1/2"	1/2°	5"
241-10410	T1041	241-10411	AL1041	2-1/2"	1°	5"
241-10420	T1042	241-10421	AL1042	2-1/2"	1-1/2°	5"
241-10430	T1043	241-10431	AL1043	2-1/2"	2°	5"
241-10440	T1044	241-10441	AL1044	2-1/2"	2-1/2°	5"
241-10450	T1045	241-10451	AL1045	2-1/2"	3°	5"
241-10460	T1046	241-10461	AL1046	2-1/2"	3-1/2°	5"
241-10470	T1047	241-10471	AL1047	2-1/2"	4°	5"
241-05050	T10505	241-05051	AL10505	3"	1/2°	6"
241-10510	T1051	241-10511	AL1051	3"	1°	6"
241-10520	T1052	241-10521	AL1052	3"	1-1/2°	6"
241-10530	T1053	241-10531	AL1053	3"	2°	6"
241-10540	T1054	241-10541	AL1054	3"	2-1/2°	6"
241-10550	T1055	241-10551	AL1055	3"	3°	6"
241-10560	T1056	241-10561	AL1056	3"	3-1/2°	6"
241-10570	T1057	241-10571	AL1057	3"	4°	6"
241-06050	T10605	241-06051	AL10605	3-1/2"	1/2°	6-1/4"
241-10610	T1061	241-10611	AL1061	3-1/2"	1°	6-1/4"
241-10620	T1062	241-10621	AL1062	3-1/2"	1-1/2°	6-1/4"
241-10630	T1063	241-10631	AL1063	3-1/2"	2°	6-1/4"
241-10640	T1064	241-10641	AL1064	3-1/2"	2-1/2°	6-1/4"
241-10650	T1065	241-10651	AL1065	3-1/2"	3°	6-1/4"
241-10660	T1066	241-10661	AL1066	3-1/2"	3-1/2°	6-1/4"
241-10670	T1067	241-10671	AL1067	3-1/2"	4°	6-1/4"
241-07050	T10705	241-07051	AL10705	4"	1/2°	6-1/2"
241-10710	T1071	241-10711	AL1071	4"	1°	6-1/2"
241-10720	T1072	241-10721	AL1072	4"	1-1/2°	6-1/2"
241-10730	T1073	241-10731	AL1073	4"	2°	6-1/2"
241-10740	T1074	241-10741	AL1074	4"	2-1/2°	6-1/2"
241-10750	T1075	241-10751	AL1075	4"	3°	6-1/2"
241-10760	T1076	241-10761	AL1076	4"	3-1/2°	6-1/2"
241-10770	T1077	241-10771	AL1077	4"	4°	6-1/2"
241-10780	T1078	241-10781	AL1078	4"	5°	6-1/2"



**SPECIALTY PRODUCTS
HEAVY DUTY & FLEET
TRUCKS CATALOG
NOW AVAILABLE.
CALL TO ORDER!**



Alignment Systems

DWA 1000 Compact Wheel Alignment System

- 8 sensor CCD technology
- DSP processing
- MEMS static accelerometers provide the latest in measuring technology
- Linux based software running on standard hardware provides years of trouble free service and low cost ownership
- Four shock resistant blue tooth wireless rechargeable alignment heads with lithium ion batteries for long life
- Four standard wheel clamps
- Color printer
- 19" flat screen monitor
- Large mobile console



Ascot No.	Mfg. No.
203-10001	DWA1000

DWA 1000LT Compact Wheel Alignment System

- Four Bluetooth Wireless Rechargeable Alignment Heads
- Lithium Ion Batteries for long life
- Laptop Computer and Storage Cabinet
- Accelerometers (newest measuring technology)
- PC Based Software with multiple languages
- 24" Wheel Clamping Range (30" optional)
- Power Supply and USB Bluetooth Antenna
- Vehicle and Customer Database
- Alignment Specification 30 years
- User Friendly Software to guide technician

Ascot No.	Mfg. No.
203-10002	DWA1000LT



Tandem Alignment Set

Tandem Alignment Set - GREAT STARTER KIT!

These alignment angle shims are now available in a heavy duty metal box to help you organize all of your shims. Packaged with a large variety of shims (listed below) and an organization chart inside the lid to make reordering and organization of shims quick and easy.

Ascot No.	Mfg. No.	Description
246-36000	36000	Tandem Alignment Set

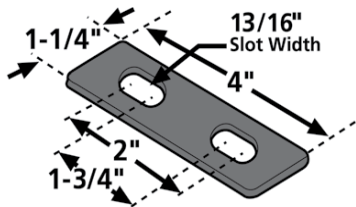


Set Includes

Ascot No.	Mfg. No.	Description	Qty.
246-35001	35001	Kenworth Airglide space 1/32"	6
246-35002	35002	Kenworth Airglide space 1/16"	6
246-35003	35003	Kenworth Airglide space 1/8"	6
246-35004	35004	Kenworth Airglide space 1/4"	6
246-35005	35005	Kenworth Airglide space 1/2"	6
246-35006	35006	Kenworth Airglide space 3/4"	6
246-35007	35007	Kenworth Airglide space 1"	6
246-35010	35010	Peterbilt Air Leaf Shim 1/32"	2
246-35011	35011	Peterbilt Air Leaf Shim 1/16"	4
246-35012	35012	Peterbilt Air Leaf Shim 1/8"	6
246-35020	35020	Freightliner FAS I Air Ride 1/32"	2
246-35021	35021	Freightliner FAS I Air Ride 1/16"	4
246-35022	35022	Freightliner FAS I Air Ride 1/8"	6
246-35030	35030	Volvo/White 4-Spring Susp 1/32"	2
246-35031	35031	Volvo/White 4-Spring Susp 1/16"	4
246-35033	35033	Volvo/White 4-Spring Susp 1/8"	6
246-35040	35040	Navistar IHC Torque Arm 1/32"	2
246-35041	35041	Navistar IHC Torque Arm 1/16"	4
246-35042	35042	Navistar IHC Torque Arm 1/8"	6
246-35060	35060	Freightliner Airliner Susp 1/32"	2
246-35061	35061	Freightliner Airliner Susp 1/16"	4
246-35062	35062	Freightliner Airliner Susp 1/32"	6
246-35070	35070	Freightliner Air Glide Susp 1/32"	2
246-35071	35071	Freightliner Air Glide Susp 1/16"	4
246-35072	35072	Freightliner Air Glide Susp 1/8"	6
246-36010	36010	Peter/KW Flex-Air Torque Arm 1/32"	2
246-36011	36011	Peter/KW Flex-Air Torque Arm 1/16"	4
246-36012	36012	Peter/KW Flex-Air Torque Arm 1/8"	2

Heavy Duty Truck Alignment

Peterbilt Air Leaf Adjusting Shim



Ascot No.	Mfg. No.	Description	Qty.
241-35010	35010	1/32"	6
241-35011	35011	1/16"	6
241-35012	35012	1/8"	6

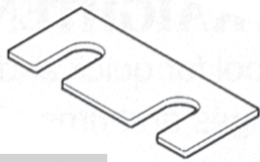
Single Slot Tandem Truck Shims

- Universal shims are installed at the ends of torque rod to change toe and/or thrust angles on Freightliner, Hendrickson and Navistar heavy duty tandem trucks and trailers



Ascot No.	Mfg. No.	Description	Qty.
246-35060	35060	1/32"	6
246-35061	35061	1/16"	6
246-35062	35062	1/8"	6

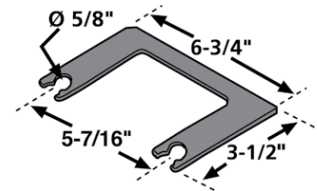
Freightliner Adjusting Shims



Ascot No.	Mfg. No.	Description	Qty.
241-35020	35020	1/32"	6
241-35021	35021	1/16"	6
241-35022	35022	1/8"	6

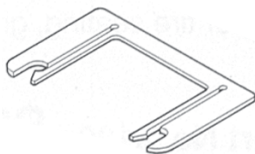
Freightliner Shims for Air Glide Suspension

- Over-the-road heavy duty adjusters for fast and accurate means to align front or rear axles of popular tandem trailers and trucks
- Reliable means to complete total heavy duty truck alignments



Ascot No.	Mfg. No.	Description	Qty.
241-35070	35070	1/32"	6
241-35071	35071	1/16"	6
241-35072	35072	1/8"	6

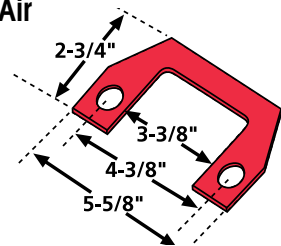
Volvo/White Tandem Shims



Ascot No.	Mfg. No.	Description	Qty.
246-35030	35030	1/32"	6
246-35031	35031	1/16"	6
246-35032	35032	1/8"	6

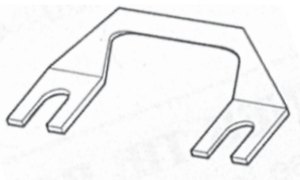
Peterbilt/Kenworth Flex Air Suspension Shims

- Adjust thrust angle and toe by shimming the torque arms



Ascot No.	Mfg. No.	Description	Qty.
241-36010	36010	1/32"	6
241-36011	36011	1/16"	6
241-36012	36012	1/8"	6

I.H.C. Torque Arm Shims



Ascot No.	Mfg. No.	Description	Qty.
246-35040	35040	1/32"	6
246-35041	35041	1/16"	6
246-35042	35042	1/8"	6

Heavy Duty Truck Alignment (Cont.)

Hendrickson Walking Beam Shims

- O.E. style shims recommended by Hendrickson
- Offers three adjustments of 0, 3/16" and 3/8"

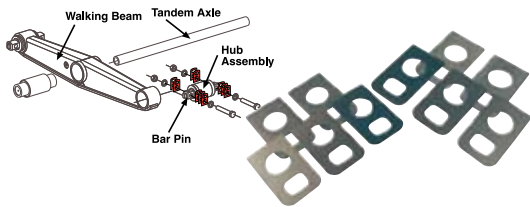
Ascot No.	Mfg. No.	Qty.
241-36080	36080	2
241-36085	36085	2



Hendrickson HD Shims

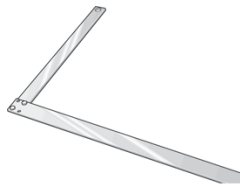
- Shim kit will adjust the thrust angle on Hendrickson's "walking beam" rear tandem axle suspension
- Improves tire wear and handling by adjusting thrust angle from 0" to 3/8" in precise 1/32" increments
- Includes 2 (two)-five piece kits
- Requires one set per wheel

Ascot No.	Mfg. No.
241-36087	36087



Tire Mating Square

- Checks for variance in dual tire mating
- Compare tire size by placing long arm against the side wall and short arm against tread



Ascot No.	Mfg. No.	Description
247-18440	91844	Length: Long Arm 48" ; Short Arm: 26" length

Toe Bar with Scribe

- Gives toe readings (in 1/32 of an inch increments) by measuring distances between marks scribed at the center of the tire treads
- Includes 8 ft. bar, 17 in. pointers, 5 in. stands and #WA516 scribe
- Reliable means to complete total heavy duty truck alignments



Ascot No.	Mfg. No.	Description
246-51100	99511	For Cars and Light Trucks
247-51200	99512	For Trucks, Buses, RVs, Vans

Truck Front Slip Plate Set (Pair)

- Used in conjunction with the WA515 toe gauge
- Steel slip plates allow the tire to move freely while the technician sets the toe



Ascot No.	Mfg. No.	Description
247-18410	91841	16" x 24" x 3/8"

Trailer Tandem Tracker

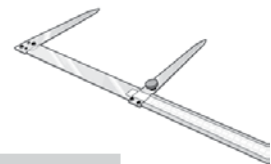
- Used to aid in measuring the tracking of tandem axles in relationship to the kingpin suspensions and the front and rear axles on the tandem
- Establishes a measuring point from the center of the wheel



Ascot No.	Mfg. No.	Description
246-18880	91888	Trailer Tandem Tracker Set (Pair)

Tandem Axle Caliper

- Used to check the spacing between the axles of tractors or trailers for alignment and tracking
- Easy to read scale in both metric and inches, with a range of 72"

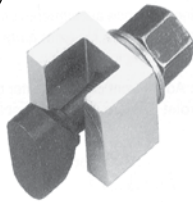


Ascot No.	Mfg. No.	Description
246-18910	91891	Tandem Axle Caliper

Alignment Tools

GM Upper Control Arm Punch

- For removing the alignment inserts on the upper control arm alignment brackets without damaging the alignment bracket
- Lubricate before use
- Not for use with impact wrenches (air tools)



Ascot No.	Mfg. No.
247-74910	74910

APPLICATIONS

Chevrolet/GM: 1989 - 1998
2WD/4WD C & K Series 1/2, 3/4 & 1
Ton Trucks, 1991 & Up AWD Astro
Vans & AWD Safari Vans

Canyon/Colorado Socket

Aligning these trucks can be difficult because it is impossible to access the head of the cam bolt to adjust alignment angles. This special grooved socket fits over the end of the bolt allowing the technician to turn the alignment cams to change alignment angles after loosening the lock nut. This socket makes aligning these 4WD trucks much quicker and easier.



Ascot No.	Mfg. No.
236-45938	45938

Ford Super Duty Tie Rod Sleeve Adjuster

- Designed for use on the new Ford Super Duty chassis as well as most other light trucks and vans
- Extra long bar gives you maximum leverage to loosen rusted sleeves without injuring your knuckles
- 8-position tool allows 360° rotation without removing the adjuster block from the sleeve



Ascot No.	Mfg. No.
236-77350	77350



Air Bladder Camber Adjusting Tool

- Air-assisted, multiple camber adjustment tool makes camber adjustment on many GM and Chrysler vehicles easier
- Simply loosen the strut mount bolts, place the adjuster between the tire and strut, and inflate. To adjust camber slowly release the air until the wheel retracts to the specified alignment setting. Tighten bolts and the alignment is done
- Includes a specially designed, puncture resistant air bladder, 2' air hose, a low pressure pop-off valve to prevent overinflating and an air control valve for inflating and controlled deflating

Ascot No.	Mfg. No.
228-61400	DOWTC614



H/D Steel Wheel Rim Straightening Tool

- For quick and easy removal of indentations on wheel flanges and rims of most vehicles
- Allows proper tire seating, giving greater tire protection and durability
- Powder coated for added durability



Ascot No.	Mfg. No.
247-08130	83109

Inner Tie Rod End Wrench Set

- Set Includes: **#89105** - Dual socket inner tie rod removal tool, fits 1-3/16" or 1-5/16" hex inner tie rod ends. **#89106** - A 1-3/16" hex tool for inner tie rod ends on Ford Escort, Tempo, Topaz, Lynx. **#89107** - A 1-5/16" hex tool designed for inner tie rod ends on 1986 & up Taurus/Sable. **#89108** - A 1-7/16" hex tool designed for GM Saginaw rack and pinions



CAUTION: Not for use with impact wrenches (air tools)

Ascot No.	Mfg. No.
227-89000	89000

Turntables (Pair)

- Full floating with enclosed ball bearings
- Large, easy to read dial is quickly adjusted to zero
- Ideal for racks, pits, floor units or stands
- For cars and light trucks
- Dimensions: 11" x 15-1/2" x 2"; Weight Limit: 5,000 Lbs./wheel
- Range: 100°

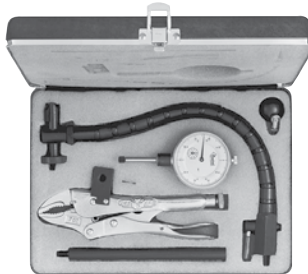


Ascot No.	Mfg. No.
217-00750	99750

Alignment Tools (Cont.)

Tire/Wheel Runout Gauge Set

- Gauge checks tire and wheel runout, disc brake rotor run out and ball joint wear
- Flex-Arm for easy positioning
- Clamping pliers securely attach anywhere on your balancer
- Gauge has a large contact for checking radial run out and a roller contact for checking wheels and sidewalls. Six-inch extension provides added reach
- Retaining ring prevents indicator from falling out
- Enclosed in a fitted case



Ascot No.	Mfg. No.
226-06454	6454

2WD/4WD Ball Joint Press

- Remove and replace universal joints without "brute force" methods that can cause costly damage
- A forcing screw-powered press, used with proper adapters, easily removes and installs all press-fit ball joints (inc. GM plastic pin C.V. type joints)
- Comes in a durable plastic case
- Package includes:
 - #4437 - press
 - #29503 - receiver tube, 3" OD x 2-3/4" ID
 - #29504 - receiver tube, 2-1/2" OD x 2-1/4" ID
 - #29505 - receiver tube, 2" OD x 1-3/4" ID
 - #38354 - 4WD receiving cup
 - #38355 - installing cup
 - #204508 - 4WD installing adapter
 - #305227 - installing adapter
 - #305228 - removing adapter



Ascot No.	Mfg. No.
227-07250	7250

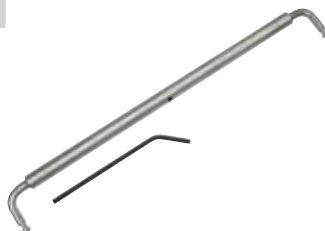
Camber Tool

This turnbuckle design tool attaches to the front lower control arms and allows the technician to easily change camber on these popular SUVs. The tool range is from 36" to 44".

Ascot No.	Mfg. No.
247-83795	83795

APPLICATIONS

- Buick:** 2004 & Up Rainier
- Chevrolet:** 2003 & Up SSR, 2002 & Up Trail Blazer
- GMC:** 2002 & Up Envoy
- Isuzu:** 2003 & Up Ascender
- Olds:** 2002 - 04 Bravada
- Saab:** 2005 & Up 9-7X



OTC Strut Tamer

- For MacPherson strut springs
- Safe compressor for handling virtually any straight, conical or offset spring
- Adjustable arm and four point locking jaws
- Adjustable center screw that floats from side to side to keep strut straight during compression



Ascot No.	Mfg. No.	Description	Weight
228-06580	6580	Master StrutTamer	81 Lbs.
228-06581	6581	Master StrutTamer with Stand	142 Lbs.
228-06582	6582	StrutTamer Stand	61 Lbs.

Branick Strut Spring Compressor

- You know the problems...small springs with tight coils, new models with short springs and steeper helix angles
- The answer for yesterday, today and tomorrow's struts
- Wall mount brackets standard



Ascot No.	Mfg. No.	Description
228-07400	7400	Strut Spring Compressor
228-00741	741	Bench Mount
228-00744	744	Strut Tool Cart

Radial Runout Gauge

Radial runout is an out of round condition in which the radius of the wheel or tire is not consistent from the wheel center to any point on the rim or the tread. Tire and wheel radial runout are often factors in troubleshooting ride and handling and in maintaining correct wheel balancing to reduce vibration.

- Measures vehicle vibration sensitivity
- Measures out of round condition
- Easy to use - only 2 adjustments
- Pinpoints high or low spots in the tire
- Determines accurate centering of tire and wheel mounting

Ascot No.	Mfg. No.
247-33173	33173



Alignment Tools (Cont.)

Alignment Tool Board

- New board set gives technicians the tools needed to complete today's modern alignments quickly and efficiently

Ascot No.	Mfg. No.	Description
251-87910	87910	Complete Board

BOARD CONTENTS (Includes 1 of each)

Mfg. No.	Description
7023	Tie Rod Tool
7195, 7196, 7197, 7198, 7199	Tie Rod Tools
8113	Mag. Adj. Camber Gauge
8370	Tie Rod Puller
31010	10" Power Grip Jaws
45938	Colorado/Canyon 4WD Alignment Socket
74910	GM Upper Control Arm Punch
77880	Ford OE Sleeve Puller
83775	Cas/Cam Tool - 93 & Up F-Body
87145	22mm Mini-Van Wrench
78155	Ford 4x4 Wrench
83820	Ford F150 Cam Kit Adj. Wrench
88325	Camber/Caster Wrench
83850	GM "W" Toe Tool



Mini-Van Wrenches

- Designed specifically to make front wheel alignments
- L-design of the wrench permits easy access to the bolt
- Full contact wrench that prevents slipping when adjusting eccentric toe cams



GM/Ford Mini-Van Wrench Set

- Set contains the most popular 3/4", 13/16" and 18mm wrenches to make camber and caster adjustments on Mini-Vans and GM rear wheel drive turbo passenger cars
- Full contact wrench that prevents slipping when adjusting eccentric toe cams

Ascot No.	Mfg. No.	Description
223-87125	87125	GM/Ford Mini-Van Wrench Set

Ascot No.	Mfg. No.	Description
223-87130	87130	13/16" Ford Aerostar Van Wrench
223-87135	87135	3/4" GM Mini-Van Wrench

APPLICATIONS: 223-87130

Ford RWD & 4WD: 1995 - 01 Explorer, 1998 - 00 Ranger, 2101 - 02 Sport Trac

Mercury RWD & 4WD: 1995 - 01 Mountaineer

Mazda RWD & 4WD: 1998 & Up B-Series Pickup

APPLICATIONS: 223-87135

GM: Astro Van 1973-87, GM 2WD Pickups