

# PART NO. 23180 SERIES

## Instruction Sheet

### FORD 2 & 4WD CAMBER/CASTER SLEEVES

*This part should only be installed by personnel who have the necessary skill, training and tools to do the job correctly and safely. Incorrect installation can result in personal injury, vehicle damage and / or loss of vehicle control.*

INSTALL P/N 23199 ZERO SLEEVE TO TAKE INITIAL ALIGNMENT READINGS.

1. Before beginning any alignment always check for loose or worn parts, tire pressure and odd tire wear patterns. Determine caster and camber change needed.
2. Remove wheel and tire assembly. Loosen and remove upper ball joint pinch bolt. Remove top snap ring, if present.
3. Using tool (No. 77880 or 88830), remove old sleeve.
4. Select desired sleeve based on zero sleeve readings and install.
5. Reinstall wheel and tire assembly.
6. Recompensate alignment equipment.
7. Rotate sleeve to achieve desired settings using tool #87175
8. Torque ball joint pinch bolt to manufacturers' specifications.
10. Replace snap ring. Set toe, and road test.

NOTE: A 12mm 12 point thin walled socket is required to loosen the recessed pinch bolt on 1990 & up down-size 4 wheel drive vehicles.

RWD			4WD		
Series	Adjustments	Adjustments	Series	Adjustments	Adjustments
Part No.	Total change	Total change	Part No.	Total change	Total change
23181	.25° (1/4°)	.20°	23188	2.00° (2°)	1.40°
23182	.50° (1/2°)	.40°	23189	2.25° (2-1/4°)	1.60°
23183	.75° (3/4°)	.60°	23190	2.50° (2-1/2°)	1.80°
23184	1.00° (1°)	.75°	23191	2.75° (2-3/4°)	2.00°
23185	1.25° (1-1/4°)	.90°	23192	3.00° (3°)	2.25°
23186	1.50° (1-1/2°)	1.10°	23193	3.25° (3-1/4°)	2.50°
23187	1.75° (1-3/4°)	1.25°	23194	3.50° (3-1/2°)	2.75°
			23199	0.00° (0°)	

*To save time during alignment, use the 23199 zero sleeve to determine initial readings.*



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Form No. 99840 • Rev.1/08