

# CR Scotseal wheel seals competitive interchange

National to CR			National 5-Star to CR			Stemco GritGuard to CR			Stemco Voyager to CR		
National	CR Scotseal Classic	CR Scotseal PlusXL	National 5-Star	CR Scotseal Classic	CR Scotseal PlusXL	Stemco GritGuard	CR Scotseal Classic	CR Scotseal PlusXL	Stemco Voyager	CR Scotseal Classic	CR Scotseal PlusXL
370001A	35066	35058 ♦	380001A	35066	35058 ♦	372-7048	31323	—	373-0113	40136	40129 ♦
370003A	47697	47691 ♦	380003A	47697	47691 ♦	372-7095	43752	43754	373-0123	42623	42627 ♦
370005A/	48000	48002	380022A	45099	45093	372-7097	46305	46300 ♦			or 42500*
370173A	(GMC) 47690	—	380023A	38780	38776 ♦			or 42626*	373-0143	46305	46300 ♦
370006A	47699	—	380025A	46305	46300 ♦	372-7098	40136	40129 ♦			or 42626*
370007A	48794	—			or 42626*	372-7099	42623	42627 ♦	373-0144	43752	43754
370009A	39420	—	380031A	42672	42673 ♦			or 42500*	383-0101	40086	40091
370011A	36358	—	380036A	40136	40129 ♦	382-8001	40086	40091	383-0136	35066	35058 ♦
370012A	36285	—	380048A	43764	43761 ♦	382-8028	48794	—	383-0139	39988	39979
370015A	40040	—	380065A	42623	42627 ♦	382-8034	36285	—	383-0153	44922	44916
370019A	43860	—			or 42500*	382-8036	35066	35058 ♦	383-0156	45103	45095
370021A	45160	45157	380131A	45103	45095	382-8039	39988	39979	383-0164	43764	43761 ♦
370022A	45099	45093	386025A	46305	46300 ♦		w/456301	w/456301	383-0166	28758	28759
370023A	38780	38776 ♦			or 42626*	382-8044	28832	—	383-0171	36358	—
370024A	38750	—	386590A	42623	42627 ♦	382-8053	44922	44916	383-0175	—	23590
370025A	46305	46300 ♦			or 42500*	382-8056	45103	45095	383-0176	—	29400
		or 42626*				382-8063	34975	34971	393-0103	45099	45093
370031A	42672	42673 ♦				382-8064	43764	43761 ♦	393-0104	42672	42673 ♦
370033A/	39988	39979	<b>Stemco Guardian HP to CR</b>			382-8066	28758	28759	393-0112	38780	38776 ♦
AR-12	w/456301	w/456301	<b>Stemco Guardian</b>	<b>CR Scotseal Classic</b>	<b>CR Scotseal PlusXL</b>	382-8071	36358	—	393-0115	38750	—
370036A	40136	40129 ♦				392-9033	44964	—	393-0134	48690	—
370037A	43752	43754					w/OEM Ring	—	393-0173	47697	47691 ♦
370046A	31323	—	307-0713	40136	40129 ♦	392-9035	34387	34384			
370047A	34387	34384	307-0723	42623	42627 ♦	392-9038	31323	—			
370048A	43764	43761 ♦			or 42500*	392-9054	48690	—	<b>Stemco Discover to CR</b>		
370054A	28832	—	307-0743	46305	46300 ♦	392-9081	48000	48002	<b>Stemco Discover</b>	<b>CR Scotseal Classic</b>	<b>CR Scotseal PlusXL</b>
370065A	42623	42627 ♦			or 42626*	392-9087	47699	—	373-0213	40136	40129 ♦
		or 42500*	307-0744	43752	43754	392-9088	45160	45157	373-0223	42623	42627 ♦
370066A	40086	40091	308-0836	35066	35058 ♦	392-9089	52658	—			or 42500*
370069A	52658	—	308-0853	44922	44916	392-9089	47697	47691 ♦			or 42626*
370124A	44922	44916	308-0856	45103	45095	392-9090	42672	42673 ♦	373-0243	46305	46300 ♦
370131A	45103	45095	308-0864	43764	43761 ♦	392-9094	45099	45093			or 42626*
370132A	34975	34971	308-0866	28758	28759	392-9096	43860	—			35058 ♦
370150A	28758	28759	308-0866	28758	28759	392-9097	47690	—	383-0236	35066	35058 ♦
370165A	38747	—	309-0903	45099	45093	392-9099	38780	38776 ♦	383-0239	39988	39979
370173A	48000	48002	309-0904	42672	42673 ♦		(GMC) 38750	—	383-0264	43764	43761 ♦
370178A	44964	—	309-0912	38780	38776 ♦		(IHC) 38747	—	393-0203	45099	45093
370181A	47690	—	309-0915	38750	—	382-9131	47697	47691 ♦	393-0204	42672	42673 ♦
370182A	43764	43761 ♦	309-0935	34387	34384				393-0273	47697	47691 ♦
370195A	48690	—	309-0960	48000	48002				393-0212	38780	38776 ♦
370199A	—	23590	309-0964	45160	45157						
370211A	—	29400	309-0965	43860	—						
370338A	43752	43754	309-0970	47699	—						
370349A	40136	40129 ♦	309-0973	47697	47691 ♦						
376590A	42623	42627									
		or 42500*									

\* Tool installed CR Scotseal Hybrid version (spindle mount)

♦ For CR Scotseal X-Treme, add suffix XT to part number



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SKF VSM NA  
890 N. State Street  
Suite 200  
Elgin, IL 60123  
800-882-0008  
[www.vsm.skf.com](http://www.vsm.skf.com)

## Manual wheel bearing adjustment procedure<sup>\*, 3), 4)</sup>

**Step 1:** Lubricate the wheel bearing with clean axle lubricant of the same type used in the axle sump or hub assembly.  
**Note:** Never use an impact wrench when tightening or loosening lug nuts or bolts during the procedure.

Initial adjusting nut torque	Initial back off	Final adjusting nut torque	Axle type	Threads per inch	Final back off	Nut size	Torque specifications	Acceptable end play
<b>Step 2</b>	<b>Step 3</b>	<b>Step 4</b>	<b>Step 5</b>		<b>Step 6</b>	<b>Step 7</b>		<b>Step 8</b>
200 lb-ft (271 N·m) While rotating wheels	One full turn	50 lb-ft (68 N·m) While rotating wheels	Steer (front) non-drive	12	1/6 Turn <sup>1)</sup>	Less than 2 5/8 in (66.7 mm)	200–300 lb-ft (271–407 N·m)	0.001 in – 0.005 in (0.025 mm– 0.127 mm) As measured per procedure with dial indicator
				18	1/4 Turn <sup>1)</sup>			
				12	1/3 Turn <sup>1)</sup>			
				14	1/2 Turn			
				18				
			Drive	12	1/4 Turn	Dowel type washer	300–400 lb-ft (407–542 N·m)	
				16		Tang type washer <sup>2)</sup>	200–275 lb-ft (271–373 N·m)	
			Trailer	12	1/4 Turn	Less than 2 5/8 in (66.7 mm)	200–300 lb-ft (271–407 N·m)	
				16				

<sup>1)</sup> If dowel pin and washer (or washer tang and nut flat) are not aligned, remove the washer, turn it over, and reinstall. If required, loosen the inner (adjusting) nut just enough for alignment.

<sup>2)</sup> Bendable type washer lock only: Secure nuts by bending one wheel nut washer tang over the inner and outer nut. Bend the tangs over the closest flat perpendicular to the tang.

<sup>3)</sup> See "Wheel bearing lock nut system installation & adjustment procedures" in the 457975 SKF TFO Guide (12-2017)

<sup>4)</sup> See "PreSet/PreSet Plus wheel bearing adjustment procedure" in the 457975 SKF TFO Guide (12-2017)

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## End play verification procedure

**Wheel bearing end play is the free movement of the wheel assembly along the spindle axis. It is recommended, for verification purposes, that wheel bearing end play be measured with a dial indicator.**

**Step 1** Make sure the brake drum to hub fasteners are tightened to the manufacturers' specifications.

**Step 2** Attach a dial indicator with its magnetic base at the bottom of the hub or brake drum.

**Step 3** Adjust the dial indicator so that its plunger or pointer is against the end of the spindle with its line of action approximately parallel to the axis of the spindle.

**Note:** For aluminum hubs, attach the magnetic base of the indicator to the end of the spindle with the plunger against the hub or brake drum.

**Step 4** Set the dial indicator to zero by rotating the gauge face so the zero mark lines up with the gauge needle. For digital indicators, push the zero-out button.

**Step 5** Grasp the wheel assembly at the 3 o'clock and 9 o'clock positions, while oscillating it to seat the bearings. Read bearing end play as the total indicator movement.

**Note:** If end play is not within specifications, repeat wheel bearing adjustment procedure until end play is within proper range.

## Pre-adjusted wheel bearing adjustment procedure

**This refers to torque specifications and bearing adjustments. Please refer to original equipment manufacturer's recommended procedures for complete installation details.**

**One piece spindle nuts** - Torque a one piece spindle nut to 300 ft. lbs. while rotating the hub. **Do not back off the spindle nut.** Engage any locking device that is a part of the spindle nut system. If the locking device can not be engaged, advance the spindle nut until the lock can be engaged.

**Double jam nut systems** - Torque the inner spindle nut to 300 ft. lbs. while rotating the hub. Advance the inner nut as necessary to engage the locking ring. **Do not back off the spindle nut.** Install the outer spindle nut and torque it to 200 ft. lbs. Be sure to engage any locking device.