

SKF Scotseal wheel seals competitive interchange

National			National 5-Star			Stemco GritGuard			Stemco Voyager		
National	Scotseal Classic	Scotseal PlusXL	National 5-Star	Scotseal Classic	Scotseal PlusXL	Stemco GritGuard	Scotseal Classic	Scotseal PlusXL	Stemco Voyager	Scotseal Classic	Scotseal PlusXL
370001A	35066	35058	380001A	35066	35058	372-7048	31307	—	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	386002A	46305	46300		w/456301	w/456301	383-0166	28758	28759
370023A	38780	38776	386590A	42673	42627	382-8044	28832	—	383-0171	36358	—
370024A	38750	38746			or 42500*	382-8053	44922	44916	383-0175	—	23590
370025A	46305	46300				382-8056	45103	45095	383-0176	—	29480
		or 42626*	Stemco Guardian HP			382-8063	34975	34971	393-0103	45099	45093
370031A	42672	42673	Stemco Guardian	Scotseal Classic	Scotseal PlusXL	382-8064	43764	43761	393-0104	42672	42673
370033A/	39988	39979				382-8066	28758	28759	393-0112	38780	38776
AR-12	w/456301	w/456301	307-0713	40136	40129	382-8071	36358	—	393-0115	38750	—
370036A	40136	40129	307-0723	42623	42627	392-9033	44964	—	393-0134	48690	—
370037A	43752	43754			or 42500*		w/OEM Ring	—	393-0173	47697	47691
370046A	31307	—			or 42626*	392-9035	34387	34384			
370047A	34387	34384	307-0743	46305	46300	392-9038	31307	—			
370048A	43764	43761				392-9054	48690	—	Stemco Discover		
370054A	28832	—	307-0744	43752	43754	392-9081	48000	48002	Stemco Discover	Scotseal Classic	Scotseal PlusXL
370065A	42623	42627	308-0836	35066	35058	392-9087	47699	—	373-0213	40136	40129
		or 42500*	308-0853	44922	44916	392-9088	45160	45157	373-0223	42623	42627
370066A	40086	40091	308-0856	45103	45095	392-9089	52658	—			or 42500*
370069A	52658	—	308-0864	43764	43761	392-9089	47697	47691			or 42626*
370124A	44922	44916	308-0866	28758	28759	392-9090	42672	42673	373-0243	46305	46300
370131A	45103	45095	309-0903	45099	45093	392-9094	45099	45093			
370132A	34975	34971	309-0904	42672	42673	392-9096	43860	—			
370150A	28758	28759	309-0912	38780	38776	392-9097	47690	—	383-0236	35066	35058
370165A	38747	—	309-0915	38750	—	392-9099	38780	38776	383-0239	39988	39979
370173A	48000	48002	309-0935	34387	34384		(GMC) 38750	—	383-0264	43764	43761
370178A	44964	—	309-0960	48000	48002		(IHC) 38747	—	393-0203	45099	45093
370181A	47690	—	309-0964	45160	45157	382-9131	47697	47691	393-0204	42672	42673
370182A	43764	43761	309-0965	43860	—				393-0273	47697	47691
370195A	48690	—	309-0970	47699	—				393-0212	38780	38776
370199A	—	23590	309-0973	47697	47691						
370211A	—	29480									
370338A	43752	43754									
370349A	40136	40129									

* Tool installed spindle mount version of Scotseal PlusXL; Available Q42016.



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Manual wheel bearing adjustment procedure*

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	
Step 2	Step 3	Step 4	Step 5		Step 6	Step 7		Step 8	
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 ¹⁾	Install cotter pin to lock axle nut in position		0.001 in – 0.005 in (0.025 mm– 0.127 mm) As measured per procedure with dial indicator	
				18	1/4 Turn ¹⁾				
				12	1/3 Turn ¹⁾	Less than 2 5/8 in (66.7 mm)	200–300 lb-ft (271–407 N·m)		
				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 ²⁾	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					

¹⁾ 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.

²⁾ 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.

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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.