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15 Superfactor 15 1

The OS Super Lock LSD instantly reacts and transitions smoothly from both free and locked positions, thus combining advantages of a normal differential's drivability and a race limited slip differential's performance and stability.



1. OS Giken's Revolutionary and Patented Lock Timing Technology

Under normal driving conditions, our OS Super Lock LSD operates with the smoothness of a normal differential. Once full power is applied, it transforms into a 100% locking LSD. Thanks to our patented design, our Super Lock LSDs are able to perform this transformation with such unparalleled smoothness, the transition occurs virtually unnoticed. In addition, our design also enables the Super Lock LSDs to be extremely responsive to throttle input and smoothly lock or loosen accordingly.

(Patent earned in USA, Japan, Taiwan, and Korea)



Known for its renowned racing engine design and engineering expertise in parts development since the 1970's, OS Giken utilized its accumulated know edge and engineering experience to develop its own limited slip differential. Four years of extensive research and development lead to a new and revolutionary LSD design. Whether it be a day of shopping or a day out on the race circuit, the OS Super Lock LSDs easily adapts to any style of driving, thus contradicting the conventional perception that a mechanical limited slip differential is for professional race use only.



2. Truly 100% Lock Capable.

Some of the determining factors of an LSD's quality and capability are the number of friction plates and their diameter (total surface area). Our OS Super Lock LSD design minimized the bevel gears and pinion gears to create more space inside the differential case to maximize disc space and diameter. As a result, our design enables 1.5 to 2 times more friction plates compared to other more conventional mechanical limited slip differential designs. Utilizing our own forging technology, our internal gears have incredible durability and strength. Our innovative designs and original technologies have enabled us to create a true 100% locking LSD.

(Patent earned in USA, Japan. Patent Pending in China, Taiwan, and Korea)



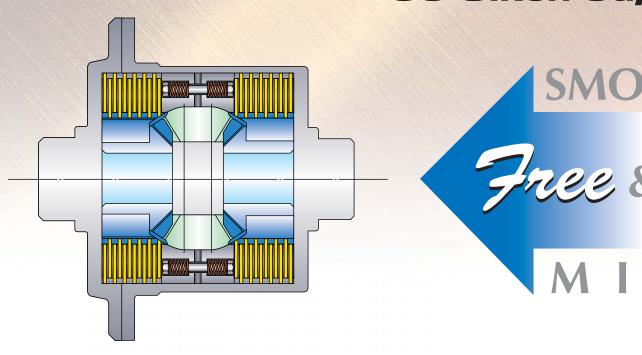


3. #1 & #2 High performance and durability results in a new dimension = OS Giken advantage.

OS Giken has designed a differential to be smooth at low speeds, yet able to 100% lock completely during high loads. In addition, our exact engineering and precision machining assures our LSD's internal components precisely fit and function as one complete unit, thus reducing temperature and most incurred wear during operation. OS Giken Super Lock LSDs have unparalleled durability and longevity.



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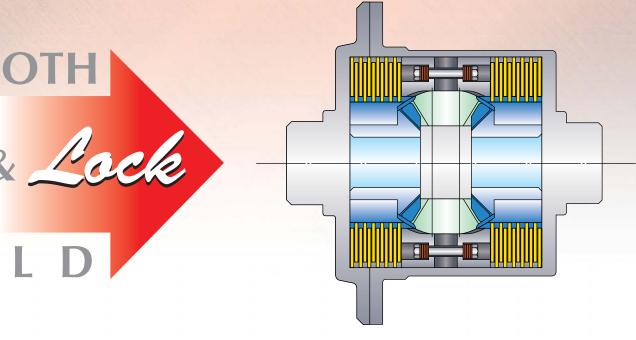


Unlocked initial torque condition

Advantages of an OS G

- A true 100% locking LSD: No movement of internal parts means less heat is generated while in operation and less wear of the friction disks. Less initial torque loss and incredible longevity and durability can be realized.
 - st We have tested our LSD for 35,000km and there was no wear or loss of performance.
- Proven Durability and Reliability: No drop in performance or loss of initial torque, even during long and stressful endurance races.
 - * During the Altezza (IS300) Single Make Race in Japan, an OS Giken equipped Altezza ran a total of 3 seasons totaling 23 races and never had to change or rebuild its LSD. Even now, this unit only requires regular inspection service only.
- Straight line stability: During a drag race, our LSD will lock 100% and provide torque equally to each powered wheel. Stable and straight runs will result thus eliminating torque steer in FF applications and lower the chance of drive-shaft breakage.
- Customizable: Lock timing can be customized by adjusting the spring inside the pressure ring. Tune the LSD to custom fit any specification and set-up of your desired vehicle and driving style/skill level for optimum performance. (SPEC-X Only)
- By using a pressure control ring, the LSD responds smoothly to the application of initial torque. Lock engagement is smooth and the impact vibration is significantly reduced. This increases the stability of the vehicle and allows more freedom for the driver to trace the desired racing line.
- On snow tracks and regions with unstable road conditions, our OS Super Lock LSD easily adapts and adjusts tire rotation to increase vehicle stability. Bad weather and harsh road conditions are not a problem when the vehicle is equipped with an OS Super Lock LSD.

per Lock LSD

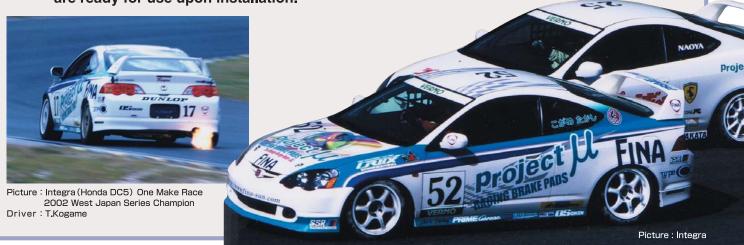


100% locked condition

iken Super Lock LSD

- Less under-steer during cornering: When entering into a corner with the throttle closed, the spring inside the pressure control ring will react accordingly and immediately return the differential's internal components to the original initial torque settings and thus creating less under-steer. However, with a conventional differential, there will be a lapse of time before returning to the initial torque settings, as it takes time for the cone springs to react and make contact with the friction disk in order to close the pressure ring.
- When exiting from a corner, our LSD's transition to the full 100% lock position is smooth and predictable. This gives the vehicle better traction and stability, resulting in better lap times while racing.

 OS Giken Super Lock LSDs do not require any break-in process. OS Super Lock LSDs are composed of parts that have been precisely machine to exact specifications and are ready for use upon installation.





PRODUCTS LIST

NISSAN

Model	Model No.	Engine	M/T	Year Notes	SPEC-S	Extended
Skyline	HCR32	RB20DET	•	'89/5thru'93/7	D-NA202061405-S	*1
	ECR33	RB25DET	•	'93/8thru'98/5	D-NA202061405-S	Not for ABS & Active LSD
	ER34	RB25DET	•	'98/5on	D-NA402061405-S	*1 Not for Active LSD
	DNIDOO	DDACDETT	•	'89/8to'93/1	D-NA302061405-S	For Rear *2
	BNR32	RB26DETT	•	'93/1to'94/12	D-NA302061405-S	No Additional OS Giken Parts Required for Installation
	BCNR33	RB26DETT	•	'95/1to'98/12	D-NA302061405-S	Not for rear active LSD
	BNR34	RB26DETT	•	'99/1on	D-NA302061405-S	Not for rear active LSD
180SX	RPS13	SR20DET	•	'91/1to96/11	D-NA202061405-S	*1
	HP513	SHZUDET	•	'96/12to'98/12	D-NA202061405-S	*1
Silvia	PS13	SR20DET	•	'91/1to'93/10	D-NA102061405-S	*1
	S14	CDAADET	•	'93/11to'96/11	D-NA202061405-S	*1
	514	SR20DET	•	'96/12to'98/12	D-NA202061405-S	*1
	S15	SR20DET	•	'99/1on	D-NA402061405-S	No Additional OS Giken Parts Required for Installation
Fairlady	Z33	VQ35DE	•	'02/8on	D-NB102061405-S	*1
Cedric	Y34	VQ30DET	_	_	D-NA402051605-S	No Additional OS Giken Parts Required for Installation

TOYOTA

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Model	Model No.	Engine	M/T	Year Notes	SPEC-S	Extended	
MarkII & Chaser	JZX90	1JZGTE	•	'92/10to'96/8	D-TC102061405-S	*3	
	JZ \\ 90	132616	_	'92/10to'96/8	D-TC102061405-S	*3	
	JZX100	1JZGTE	•	'96/9on	D-TC102061405-S	*3	
	JZX100	IJZGIE	_	'96/9on	D-TC102061405-S	*3	
	JZX110	1JZGTE	•	'00/10on	D-TC102061405-S	*3	
Supra	JZA70	1JZGTE	•	'90/8to'93/5	D-TC102061405-S	*3	
	JZA80	2JZGE	_	'93/5to'96/5	D-TD102061405-S	'93/5 to '96/6 except	
	JZA80	2JZGTE	_	'93/5to'96/5	D-TD102061405-S	'93/5 to '96/5 6spd; *4	
Soarer	17700 01	1JZGTE	_	'91/6to'96/8	D-TD102061405-S	*4	
	JZZ30,31	2JZGE	_	'91/6to'96/8	D-TD102061405-S	*4	
	UZZ30	1UZFE	_	'91/6to'96/8	D-TD102061405-S	*4	
Aristo	UZS143	1UZFE	_	'91/10to	D-TD102051605-S	*4	
	170147	2JZGE	_	'92/10to	D-TD102051605-S	*4	
	JZS147	2JZGTE	_	'92/10to	D-TD102051605-S	*4	
	170100101	2JZGE	_	'97/8to	D-TD102051605-S	*4	
	JZS160,161	2JZGTE	_	'97/8to	D-TD102051605-S	*4	
Levin, Trueno	AE86(1st style)	4AG	•	'83/5to'85/9	D-TA202081604-S	No Additional OS Giken Parts Required for Installation	
	AE86 (2st style)	4AG	•	'85/10to'87/4	D-TA102081604-S	No Additional OS Giken Parts Required for Installation	
Altezza	SXE10	3SG	•	'98/10on	D-TB102081404-S	No Additional OS Giken Parts Required for Installation	

OS Giken Super Lock L.S.D SPEC-S 1.5WAY (FF is Limited 1.1WAY) While our LSDs are ideal for use in sports driving, racing, auto-cross, and quarter mile applications, we also are proud to say that

While our LSDs are ideal for use in sports driving, racing, auto-cross, and quarter mile applications, we also are proud to say that they are considered to be some of the most quiet and easy to drive LSDs available. Our OS Super Lock LSDs are more than suitable for use in your daily driver.

OS Giken Super Lock L.S.D SPEC-X FULL ORDER TYPE

The Type X version is available in 1.1 way, 1.5 way, and 2 way types with customizable cam angles, lock timing, initial torque settings. For a Type X LSD tuned to best suit your driving style and vehicle, please contact the nearest Authorized OS Giken Distributor.

MAZDA

Model	Model No.	Engine	M/T	Year Notes	SPEC-S	Extended
RX-7	FC3S	13B	•	'85/9to'91/10	D-MA102061405-S	*5
	FD3S	13B	•	'91/11to	D-MA102061405-S	No Additional OS Giken Parts Required for Installation
RX-8	SE3P	13B-MSP	•	_	D-MA102061405-S	No Additional OS Giken Parts Required for Installation
Unos 1800	NA8	BP	•	_	D-MA202061404-S	No Additional OS Giken Parts Required for Installation *13

HONDA

Model	Model No.	Engine	M/T	Year Notes	SPEC-S	Extended
Civic	EK9	B16B	•	'97/8to'00/9	D-HB101091401-S	optional final gear *6
Integra	DC2	B18C	•	'93/5thru'01/7	D-HB101091401-S	Type R *7
	DC5	K20A	•	'01/7on	D-HC101091401-S	No Additional OS Giken Parts Required for Installation *8
S2000	AP1	F20C	•	'99/4on	D-HA102081604-S	No Additional OS Giken Parts Required for Installation
NSX	NIA 3	0004			D-HD102062004-SF	*9
	NA1	C30A	•	_	D-HD102062004-SF4,4-5	*10
	NAO	0004			D-HD102062004-SF	*9
	NA2	C32A	•	_	D-HD102062004-SF4,4-6	*10

MITSUBISHI

Model	Model No.	Engine	M/T	Year Notes	SPEC-S	Extended
Lancer Evolution	CP9A	4G63	•	'98/1to'00/12	D-MIA101081402-S	front LSD kit *14
Lancer Evolution	CP9A	4G63	•	'98/1to'00/12	D-MIB102081404-S	rear LSD (for RS w/o AYC)
Lancer Evolution	CP9A	4G63	•	'98/1to'00/1	D-MIC102081404-S	rear LSD (for GSR w/AYC) *15

SUBARU

Model	Model No.	Engine	M/T	Year Notes	SPEC-S	Extended
Impreza						Under Development

OS Giken Note Key:

- *1 ··· Refer to Side Flange Adaptation List #1.
- *2... Exchange with Genuine Nissan side flange pn:38220-12 U00×1and pn:38220-12U01×1.
- *3··· Refer to Side Flange Adaptation List #2.
- *4··· Refer to Side Flange Adaptation List #3.
- *5... For Viscous LSD equipped vehicles, exchange with Genuine Mazda side flange pn:P019-27-270B×2 and snap ring pn:P016-27-421×2. Open differential vehicles need no additional modification.
- *6... Transmission case must be machined to provide clearance. Remove speedometer gear and replace with OS Giken speedometer gear.
- *7··· Remove speedometer gear and replace with OS Giken speedometer gear.
- *8··· Remove and replace speedometer gear.

- *9... Includes ring gear for normal final gear.
- *10··· Includes 4.4 Final Gear Set.
- *11··· Not for use for diesel turbo models. Upon order, please specify whether vehicle is ABS equipped or not.
- *12··· Upon order, please specify whether vehicle's side bearing's diameter is 50mm or 45.3mm.
- *13... Not for use with turbo equipped vehicles or 1600cc models.
- *14... Upon order, please send in transfer case for OS Giken qualified technical center for machining. Please consult an authorized OS Giken Distributor for further details. (does not apply to Lancer Evolution IV)
- *15... Upon order, please send in AYC case assembly to an OS Giken qualified technical center for machining. Please consult an authorized OS Giken Distributor for further details. (does not apply to Lancer Evo IV)

Please Contact Your Authorized OS Giken Distributor for Further Details.



SIDE FLANGE ADAPTATION LIST

No.	1
NISSA	N

4	Model	Model No.	Engine	M/T	Year	OE Flange	Flange Replacement
	Skyline	HCR32	RB20DET	•	'89/5thru'93/7		
AN	Skyline	ECR33	RB25DET	•	'93/8thru'98/5	For 5 bolt OE Flanges	Genuine Nissan pn:38220-73L01×2
	180SX	RPS13	SR20DET	•	'91/1to'96/11	FOI 5 DOIL OF Flatiges	Genume Nissan pm.30220-/3201/2
	10037	nrois	SHEUDET	•	'96/12to'98/12		
		PS13	SR20DET	•	'91/1to'93/10	For 6 bold OE Flanges	Genuine Nissan pn:38220-41F01×2
	Silvia	S14	SR20DET	•	'93/11to'96/11	FUI 6 DUIU DE FIAITIGES	
		514	SHZUDET	•	'96/12to'98/12		
	Clayling	ED24	DDAEDET	•	'98/5on	For Viscous LSD	38220-0V770 (right side)×1
	Skyllile	Skyline ER34 RB25DET	NDZODEI		98/50N	FOR VISCOUS LSD	38220-0V771 (left side)×1
	Fairlady	Z33	VQ35DE	•	'02/8on	For Viscous LSD equiped vehicles w/long flange	38220-AR011×1
	Skyline	BNR32	RB26DETT	•	'89/8to'93/1	If vehicle's spline has 30 ridge	38220-12U00 (right side) ×1
	OKYIIIIE	טוארטב	INDENDETT		(models before minor change)	ii veriidie a apiiile lida oo liuge	38220-12U01 (left side)×1

No.2 TOYOTA

For vehicles equipped with an open differential, no additional OS Giken parts are required for installation. For vehicles equipped with a Toyota Torsen type LSD, please refer to the chart below.

4	Model	Model No.	Engine	M/T	Year	OE Flange	Flange Replacement
		JZX90	1JZGTE	•	'92/10to'96/8		
	MarkⅡ	JZX80	IJZGIE	_	'92/10to'96/8		
	Chaser	JZX100	1JZGTE	•	'96/9on	For vehicles with	41309-22050×2
	Criasei	JZX100	132616	_	'96/9on	Torsen LSD	
		JZX110	1JZGTE	-	'00/10on		
	Supra	JZA70	1JZGTE	•	'90/8to'93/5		41309—14060×2



For vehicles equipped with an open differential, no additional OS Giken parts are required for installation. For vehicles equipped with a Toyota Torsen type LSD, please refer to the chart below.

Model	Model No.	Engine	M/T	Year	OE Flange	Flange Replacement
Supra	JZX80	2JZGE	-	'93/5to'96/5		
Supra	JZ.780	2JZGTE	-	'93/5to'96/5		
	JZZ30.31	1JZGTE	-	'91/6to'96/8		
Soarer	JZZ3U,31	2JZGE	_	'91/6to'96/8		41309—24020×2
	UZZ30	1UZFE	_	'91/6to'96/8	For vehicles with	
	UZS143	1UZFE	_	'91/10to	Torsen LSD	
	JZS147	2JZGE	_	'92/10to		
Aristo	UZ3147	2JZGTE	_	'92/10to		
	JZS160.161	2JZGE	_	'97/8to		
	JZ3100,101	2JZGTE	_	'97/8to		



Your Authorized OS Dealer:



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- * The price listed on this catalogue is subject to change without notice.

 * The price listed on this catalogue does not include sales tax.

 * Pictures of the products in this catalogue may look different due to printing limitation.



Picture: Altezza