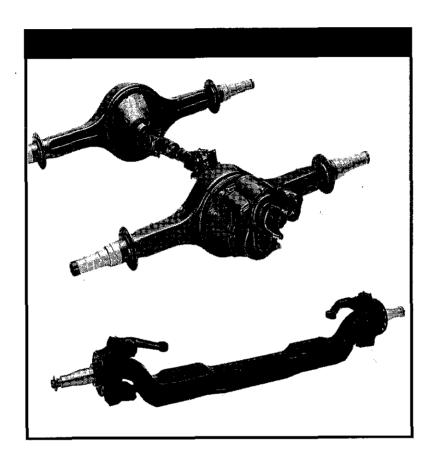
SPICER HEAVY AXLE QUICK REFERENCE GUIDE

SPICER®

Features and Benefits Popularity Listings Dimensional Data





HX500-QR DECEMBER, 1997



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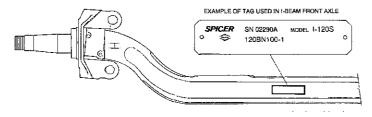
Note: All Spicer Gold "S" Series products are available only through O.E. channels of distribution.
All Spicer "N" Series products are available only through Navistar.

FRONT AXLE IDENTIFICATION



FRONT AXLE IDENTIFICATION

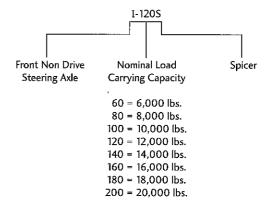
The Spicer front non drive steering axles are identified with a tag located between the spring pads, on the front side of the center beam section.



The axle tag contains the serial number, the model number, and the assembly number.

SPICER HEAVY AXLE MODEL NUBERING SYSTEM

The Spicer model numbering system provides pertinent information about the axle for easy identification. For example:



REAR AXLE IDENTIFICATION

REAR AXLE IDENTIFICATION

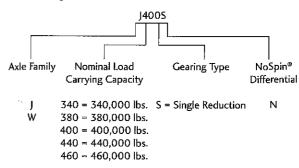
All Spicer heavy axle assemblies are identified with two tags. One located on the differential carrier, and the other on the other on the right front leg of the banjo housing.

The carrier tag contains the serial number, the carrier assembly number, and the ratio. EXAMPLE OF TAG USED ON CARRIER ASSEMBLIES SPICER SN 15685A 472CA100-1X RATIO 3.54 EXAMPLE OF TAG USED ON AXLE ASSEMBLIES SPICER SN 15485B MODEL J400-S 472AD100-1

The housing tag contains the serial number, model number, and the axle assembly number.

SPICER HEAVY AXLE MODEL IDENTIFICATION

The Spicer model numbering system provides pertinent information about the axle for easy identification. For example:



SPICER HEAVY AXLE PRODUCTION KEY

NON-DRIVE F	RONT AXLES	
Spicer Model	G.A.W.R.	Production Dates
150	5,000	Pre 1989
I60	6,000	Pre 1990
160	6,000	1989 to current
160	6,000	1992 to current
175	7,500	Pre 1990
1 75	7,500	Pre 1987
180	8,000	Pre 1990
180	8,000	1988 to current
190	9,000	Pre 1990
I100	10,000	1988 to current
I 108	10,800	Pre 1990
I120	12,000	Pre 1990
I120	12,000	Pre 1987
I120	12,000	1988 to current
I120 Deep	12,000	1989 to current
1132	13,500	1987 to 1990
I140	14,000	1988 to current
1 160	16,000	1991 to current
I 180	18,000	1991 to current
1200	20,000	1991 to current

Spicer Model	G.A.W.R.	Production Dates
F155	10,000	1987 to 1997
F155	12,000	1987 to 1997
F155	13,000	1987 to 1997
F155	15,500	1987 to 1997
F170	17,000	Pre 1989
G175	17,500	Pre 1989
G190	19,000	Pre 1988
J175	17,500	1976 to current
J190	17,500	1976 to current
J190	19,000	1976 to current
J210	21,000	1976 to current
J220	22,000	1976 to current
M185/M190	19,000	Pre 1987
M220	22,000	Pre 1989
N175*	15,500	1992 to current
N175*	15,900	1992 to current
N175*	17,500	1988 to current
N175*	17,500	1990 to current
N190*	16,900	1992 to current

Spicer Model	G.A.W.R.	Production Dates
N190*	17,500	1988 to current
N190*	19,000	1989 to current
N190SP*	19,800	1989 to current
N210*	21,000	1989 to 1994
S100*	10,000	1994 to current
S122*	12,200	1994 to current
S135*	13,500	1994 to current
S150*	15,500	1994 to current
S230*	23,000	1994 to current
\$230SL*	23,000	1994 to current
W230	23,000	1986 to current
W230SP	23,000	Pre 1986
S230SL*	23,000	1994 to current

TANDEM REAR	TANDEM REAR AXLES							
Spicer Model	G.A.W.R.	Production Dates						
G300	30,000	Pre 1986						
G340	34,000	Pre 1986						
G380	38,000	Pre 1986						
J340	34,000	1986 to 1990						
J380	38,000	1986 to 1990						
J400	40,000	1986 to current						
N340*	34,000	1989 to current						
N400*	40,000	1988 to current						
S230SL/T200*	40,000	1994 to current						
S400, Standard axle*	40,000	1994 to current						
S400 w/lube pump*	40,000	1994 to current						
S400 Standard axle	40,000	1994 to current						
w/215 wheel end*								
S400SL w/driver controlled differenti	40,000 ial*	1994 to current						
S400SL w/lube pump	, 40,000	1994 to current						
differential lock*								
W460	46,000	1986 to current						

TWO SPEED REAR AXLES						
Spicer Model	G.A.W.R.	Production Dates				
G155T	15,500	1989 to current				
G175T	17,500	1986 to current				
M190T	19,000	1986 to current				
M210T	21,000	1986 to current				
M220T	22,000	1986 to current				

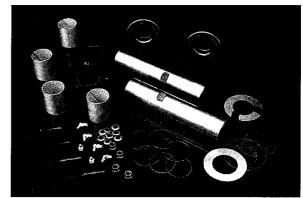
FRONT AXLE KING PIN KITS



Available nationwide at authorized Spicer locations are premium pre-sized king pin service kits for the most popular Spicer front axles. Twelve (12) pre-sized kit packages cover twenty-eight (28) models for excellent truck application coverage.

The improvements and value-added benefits to Spicer customers are numerous — with proper installation and maintenance, the premium kit will more than double the service life* in a variety of vocations over existing standard replacement and competetive bronze bushing kits.

For Spicer customers that demand nothing less than the best bushing technology available in the industry today, install Spicer premium king pin service kits.



PRE-SIZED, EXACT FIT BUSHINGS

Being pre-sized, no special calibrating, honing or reaming is required by service personnel — allowing Spicer customers to get in and out of the service area with reduced time for installation. The previous time allocated for using special tools and preparation for old style kits has been eliminated.

PREMIUM FEATURES AND BENEFITS

Premium versus Standard Bronze Type

Spicer premium pre-sized bushings are made with an acetal polymer lining with staggered grease pockets for uniform king pin lube distribution. The acetal liner is used in combination with a steel backing for strength and a layer of porous



bronze for excellent heat dissipation. Service replacement costs over standard bronze type bushings are competitive when installation labor is included. This minimal expense is more than off-set by the positive advantages of considerably longer life, extended lube intervals and low-friction easier steering effort. Being more than a basic replacement bushing to simply get by, pre-sized bushings are a proven premium product for those demanding the best.

Excellent Sealing Characteristics

A major cause of accelerated king pin wear is contamination or harsh abrasives entering into areas where there should be only

lubrication. Nine (9) Spicer pre-sized king pin kits now contain upper and lower bushing seals that are easily installed during reassembly. The lower bushing seal has been added to the Senior Axle kits at no additional cost.** Sealing off the lower bushing cannot be done with current competitive bronze type kits.

^{*}Based on Garlock Bearings, Inc. direct comparison wear life tests.

^{**}Upper and lower seals are now included in nine (9) kits for the popular Senior Series.

FRONT AXLE KING PIN KITS (cont'd)

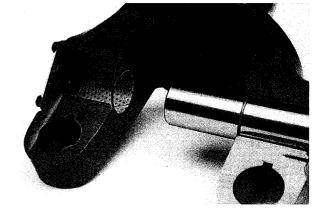
Less Steering Effort

Spicer line haul class 8 front axle models are designed with larger diameter king pins and bushings for greater axle stability and extended service life. When this design is combined with proven low-friction king pin bushings that incorporate balanced internal lubrication characteristics, the result is a smoother, easier steering effort or turning force under a variety of driving conditions.

Extended Lube Intervals to 18,000 Miles

Once premium pre-sized kits have been installed, maintenance lube intervals are extended to 18,000 miles versus the

current 10,000 mile recommendation on competitive bronze bushings. This unique bushing lubrication design provides maximum utilization and protection of the lube at installation and dramatically reduces future maintenance time and related expense.

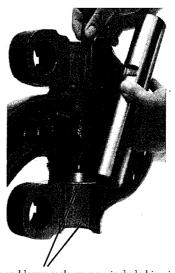


SIMPLE INSTALLATION

In all Spicer non-driving steer axles, pre-sized bushing installation is simple:

- 1. Remove knuckles as outlined in maintenance procedures and remove old bushing using an appropriate bushing installer/remover.
- 2. Clean and inspect the knuckle for excessive wear or damage.
- 3. Using a small clean brush or fingers, take some of the specified lube and completely fill or coat the polymer pockets on the inside of the bushing. Hand start bushing into king pin bores.
- 4. Using a bushing installer, press bushings to dimensions for axle model being serviced. Install and carefully press upper and lower seals until flush with knuckle bore surface.





Upper and lower seals are now included in nine (9) kits for the popular Senior Series.

Spicer Model	Spicer Part Number	Size*	Bushing Type**	Pin Type***	Pin Length	Pin Diameter
150	101 KK 109	Standard	G	S	7.97	1.359
•	101 KK 110	.002/OS	G	S	7.97	1.361
160	101 KK109	Standard	G	S	7.97	1.359
	101 KK 110	.002/OS	G	S	7.97	1.361
	101 KK 111	Standard	G	D	7.97	1.359
175	101 KK 109	Standard	G	\$	7.97	1.359
	101 KK110	.002/OS	G	S	7.97	1.361
	101 KK 111	Standard	G	D	7.97	1.359
180	101 KK 111	Standard	G	D	7.97	1.359
	101 KK 110	.002/OS	G	S	7.97	- 1,361
190	337KK103	.002/OS	G	\$	9.16	1.611
	309KK102	Standard	G	D	9.16	1.609
	493092C92	.002/OS	В	S	8.85	1.486
	591945C92	Standard	В	D	8.85	1.484
1100	120KK100	Standard	G	D	9.87	1.921
I108	337KK104	.002/OS	G	S	9.66	1.611
	343KK103	Standard	G	D	9.66	1.609
1120	120KK100	Standard	G	D	9.87	1.921
	337KK104	.002/OS	Ġ	S	9.66	1.611
	343KK103	Standard	G	Ď	9.66	1.609
I132	337KK104	.002/OS	G	S	9.66	1.611
1135	337KK104	.002/OS	G	S	9.66	1.611
I 140	140KK100	Standard	G	D	10.12	2.046
1160	220KK100	Standard	G	D	11,00	2.046
I180	220KK100	Standard	G	D	11.00	2.046
1200	220KK100	Standard	G	D	11.00	2.046

^{*} OS = Oversize Screen

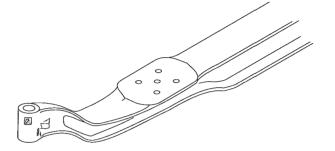
^{**} Bushing Type: B = Bronze, G = Presized Garlock

^{***} Pin Type: S = Single draw key, D = Dual draw key

SUSPENSION & STEERING FRONT AXLE I-BEAMS

FEATURES

- All Spicer service I-beams are genuine original equipment, the exact same high quality components used in production Spicer front axle assemblies.
- Made from high strength, heat-treated, fine grain forgings
- Stiffest beam in the industry
- Reduces tire wear
- Lightest weight steel I-beam in the industry



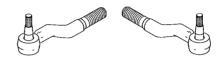
FRONT AXLE I-BE	EAMS		
Spicer Model	Spicer Part Number	G.A.W.R.	Notes
150, 160	441219C1	5,000, 6,000	Loadstar
	465813C1	5,000, 6,000	S-Series
I 75	101 TB102	7,500	Loadstar
175,180	101 TB 104	7,500; 8;000	S-Series
190	584277C1	9,000	S-Series
	586120C1	9,000	Loadstar
1108, 1120, 1135	584206C1	9,000, 10,800,	Straight Center I-Beam for S-Series
		12,000; 13,500	without CAT-3208 Engine and
			except Model 1853FC
I108, I120	584273C1	10,800, 12,000	and a summary of the companies of the companies and the companies of the c
	584274C1	9,000, 10,800, 12,000	S-Series with CAT-3208 Engine and
			Model 1853FC
	586124C1	10,800, 12,000	Loadstar



SUSPENSION & STEERING TIE ROD ENDS

FEATURES

- Steering pivot points which accommodate rotational and angular motion.
- Provide torque control and automatic wear adjustment.
- Forged, not cast, for strength
- Precision loaded with a belleville spring to maintain tolerance
- Large diameter shaft to reduce deflection
- OEM Engineered Quality



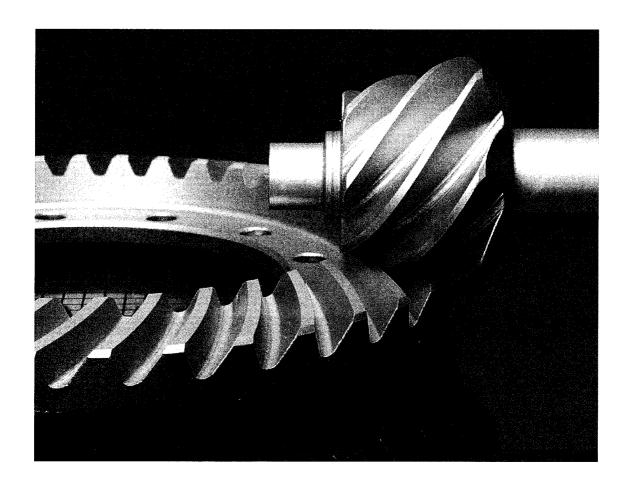


Spicer Model	G.A.W.R.	Side	Part No.	A Length Thread	B Rod Diameter	C Small Length	D Taper Thread	E Stud
150	6,000	RH	080TR117	4.43	1-16R	0.783	0.928	3/4-16
		LH	080TR116	4.43	1-16L	0.783	0.928	3/4-16
160		RH	080TR117	4.43	1-16R	0.783	0.928	3/4-16
		LH	080TR116	4.43	1-16L	0.783	0.928	3/4-16
170	7,000	RH	080TR117	3.88	1-16R	0.664	0.848	5/8-18
		LH	080TR116	3.88	1-16L	0.664	0.848	5/8-18
175	7,500	RH	080TR117	3.88	1-16R	0.664	0.848	5/8-18
		LH	080TR116	3.88	1- 16L	0.664	0.848	5/8-18
		RH	080TR117	4.43	1-16R	0.783	0.928	3/4-16
		LH	080TR116	4.43	1-16L	0.783	0.928	3/4-16
190	9,000	RH	140TR110	9.18	1-1/8-12R	0.967	1.080	7/8-14
		LH	140TR109	9.18	1-1/8-12L	0.967	1.080	7/8-14
		RH	140TR110	4.88	1-1/8-12R	0.967	1.080	7/8-14
		LH	140TR109	4.88	1-1/8-12L	0.967	1.080	7/8-14
		RH	140TR110	4.88	1-1/8-12R	0.967	1.080	7/8-14
		RH	140TR110	9.18	1-1/8-12R	0.967	1.080	7/8-14
		LH	140TR109	9.18	1-1/8-12L	0.967	1.080	7/8-14
I 108	10,800	RH	140TR110	9.18	1-1/8-12R	0.967	1.080	7/8-14
		LH	140TR109	9.18	1-1/8-12L	0.967	1.080	7/8-14
I 120	12,000	RH	140TR110	9.18	1-1/8-12R	0.967	1.080	7/8-14
		LH	140TR109	9.18	1-1/8-12L	0.967	1.080	7/8-14
		RH	140TR110	9.18	1-1/8-12R	0.967	1.080	7/8-14
		LH	140TR109	9.18	1-1/8-12L	0.967	1.080	7/8-14

SUSPENSION & STEERING TIE ROD ENDS (cont'd)

picer	ENDS (continu G.A.W.R.	Side	Part No.	A Length	B Rod	C Small	D Taper	E Stud
Model					Thread	Diameter	Length	Thread
132	13,200	RH	140TR110	5.44	1-1/8-12R	0.967	1.080	7/8-14
nementahajan tendapat map pilanti Was		LH	140TR109	5.44	1-1/8-12L	0.967	1.080	7/8-14
[140]	14,000	RH	140TR110	9.18	1-1/8-12R	0.967	1.080	7/8-14
¥*************************************		LH	140TR109	9.18	1+1/8-12L	0.967	1.080	7/8-14
1160	16,000	RH	220TR116	5.75	1-1/4-12R	1.080	1.410	7/8-14
		LH	220TR115	5.75	1-1/4-12L	1.080	1.410	7/8-14
		RH	220TR119	12.69	1-1/4-12R	1.080	1.410	7/8-14
		LH	220TR118	12.69	1-1/4-12L	1.080	1.410	7/8-14
1180	18,000	ŘH	220TR116	5.75	1-1/4-12R	1.080	1:410	7/8-14
		LH	220TR115	5.75	1-1/4-12L	1.080	1:410	7/8-14
	maka Maria	RH	220TR119	12.69	1-1/4-12R	1.080	1.410	7/8-14
		LH	220TR118	12.69	1-1/4-12L	1.080	1.410	7/8-14
1 200	20,000	RH	220TR116	5.75	1-1/4-12R	1.080	1.410	7/8-14
		LH	220TR115	5.75	1-1/4-12L	1.080	1.410	7/8-14
		RH	220TR119	12.69	1-1/4-12R	1.080	1.410	7/8-14
		LH	220TR118	12.69	1-1/4-12L	1.080	1.410	7/8-14

GENUINE O.E.M. RING GEAR AND PINION COST COMPETITIVE KITS



Compare Our Pricing on 80 Plus Kits

Spicer now offers over 80 ring gear and pinion kits for customers that desire genuine O.E.M. parts. All Spicer kits are manufactured under the same rigid O.E. specifications as the original ring gear and pinion. This assures minimum vibration level within the truck's complete balanced drivetrain system. The best part for service replacement is an original part and at a very competitive price. All Packaged kits also contain a new pinion nut and are easier to setup to original engineering specifications.

The non-original "will fits" cannot offer the same engineering specs to insure top performance and service life. Each ring gear and pinion kit is precisely matched for optimum

gear contact pattern by the Spicer Heavy Axle and Brake Division of Dana Corporation.

These 80 PLUS kits are immediately available through the Spicer distribution network. This, as well as all other related parts, gives the customer the highest standard in quality and long life dependability for the lowest price possible — all from one source.

Spicer offers a 12 month, unlimited miles warranty.

See the following pages for complete listing of sizes and ratios.

RING & PINION GEAR SETS

FEATURES

- Heat-treated high strength forged gears, not cast
- Matched sets for easy set-up
- Original equipment, not aftermarket
- 80+ part numbers available through your distribution center
- Pinion nut included at no additional cost
- Competitively priced to aftermarket gears





NOTE: When changing ratios, refer to "How to Change Gear Ratios" on page 15.

As of 1993 ring gear bolts are used. Rivets were used before 1993.

You can replace rivets with bolts (refer to page 14)

GGAKG120X

Spicer Model	Ring Gear Bolt Kit Number	Spicer Part Number	Ratio	Spicer Model	Ring Gear Bolt Kit Number	Spicer Part Number	Ratio
F155S	401 KY 101 X	039KG100X	4.33	G340, G380, J340S,	401 KY 101 X	597236C91	3.54
		029KG100X	4.78	J380S, J400S		597237C91	3.73
		029KG101X	5.57	E LE GREE PARLETTE DE MONARE DESTABLES AND PARLET DE SECURIT DE LE CONTRACTOR DE LA CONTRAC	endervels (Andrie 1919) in the result of the control of the contro	597238C91	3.91
		029KG102X	6.50			597239C91	4.10
an De Lancia (No. 100 and 100	de contrador formas contribuil for se la coma con Fire consideration and contribuil and reference	029KG103X	7.17	Body Marie State (Marie Marie Marie Special Marie Mari	etikalista kaikan kan maran 1967 dikan maran 1961 dikitan dari diketikan dari diketikan dari diketikan dari di	597240C91	4.44
15,90		586152C91	4.78			597241 C91	4.78
The first of the second		68906R94	5.57			597242C91	5.38
		68907R94	6.50			597243C91	6.14
indicated and action of the Armidest FREE America	en fana kola Stort in 1964 û 1966 û 1975 û 1966 û 1975 û 1966 û 1975 û 1966 û 1975 û 1976 û 1975 û 1976 û 1975	68908R94	7.17	t tie thing and the first time to their Add Stuffer to the		597244C91	6.57
						597245C91	7.17
F170S	401 KY 101 X	586152C91	4.78			597246C91	8.17
		68906R94	5.57	J190S	401 KY 101 X	597236C91	3.54
gentralist og en tylt i i som til hedd fædeledels	alar alither thick is a value of a could be a second of a could be a could be a could be a could be	68907R94	6.50			597237C91	3.73
		68908R94	7,17			597238C91	3.91
t er eine fallen die Stalle und von der zur Com der Geschert dem zu Gescherkeit alle beiteilt.	ika Kalabada da Araba (1906-1914). Taran semba (1906-1914) (1906-1914) (1906-1914) (1906-1914) (1906-1914)	039KG100X	4.33			597239G91	4.10
		029KG100X	4.78			597240C91	4.44
		029KG101 X	5.57			597241 C91	4.78
		029KG102X	6.50			597242C91	5.38
		029KG103X	7.17			597243C91	6.14
						597244C91	6.57
G155T, G175T	Not Applicable	GGAKG127X	4.56		THE SAME OF	597245C91	7.17
		GGAKG117X	4.89	The second secon		597246C91	8.17
magnitude contact from the analytical article	r ver retrible et er event et i leet worde.	GGAKG118X	5.57				
		GGAKG119X	6.17				

Spicer Model	Ring Gear Bolt Kit Number	Spicer Part Number	Ratio	Spicer Model	Ring Gear Bolt Kit Number	Spicer Part Number	Ratio
J175S, J190S,	401 KY101 X	597236C91	3.54	N175*, N190*,	401 KY 101 X	401 KG136X	5.63
J210S, J220S		597237C91	3.73	N210*		401 KG 127X	6:14
		597238C91	3.91	e commence of a resident day to a public and the commence of t	and the Committee of th	401 KG 132 X	6.50
		597239C91	4.10			401 KG 133 X	7.17
		597240C91	4.44				
		597241 C91	4.78	N340*, N400*	401 KY 101 X	401 KG100X	3.06
		1694169C91	5.11			401 KG 101 X	3.21
		597242C91	5.38			401 KG102X	3.42
		1694169C91	5.63			401 KG103 X	3.54
		597243C91	6.14			401 KG104X	3.73
		597244C91	6.57			401 KG105X	. 3,97
		597245C91	7.17	Self-Sp Demokra Makeya Amin'ny Et 1920 mpanagambanya		401 KG106X	4.10
		597246C91	8.17	70a		401 KG107X	4.44
	•					401 KG109X	4.78
M230T	Not Applicable	NAMES OF THE PARTY	4.11/5.60	W-45		401 KG128X	5,11
		MJAKH133X 4	Salastra iliaisi			401 KG112X	5.38
			1.89/6.66			401 KG 135 X	5.63
		MJAKG134X				401 KG126X	6.14
			5.57/7.60			401 KG113 X	3.06
and the second		MJAKG121X		Parameter Company		401 KG114X	3.21
		MJAKG122X 6	TO STANDED STORE OF A CONTROL O			401 KG115X	3.42
		MJAKG123X	7.17/9.77			401 KG116X	3.54
MIOOT MOIOT	NI_+ APL1_	MAKCIZOV	4 11 /5 60			401 KG117X	3.73
M190T, M210T, M220T	Not Applicable	enne og regerengen for forskriveren. Det skiller for forskriveren forskriveren forskriveren forskriveren forskriveren forskriveren forskriveren for	4.11/5.60 4.66/6.31			401 KG118X	3.91
- IVIZZU I		MJAKG133X 4	1.89/6.66	E and a second		401 KG119X 401 KG120X	4.10 4.44
		ACOMONO ROMAN TRUSPESSOR	5.29/7.21			401 KG120X	4.78
energy and the second		District State of Workship	5.57/7.60			401 KG129X	5.11
7		MJAKG120X	NORSON TAKE ORGANIZATION CO.			401 KG125X	5.38
	and the state of t	MJAKG121X 6		K		401 KG136X	5.63
		MJAKG123X				401 KG127X	6,14
			2,11,7,2,7,4		<u> </u>	norme iz/	0,,,
N175*, N190*,	401 KY 101 X	401 KG 116 X	3.54	W230S	057KY101 X	597247C91	3.54
N210*		401 KG 117X	-3.73		Many State of the	597248C91	3,73
	nda ng Jargo wata. No 1971, ang 198	401 KG 118X	3.91	tatististististististististististististist	namene valle frank i Austria IV	597249C91	3.91
		401 KG 119X	4.10			597250C91	4.10
etrest dispresión filós e Filifi		401 KG120X	4.44	ngskarengel a langskar	. Jan 541 g 64 g 67 i i i 16 5 i i A 74:	597251 C91	4.44
		401 KG122X	4.78			597252C91	4.78
estatus en entre site se se su la completa de la c La completa de la co	auras sa tuge (1902 a.a.) A.A., ISB fizikli)	401 KG129X	5.11	valoriani Angelia (n. 1811).	organistic territorio de la la Sala Sala	597253C91	5.38
		401 KG125X	5.38	partwaterer (3.%) a 2.715.90	BYERFFERENCE WITH CONTROL	597254C91	6,14

RING & PINION GEAR SETS (cont'd)

Spicer Model	Ring GearBolt Kit Number	Spicer Part Number	Ratio	Spicer Model	Ring GearBolt Kit Number	Spicer Part Number	Ratio
W230S	057KY101 X	597255C91	6.57	W460S	057KY101 X	597251 C91	4.44
		597256C91	7.17			597252C91	4.78
				For Superior Back and Control State (Control State Control	. The second and all all all all and a second and a second and a second	597253C91	5.38
W460S	057KY101X	597247C91	3.54			597254C91	6.14
		597248C91	3.73			597255C91	6.57
		597249C91	3.91			597256C91	7.17
		597250C91	4.10	Street 1-15 Biochester Sec. Schole	an termina anala ai dia Properti and dia dia 1991 di Manadi dia dia dia 1994.	e colonia de la colonia de	

Note: F, J, and N Model Axles

401 KY101 X Kit (1696994C91 - Navistar) M16 X 1.5 - 6G bolt. Torque to 300 - 320 lb. ft. (406 - 434 N-M)

Additional tooling may be required during bolt installation in the "N" Series axles. 6.50 thru 7.83 ratios, to prevent bolt head rotation.

W Model Axles

057KY101 X Kit (1697352C91 - Navistar) M18 X 1.5 - 6G bolt. Torque to 300 - 320 lb. ft. (406 - 434 N-M)

S 230S Model Axle

300KY100X Kit (1697452C91 - Navistar) M18 X 1.5 - 6G bolt. Torque to 300 - 320 lb. ft. (406 - 434 N-M)

HOW TO CHANGE GEAR RATIOS

NOTE: A ratio change may cause a flange change. When changing ratios, you must check for case compatability. Refer to the listing below for the appropriate case number. Also see the Ring and Pinion listing beginning on page 12 to select the proper Ring and Pinion number.

Spicer Model	Ratio	Flanged Half,	Spicer Model	Ratio	Flanged Half,
		Case Part Number			Case Part Numbe
F155S, F175S	3.91	029DU101	J175S, J190S, J220S, G340,	6.57	505757C1
	4.33	581550C1	G380, G400	7.17	505757C1
	4.78	581550C1		8.17	505757C1
	5.18	581550C1			
	5.29	581550C1	M190S Replaced by (Locked-o	ut) 3.70**	
	5.57	241282R1			
	6.50	241282R1	M190T, M210T, M220T,	3.70	MJADZ100
	7.17	241282R1	M230T	3.90	MJADZ100
				4.11	MJADZ100
G155T, G175T	4.56	GGADZ100		4.36	MJADZ100
	4.89	GGADZ100	er e	4.56	MJADZ100
The second secon	5.57	GGADZ100		4.89	MJADZ100
	6.17	GGADZ100	e en en en et en	5.57	MJADZ100
r general see historia a rawa ta hisi aara aara aara ah isa da fata araba ah fi fata (1994). D	6.50	GGADZ100		6.14	MJADZ100
	7.17	GGADZ100	 	6.50	MJADZ100
	2.80			7,17	MJADZ100
G175S Replaced by (Locked-out)	4.33**				
G175S Replaced by (Locked-out)	4.33**		M220S 2-speed carrier assemb	oly 4.11	
G175S Replaced by (Locked-out) G190S 2-speed carrier assembly			M220S 2-speed carrier assemb	oly 4.11 4.56	
			M220S 2-speed carrier assemb	pilongan satra co, ka je	
	4.56		M220S 2-speed carrier assemb	4.56	
	4.56 4.89		M220S 2-speed carrier assemb	4:56 4.89	
	4.56 4.89 5.29		M220S 2-speed carrier assemb	4.56 4.89 5.29	
	4.56 4.89 5.29 5,57		M2205 2-speed carrier assemb	4:56 4.89 5.29 5.57	
	4.56 4.89 5.29 5,57 6.17		M220S 2-speed carrier assemb	4:56 4:89 5:29 5:57 6:17	
G190S 2-speed carrier assembly	4.56 4.89 5.29 5,57 6.17 6.50 7.17	584281C1		4.56 4.89 5.29 5.57 6.17 6.50 7.17	401 DU101
G190S 2-speed carrier assembly J175S, J190S, J220S, G340,	4.56 4.89 5.29 5.57 6.17 6.50 7.17	584281 C1 505756C1	M2205 2-speed carrier assemb	4.56 4.89 5.29 5.57 6.17 6.50 7.17	401 DU101 401 DU101
G190S 2-speed carrier assembly	4.56 4.89 5.29 5,57 6.17 6.50 7.17	505756C1		4.56 4.89 5.29 5.57 6.17 6.50 7.17	401 DU101
G190S 2-speed carrier assembly J175S, J190S, J220S, G340,	4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.54 3.73 3.91	505756C1 505756C1		4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.06 3.21 3.42	401 DU101 401 DU101
G190S 2-speed carrier assembly J175S, J190S, J220S, G340, G380, G400	4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.54 3.73 3.91 4.10	505756C1 505756C1 505756C1		4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.06 3.21 3.42 3.54	401 DU101 401 DU101 401 DU101
G190S 2-speed carrier assembly J175S, J190S, J220S, G340, G380, G400	4.56 4.89 5.29 5,57 6.17 6.50 7.17 3.54 3.73 3.91 4.10 4.44	505756C1 505756C1 505756C1 505756C1		4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.06 3.21 3.42 3.54 3.73	401 DU101 401 DU101 401 DU101 401 DU101
G190S 2-speed carrier assembly J175S, J190S, J220S, G340, G380, G400	4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.54 3.73 3.91 4.10	505756C1 505756C1 505756C1		4.56 4.89 5.29 5.57 6.17 6.50 7.17 3.06 3.21 3.42 3.54	401 DU101 401 DU101 401 DU101

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* Not available to independent aftermarket

** Two speed carrier locked into high replaces single speed carrier.

HOW TO CHANGE GEAR RATIOS (cont'd)

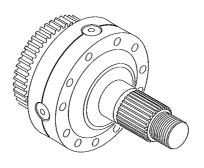
C78 111 38 553 14 560 17 333 06 21 42 54 77 391	401 DU103 401 DU103 401 DU103 401 DU103 401 DU103 401 DU103 401 DU105 401 DU105 401 DU105 401 DU101	\$135\$*, \$150\$* \$230\$*	4.44 4.78 5.38 6.14 6.43 7.17 3.07 3.21 3.73 4.08 4.44	Flanged Half, Case Part Number 360DU105 360DU107 360DU109 360DU109 360DU109 300DU103 300DU103 300DU105 300DU105 300DU105 300DU105
111 388 333 144 500 117 335 066 21 42 34 42 34 73 91	401 DU103 401 DU103 401 DU103 401 DU103 401 DU105 401 DU105 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101		4.78 5.38 6.14 6.43 7.17 3.07 3.21 3.73 4.08 4.44	360DU107 360DU107 360DU109 360DU109 360DU109 300DU103 300DU103 300DU105 300DU105 300DU105
38 33 33 14 50 17 33 33 96 21 42 42 43 73	401 DU103 401 DU103 401 DU103 401 DU105 401 DU105 401 DU105 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$230S*	5.38 6.14 6.43 7.17 3.07 3.21 3.73 4.08 4.44	360DU107 360DU109 360DU109 360DU109 300DU103 300DU103 300DU105 300DU105
53 14 50 17 33 36 21 42 34 34 39	401 DU103 401 DU103 401 DU105 401 DU105 401 DU105 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$2305*	6.14 6.43 7.17 3.07 3.21 3.73 4.08 4.44	360DU109 360DU109 360DU109 300DU103 300DU103 300DU105 300DU105 300DU105
14 50 50 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	401 DU103 401 DU105 401 DU105 401 DU105 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$230S*	6.43 7.17 3.07 3.21 3.73 4.08 4.44	360DU109 360DU109 300DU103 300DU103 300DU105 300DU105 300DU105
50 17 33 33 06 21 42 54 73	401 DU105 401 DU105 401 DU105 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$230\$*	3.07 3.21 3.73 4.08 4.44	360DU109 300DU103 300DU105 300DU105 300DU105
17 333 96 21 42 34 73	401 DU105 401 DU105 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$230S*	3.07 3.21 3.73 4.08 4.44	300DU103 300DU103 300DU105 300DU105 300DU105
333 06 221 42 44 73	401 DU101 401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$230\$*	3.21 3.73 4.08 4.44	<300DU103 300DU105 300DU105 300DU105
06 21 42 44 73	401 DU101 401 DU101 401 DU101 401 DU101 401 DU101	\$2305*	3.21 3.73 4.08 4.44	<300DU103 300DU105 300DU105 300DU105
21 42 54 73	401 DU101 401 DU101 401 DU101 401 DU101		3.73 4.08 4.44	300DU105 300DU105 300DU105
21 42 54 73	401 DU101 401 DU101 401 DU101 401 DU101		4,08 4.44	300DU105 300DU105
12 54 73	401 DU101 401 DU101 401 DU101		4.44	300DU105
54 73 91	401 DU101 401 DU101			
73 91	401 DU101		4.78	300DLI107
91.	ENFORCEMENT VINS CHARLES OF TAXABLE FOR			34090107
	401 DU101			
10		S400FWD*, S400RR*	2.81	390DU109
	401 DU101		2,93	390DU109
14	401 DU101		3.07	390DU101
78	401 DU 103		3.21	390DU103
11	401 DU103		3.42	390DU103
38	401 DU 103		3.54	390DU103
53	401 DU 103	First 1 No September 2 August 2 Augus 2 August 2	3.73	390DU103
14	401 DU103	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.91	390DU105
50	401 DU105	processor and the contract of	4.10	390DU105
17	401 DU105		4,44	390DU105
33	401 DU105		4.78	390DU107
59	360DU101	W230S, W460S	3.54	584284C1
31	360DU101		3.73	208523R5
			3.91	208523R5
92	360DU101	ent thy series	4.10	208523R5
07	360DU101		4.44	208523R5
21	360DU101	er e	4.78	161091R5
38	360DU103		5.38	161091 R5
54	360DU103		6.14	161091 R5
73	360DU103		6.57	161091 R5
91	360DU105	en e	7.17	161091 R5
	69 81 92 97 21 338 54 73 91	360DU101 81 360DU101 92 360DU101 07 360DU101 21 360DU101 38 360DU103 54 360DU103 73 360DU103 91 360DU105	360DU101 W230S, W460S 81 360DU101 92 360DU101 07 360DU101 21 360DU101 38 360DU103 54 360DU103 73 360DU103 91 360DU105	59 360DU101 W230S, W460S 3.54 81 360DU101 3.73 3.91 92 360DU101 4.10 07 360DU101 4.44 21 360DU101 4.78 38 360DU103 5.38 54 360DU103 6.14 73 360DU103 6.57 91 360DU105 7.17

POWER DIVIDER KITS



FEATURES

- Precision forged side gears and pinion mates
- High strength forged heat treated cross
- Heat treated pinion bushings
- New rivited case for more strength with less size





POWER DIVIDER KITS					
	Spicer Part Numbers				
		Cases, Bolts,	Housing, Cases, Bolts,		
Spicer Model	Gears & Cross Kit	Gears & Cross Kit	Gears & Cross Kits		
G341, G340, G380	R30KR101 X	R30KR102X	R30KR103X		
			with 3/8" housing bolt hole		
			R30KR105X		
			with $1/2"$ housing bolt hole		
J380S, J400S, W460S	472KS102X	472KS104X	472KD111X		
N340*, N400*	401 KZ 101 X	Not Available	401 KD 100X		
S400S*	Not Available	. 472DD102X	Not Available		
		390KD101X			



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All Spicer "N" Series products are available only through Navistar.
* Not available to independent aftermarket

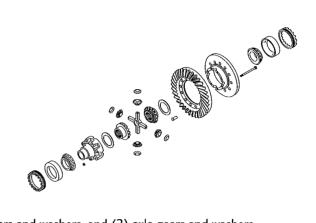
This list is not complete, check parts catalog for comprehensive list.

Riveted design power divider cannot be used with old style housing.

DIFFERENTIAL PARTS KITS

FEATURES

- Precision forged side gears and pinion mates
- High strength forged heat treated cross
- Heat treated pinion bushings
- Broached or rolled axle shaft splines



Note: Kit consists of (1) spider cross, (4) pinion gears and washers, and (2) axle gears and washers. Spider cross, pinion gears and axle gear are serviced only in kits.

Spicer Model	Spicer Part Number	Spline Type	Spline Size
F155S	029KR100X	Straight Cut	1-3/4" x 16
	472KS106X	Rolled/Involute	1-7/8" x 36
F170S	029KR101X	Straight Cut	1-7/8" x 16
	472KS106X	Rolled/Involute	1,-7/8" x 36
G155T, G175S, G175T	GGAKD101 X	Rolled/Involute	1-7/8" x 36
G185S	GGAKD102X	Rolled/Involute	2" x 39
G300S	472KS106X	Rolled/Involute	1-7/8" x 36
G340S	R44KR100X	Straight Cut	2" x 16
	472KS108X	Rolled/Involute	2"x 39
G380S, J400S	047KR100X	Straight Cut	2-1/8" x 20
	472KS109X	Rolled/Involute	2-1/8" x 41
J175S	042KR100X	Straight Cut	1-3/4" x 16
	472KS107X	Rolled/Involute	1-7/8" x 36
J190S, N190*, N210*, N340*	472KS108X	Rolled/Involute	2" x 39
J220S	047KR100X	Straight Cut	2-1/8" x 20
	472KS109X	Rolled/Involute	2-1/8" x 41
J340S, J380S	472KS108X	Rolled/Involute	2" x 39.
M230T	MJAKD103X	Rolled/Involute	2-1/8" x 41
M190T, M220T	MJAKD101 X	Rolled/Involute	2" x 39
N175*	472KS107X	Rolled/Involute	1-7/8" x 36
N190*, N210*	472KS108X	Rolled/Involute	2" x 39
N400*	472KS109X	Rolled/Involute	2-1/8" x 41
W230S	057KR100X	Straight Cut	2-21/64" x 22
	472KS110X	Rolled/Involute	2-3/8" x 46
W460S	057KR100X	Straight Cut	2-21/64" x 22
	472KS110X	Rolled/Involute	2-3/8" x 46

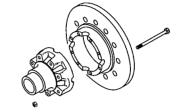
This list is not complete, check parts catalog for comprehensive list.

DIFFERENTIAL CASE KIT



FEATURES

- Made of high strength fine grain nodular iron
- Machined as a set for proper fit
- Machined pilot diameter for proper ring gear location
- Bolt kit included at no additional cost



Note: Case kit includes two halves of the case, cap screws, and nut.

Spicer Model	Spicer Part Number	Ratio
F155S, F170S	592224C91	4.44/5.38
	493203C91	5.57/7.17
G155T, G175T	GGAKF102X	All Ratios
J175S, G340, G380, J340S, J380S	493204C91	3.43/4.44
	493205C91	4.7 8/8.17
J1905, J2105, J220S, G380, J400S, J340S, J380S	586702C91	3.54
	493204C91	3.73/4.44
	493205C91	4.78/7.17
M230T, M190T, M220T, M210T	MJAKF100X	All Ratios
N175*, N190*, N210*, N190 School Bus*, N340*, N400*	401 KQ 100X	3.06/4.44
	401 KQ 101 X	4.56/6.14
N340*, N400*	401 KQ 100X	3.06/4.44
	401 KQ 101 X	4.56/6.14
W230, W460S	586703C91	3.54
	493206C91	3.43/4.44
	493207C91	4.78/7.16

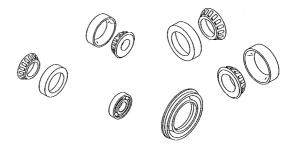
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* Not available to independent aftermarket

This list is not complete, check parts catalog for comprehensive list.

SPICER DIFFERENTIAL MAJOR OVERHAUL KITS

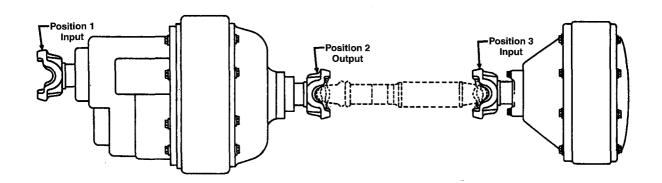
FEATURES

- OEM Bearings, not aftermarket
- All major overhaul kits contain service bulletins



Spicer Model	Spicer Part Number	Spicer Model	Spicer Part Number
F155	341 KS 101	M190T	MJAKA101 X
F170S	341 KS101	M210T	MJAKA101X
G155T	GGAKA101 X	M220S	MJAKA 101 X
G175S	GGAKA101 X	M220T	MJAKA101 X
G175T	GGAKA101 X	M230T	MJAKA101 X
G190S	GGAKA101 X	N175*	401 KS101 X
G300S (FR)	341 KS 100	N190*	401 KS 101 X
G300S (RR)	341 KS101	N190 School Bus*	401 KS101 X
G340 (FR)	351 KS100	N210*	401 KS 101 X
G340 (RR)	472KS101	N340 (FR)*	401 KS100X
G380 (FR)	351 KS100	N340 (RR)*	401 KS101 X
G380 (RR)	472KS101	N400 (FR)*	401 KS 100X
J175S	472KS101	N400 (RR)*	401 KS 101 X
J190S	472K\$101	S135*	360KS100X
J210S	472KS101	S150*	360KS100X
J220S	472KS101	S230*	300KS100X
J340S (FR)	472KS100	S400 (FR)*	390KS105X
J340S (RR)	472KS101	S400 (RR)*	390KS103X
J380S (FR)	472KS100	W230	429KS100
J380S (RR)	472KS101	W230	429KS100
J400S (FR)	472KS100	W460 (FR)	474KS100
J400S (RR)	472KS101	W460 (RR)	474K\$101
M190S	MJAKA101 X		The state of the s

REAR AXLE SEAL CHANGES & SUPERSESSIONS



		Spicer Part Numbers			
Spicer Model	Oil Seal	Original	July, 1991 Change	March, 1993 Change	
F155S	Pinion	GGAHH106	029HH100	029HH100	
3175S, G190S	Pinion	070HH139	GGAHH109	GGAHH109	
и190т, м220Т					
и210Т, М230Т					
400S, W460S	Forward Input	GGAHH102	472HH100	472HH100	
400S, W460S	Forward Output	GGÄHH104	472HH101	472HH101	
N175*, N190*	Pinion	GGAHH103	401 HH102	401 HH102	
N190*, W175	Forward Output	401 HH101	401 HH103	401.HH103	
N210*, N340*					
N400*, J220S					
400S,W230					
W460S, J190S					
190S, J175S					
380					
N340*, N400*	Forward Input	GGAHH104	401 HH104	401 HH104	

Notes:

- See page 22 for Half Round End Yoke changes.

 Original Seals Black
 July, 1991 Seals Triple Lip Brown
 March, 1993 Seals Triple Lip Brown with Air Vents

 When changing from the original seal to the March, 1993 seal, the end yoke or flinger must be changed to insure a proper seal.

 New yoke will work with either new or old seal. New seal is recommended.

 Old yoke can only be used with old seal.

HALF ROUND REAR AXLE END YOKE **CHANGES & SUPERSESSIONS**

		Spicer Pa	Spicer Part Numbers		
Spicer Model	Series	Old Yoke Assembly	New Yoke Assembly		
F155S	1480	3-4-10431-1X	3-4-12101-1X		
	1550	4-45671-1X	4-4-6961-1X		
	1590	4.9-4-231-1X	90-4-551-1X		
	1610	5.4-7291-1X	5-4-8571-1X		
J190S	1610	5-4-7221-1X	5-4-8611-1X		
J210S	1710	6-4-7221-1X	6-4-8681-1X		
J220S	1760	6.3-4-1231-1X	6.3-4-1521-1X		
J400S, W460S (RR Input)	1610	5-4-7181-1X	5-4-8691-1X		
	1710	6-4-7171-1X	6-4-8761-1X		
N175*	1480	3-4-10201-1X	3-4-12141 -1 X		
N190*	1550	4-4-5521 <i>-</i> 1X	4-4-7001-1X		
N210*	1590	4.9-4-251-1X	90-4-591-1X		
N340*, N400 (FR Input)*	1610	5-4-7221-1X	5-4-8611-1X		
	1710	6-4-7221-1X	6-4-8681-1X		
	1760	6.3-4-1231-1X	6.3-4-1521 <i>-</i> 1X		
	1810	6.5-4-3981 <i>-</i> 1X	6.5-4-4461-1X		
N340*, N400 (FR Output*)	1610	5-4-6261	5-4-6261-1		
	1710	6-4-6331	6-4-6331-1		
	1710	6-4-6321	N/A		
N340 (RR Input)*	1610	5-4-7181-1 X	5-4-8691-1X		
	1710	6-4-7171 <i>-</i> 1X	6-4-8761-1X		
N400 (RR Input)*	1610	5-4-7221-1X	5-4-8611-1 X		
경하실 (1. 16 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	1710	6-4-7221-1X	6-4-8681-1X		
S135S*, S150S*	1480	and the state of the	3-4-12101 -1 X		
	1550		4-4-6961-1X		
	1590		90-4-551-1X		
	1610		5-4-8571-1X		
S230S*	1710		6-4-8801-1X		
W230	1550	4-4-5541-1X	4-4-7111 <i>-</i> 1X		
	1590	4.9-4-271-1X	90-4-611-1X		
	1610	5-4-7201-1X	5-4-8631-1X		
	1710	6-4-7191-1X	6-4-8701-1X		
	1760	6.3-4-1021-1X	6.3-4-1541 <i>-</i> 1X		
	1810	6.5-4-3651-1X	6.5-4-4421-1X		
W460S, J380S, J400S (FR Input)	1610	5-4-7211-1X	5+4-8651-1X		
	1710	6-4-7211-1X	6-4-8721-1X		
	1760	6.3-4-851-1X	6.3-4-1561-1X		
	1810	6.5-4-3641-1X	6.5-4-4441-1X		
W460S, J380S, J400S (FR Output)	1610	5-4-7251-1X	5-4-8661-1		
	1710	6-4-7231 - 1X	6-4-8731-1		
W460S (RR Input)	1710	6-4-7241-1X	6-4-8781-1X		

Note: Refer to the Rear Axle Seal Change index on page 21 for additional information
All Spicer Gold "S" Series products are available only through O.E. channels of distribution.
All Spicer "N" Series products are available only through Navistar.

* Not available to independent aftermarket

NEW EXCHANGE CARRIER ASSEMBLIES

Lill .	J

Spicer Model	Spicer Part Number	Axle Spline	Ratio
D135S	579422C91	36	5.38
	572199C91	36	6.17
Communication of the Communica	572200C91	36	6.67
	572201 C91	36	7.17
F155S	029CA104-5X	36	4.33
	029CA104-7X	36	4.56
	029CA104-1X	36	4.78
경기를 통해 함께 들어지는 이 사람이 되었다. 그리고 있는 것이 되었다. 경기를 통해 함께 되었다.	029CA104-2X	36	5.57
	029CA104-3X	36	6.50
	029CA104-4X	36	7.17
F170S	029CA104-5X	36	4.33
	029CA104-7X	36	4.56
	029CA104-1X	36	4.78
	029CA104-2X	36	5,57
	029CA104-3X	36	6.50
	029CA104-4X	36	7.17
G175S	GGACA132-1 X	36	4.56
	GGACA132-2X	36	4.89
	GGACA132-3X	36	5.57
에 있는 경험에 가장하는 것이 없는 것이 되었다. 지원 사용 사용 사용 기업 등 기업 등 기업	GGACA132-4X	36	6.17
	GGACA132-5X	36	6.50
	GGACA132-6X	36	7.17
G175T	GGACA128-31 X	36	4.56/6.34
	GGACA128-23X	36	4.89/6.79
	GGACA128-17X	36	5.57/7.15
	GGACA128-18X	36	6.17/8.58
	GGACA128-19X	36	6.50/9.04
	GGACA128-20X	36	7.17/9.97
G175T	GGACA128-31 X	36	4.56/6.34
	GGACA128-23X	36	4.89/6.79
	GGACA128-17X	36	5.57/7.15
	GGACA128-18X	36	6.17/8.58
kan kan di katan 1900 di dan di kanan d Kanan di Kanan di Ka	GGACA128-19X	36	6.50/9.04
<mark>igeneratyry my</mark> general of the content of the little of the content of the conte	GGACA128-20X	36	7.17/9.97

Spicer Model	Spicer Part Number	Axle Spline	Ratio
G190S	GGACA134-1X	39	4.56
	GGACA134-2X	39	4.89
et man et de et de 1997 de 1996 de 1996 de 1996 de 1997 de man de 1997 de 1996 de 1996 de 1997 de 1997 de 1996	GGACA134-3X	39	5.57
	GGACA134-4X	39	6.17
	GGACA134-5X	39	6.50
	GGACA134-6X	39	7.17
G340S	572236C91	39	3.73
	572237C91	39	3.91
andradia (dan 1964) - Tamasan Tandara, in tan 1964 biran ang manadan an tan in tangga tangga da Panlandi In	572238C91	39	4.10
	572239C91	39	4.44
Providencial Colored Control of 1975 (Co. Structure) at Arabacher 1975 (Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	572234C91	39	4.78
	572241 C91	39	5.38
	572242C91	39	6.14
	572243C91	39	6.57
•	572244C91	39	7.17
	572245C91	39	8.17
G340S	572261C91	41	3.73
	572262C91	41	3.91
	572263C91	41	4.10
	572264C91	41	4.44
	572265C91	41	4.78
	572266C91	41	5.38
	572267C91	41	6.14
	572268C91	41	6.57 🔻
	572269C91	41	7.17
	572270C91	41	8.17
G340/G380 FR	572261C91	41	3.73
	572262C91	41	3.91
	572263C91	41	4.10
	572264C91	41	4.44
	572265C91	41	4.78
	572266C91	41	5.38
	572267C91	41	6.14
	572268C91	41	6.57
	572270C91	41	8.17



Spicer Model	Spicer Part Number	Axle Spline	Ratio
J175S	042CA105-1X	36	3.73
	042CA105-2X	36	4.10
	042CA105-3X	36	4.44
	042CA105-4X	36	4.78
ggyya y spinon wasang a samang a garaga a samang a garaga a samang a garaga a samang a garaga a samang a garag	042CA105-5X	36	5.38
	042CA105-6X	36	6.14
una de maria de la composición de la c	042CA105-7X	36	6.57
	042CA105-8X	36	7.17
	042CA105-9X	36	8.17
J190S	R44CA103-1X	39	3.54
	R44CA103-2X	39	3.73
	R44CA103-11 X	39	3.91
	R44CA103-3X	39	4.10
and a state of the	R44CA103-4X	39	4.44
	R44CA103-5X	39	4.78
alakan dalah d	R44CA103-12X	39	5.11
	R44CA103-6X	39	5.38
	R44CA103-7X	39	6.14
	R44CA103-8X	39	6.57
	R44CA103-9X	39	7.17
	R44CA103-10X	39	8.17
J190S	R44CA103-1X	39	3.54
	R44CA103-2X	39	3.73
	R44CA103-11 X	39	3.91
	R44CA103-3X	39	4.10
NATUR KUUT NAAT RAAM KUUT JUUR TUUL TUUL KU HAT HAT LUKE TA TATUU KU TA TATUU KA TATUUR TA TATUUR TATUUR TATUUR TA TATUUR	R44CA103-4X		4.44
	R44CA103-5X	39	4.78
entande a turbo e de protes referenciados especies e de el contra en el como en el como en el contra en el com Contra en el como en e	R44CA103-12X	39	5.11
	R44CA103-6X	39	5.38
Address and the state of the st	R44CA103-7X	39	6.14
ROMANIAN IN THE TRANSPORT OF THE STATE OF THE	R44CA103-8X	39	6.57
	R44CA103-9X	39	7.17
	R44CA103-10X	39	8.17
J190S, J210S	R44CA103-1X	39	3.54
	R44CA103-1X	39	3.73
Marin 1995 (K.) a Basa (T.) a Diano et al al antido est de la Colonia de la colonia de la colonia de la colonia Colonia de la colonia de l	R44CA103-11X	39	3.91
	R44CA103-3X	39	4.10
minuterina (1914) — Alberia Colores (1914) — Alberia Colores (1914) — Alberia Colores (1914) — Alberia Colores	R44CA103-4X	39	4.44

Spicer Model	Spicer Part Number	Axle Spline	Ratio
J190S, J210S	R44CA103-5X	39	4.78
	R44CA103-9X	39	5.11
in the second of the control of the	R44CA103-6X	39	5.38
	R44CA103-7X	39	6.14
	R44CA103-8X	39	6.57
	R44CA103-10X	39	7.17
	R44CA103-12X	39	8.17
J190S Pinion UP	R44CA105-9X	39	3.54
	R44CA105-1X	39	3.73
e om tallen med med en	R44CA105-7X	39	3.91
	R44CA105-4X	39	4.10
dam diada da	R44CA105-2X	39	4.44
	R44CA105-3X	39	4.78
	R44CA105-10X	39	5.11
	R44CA105-5X	39	5.38
	R44CA105-8X	39	5.63
	R44CA105-11 X	39	6.14
	R44CA105-12X	39	6.57
	R44CA105-6X	39	7.17
J190S	R44CA103-1 X	39	3.54
	R44CA103-2X	39	3.73
	R44CA103-11 X	39	3.91
	R44CA103-3X	39	4.10
	R44CA103-4X	39	4.44
	R44CA103-5X	39	4.78
enga anggana ay angganap ay saga ang saga ang saga ang sa an may sa	R44CA103-12X	39	5.11
	R44CA103-6X	39	5.38
gog og og gange skall og skale kole i klandskommen en og skalendere en en menne	R44CA103-7X	39	6.14
	R44CA103-8X	39	6.57
والمستعدد المعاون والعراض والمناز والمراز والمراز والمراز والمراز والمستعدد والمستعدد والمستعدد	R44CA103-9X	39	, 7.17
	R44CA103-10X	39	8.17
J220S	047CA107-1 X	41	3.54
	047CA107-2X	41	3.73
	047CA107-3X	41	3.91
	047CA107-4X	41	4,10
	· 047CA107-5X	41	4.44
	047CA107-6X	41	4.78
an in 1912 (1914), but and an external control of the community of the control of	047CA107-7X	41	5.38

Spicer Model	Spicer Part Number	Axle Spline	Ratio
J220S	047CA107-8X	41	6.14
	047CA107-9X	41	6.57
	047CA107-10X	41	7.17
J220S	047CA107-1X	41	3.54
	047CA107-2X	41	3.73
	047CA107-3X	41	3.91
	047CA107-4X	41	4.10
	047CA107-5X	41	4.44
	047CA107-6X	41	4.78
	047CA107-7X	41	5.38
	047CA107-8X	41	6.14
	047CA107-9X	41	6.57
	047CA107-10X	41	7.17
	047CA107-11X	41	8.17
J220S	047CA107-1X	41	3.54
	047CA107-2X	41	3.73
Barranto (Maria and dia Abado) and Michigan and an almost the administration of the extension of the extensi	047CA107-3X	41	3.91
	047CA107-4X	41	4.10
	047CA107-5X	41	4.44
	047CA107-6X	41	4.78
	047CA107-7X	41	5.38
	047CA107-8X	41	6.14
	047CA107-9X	41	6.57
	047CA107-10X	41	7.17
	047CA107-11X	41	8.17
J340S/J380S FR	476CA110-1 X	39	3.06
	476CA110-2X	39	3.21
	476CA110-3X	39	3.42
	476CA110-4X	39	3.54
	476CA110-5X	39	3.73
	476CA110-6X	39	3:91
e de la composition	476CA110-7X	39	4.10
	476CA110-8X	39	4,44
and the second	476CA110-9X	39	4.78
	476CA110-10X	39	5:11
and the second	476CA110-11 X	39	5.38
	476CA110-12X	39	6.14

Spicer Model	Spicer Part Number	Axle Spline	Ratio
J380S	476CA110-1X	39	3.54
	476CA110-2X	39	3.73
territoria. A fair of the control of	476CA110-3X	39	3.91
	476CA110-4X	39	4.10
	476CA110-5X	39	4.44
꽃게병물길 기계를 받았다고 그리네요. 그는	476CA110-6X	39	4.78
	476CA110-7X	39	5.38
[12] [14] [14] [14] [14] [14] [14] [15] [15] [15]	476CA110-8X	39	6.14
	476CA110-9X	39	6.57
	476CA110-10X	39	7:17
J400S FR	472CA115-1X	41	3.54
	472CA115-2X	.41	3,73
	472CA115-3X	41	3.91
	472CA115-4X	41	4.10
	472CA115-5X	41	4.44
	472CA115-6X	41	4.78
	472CA115-7X	41	5.38
	472CA115-8X	41	6.14
	472CA115-9X	41	6.57
	472CA115-10X	41	7.17
	472CA115-11 X	41	8.17
J400S	047CA107-1 X	41	3.54
개념된 보고하다는 모모하는데 보다	047CA107-2X	41	3,73
	047CA107-3X	41	3.91
	047CA107-4X	41	4.10
	047CA107-5X	41	4.44
	047CA107-6X	41	4.78
	047CA107-7X	41	5.38
설류를 남자 일하다 말하는 것으로 살아보다 하다.	047CA107-8X	41	6.14
and a graph of the state of the	047CA107-9X	41	6.57
	047CA107-10X	41	Z.17
J400S	472CA115-1X	41	3.54
	472CA115-2X	41	3.73
and the second	472CA115-3X	41	3.91
	472CA115-4X	41	4.10
	472CA115-5X	41	4.44
	472CA115-6X	41	4.78
	472CA115-7X	41	5.38



Spicer Model	Spicer Part Number	Axle Spline	Ratio
J400S	472CA115-8X	41	6.14
	472CA115-9X	41	6.57
	472CA115-10X	41	7.17
	472CA115-11 X	41	8.17
M190S	MJACA128-4X	39	4.56
Language and the state of the s	MJACA128-5X	39	4.89
	MJACA128-6X	39	5.29
	MJACA128-7X	39	5.57
	MJACA128-8X	39	6.14
	MJACA128-9X	39	6.50
	MJACA128-10X	39	7.17
М190Т	MJACA122-54X	39	3.70/5.05
	MJACA122-71 X	39	3.90/5.32
	MJACA122-53X	39	4.11/5.60
	MJACA122-37X	39	4.56/6.21
~	MJACA122-23X	39	4.89/6.66
	MJACA122-38X	39	5.29/7.21
	MJACA122-1X	39	5.57/7.60
	MJACA122-2X	39	6.14/8.38
	MJACA122-3X	39	6.50/8.87
	MJACA122-4X	39	7.17/9,77
M190T	MJACA122-54X	39	3.70/5.05
	MJACA122-71 X	39	3.90/5.32
	MJACA122-53X	39	4.11/5.60
	MJACA122-37X	39	4.56/6.21
	MJACA122-23X	39	4.89/6.66
	MJACA122-38X	39	5.29/7.21
	MJACA122-1X	39	5.57/7.60
	MJACA122-2X	39	6.14/8.38
	MJACA122-3X	39	6.50/8.87
	MJACA122-4X	39	7.17/9.77
M220S	MJACA129-1 X	41,	. 3.70
	MJACA129-2X	41	3.90
	MJACA129-3X	41	4.11
	MJACA129-4X	41	4.56
	MJACA129-5X	41	4.89
	MJACA129-6X	41	5.29

Spicer Model	Spicer Part Number	Axle Spline	Ratio
M220S	MJACA129-7X	41	5.57
	MJACA129-8X	41	6.14
	MJACA129-9X	41	6.50
	MJACA129-10X	41	7.17
M220T	MJACA124-7X	41	4.56/6.21
생활되다. 아이들은 보는 이 아름다다니다.	MJACA124-5X	41	4.89/6.66
	MJACA124-6X	41	5.29/7.21
	MJACA124-1X	41	5.57/7.60
radiological design of the contract of the form of design of the contract of the contract of the contract of t	MJACA124-2X	41	6.14/8.38
	MJACA124-3X	41	6.50/8.87
	MJACA124-4X	41	7.17/9.77
M230T	MJACA124-7X	41	4.56/6.21
	MJACA124-5X	41	4.89/6.66
	MJACA124-6X	41	5.29/7.21
	MJACA124-1X	41	5.57/7.60
	MJACA124-2X	41	6.14/8.38
	MJACA124-3X	41	6.50/8.87
	MJACA124-4X	41	7.17/9.77
N175*	175CA104-1X	36	3.06
	175CA104-2X	36	3.21
	175CA104-3X	36	3.42
	175CA104-4X	36	3.54
	175CA104-5X	36	3.73
	175CA104-6X	36	3.91
	175CA104-7X	36	4.10
	175CA104-8X	36	4,44
	175CA104-10X	36	4.78
	175CA104-15X	36	.5,11
	175CA104-13X	36	5.38
	175CA104-17X	36	5.63
	175CA104-14X	36	6.14
	175CA105-1X	36	6.50
	175CA105-2X	36	7.17
N190*	190CA104-1X	39	3.06
	190CA104-2X	39	3.21
	190CA104-3X	39	3.42
	190CA104-4X	39	3.54

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Spicer Model	Spicer Part Number	Axle Spline	Ratio
N190*	190CA104-5X	39	3.73
	190CA104-6X	39	3.91
odžinauski 1868. gradnim drave i Produčinim dravna se pod produktim se Produktim se Produktim se Produktim se Produktim se produktim se	190CA104-7X	39	4.10
	190CA104-8X	39	4.44
	190CA104-10X	39	4.78
	190CA104-15X	39	.5.11
	190CA104-13X	39	5.38
	190CA104-17X	39	5.63
SAMPLE SA	190CA104-14X	39	6.14
	190CA105-1 X	39	6.50
	190CA105-2X	39	7.17
N190*	190CA104-1X	39	3.06
	190CA104-2X	39	3.21
i kadi Alburi (seni di 1900). Libi disebubuhi na hidak bibari sa kata kata ing malak di disebita ing malak bi Tanggaran	190CA104-3X	39	3.42
	190CA104-4X	39	3,54
uudeksi ja kuudus (1900–1944 suuren kentanus (1960) talun kun (1900–1960) kun (1960–1960). Talun kun (1960–1960)	190CA104-5X	39	3.73
	190CA104-6X	39	3.91
	190CA104-7X	39	4.10
	190CA104-8X	39	4.44
	190CA104-10X	39	4.78
	190CA104-15X	39	5.11
	190CA104-13X	39	5.38
	190CA104-17X	39	5.63
	190CA104-14X	39	6.14
	190CA105-1X	39	6.50
	190CA105-2X	39	7.17
N340*	340CA154-1X	39	3.06
	340CA154-2X	39	3.21
kennita ini tabuk di kutok yang di selah nasah mili 1994 sebelah kilikan (1994 sebelah nasah melalah melalah m Territoria	340CA154-3X	39	3.42
첫째 사람들은 기계하는 시간 보다 전	340CA154-4X	39	3.54
and a factor of the control of the c	340CA154-5X	39	3.73
	340CA154-6X	39	3.91
	340CA154-7X	39	4.10
게 보통해 및 현실 경향이 되었다. 이번 경기로 가는 그게 되었다. 목표를 가장 화가 되었다면 하는 것이 되었다. 그는 그렇게 되었다.	340CA154-8X	39	4.44
	340CA154-10X	39	4.78
	340CA154-29X	39	5.11
	340CA154-13X	39	5.38
	340CA154-33X	39	5.63
	340CA154-14X	39	6.14

Spicer Model	Spicer Part Number	Axle Spline	Ratio
N400*	401 CA 151 - 1 X	40	3.06
	401 CA151 -2X	40	3.21
	401 CA 151 -3 X	40	3.42
	401 CA 151 -4X	40	3.54
	401 CA 151 - 5 X	40	3.73
	401 CA 151 - 6X	40	3.91
	401 CA 151 -7X	40	4.10
	401 CA 151 -8X	40	4.44
	401 CA 151 - 10 X	40	4.78
	401 CA 151 - 29 X	40	5.11
	401 CA 151 - 13 X	40	5.38
	401 CA151 - 33 X	40	5.63
	401 CA151 -14X	40	6.14
N400*	401 CA112-1 X	40	3.06
	401 CA112-2X	40	3.21
HERRICH LERDARIS (1997) DARINATO DE COMO DIVERSO DE PRESENTACIO.	401 CA112-3X	40	3.42
	401 CA112 - 4X	40	3.54
	401 CA112-5X	40	3.73
	401 CA112-6X	40	3.91
zali. Iza nikon Kita Kila kimas ir <u>ini</u> vinalni olumbinu, ustrinu rekita, kila kilike ili.	401 CA112-7X	40	4.10
	401 CA112-8X	40	4.44
izana z ala 1964 ing katawa katawa 1961 ing katawa 1964 ing katawa 1964 ing katawa 1964 ing katawa 1964 ing katawa Ing katawa 1964 ing katawa 1964	401 CA112-10X	40	4.78
	401 CA112-15X	40	5,11
	401 CA112-13 X	40	5.38
	401 CA112-14X	40	-6.14
\$135/150\$*	360CA100-15X	7/	2.01
3 133/ 13U3"	360CA100-13X	36 76	2.81 3.07
	i i laisafar a se tambak lalamatan diberika s	36	
	360CA100-2X	36 77	5.21
	360CA100-3X	36	3,38 . 3.54
	360CA100-4X	36 7	ni in altiti taka a taka matama a taka 2245.
	360CA100-5X	36	3.73
	360CA100-6X	36 76	3.91 4.10
	360CA100-7X	36 76	4.10
	360CA100-8X	36 ***	4.44
	360CA100-9X	36	4.78
	360CA100-17X	36 	5.13
	360CA100-10X	36	5,38
	360CA100-11 X	36	6.14

Spicer Model	Spicer Part Number	Axle Spline	Ratio
\$230S*	300CA100-1X	46	3.07
	300CA100-2X	46	3.21
	300CA100-7X	46	3.54
	300CA100-3X	46	3.73
	300CA100-8X	46	3.91
	300CA100-9X	46	4.10
	300CA100-5X	46	4.44
	300CA100-6X	46	4.78
S400*	390CA100-1 X	41	2.81
	390CA100-2X	41	2.92
	390CA100-3X	41	3.07
	390CA100-4X	41	3.21
	390CA100-5X	41	3.42
	390CA100-6X	41	3.73
	390CA100-7X	41	3.91
	390CA100-8X	41	4.10
	390CA100-9X	41	4.44
	390CA100-10X	41	4.78
\$400*	390CA101-1X	41	2.81
	390CA101-2X	41	2.92
	390CA101-3X	41	3.07
	390CA101-4X	41	3.21
	390CA101-5X	41	3.42
	390CA101-6X	41	3.73
region was a constant of the c	390CA101-7X	41	3.91
	390CA101-8X	41	4.10
	390CA101-9X	41	4.44
	390CA101 -10X	41	4.78
w230S	057CA108-1X	46	3.54
	057CA108-2X	46	3.73
ng agaggar and a silver and a s	057CA108-3X	46	3.91
	057CA108-4X	46	4.10
	057CA108-5X	46	4.44
	057CA108-6X	46	4.78
	057CA108-7X	46	5.38
	057CA108-8X	46	6.14
	057CA108-9X	46	6.57
	057CA108-10X	46	7.17

NEW EXCHANGE CARRIER ASS Spicer Model	Spicer Part Number	Axle Spline	Ratio
W230	057CA108-1X	46	3.54
	057CA108-2X	46	3.73
Frenches Comment of the Comment of t	057CA108-3X	46	3.91
	057CA108-4X	46	4.10
facing Paraletticated include a decision of the action of the control of the cont	057CA108-5X	46	4.44
	057CA108-6X	46	4.78
i i provincio del la companio	057CA108-7X	46	5.38
	057CA108-8X	46	6.14
Andrika kan dan dipangan kan di dan beralah di melali Pengangan	057CA108-9X	46	6.57
	057CA108-10X	46	7.17
pulsarian de de la companya del companya del companya de la compan	Cor Carlot Tox 1	<u> </u>	
W230S	057CA108-1X	46	3.54
	057CA108-2X	46	3.73
i vari adalahkandan antaka melaka meliki antak isan eri si interiori dalah persik isah persikan dara	057CA108-3X	46	3.9 1
	057CA108-4X	46	4.10
	057CA108-5X	46	4.44
	057CA108-6X	46	4.78
	057CA108-7X	46	5.38
	057CA108-8X	46	6.14
The Park Contractor of the Contractor Contractor of the Contractor	057CA108-9X	46	6.57
	057CA108-10X	46	7.17
W460S FR	474CA113-1 X	46	3.54
	474CA113-2X	46	3.73
	474CA113-3X	46	3.91
	474CA113-4X	46	4.10
	474CA113-5X	46	4.44
	474CA113-6X	46	4.78
	474CA113-7X	46	5.38
	474CA113-8X	46	6.14
	474CA113-9X	46	6.57
	474CA113-10X	46	7.17
W460S	474CA113-1X	46	3.54
	474CA113-2X	46	3.73
n in karringregge om krijer van de holder om die de de	474CA113-3X	46	3.91
	474CA113-4X	46	4.10
anny jura magamaga ny mpinama ao	474CA113-5X	46	4.44
	474CA113-6X	46	4.78
	474CA113-7X	46	5.38
	474CA113-8X	46	6.14
	474CA113-9X	46	6.57
	474CA113-10X	46	7.17