

SPICER®



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Guide

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Spicer® Commercial Vehicle **Ratio Flexibility** Program Guide

Don't let the wrong ratio stall your stock truck sale. The Spicer Ratio Flexibility program helps you close sales of stock vehicles that might otherwise be at risk because the axle ratios in those vehicles do not meet the customer's requirements. You'll save the time and expense associated with disassembly by substituting complete head assemblies.



Product Information: SpicerParts.com | E-Catalog and parts locator: DanaAftermarket.com

OPEN YOUR BROWSER. CLOSE THE SALE.

Spicer® Ratio Flexibility Program

DON'T LET THE WRONG RATIO STALL YOUR STOCK TRUCK SALE.

The Spicer Ratio Flexibility program helps you close sales of stock vehicles that might otherwise be at risk because the axle ratios in those vehicles do not meet the customer's requirements. You'll save the time and expense associated with disassembly by substituting complete head assemblies. Plus, you can satisfy customer ratio requirements without jeopardizing warranty coverage due to internal gearing replacement.

Stock vehicles that have never been licensed and are equipped with Spicer axles as original equipment are eligible.

Visit SpicerParts.com/ratioflex today!



SpicerParts.com or for our e-catalog, DanaAftermarket.com
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Genuine Spicer® Ratio Flexibility Program Guide

GENERAL POLICIES & PROCEDURES

Genuine Spicer® Ratio Flexibility Program Introduction	2
Processing Genuine Spicer® Ratio Flexibility Program Requests	4
Ratio Flexibility Program Guidelines and Instructions	5
Carrier Weights Chart	6
Identification of Axle Models.....	7

ELIGIBLE CARRIER LISTINGS - SINGLE DRIVE AXLES

- S110, S110 ABS, S110L, S110L ABS
- S110FR, S110FLR, S111 ABS, S111L ABS
- S130, S130L, S130L ABS
- S130FR, S130FLR
- S140
- 19060S, 19060S PB
- 19060S BC, 19060 BC PB, 19060D
- 19060 PB
- 19060S NS, 19060S NS/BC, 19060S NS/PB
- 21060S BC, 21060S PB, 21060S NS, 21060D PB
- P20060R, P20060DR
- 23060SH BC, 19055T, 19055T PB, 19055T NS, 19055T NS PB, 21065T
- 23082T, 23082T NS
- S170, S170 BC, S170R, S170D
- S170DR, S170NS, S190
- S172/D
- S190R, S190D
- S190DR, S190NS

ELIGIBLE CARRIER LISTINGS - TANDEM DRIVE AXLES

- DS344, RS344
- DS404
- DS404P, RS404
- RST40, RST40 NS
- DD404, DD404P
- RD404, DSP40
- DSP40P
- RSP40
- DDP40
- DDP40P
- RDP40, DSH40
- DSH40P, RSH40, DDH40
- DDH40P, RDH40, RSH44 NS
- D155, R155
- D156, R156
- D170, D170P
- R170, R170NS
- D170D, D170DP
- R170D, D190P
- D172, R172
- R190, D190DP
- R190D



Processing Genuine Spicer® Ratio Flexibility Program Requests

Visit SpicerParts.com/RatioFlex, complete and submit the Ratio Flex application/order form. Refer to the chart below to see the qualifying models and upgrade options.

Model Ratio		Upgrade Options		
Single Models	Ratios	Limited-Slip	No- Spin	Diff. Lock
S110, S111	4.30 - 5.57	yes	n/a	n/a
S130	4.30 - 5.57	yes	n/a	n/a
S140	4.30 - 5.57	yes	n/a	n/a
17060S/D	3.70 - 6.17	n/a	yes	n/a
19060S/D	3.70 - 6.17	n/a	yes	n/a
21060S/D	3.70 - 6.17	n/a	yes	n/a
22060S/D	3.70 - 6.17	n/a	yes	n/a
P20060S/D	3.70 - 6.17	n/a	yes	n/a
P21060S/D	3.70 - 6.17	n/a	yes	n/a
P22060S/D	3.70 - 6.17	n/a	yes	n/a
23060S/H	3.70 - 6.17	n/a	yes	n/a
S170S/D	3.07 - 5.57	n/a	yes	yes
S172/D	3.07 - 5.57	n/a	n/a	yes
S190S/D	3.42 - 5.57	n/a	yes	yes
19055T	3.70 - 5.57	n/a	yes	n/a
21065T	3.70 - 5.57	n/a	yes	n/a
23082T	3.70 - 5.57	n/a	yes	n/a
S140	4.30 - 5.57	n/a	n/a	n/a

Model Ratio		Upgrade Options		
Tandem Models	Ratios	Limited-Slip	No- Spin	Diff. Lock
D/R404/405	3.08 - 4.88	yes	yes	yes
DSP/RSP40/41	3.08 - 4.88	yes	yes	yes
DST/RST40/41	3.08 - 4.88	yes	yes	yes*
DSH/RSH40/41	3.08 - 4.88	yes	yes	yes
D/R155	2.26 - 2.79	n/a	n/a	yes
D/R156	2.79 - 3.91	n/a	n/a	yes
D/R170	3.07 - 5.57	n/a	n/a	yes
D/R172	3.07 - 5.57	n/a	n/a	yes
D/R190	3.42 - 5.57	Std	yes	yes

- *Differential lock upgrade may not be available on all models due to housing configuration. Please contact Dana Aftermarket Group for specific upgrade options by model
- Any ratio flex request for RATIOS that fall outside the approved ratios listed in the chart must be pre-approved and could be subject to additional fees as quoted out by Dana Aftermarket Group.

We appreciate your business! For more information about the Spicer Ratio Flexibility Program, visit SpicerParts.com/RatioFlex or contact your Spicer Sales Representative.

Ratio Flexibility Program Guidelines and Instructions

1. OE Dealers go to the Spicer website listed below to submit a request.

SpicerParts.com/RatioFlex

2. Select Ratio Flex "Order Form" button and the On Line Request Form will populate with the required fields to be filled in. A valid e-mail address is required as this is the preferred means for communication of the request. Enter the required information and click the Submit button to send Dana your request. **See Note 1 below.**
3. Dana Aftermarket Group will receive your request and process it immediately. Processing request time can vary depending on volumes and the complexity of each individual request. Dana is committed to having request quotes for ratio flex orders back within 24 hours after a request is made.
4. OE Dealers will be sent an electronic quote response back for each request. The Ratio Flex quote form will include all applicable administration fees and the carrier cost for that Ratio Flex request. Each approved request will also include a return goods authorization (RGA) form. A unique RGA number is assigned with further instructions for the dealer. The dealer is required to pay for the administration fees as quoted.
5. The Dealer should contact Dana Aftermarket Group customer service at 1-877-777-5360 (option 2) to place their order.
They must have the following information on-hand to process their ratio flex request.
 - The unique RGA number from Ratio Flex quote
 - A Valid Credit Card or Purchase Order
 - Carrier Shipping Instructions or name of Freight Carriers

IMPORTANT

- Please have the RGA number available when contacting Dana regarding your Ratio Flex request or for any other related questions. Not having this number will only delay the response time.
6. A Dana customer service rep will process and complete the Ratio Flex order and will give the calling OE Dealer a confirmation number.
 7. The order for carriers will be placed immediately by Dana. **Shipments of carriers are sent FREIGHT COLLECT.** Shipping times for replacement carriers can vary depending on number of carriers involved or model options selected.

NOTE

- Dana will process orders and request shipping of replacement product within 10 business days. While the intent is to ship product before the 10 days, it does not constitute a guarantee shipping date.
8. The Dealer will be sent a complete invoice for the admin fees and new carriers by Dana after they ship out. **Once the original carriers are returned back to Dana in like new condition, the invoice amount for the carriers will be credited back in full. See Note 2 below.**

9. Upon receiving the new carriers, **the Dealer must ship the original take out carriers back to Dana within 30 days as instructed on the original request quote.** The RGA form will contain detailed carrier return instructions and shipping return address.

10. Upon receipt and inspection of the original carriers by Dana, full credit will be issued for the invoice amount of the carriers less any repairs required to the original carrier(s).

NOTE

- If carriers are not returned back to Dana within the 30 days a \$100.00 penalty will be charged to the dealer's account. Payment is expected for the full invoiced amount of the carriers. The shipping return addresses are shown below.

ALL SHIPPING RETURNS FOR U.S.

Dana Holding Corporation
1491 Dana Dr
Henderson KY 42420
ATTN: RATIO FLEX
RGA#

ALL SHIPPING RETURNS FOR CANADA

Dana Aftermarket Group
C/O: Nimble Transport
75 Medulla Ave
Etobicoke, ON M8Z 5L6
ATTN: RATIO FLEX
RGA#

NOTE

- For Ratio Flex carrier returns in Canada, freight forwarders must contact Nimble Transport at (416) 233-1522 to schedule deliveries.

FOR QUESTIONS REGARDING DANA AXLES - CONTACT:

- Dana Aftermarket Group Holland, Ohio
(877) 777-5360 Fax (888) 886-6021

NOTE 1

- The dealer will receive a system generated e-mail confirmation for the data they entered pertaining to their request. If data is incorrect, contact DAG at 1-877-777-5360, option 1.

NOTE 2

- The dealer is only responsible to pay for all admin fees or late charges on invoices.

Table 1: Single Carrier Models

Axle Model	LBS.	KG
S110, S110FR	200	91
S110L, S110FLR	225	102
S111	200	91
S111L	225	102
S130, S130FR	190	86
S130L, S130FLR	200	91
17060S, 19060S	300	136
17060D, 19060D	300	136
19060S NS	300	136
21060S, 22060S	300	136
21060D, 22060D	300	136
P20060R, P21060R, P22060R	300	136
P20060DR, P21060DR, P22060DR	300	136
23060SH	300	136
19055T, 19055T PB	400	81
19055T NS	400	81
21065T	400	81
23082T	500	227
23082T NS	510	231
S170	460	209
S170D	475	215
S170NS	460	209
S190, S190R	475	215
S190D, S190DR	485	220
S190NS	475	215

NOTE

- Weights listed are nominal
- Typical skid weight is 35 lbs.
- Standard carriers carton and skid dimensions are: 22"x30"x40"w

Table 2: Tandem Carrier Models

Axle Model	LBS.	KG
DS344, DS404, DS405	450	204
DS404P, DS405P	475	215
DSP40, DSP41	450	204
DSP40P, DSP41P	475	215
DSH40, DSH44	450	204
DSH40P, DSH44P	475	215
DST40, DST41	450	204

DD404, DD405	475	215
DD404P, DD405P	500	227
DDP40, DDP41	475	215
DDP40P, DDP41P	500	227
DDH40, DDH44	475	215
DDH40P, DDH44P	500	227

D170, D170P	635	288
D170D, D170DP	645	293
D190P, D190DP	635	288
R170	460	209
R170D	475	215
R190	475	215
R190D	485	220

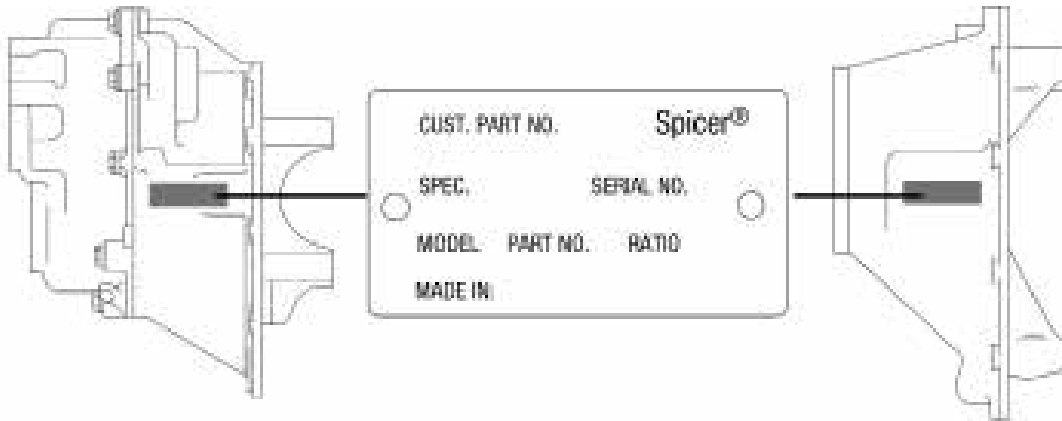
RS344, RS404, RS405	300	136
RSH40, RSH44	300	136
RSH40NS, RSH44NS	310	141
RSP40, RSP41	300	136
RST40, RST41	300	136
RST40NS	310	141

RD344, RD404, RD405	300	136
RDH40, RDH44	300	136
RDP40, RDP41	300	136

Identification of Axle Models

LOCATING MODEL DESIGNATION INFORMATION

- Axle Model Identification, Part Number and Serial Number are located on a tag at the axle centerline. This information will help you navigate this guide and identify the correct parts for servicing.



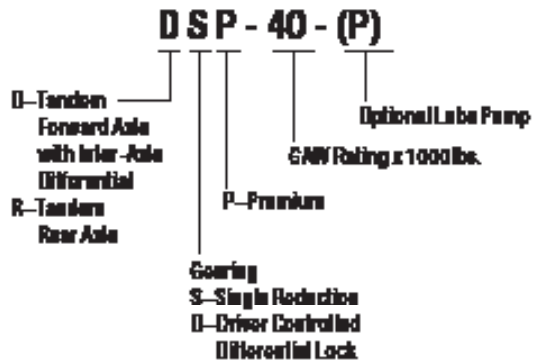
NOTE

- This is the serial number of the carrier assembly assigned by the manufacturing plant. This number will be ten (10) characters in length: Two (2) alpha characters for the plant code and eight (8) numbers.

PLANT CODE: HN - HENDERSON, KY
MY - MONTERREY, MX

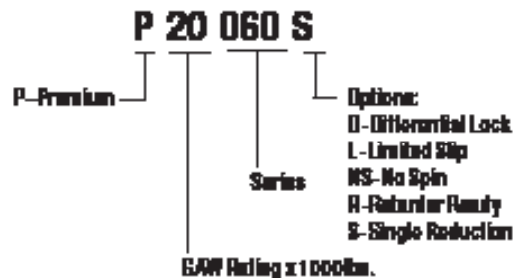
USING MODEL DESIGNATION TO IDENTIFY AXLE COMPONENTS

- The Axle Model Identification number contains information that is important when purchasing service parts or new components, including vehicle, capacity and application information and model features. Use this guideline to understand your Axle Model Identification. If you need assistance, contact your Dana representative.



FOR CARRIERS THAT HAVE A MISSING TAG, LOOK FOR ANY OF THE FOLLOWING:

- Casting Number
- Ring Gear Number
- Pinion Number
- Input Case Number
- Input Shaft Number
- Call our core management line at 800-621-8084 for identification assistance



Product Information: [SpicerParts.com](https://www.SpicerParts.com) | E-Catalog and parts locator: [DanaAftermarket.com](https://www.DanaAftermarket.com)

Dana Aftermarket Group

PO Box 1000 Maumee, Ohio 43537

Warehouse Distributors: 1.800.621.8084

OE Dealers: 1.877.777.5360

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