

Traction Control Differentials...

NoSPIN[®] / Detroit Locker[®]

automatic positive locking type - for light/heavy trucks, skidders & forwarders, loaders, scrapers, haulers, graders, 4WD tractors, military



Truetrac[®]

torque biasing gear type - for on/off highway front & rear axles (incl. c-clip type), transfer cases - 2.0/3.5 bias ratio range



Suretrac[®] / Detroit LSD[™]

torque biasing friction plate type - for medium trucks, farming & speciality vehicles - 2.0/4.0 bias ratio range



Tractech's engineering heritage dates back over half a century. Originally known as Detroit Automotive, we first produced the Thornton tandem drive axle conversion kit for WWII military vehicles. To increase tractive capability even further, Thornton invented and sold the NoSPIN automatic locking differential for drive axles. In 1979 our name was changed to Tractech. We continue to specialize and produce traction differentials for original equipment and aftermarket usage, manufactured in facilities of over 150,000 square feet in Warren, Michigan and Sligo, Ireland.

Tractech Inc. - Warren and Tractech (Ireland) Limited are certified ISO/ QS9000.

...by **Tractech
Inc.**

**NoSPIN® / Detroit Locker®, Truetrac® and Suretrac® / Detroit LSD™ traction control differentials
- see note (1) - for Single Rear, Tandem, Planetary and Front Drive Steer Axles**

Note: All ring gear / pinion ratios are accommodated, unless indicated otherwise. Differentials for axles not listed below may be available.

SINGLE REAR AXLES

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
DANA/SPICER		
70HD, 70-2U		
4.10 & dn. gear ratios	1.50" 35 (3)	225SL-58B
4.56 & up gear ratios	(3)	225SL-58A
80	1.62" 37	225SL-105A 916A427
	1.50" 35	225SL-131A 915A450
D135-S	1.55" 36	250S-99
F155-S	1.55" 36	250S-98
F170-S	1.55" 36	250S-98
G155-T	1.55" 36	275S-26
G175-S, T, D	1.55" 36	275S-26
G185-S, D, G190-S	2.00" 39	275S-32
J175-S	1.85" 36	306S-99
J190-S, J210-S, J380-S	2.00" 39	306S-98
J220-S	2.10" 41	306S-100
M185-S, M190-S, T, D	2.00" 39	306S-101
M210-T	2.00" 39	306S-101
M220-S, T, D, M230-T	2.10" 41	306S-117
N175-S	1.85" 36	306S-99
N190-S, N210-S	2.00" 39	306S-98
S135-S/150-S, 4.63-5.38 gear ratios	1.85" 36	250S-166 918A433
S150-NS/230-S/NS	2.35" 46	350S-106
W230-S	2.35" 46	350S-73
15131	1.75" 34	250S-100
16131	1.85" 36	250S-109
17060 S/A, 19060 S/A/T	2.00" 39	275S-63
17131/431	2.00" 39	306S-108
21060 S/A, 22060 S/A	2.10" 41	275S-66
21060T, 22060T	2.10" 41	306S-109
21080 S, 22080 S, 23080 S	2.31" 36	350S-86
21090 S/A, 23090 S/A	2.31" 36	306S-110
21131/431, 22131/431	2.10" 41	306S-109
23080T, 26080T	2.31" 36	350S-88
23105 S/A	2.31" 36	350S-50
23131/431	2.31" 36	306S-110
S-260-SB	2.31" 36	306S-110
26090 S/A	2.31" 36	306S-110
26105 S/A	2.31" 39	350S-40
26131/431	2.31" 36	306S-110
30105S	2.50" 39	350S-40
30131/431	2.31" 36	350S-88
EATON		
13101, 13107, 13802,	1.75" 34	250S-100
15040S/T/P, 15101, 15107, 15201,	1.87" 16	250S-37
15301	1.75" 19	250S-20
16120, 16121, 16221, 16244,	1.85" 36	250S-109
16344	1.88" 16 (a)	250S-44
	1.88" 16 (b)	250S-45
	(a) tapered spline (b) parallel spline	
16247	1.80" 30	250S-39
17060	2.00" 39	275S-63
17101, 17121, 17201, 17221,	2.00" 39	306S-108
17301, 17321, 17401*, 17421*	1.98" 16	306S-21
17201 (Mack)	2.12" 33	306S-56
18101, 18121, 18201, 18221,	2.10" 41	306S-109
18301	2.12" 16	306S-23
18127 (Mack)	2.12" 33	306S-53

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
EATON		
185 S4/P4, 190 S4/T4/P4	2.00" 39	306S-108
19050 S/T/P	1.85" 36	275S-51
19055 S/T/P	2.00" 39	306S-108
19060S	2.00" 39	275S-63
19101, 19121, 19201	2.31" 36	306S-110
	2.30" 22	306S-39
	2.25" 16	306S-27
21060 S/D/A	2.10" 41	275S-66
21065 S/D/T/P, 21121, 21221, 21321	2.10" 41	306S-109
21080 S	2.31" 36	350S-86
22060 S	2.10" 41	275S-66
22060 T	2.10" 41	306S-109
220 S4/P4, 22065 S/D/T/P,	2.10" 41	306S-109
22080 S	2.31" 36	350S-86
22121, 22221, 22321	2.12" 16	306S-23
23070 S/D	2.31" 36	350S-86
23070 T/P	2.12" 33	306S-56
23080 S	2.31" 36	350S-86
23080 T	2.31" 36	350S-88
23085 S/D	2.31" 36	350S-86
23070S, 23085 T/P	2.31" 36	350S-88
23105 S/D	2.50" 39	350S-40
(1996 & newer)	2.31" 36	350S-50
230 S4, 23121, 23421	2.31" 36	350S-47
	2.30" 22	350S-39
230 P4/T4, 23221, 23321	2.31" 36	306S-110
	2.30" 22	306S-39
E2300 S	2.50" 39	350S-40
25100	2.50" 39	350S-40
	2.31" 36	350S-47
	2.30" 22	350S-19
26080 T	2.31" 36	350S-88
260 S4, 26121	2.30" 36	350S-47
	2.30" 22	350S-39
260 P4, 26085, 26221, 26321	2.31" 36	306S-110
	2.30" 22	306S-39
26105 S/C	2.50" 39	350S-40
260 S4, 26121	2.31" 36	350S-47
	2.30" 22	350S-39
30055-P	2.31" 36	350S-88
30105 S/C, 30127	2.50" 39	350S-40
30227, 30327	2.50" 39	See Note (4)
35055-P	2.31" 36	350S-88
35327	2.50" 39	See Note (4)
*Requires case change: Use conventional differential case ass'y.		
GMC/CHEVROLET		
C100	Rockwell	1.62" 32
		1.62" 16
H110	12-1/4" dia. r.g.	1.75" 27
H135	13-7/32" dia. r.g.	1.87" 29
H150		1.87" 29
H170		1.87" 29
H175		2.00" 39
T150		1.87" 29
T170		1.87" 29
T175	Eaton 16244	1.85" 36
T185		1.87" 29
		225S-52
		225S-15
		250S-27
		250S-46
		250S-46
		250S-46
		306S-79
		275S-12
		275S-12
		250S-109
		275S-12

SINGLE REAR AXLES Cont'd.

Description	Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
INTERNATIONAL (IHC)			
14Axx			
CA CD DC DD DG		2.00" 39	306S-98
DH DK DW DY NA	I-N190		
CE CG DB DL DM	I-N175	1.85" 36	306S-99
DV DX GD			
CB CC DN DP	D-S100	1.85" 36	250S-166
CH DZ	D-W230	2.35" 46	350S-73
CJ EB EJ GH GL GS	D-23090	2.31" 36	350S-86
DA DE DJ	D-F155	1.85" 36	250S-98
DR	I-S230	2.35" 46	350S-106
DT	D-N220	2.10" 41	306S-100
DW DY	D-J210, I-N190	1.86" 36	306S-98
EE GB	E-22065	2.10" 41	306S-109
EG	E-26105	2.31" 36	306S-110
EH	E-19055	2.00" 39	306S-108
EP GK	E-30105	2.50" 39	350S-40
ET EY GG GP	D-21060	2.10" 41	275S-66
GA GE GM GN GT	D-19060	2.01" 39	275S-63
RA RG SR SU	R-RS21145	2.10" 41	275S-43
RH SZ TB	R-RS18145	2.00" 39	275S-44
RB RC RD RE RK RR	R-RS23160	2.35" 46	350S-81
RS RV SE SG SH SK			
SM SN SP SX SY			
14Cxx			
DA	D-G155	1.85" 36	250S-98
DB DC	D-M230	2.10" 41	306S-117
DD	D-G175	1.85" 36	275S-26
DE DG EH EJ EK EL ES ET EU	E-230082	2.10" 41	306S-109
EA	E-23070	2.31" 36	350S-86
EB	E-26085	2.31" 36	306S-110
EG EP	D-19055	2.00" 39	306S-108
EM EN ER	R-RS23240	2.10" 41	306S-124
VA	R-RS19224	1.85" 36	275S-37
VB	R-RS21230	2.00" 39	306S-127
14Exx			
EB	E-26085	2.31" 36	306S-110
RA RB	R-RS26/30380	2.35" 46	350S-93
RC	R-RS38380	2.55" 50	350S-79
140xx, 14xxx			
29 39	D-F155/170	1.85" 36	250S-98
30	D-D135	1.85" 36	250S-99
32	D-G190	2.00" 39	275S-32
33 132	D-M220/230	2.10" 41	306S-117
36 44	D-J210/190	2.00" 39	306S-98
42	D-J175	1.85" 36	306S-99
47	D-J220	2.05" 41	306S-100
51 52	R-RS23160	2.35" 46	350S-81
57	D-W230	2.35" 46	350S-73
72 73 92	R-RS170	2.35" 46	350S-57
77 91	E-23121/26121	2.31" 36	350S-47
87 186	E-17101/202	2.00" 39	306S-108
88 193 194 197 282 293	E-19/23/26 xxx	2.31" 36	306S-110
118 119 192 292	E-17/18/22 xxx	2.10" 41	306S-109
130	D-G175	1.85" 36	275S-26
131 133	D-M190/210	2.00" 39	306S-101
168 178 277	R-RS R/U xxx	2.38" 24	350S-13
187	E-15201	1.75" 34	250S-100
199	E-16244	1.85" 36	250S-109
298	E-35327	2.50" 39	306S-96

D=Dana/Spicer E=Eaton I=Int'l. R=Rockwell/Meritor

MERITOR

RS-13/15-120		1.75" 34	250S-134
	3.31-4.30 ratio	1.75" 34	717R120F
	4.56-7.17 ratio	1.75" 34	717R120S
		1.95" 38	250S-128
	3.31-4.30 ratio	1.95" 38	719R120F
	4.56-7.17 ratio	1.95" 38	719R120S
RS-15/17/19-220/224		1.85" 36	275S-37
RS-17/19-144		2.10" 41	275S-43
RS-17/19-145		2.00" 39	275S-44
RS-19-220/224		1.85" 36	275S-37

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
MERITOR-Cont'd.		
RS-21-145	2.10" 41	275S-43
RS-21/23-160/160A/161/186	2.35" 46	350S-81
RS-21-230	2.00" 39	306S-127
RS-23-240	2.10" 41	306S-124
RS-23/26/30-380	2.35" 46	350S-93
RS-25/26-160/160A/185	2.35" 46	350S-81
RS-38-380	2.55" 50	350S-79

ROCKWELL

C-100, 102, 200	1.62" 32	225S-52
	1.62" 16	225S-15
D-100, 140	1.75" 34	250S-97
	1.75" 19	250S-13
	1.75" 16	250S-32
F-106, 140, 146	1.75" 34	250S-97
	1.75" 19	250S-13
FM-240	2.13" 22	306S-12
H-140, 145, 340	1.88" 20	275S-11
H-140E	2.25" 44	306S-136
H-162	2.00" 21	306S-11
H-170, 171	1.85" 36	275S-10
H-172, 173	2.00" 39	306S-79
L-145, 155	2.00" 21	306S-11
L-164	1.88" 20	276S-11
L-172	2.00" 39	306S-79
L-245, 345	2.00" 21	306S-25
L-362	2.00" 21	306S-25
M-172	2.00" 39	306S-79
M/FM-240	2.12" 16	306S-36
M/MD-240	2.13" 22	306S-12
P-140E	2.25" 44	306S-136
P-174	2.10" 41	306S-15
Q-100	2.10" 41	306S-15
Q-145	2.13" 22	306S-31
Q-345	2.13" 22	306S-38
R-140	2.25" 23	350S-25
R-140E	2.25" 44	306S-136
R-140, 155*, 200, 221, 255*, 270, 300, 355	2.38" 24	350S-13
R-355/356	2.35" 46	350S-57
R-170	2.38" 16	350S-29
	2.38" 24	350S-13
RL-170	2.35" 46	350S-57
	2.38" 24	350S-13
RS-13-120, 15-120/125	1.75" 34	250S-134
	3.31-4.30 ratio	1.75" 34
	4.56-7.17 ratio	1.75" 34
	1.95" 38	250S-128
	3.31-4.30 ratio	1.95" 38
	4.56-7.17 ratio	1.95" 38
RS-15-210	1.75" 34	250S-139
RS-17-140	2.00" 39	275S-44
	1.85" 36	275S-46
RS-17-144, 145	2.00" 39	275S-44
RS-17-220	1.85" 36	275S-37
RS-18-140, 145	2.00" 39	275S-44
	1.85" 36	275S-46
RS-19-145	2.00" 39	275S-44
RS-19-220	1.85" 36	275S-37
RS-20-145	2.25" 44	306S-136
	2.10" 41	275S-43
RS-20-230	2.00" 39	306S-127
RS-21-145	2.10" 41	275S-43
RS-21-230	2.00" 39	306S-127
RS-23-160, 180	2.35" 46	350S-81
	2.55" 50	350S-76
RS-23-240	2.10" 41	306S-124
RS-23-380	2.35" 46	350S-93
RS-25/26-160, 180	2.35" 46	350S-81
RS-26-380	2.35" 46	350S-93
RS-30-180	2.35" 46	350S-81
RS-30-380	2.35" 46	350S-93

NOTES

(1) **2xx, 3xx, and 4xx Models = NoSPIN® / Detroit Locker® brand automatic locking differential.**

The new "IMPROVED Detroit Locker", indicated by an "SL" in the model number (225SL-58B), provides smooth and quieter operation in the drive-coast mode. A dampening device has been inserted into the inboard end of each side gear.

A "letter" after the model indicates that a 2-piece support case assembly is supplied by Tractech with the differential. All other models (no letter) fit the 2-piece differential case supplied by the axle/vehicle maker. To install a NoSPIN differential model supplied without its own case in an axle which was originally supplied with Powr-Lok, Trac-Lok, Traction Equalizer or other locking or limited-slip differential, it will also be necessary to use the axle maker's conventional differential support case.

9xx Models = Truetrac® brand helical gear type limited slip differential in a support case that replaces the axle maker's support case.

7xx Models = Suretrac® / Detroit LSD™ friction plate type limited slip differential in a support case that replaces the axle maker's support case.

Bolts, bearings, shims and gaskets are not supplied by Tractech Inc.

- (2) The axle shaft diameter is the "major diameter" measured over the splines at the outer end of the shaft.
- (3) Use 225S-18 assembly if two-piece case, use 225S-58A, B, C, D assembly if a one-piece case.
- (4) Model 350S-85 required for conventional differential case, while Model 350S-67 required with special 113304 and 113305 differential case.
- (5) If replacing conventional differential, modification of differential case is required. Call Tractech.
- (6) Requires Eaton 113304 and 113305 differential case.
- (7) A conventional 1640 differential case assembly, Clark part number 126952, must be used with 306S-46 differential assembly, as it cannot be retrofitted into the case assembly with needle bearings.

Several medium and heavy-duty axles were supplied with two or three axle shafts from time to time. This accounts for the listing of various NoSPIN differential models, with the latest listed first.

Modification of our differentials of any kind may void your Limited Warranty. Please refer to Tractech Limited Warranty on the back of Owner's Manuals for complete guidelines.

While this model list is believed to be accurate, we cannot guarantee there are no errors or omissions of the data. Customer is responsible to identify the correct Tractech differential for his particular application.

NoSPIN, Detroit Locker, Truetrac and Suretrac are registered trademarks and Detroit LSD is a trademark of Tractech Inc. Powr-Lok and Trac-Lok are trademarks of Dana Corporation. Traction Equalizer is a trademark of Meritor Automotive, Inc.

PLANETARY AXLES- Con't.

Axle Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
ROCKWELL - Con't.			
258#, 305#, 312#, 1927#, 3796, 4264, 4565, 4807, 4874	R-170	2.38" 24	350S-15
4824, 5814, 5095	R-170/180	2.45" 48	350S-75
677	R-355	2.38" 24	350S-15
205#, 265, 415, 454, 594#, 671#	RS-120/125	1.75" 34	250S-134
755, 775	RS-125	1.95" 38	250S-128
416, 673#, 756#, 1314	RS-140/145	2.00" 39	275S-44
673#, 727, 826, 866, 867, 1044, 1105, 1614, 1735#, 1756, 1794	RS-145, RT-146	2.10" 41	275S-43
756#	RS-145	1.85" 36	275S-46
1876, 1927#	RS-160	2.35" 46	350S-81
5225, 7534, 10253	RS-180/185/186	2.55" 50	350S-76
674	RS-220	1.85" 36	275S-37

Axle Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
ROCKWELL - Con't.			
230	RS-230	2.00" 39	306S-127
4808#	RN-380	2.38" 24	350S-15
	RP/RT-380	2.55" 50	350S-79
	RR-380	2.35" 46	350S-93
258#, 305#, 311#, 1927#, 4806	SR-170, SPR-570	2.38" 24	350S-15
1356, 1357, 1616, 1735#, 1736	SQHP, SQ-100	2.10" 41	306S-15
1926, 4026	SSHD	2.38" 24	350S-13
	SSHP		
5324	WR-170	2.55" 50	350S-79

*May have either H-140 or H-172 carrier; check carrier to determine correct NoSPIN differential.

#Produced with different axle shafts: count splines to determine correct NoSPIN differential.

FRONT DRIVE STEER AXLES*

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
EATON		
ESD-16	2.10" 41	306S-109
	2.12" 16	306S-23
ESD-18	2.10" 41	306S-109
	2.12" 16	306S-23
FABCO		
SDA 9/12 Dana-IHC RA-30	1.88" 36	250S-99
	1.75" 16	250S-38
SDA 16 Eaton 16123, 16344	1.85" 36	250S-109
	1.87" 16	250S-45
SDA 18/20, 22 Eaton 18103, 18123, 18303, 18323, RP 381, RS 380	2.10" 41	306S-109
	2.12" 16	306S-23
SDA 21 Eaton 22120, 22320	2.10" 41	306S-109
	2.12" 16	306S-23
SDA 23 Eaton 23321, 26320, DP, RS, RP 440, 480	2.31" 36	306S-110
	2.30" 22	306S-39
SDA 23 H.D. Eaton RP, TP, 650	2.50" 39 (4)	350S-85
	2.50" 39 (4)	350S-67
SDA 23 H.D. Eaton 23121, 26120	2.31" 36	350S-47
	2.30" 22	350S-39
INTERNATIONAL (IHC)		
02064 Dana	1.85" 36	250S-98
	1.75" 16	250S-38
02078 Dana	1.75" 16	250S-38
02083 Fabco SDA 12	1.85" 36	250S-99
02191 Rockwell FDS-1600	1.88" 20	275S-11
02194 Rockwell FDS-1807	2.38" 24	350S-13
02195 Rockwell FDS-1805	2.38" 24	350S-13
02196 Rockwell FDS-1808	2.38" 24	350S-13

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
MERITOR		
RF-7/9/12-120	1.75" 34	250S-134
RF-16-145	2.10" 41	275S-43
RF-21-160	2.35" 46	350S-81
RF-21-355	2.38" 24	350S-13
RF-22-166, 23-180	2.35" 46	350S-81
ROCKWELL		
F-233, 235	2.00" 16	306S-33
FC-240	1.62" 16	225S-15
FDS-75, 78, 90	1.75" 34	250S-97
	1.75" 19	250S-13
FM/M-1240, 240	2.12" 16	306S-36
FDS-85	1.88" 20	275S-11
FDS-90	1.75" 34	250S-97
	1.75" 19	250S-13
FDS-1400, 1600	1.88" 20	275S-11
FDS-1805, 1807, 1808	2.38" 24	350S-13
FDS-2100	2.35" 46	350S-57
	2.38" 24	350S-13
R-125, 128	2.10" 41	306S-15
R-143	2.38" 24	350S-13
R-164	2.25" 23	350S-25
RF-7-106, 120	1.75" 34	250S-134
RF-9-106, 120	1.75" 34	250S-134
RF-12-120, 125	1.75" 34	250S-134
RF-16-145	2.10" 41	275S-43
RF-21-155/156	2.38" 24	350S-13
RF-21-160, 22-166	2.35" 46	350S-81
RF-21-355	2.38" 24	350S-13
RF-23-180	2.35" 46	350S-81

*Note: NoSPIN differentials are not recommended for use in front drive steer axles of on-highway trucks. Contact Tractech Engineering before proceeding with any such installation.

SINGLE REAR AXLES Cont'd.

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
ROCKWELL-Cont'd.		
RS-38-380	2.55" 50	350S-79
RS-410#	1.45" 29	225S-39A
RS-411#	1.45" 29	225S-39B
S-162, 163	2.25" 23	350S-25
S-164, 165	2.38" 24	350S-13
S-170	2.35" 46	350S-57
	2.38" 24	350S-13
SL-100	2.00" 39	306S-79
SR-170	2.38" 24	350S-13

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
ROCKWELL-Cont'd.		
SW-170/180, 270/280	2.55" 50	350S-79
U-170, 180, 240, 340	2.38" 24	350S-13
U-270, 340	2.35" 46	350S-57
W/WP/WR-170,	2.55" 50	350S-79
W-180, 270, 280	2.55" 50	350S-63
W-464	2.55" 50 (5)	350S-56
59732, 59733 (WT)	2.38" 16	350S-29
59742, 59743 (WT)	2.38" 24	350S-13
61142, 61143 (WT)	2.35" 46	350S-81

*Di Rona Mexico #Brazil

TANDEM AXLES

Description of Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
DANA/SPICER		
S135, S150	4.63-5.38 gear ratios 1.85" 36	250S-166
	1.85" 36	918A433
S230	2.35" 46	350S-106
G340-S, J340-S, N340-S	2.00" 39	306S-98
G380-S, J380-S,	2.10" 41	306S-100
G400-S, J400-S, N-400-S,		
S400-S		
W440/460-S, (M460-S),	2.35" 46	350S-73
W230-S/TR-4670		
DS/A 344	2.00" 39	275S-63
DS 400, DT 401, 451	2.13" 33	306S-56
D/T 403, DS/A 404, 405, DSS 40	2.10" 41	275S-66
DP/T 402, 4026, 451	2.10" 41	306S-109
DS/A 454	2.10" 41	275S-66
DT460	2.31" 36	306S-110
	2.30" 22	306S-39
DS 461 462, 463, 521, 581	2.31" 36	350S-47
DP/T 461, 463, 521, 580, 601, 650, 651	2.31" 36	350S-88

EATON

34 RT	2.00" 39	306S-108
	2.00" 16	306S-21
34 DS/T, DP/S/T, 340, 341, 346,	2.00" 39	306S-108
DS/T/P 3416	2.00" 16	306S-21
DS/C/T/P-341	2.00" 39	306S-108
DS/A-344	2.00" 39	275S-63
38 DP/S/T, DP/S/T, 380, 381,	2.10" 41	306S-109
4026, 381, 386	2.12" 16	306S-23
DS/C/T/P 402, DS/T/P 4036	2.10" 41	306S-109
DS/P/T 400, 401, 406	2.13" 33	306S-56
42 DP	2.12" 16	306S-23
44 DT/P 440, 446	2.31" 36	306S-110
	2.30" 22	306S-39
DS 404/454	2.10" 41	275S-66
DS/C/T/P 451	2.10" 41	306S-109
	2.13" 33	306S-56
DS/T/P 460, 466	2.31" 36	306S-110
DS/C 461, DS 4616	2.31" 36	350S-47
DT/P 461, 4616	2.31" 36	350S-88
DS-466	2.31" 36	306S-110
DS-480, 486	2.31" 36	350S-47
	2.30" 22	350S-39
DT/P 480	2.31" 36	306S-110
	2.30" 22	306S-39
DT/P 485	2.31" 36 (6)	350S-71
50 DP	2.13" 33	306S-56
DS 520	2.50" 39	350S-40
DT/P 520	2.50" 39	See Note (4)
DS/C 521, DS 5216	2.31" 36	350S-47
DT/P 521, 5216	2.31" 36	350S-88
DP 580, 586	2.50" 39	See Note (4)
DS/C 581	2.31" 36	350S-47
DP 581,601,651,652	2.31" 36	350S-88
DP 650, 656	2.50" 39	See Note (4)

Description	Axle	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
INTERNATIONAL (IHC)			
14Gxx			
DA	I-N340	2.00" 39	306S-98
DC DE DG DK	I-N400, D-S400	2.10" 41	306S-100
DL DM EL EN	D-DP/S402/7, DST41	2.10" 41	306S-109
JD/E rear			
EB EH GE GP	D-DC/S461/2/3/521/540	2.31" 36	350S-47
GT GW GZ HZ			
EC ED EW EY	D-DT 461/3/521, DP463	2.31" 36	350S-88
GU GV			
EE	E-DS 466	2.31" 36	350S-110
EP ER ES ET EX GG	D-DS404/5/54,	2.10" 41	275S-66
GJ GL HA HC	DSH 44, DST 41		
JC JD/E front			
HD	D-DS344	2.00" 39	275S-63
RA RX	R-RT34140/145	2.00" 39	275S-44
RB RC RU RW RY SB	R-RT40140/5,	2.10" 41	275S-43
SG SX TK TL UD UN UP	44145, 34144		
RD RE/RG/RH rear RP	R-RT23/48/52/	2.35" 46	350S-81
RR SC SD SE SU TA	58180, 46/52160		
TG TM TN UE UM			
RE/RG/RH front	R-RT48/52/58180,	2.35" 46	350S-93
RJ RL RV ST	52/58380		
RK RM	R-RT70380	2.55" 50	350S-79
SY TV	R-RQ100, RC17350	2.10" 41	306S-15
TE TY TZ	R-RS23/46157/8, 44158	2.35" 46	350S-57
UG UH UJ			
UB	R-RS23240	2.10" 41	306S-124
VA	D-BD71000	2.36" 27	306S-46
14Hxx			
RA RB RC RD	R-RT 46160/4	2.35" 46	350S-81
RE RH RJ RL RM			
RN RP	R-RT40145	2.10" 41	275S-43
14xxx			
307, 467	E-DS 480, 44DS	2.31" 36	350S-47
308, 309,	E-DS/DT 402, D 301	2.10" 41	306S-109
494, 496, 497			
328	R-SLHD	2.00" 21	306S-11
333, 334	R-SQHD	2.13" 22	306S-12
337, 369, 431	R-SU270/DD, R170	2.35" 46	350S-57
341	D-FIXX	1.85" 36	250S-98
342	E-DT401	2.13" 33	306S-56
343, 353, 354, 377, 469	E-DP/S/T460,44DP	2.31" 36	306S-110
345, 350, 357, 434	R-SQ100, SQHP	2.10" 41	306S-15
351, 475, 476	D-G/J340/380	2.00" 39	306S-98
355, 472*	D-G380, J400	2.10" 41	306S-100
364, 365, 389, 399,	R-SUD/DD,	2.35" 46	350S-57
431, 459	SS/STHD, R170		
367, 368	R-STD/DD	2.35" 46	350S-55
372, 373, 382, 383	R-SFD/DD	2.55" 50	350S-79
437, 474*	D-W230/460	2.35" 46	350S-73
464, 502	E-DS401/451	2.13" 33	306S-56
472*	D-J400	2.13" 20	306S-19
474*	D-W460	2.30" 22	350S-72
486, 500	E-DP580/650	2.50" 39	306S-44
488, 493, 498	E=DS/T341	2.00" 39	306S-108

* Count splines to determine correct NoSPIN model.

D=Dana/Spicer E=Eaton I=Int'l. R=Rockwell/Meritor

TANDEM AXLES-Cont'd.

Description of Axle	Axle Shaft Dia. (2) #Splines		Tractech Differential Model No. (1)
MERITOR			
RT-34/40-144/145/149	2.10"	41	275S-43
RT-40/46/50-160/164/169, RT-44-145	2.35"	46	350S-81
RT-48/50/52/58/70-185/380	2.35"	46	350S-93
RZ-166	2.35"	46	350S-81
RZ-186	2.35"	46	350S-93
	front	2.35"	350S-93
	rear	2.35"	350S-81
RZ-188	2.35"	46	350S-93

ROCKWELL			
R-170/TKN 4670	2.35"	46	350S-57
	2.38"	24	350S-13
RT 34-140, 145	2.00"	39	275S-44
RT 40/44-145	2.25"	44	306S-136
	2.10"	41	275S-43
RT 46/48/52-160	2.55"	50	350S-76
	2.35"	46	350S-81
RT 48/52/58-180	2.35"	46	350S-93
	front	2.35"	350S-93
	rear	2.35"	350S-81
RT 48/52/58-380	2.35"	46	350S-93
RT 70-180	2.55"	50	350S-76
RT 70-380	2.55"	50	350S-79
SDH/SDHD	1.75"	16	250S-32
SFD (C-240)	1.62"	16	225S-15
SFD (M-240)	2.12"	16	306S-36
SFD/SFDD 4640, 4700	2.55"	50 (5)	350S-56
	2.50"	16 (5)	350S-52
SFH/SFHD	1.75"	34	250S-97
	1.75"	19	250S-13
SHD, SHR	2.38"	24	350S-13
SHHD/SJHD	1.87"	20	275S-11
SLD/SLDD	2.00"	21	306S-11
	2.00"	16	306S-22
SL 100	2.00"	39	306S-79

Description of Axle	Axle Shaft Dia. (2) #Splines		Tractech Differential Model No. (1)
ROCKWELL-Cont'd.			
SLHD	2.00"	21	306S-11
SLHR/T-3000	2.00"	21	306S-11
SQD/SQDD	2.12"	16	306S-30
SQHD	2.13"	22	306S-12
	2.00"	21	306S-25
SQHP, SQ 100	2.10"	41	306S-15
SQR 100	2.10"	41	306S-15
SR 170, 270, 280	2.35"	46	350S-57
	2.38"	24	350S-13
SRD/SRDD	2.35"	46	306S-84
	2.25"	23	306S-35
SRHD	2.25"	23	306S-35
SSHD	2.35"	46	350S-57
	2.38"	24	350S-13
	2.25"	23	350S-25
ST 170	2.38"	24	350S-13
STD,STDD,STD-DD	2.35"	46	350S-55
	2.38"	24	350S-36
STHD	2.38"	46	350S-57
	2.38"	24	350S-13
SU 170, SUD/SUDD, SUHD	2.35"	46	350S-57
	2.38"	24	350S-13
SU 270, 280	2.35"	46	350S-57
	2.38"	24	350S-13
SW 170, 180, 270, 280	2.55"	50	350S-79
FLDD, LDD-240	2.13"	22	306S-12
LDF	2.00"	21	306S-25
LDH/R	2.00"	21	306S-11
QHD/R	2.00"	21	306S-25
RDD/F/R	2.35"	46	306S-84
SHD/R	2.38"	24	350S-13
	2.35"	46	350S-57
TDD/F/R	2.35"	46	350S-55
UDD/F/R	2.38"	24	350S-13
	2.35"	46	350S-57

PLANETARY AXLES

Axle Series	Carrier	Axle Shaft Dia. (2) #Splines		Tractech Differential Model No. (1)
DANA/SPICER				
19060P		2.00"	39	276S-63
21060P, 22060P		2.10"	41	306S-109
23080P, 26080P, 30055P, 35055P		2.31"	36	350S-88
PR/PS-1200		1.64"	10	250S-34
		1.64"	32	250S-12
PR/PS-1300, 1350, 33R/S40		1.85"	36	250S-99
PR-1800		1.75"	19	250S-20
PR/PS-7028		1.50"	35	225S-18

DANA/SPICER (CLARK)				
12D/Sxxxx, 31R38	1230	1.67"	39	225S-102
14Txxx	1391	2.00"	39	250S-167
14F/D/S/Txxxx, 35R68	1390	2.00"	39	250S-67
15Dxxxx	1530	2.00"	39	275S-22
16D/F/S/Txxxx	1640	2.10"	42	306S-166
42R/F/S/Txxx		2.31"	27 (7)	306S-46
19D/Txxxx	1850	2.65"	52	350S-21
48R/Txxx		2.50"	49	350S-44
		2.70"	26	350S-46
		2.52"	24	350S-10
21Dxxx, 53Rxxx	2050 Conv. dif. L.S. dif.	2.65"	52	450S-133
		2.65"	52	450S-126
25Dxxxx, 63Rxxx	2500	3.20"	63	550S-34
		3.21"	31	550S-29

Axle Series	Carrier	Axle Shaft Dia. (2) #Splines		Tractech Differential Model No. (1)
DANA/SPICER (CLARK)-Cont'd.				
PR 1300, 33R40,		1.85"	36	250S-99
PS 1350, 33S40				
PR/S-1200		1.64"	10	250S-34
PR-1800		1.75"	19	250S-20
PR/S-7028		1.50"	35	225S-18
Service Only				
D/DS-12/17xxx	1390	2.00"	39	250S-67
		1.93"	16	250S-14
D/DS-18/19xxx	1530	2.00"	39	275S-22
		2.06"	24	275S-17
D/DS-22/23xxx	1640	2.35"	46	306S-73
BD-71/91/101xxx		2.31"	27 (7)	306S-46
D/DS-13xxx	1230	1.67"	39	225S-48
D/DS-26/37xxx	1850	2.70"	26	350S-46
		2.52"	24	350S-10
D/DS-34/75xxx	2050	2.70"	26	450S-125
	Conv. dif.	2.65"	52	450S-133
	L.S. dif.	2.65"	52	450S-126
D/DS-64/85xxx	2500	3.20"	63	550S-34
		3.21"	31	550S-29

DANA/SPICER (HURTH)-Cont'd.				
171, 19R		1.16"	13	187S-83
172, 22R		1.38"	8	187S-70
177, 22R		1.46"	19	225S-60
176		1.75"	16	225N-72

PLANETARY AXLES Cont'd.

Axle Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
DANA/SPICER (KIRKSTALL)			
D60/65/66,	31R/27R	1.59" 10	250S-86
D80/85		1.93" 16	250S-79
D90, 39R		2.08" 24	306S-72
D100		2.22" 26	350S-43

DEERE			
Series	VEHICLE MODEL	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
Series 1	444/A/B/C/D, 544A, 644A	2.06" 18	306S-60
Series 2	544/B/C/D, 740, 762	2.08" 32	300S-61
Series 3	644/B/C/D, 646 C	2.30" 22 2.05" 22	300S-62 306S-148
1100/1200		1.50" 23	225S-80
1200	544E Front	2.06" 18	306S-167
1400	624/644E Front	2.33" 22	306S-149
1600	744E Front	2.33" 22	306S-173
TM III 1000	444H Front & Rear, 544H Rear	1.75" 27	717AD10
TM III 1200	544H Front, 644H Rear	2.00" 31	719AD12
TM III 1400	644H Front	2.25" 35	722AD14

INTERNATIONAL (IHC)			
Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
14Exx			
EC ED	E-3505SP	2.31" 36	350S-88
EH	E-26080P	2.10" 41	306S-109

EATON			
Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
WR 3, 5	13100	1.75" 34	250S-100
WR 7	16100 Front Rear	1.85" 36 2.10" 41	250S-109 306S-109
WR 10	DS402 Front 21065 Rear	2.10" 41 2.10" 41	306S-109 306S-109
WR 12	23070	2.12" 33	306S-56
WR 31	13000	1.87" 16	250S-37
WR 51	15000	1.75" 19 1.87" 16	250S-20 250S-37
WR 61	17000	1.87" 16	306S-119
WR 81	18000	2.12" 16	306S-23

MERITOR			
SINGLE - PR			
Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
204/5, 265	D/F-140	1.75" 19	250S-13
184, 824	H-172	1.88" 20	306S-42
673	L-172	2.13" 22	306S-12
352/3, 382	PRA Series	1.60" 31	225S-122
1736	QR-100	2.10" 41	306S-15
867	R-155	2.13" 22	350S-15
3805, 4805	R-155	2.38" 24	350S-15
594, 671	RS-120/125 3.31-4.30 ratio 4.56-7.17 ratio	1.75" 34 1.75" 34 1.75" 34	250S-134 717R120F 717R120S
	RS-120/125 3.31-4.30 ratio 4.56-7.17 ratio	1.95" 38 1.95" 38 1.95" 38	250S-128 719R120F 719R120S
416, 425, 673	RS-145	2.00" 39	275S-44
756, 775, 1314			
727, 866, 1206,	RS-145	2.10" 41	275S-43
1735, 1756, 1794			
5225, 7534	RS-186	2.55" 50	350S-76
674	RS-220	1.85" 36	275S-44
134	53500	1.75" 16	250S-23
TANDEM-SP			
673	RT-145	2.00" 39	275S-44
1927	RT-160	2.35" 46	350S-81
4808	RT-380	2.55" 50	350S-79
1356, 1735	SQHP	2.10" 41	306S-15
1927	SR-170	2.38" 24	350S-15

Axle Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
MERITOR-Cont'd.			
STEER-PS			
205, 594	F-140	1.75" 19	250S-13
824/5	H-172	1.88" 20	306S-42
824/5	L-172	2.13" 22	306S-12
1614	Q-100	2.13" 22 2.10" 41	306S-31 306S-92
1044, 1617, 1794	QR-100	2.10" 41	306S-15
1485, 1875, 4564	R-155	2.13" 22 2.38" 24	350S-19 350S-15
205, 594	RS-120/125 2.31-4.30 ratio 4.56-7.17 ratio	1.75" 34	250S-134 717R120F 717R120S
	RS-120/125 5.31-4.30 ratio 4.56-7.17 ratio	1.95" 38	250S-128 719R120F 719R120S
826, 1044, 1614, 1794	RS-145	2.10" 41	275S-43
1876	RS-160	2.35" 46	350S-81
SVI 5000 series		1.71" 33	717SV166
IPA series		1.70" 34	717AM84

NEW HOLLAND			
Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
D45		1.96" 38	250S-147 919A401
D65		2.00" 39	306S-65

ROCKWELL- Single PR, Tandem SP, Steer PS			
Series	Carrier	Axle Shaft Dia. (2) #Splines	Tractech Differential Model No. (1)
134, 164, 267, 268	53500	1.75" 16	250S-23
274	C-100	1.62" 16	225S-15
203	C-102	1.65" 32	225N-52
165, 166, 175, 176, 204, 205#, 264, 265, 353, 354, 515, 524, 574, 593, 594#, 595, 671#, 723, 724, 823	D-140/142, F-140/145	1.75" 19	250S-13
592, 596*, 614*, 672*, 674, 824*, 863*, 1103*, 1374*	H-140/150/340	1.88" 20	275S-11
184, 577#, 596*, 614*, 672*, 694#, 726, 824*, 825#, 834, 863*, 1103*, 1374*	H-172	1.88" 20	306S-42
784	H-172	1.77" 19	250S-13
576, 595, 671#, 1743, 1753	HHD Front H-172 Rear	1.88" 20 1.88" 20	275S-11 306S-42
150#, 154#, 158#, 202, 235#, 483,	L-172	2.13" 22	306S-12
655, 673#, 695#, 825#, 864, 1104			
577#, 615, 673#, 695#, 803, 855	L-172	2.00" 21	306S-11
362	L-172	2.00" 39	306S-79
673	L-345	2.00" 21	306S-11
150, 158#, 202, 235#, 413 253, 258		2.00" 21 2.19" 23	306S-25 306S-51
5054, 7314#, 10253	PR-700	2.75" 54	450S-146
7314#	PR-700	2.63" 26	450S-129
1756#	Q-100	2.25" 23	306S-35
208, 209, 210	Q-100/145	2.13" 22	306S-31
250, 251, 266 676, 804, 826, 1044, 1314, 1355, 1614#			
1614#	Q-100	2.10" 41	306S-92
827, 1044, 1105, 1284, 1357, 1617, 1736, 1794#	QR-100	2.10" 41	306S-15
207, 677, 827, 866, 867, 1315,	R-140/155	2.13" 22	350S-19
1485, 1615, 1725, 1757#			
1757#, 1875, 1925, 1935, 3795, 3805, 4025, 4564, 4805	R-140/155	2.38" 24	350S-15
1045, 1737, 1757#	R-140/155	2.15" 23	350S-16