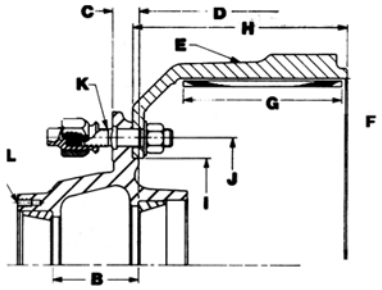
HUB SPECIFICATIONS BY AXLE GROUP
FOR USE WITH BALL SEAT MOUNTED DISC WHEELS
TRAILER APPLICATIONS

WEBB AXLE GROUP # 2

Outer Bearing Cup HM212011
Cone HM212049
Inner Bearing Cup HM218210
Cone HM218248
Cup Code 9

AXLE MODELS

Dana Spicer	D-22, K-22
Dexter	D200K, D225K
Eaton	J, JE, JH, 23L, 23R, HJ, HJE, 25R, HR25
Ingersoll	A22S, A22H, A22T, DC22H, F22
KB	KBW, KBS
Rockwell	RN, TKN, TN, TQ, RQ
Standard Forge	A-22H, A-22S, A-22T



ASSEMBLY DRAWING

1001 10 Stud 11.25 BC Hub; For Inboard Drum (Shoulder Stud)

"B"	"C"	"D"	"E"			"F"	"G"	"H"	"I"	"J"	"K"	"L"	
Distance Between Cups	Cup To Mfg. Face	Cup to End of Drum	Brake Drum Part No.	Order Code Standard	Order Code Balanced	Brake Size Dia.	Brake Size Brake Width	Drum Overall Depth	Drum Pilot Dia.	Bolt Circle	Drum Bolt Qty. / Dia.	Hub Cap Hole Pattern	* Grease Hub Cap Kit
3.34	0.79	9.75	61547	AP	EP	15.00	7.00	9.44	9.44	11.25	10 / 0.75	6 Holes 0.31 ∅ 5.50 ∅ B.C.	73655
		8.31	64467	BB	CB	16.50	5.00	8.00					
		9.37	66096	FA	BA	16.50	6.00	9.06					
		9.81	62200	BE	EE	16.50	7.00	9.50					
		9.81	①66200	FF	KF	16.50	7.00	9.50					
		9.81	②67407B	QF	QN	16.50	7.00	9.50					
		11.56	68891	HL	RL	16.50	8.62	11.25					
		11.12	68885	GL	EL	16.50	8.62	10.81					
			(Above drum for use on Standard Forge axles only)										
		12.25	67205	GA	CA	16.50	10.00	11.94					

WHEEL FASTENER INFORMATION

1 Disc Wheel	2 Tire App.	3 Drum Type	4 Stud (RH)	5 Color	6 Stud (LH)	7 Color	RH Cap Nuts Inner	RH Cap Nuts Outer	8 LH Cap Nuts Inner	LH Cap Nuts Outer	9 Stud Stand Out	10 Cap Nuts Order Code With	Less
Steel	Dual	Cast or Fused	139902	Black	139913	Green	107080	178910	107091	178921	1.33	A	M
Aluminum	Dual	Cast or Fused	139902	Black	139913	Green	105988	178910	105989	178921	1.33	U	M
For Longer Stud Standout (See Note)													
Aluminum	Dual	Cast or Fused	195694	Silver	195693	Yellow	105988	178910	105989	178921	1.64	V	T
Steel/Alum	Single	Cast or Fused	131782	Silver	131781	Yellow		178910		178921	1.68	L	R
			(Studs have 1⅛" - 16 Thread Dia. Wheel End)										
Steel/Alum	Single	Cast or Fused	195694	Silver	195693	Yellow		178736		178737	1.64	K	T
			(Studs have ¾" - 16 Thread Dia. Wheel End)										

Note: A longer stud standout is not necessary when using Grade 8 inner cap nuts with aluminum disc-wheels.

NOTES: ① **Extra Heavy Duty Brake Drum**
② **Centrifuse® Brake Drum**

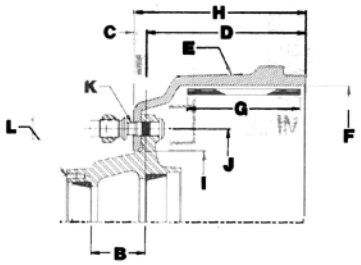
This product is available machined for preset bearings. Contact our Sales Dept. for availability.

HUB SPECIFICATIONS BY AXLE GROUP
FOR USE WITH BALL SEAT MOUNTED DISC WHEELS
TRAILER APPLICATIONS

WEBB AXLE GROUP # 1
Outer Bearing Cup HM212011
Cone HM212049
Inner Bearing Cup 653
Cone 663 or 665A
→ Cup Code 3

AXLE MODELS

Dana Spicer	D-21, K-21
Eaton	C, C2, CB, CD, CD2, HC, HCE, E, 20L, 22L, 22R
Ingersoll	A19S, A19H, DC19H
Rockwell	TK, TL, RL, TKLD, TKL
Standard Forge	A-19H, A-19S



ASSEMBLY DRAWING

1220 10 Stud 11.25 BC Hub; For Outboard Drum (Serrated Stud)

"B"	"C"	"D"	"E"			"F"	"G"	"H"	"I"	"J"	"K"	"L"	
Distance Between Cups	Cup To Mfg. Face	Cup to End of Drum	Part No.	Brake Drum Order Code Standard	Balanced	Brake Size Dia.	Brake Width	Drum Overall Depth	Drum Pilot Dia.	Bolt Circle	Drum Bolt Qty. / Dia.	Hub Cap Hole Pattern	* Grease Hub Cap Kit
3.81	1.44	9.15	61571	AR	ER	15.00	7.00	10.59	8.53	11.25	10 / 0.75	6 Holes 0.31 ∅ 5.50 ∅ B.C.	73655
	1.19	9.03	②67128B	QB	QR	15.00	7.00	10.22					
	1.44	9.18	①66853	HR	JR	16.50	7.00	10.62					
	1.44	9.18	66893	FR	GR	16.50	7.00	10.62					
	1.19	9.22	②67101B	QD	QP	16.50	7.00	10.41					
	1.44	10.95	66815	GJ	DJ	16.50	8.62	12.39					
	1.19	10.95	②67615B	QJ	QW	16.50	8.62	12.14					
	1.44	11.94	66812 (Notched)	GE	GN	16.50	10.00	13.38					

WHEEL FASTENER INFORMATION

1 Disc Wheel	2 Tire App.	3 Drum Type	4 Stud (RH)	5 Color	6 Stud (LH)	7 Color	RH Cap Nuts Inner	RH Cap Nuts Outer	8 LH Cap Nuts Inner	LH Cap Nuts Outer	9 Stud Stand Out	10 Cap Nuts Order Code With	Less
Steel	Dual	Cast	159184	Black	159183	Green	107080	178910	107091	178921	1.36	A	M
Aluminum	Dual	Cast	159184	Black	159183	Green	105988	178910	105989	178921	1.36	U	M
Steel	Dual	Fused	198510	Silver	198521	Yellow	107080	178910	107091	178921	1.37	B	F
Aluminum	Dual	Fused	198510	Silver	198521	Yellow	105988	178910	105989	178921	1.37	Z	F
For Longer Stud Standout (See Note) Aluminum	Dual	Fused	159184	Black	159183	Green	105988	178910	105989	178921	1.61	U	M
For Longer Stud Standout (See Note) Aluminum	Dual	Cast	100164	Silver	100163	Yellow	105988	178910	105989	178921	1.84	V	T
Steel/Alum	**Single**	**Cast**	**100164**	**Silver**	**100163**	**Yellow**		178736		**178737**	**1.84**	**K**	**T**
Steel/Alum	**Single**	**Fused**	**159184**	**Black**	**159183**	**Green**		178736		**178737**	**1.61**	**J**	**M**
1⅛" Alum (Super Single)	Single	Fused	100164	Silver	100163	Yellow		178736		178737	2.09	K	T
Steel	**Single**	**Less Drum**	**198510**	**Silver**	**198521**	**Yellow**		**178736**		**178737**	**1.62**	**H**	**G**

NOTES: ① **Extra Heavy Duty Brake Drum**
② **Centrifuse® Brake Drum**

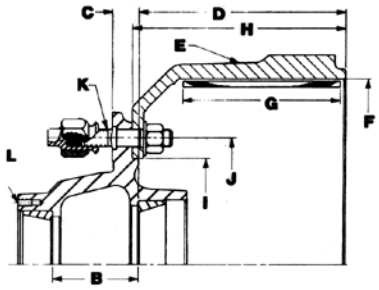
HUB SPECIFICATIONS BY AXLE GROUP
FOR USE WITH BALL SEAT MOUNTED DISC WHEELS
TRAILER APPLICATIONS

WEBB AXLE GROUP # 1

Outer Bearing Cup HM212011
Cone HM212049
Inner Bearing Cup 653
Cone 663 or 665A
Cup Code 3

AXLE MODELS

Dana Spicer	D-21, K-21
Eaton	C, C2, CB, CD, CD2, HC, HCE, E, 20L, 22L, 22R
Ingersoll	A19S, A19H, DC19H
Rockwell	TK, TL, RL, TKLD, TKL
Standard Forge	A-19H, A-19S



ASSEMBLY DRAWING

1221⑦ 10 Stud 11.25 BC Hub; For Inboard Drum (Shoulder Stud)

"B"	"C"	"D"	"E"			"F"	"G"	"H"	"I"	"J"	"K"	"L"	*
Distance Between Cups	Cup To Mfg. Face	Cup to End of Drum	Brake Drum Part No.	Order Code Standard	Order Code Balanced	Brake Size Dia.	Brake Size Width	Drum Overall Depth	Drum Pilot Dia.	Bolt Circle	Drum Bolt Qty. / Dia.	Hub Cap Hole Pattern	Grease Hub Cap Kit
3.81	1.16	9.16	61547	AP	EP	15.00	7.00	9.44	9.44	11.25	10 / 0.75	6 Holes 0.31⌀ 5.50⌀ B.C.	73655
		7.78	64467	BB	CB	16.50	5.00	8.00					
		8.78	66096	FA	BA	16.50	6.00	9.06					
		9.22	62200	BE	EE	16.50	7.00	9.50					
		9.22	①66200	FF	KF	16.50	7.00	9.50					
		9.22	②67407B	QF	QN	16.50	7.00	9.50					
		10.97	68891	HL	RL	16.50	8.62	11.25					
		10.53	68885	GL	EL	16.50	8.62	10.81					
			(Above drum for use on Standard Forge axles only)										
		11.66	67205	GA	CA	16.50	10.00	11.44					

WHEEL FASTENER INFORMATION

1 Disc Wheel	2 Tire App.	3 Drum Type	4 Stud (RH)	5 Color	6 Stud (LH)	7 Color	RH Cap Nuts 8 Inner	RH Cap Nuts 8 Outer	LH Cap Nuts Inner	LH Cap Nuts Outer	9 Stud Stand Out	10 Cap Nuts Order Code With	Less
Steel	Dual	Cast or Fused	139902	Black	139913	Green	107080	178910	107091	178921	1.33	A	M
Aluminum	Dual	Cast or Fused	139902	Black	139913	Green	105988	178910	105989	178921	1.33	U	M
For Longer Stud Standout (See Note)													
Aluminum	Dual	Cast or Fused	195694	Silver	195693	Yellow	105988	178910	105989	178921	1.64	V	T
Steel/Alum	Single	Cast or Fused	131782	Silver	131781	Yellow		178910		178921	1.68	L	R
(Studs Have 1⅛" - 16 Thread Dia. Wheel End)													
Steel/Alum	Single	Cast or Fused	195694	Silver	195693	Yellow		178736		178737	1.64	K	T
(Studs Have ¾" - 16 thread Dia. Wheel End)													

NOTES: ① **Extra Heavy Duty Brake Drum**
② **Centrifuse® Brake Drum**
⑦ **Use forty (40) flat washers #257, four (4) under each lock nut (75716) when assembling Centrifuse® brake drums.**

SPOKE WHEEL SPECIFICATIONS BY AXLE GROUP
TRAILER APPLICATIONS

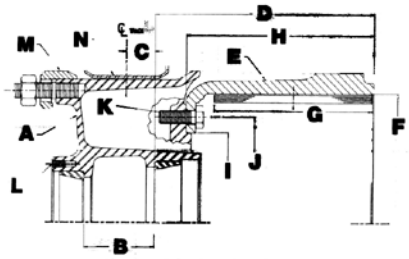
WEBB AXLE GROUP # 2

Outer Bearing	Cup	HM212011
	Cone	HM212049
Inner Bearing	Cup	HM218210
	Cone	HM218248

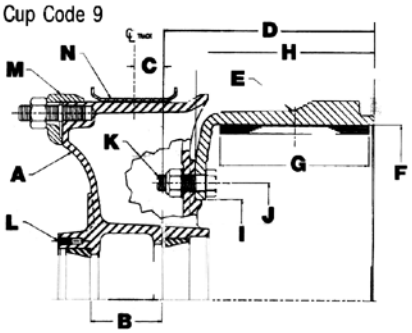
Cup Code 9

AXLE MODELS

Dana Spicer	D-22, K-22
Dexter	D200K, D225K
Eaton	J, JE, JH, 23L, 23R, HJ, HJE, 25R, HR25
Ingersoll	A22S, A22H, A22T, DC22H, F22
KB	KBW, KBS
Rockwell	RN, TKN, TN, TQ, RQ
Standard Forge	A-22H, A-22S, A-22T



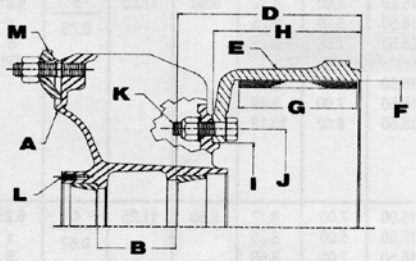
15″ SPOKE WHEELS ASSEMBLY DRAWING



20″ AND 22″ SPOKE WHEELS ASSEMBLY DRAWING

"A" Wheel Part No.	Desc.	"B" Distance Between Cups	"C" Cup to Center-Line of Wheel Track	"D" Cup to End of Drum	"E" Brake Drum Part No.	"E" Brake Drum Order Code	"F" Brake Size Dia.	"G" Brake Size Brake Width	"H" Drum Overall Depth	"I" Drum Pilot Dia.	"J" Bolt Circle Dia.	"K" Drum Bolt Qty. / Dia.	"L" Hub Cap Hole Pattern	"M" Rim Clamp	"N" ** Rim Spacer Width	* Grease Slinger / Dirt Guard Assy.	* Grease Hub Cap Kit / Drum Bolt Kit
7000	3 Spoke 15″	3.34	1.36 / With 3.38 Spacer	8.96 10.62	63636 63637	CJ CK	12.25 12.25	5.50 7.50	7.44 9.06	7.00	8.25	6 / 0.62	6 Holes 0.31 ∅ 5.50 ∅ B.C.	3314 3319 3319	4.00 3.38 3.00	Not Avail. / Not Avail.	73655 / 90315
7315	3 Spoke 15″	Service Only Use 7000 For OEM		8.94 10.38 10.38	62358 63617 ①63647	BH CC EM	12.25 12.25 12.25	5.50 7.50 7.50	7.44 8.88 8.88	8.50	10.00	6 / 0.62	6 Holes 0.31 ∅ 5.50 ∅ B.C.	3314 3319 3319	4.00 3.38 3.00	Not Avail. / Not Avail.	73655 / 90315
7320	3 Spoke 20″	3.34	1.36 / With 4.00 Spacer	9.64 8.21 7.77 9.90	61517 63423 63447 67518	AD CE CP GC	15.00 16.00 16.50 16.50	7.00 5.00 5.00 7.00	8.12 6.69 6.25 8.38	9.44	11.00	6 / 0.62	6 Holes 0.31 ∅ 5.50 ∅ B.C.	3320 3321	4.00 3.38	73617 / 73647	73655 / 90320
7322	3 Spoke 22″			9.90 9.90 11.52 12.58	①67598 ②67397B 68946 ③63410	GD QA HV CF	16.50 16.50 16.50 16.50	7.00 7.00 8.62 10.00	8.38 8.38 10.00 11.06			6 / 0.62		3322 3323	4.00 3.38	73617 / 73647	73655 / 90320
7510	5 Spoke 20″ Single Rim		Not Appl.									5 / 0.75		16177 16187 See Note	Not Appl.	73617 / 73647	73655 / 90305
7511	5 Spoke 20″ Single Rim (M2 Type)		Not Appl.									5 / 0.75		Not Avail.	Not Appl.	73617 / 73647	73655 / 90305
7520	5 Spoke 20″		1.36 / With 4.00 Spacer									5 / 0.75		16123 16126 16124	4.00 3.62 3.38	73617 / 73647	73655 / 90305
7522	5 Spoke 22″											5 / 0.75		16123 16126 16124	4.00 3.62 3.38	73617 / 73647	73655 / 90305
7620	6 Spoke 20″											6 / 0.62		16123 16126 16124	4.00 3.62 3.38	73617 / 73647	73655 / 90320
7622	6 Spoke 22″											6 / 0.62		16123 16126 16124	4.00 3.62 3.38	73617 / 73647	73655 / 90320

The Following Information Applies to 7510 and 7511 Spoke Wheels Only.
Rim clamps shown in column "M" should be used as follows:
16177 – With 8.0″ max tube type rim and all tubeless rims
16187 – With 8.5″ min tube type rim only



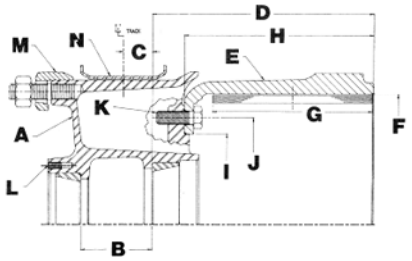
NOTES: ① Extra Heavy Duty Brake Drum
② Centrifuse® Brake Drum
③ When ordering axles requiring 10.00 brakes, specify the spoke wheel manufacturer and their part number to the axle manufacturer.
This product is available machined for preset bearings. Contact our Sales Dept. for availability.

SPOKE WHEEL SPECIFICATIONS BY AXLE GROUP
TRAILER APPLICATIONS

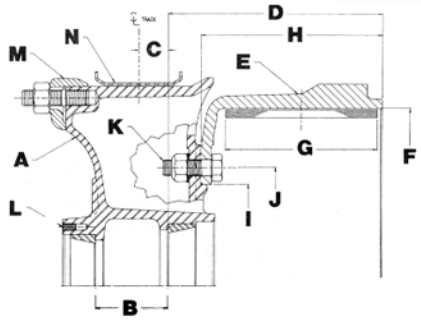
WEBB AXLE GROUP # 1
Outer Bearing Cup HM212011 ← Cup Code 3
Cone HM212049
Inner Bearing Cup 653 ←
Cone 663 or 665A

AXLE MODELS

Dana Spicer	D-21, K-21
Eaton	C, C2, CB, CD, CD2, HC, HCE, E, 20L, 22L, 22R
Ingersoll	A19S, A19H, DC19H
Rockwell	TK, TL, RL, TKLD, TKL
Standard Forge	A-19H, A-19S



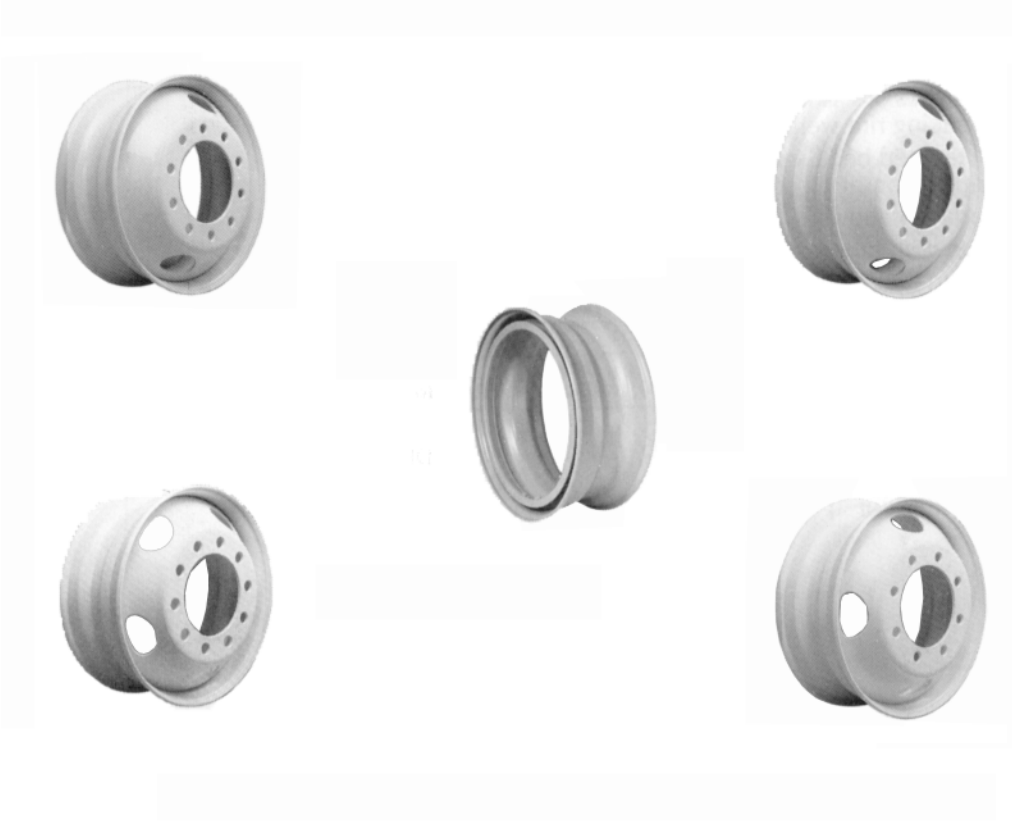
15″ SPOKE WHEELS
ASSEMBLY DRAWING



20″ AND 22″ SPOKE WHEELS
ASSEMBLY DRAWING

"A" Wheel Part No.	Desc.	"B" Distance Between Cups	"C" Cup to Center-Line of Wheel Track	"D" Cup to End of Drum	"E" Brake Drum Part No.	"E" Brake Drum Order Code	"F" Brake Size Dia.	"G" Brake Size Width	"H" Drum Overall Depth	"I" Drum Pilot Dia.	"J" Bolt Circle Dia.	"K" Drum Bolt Qty. / Dia.	"L" Hub Cap Hole Pattern	"M" Rim Clamp	"N" ** Rim Spacer Width	* Grease Slinger / Dirt Guard Assy.	* Grease Hub Cap Kit / Drum Bolt Kit
8315	3 Spoke 15″	3.81	1.61 With 3.38 Spacer	8.72 10.16 10.16	62358 63617 ①63647	BH CC EM	12.25 12.25 12.25	5.50 7.50 7.50	7.44 8.88 8.88	8.50	10.00	6 / 0.62	6 Holes 0.31 Ø 5.50 Ø B.C.	3314 3319 3319	4.00 3.38 3.00	Not Avail. / Not Avail.	73655 / 90315
8320	3 Spoke 20″	3.81	1.89 With 4.00 Spacer	9.09 7.22 7.66 9.35 9.35 9.10 10.97 12.03	61517 63447 63423 67518 ①67598 ②67397B 68946 ③63410	AD CP CE GC GD QA HV CF	15.00 16.50 16.00 16.50 16.50 16.50 16.50 16.50	7.00 5.00 5.00 7.00 7.00 7.00 8.62 10.00	8.12 6.25 6.69 8.38 8.38 8.38 10.00 11.06	9.44	11.00	6 / 0.62	6 Holes 0.31 Ø 5.50 Ø B.C.	3320 3321	4.00 3.38	73617 / 73647	73655 / 90320
8322	3 Spoke 22″											6 / 0.62		3322 3323	4.00 3.38	73617 / 73647	73655 / 90320
8520	5 Spoke 20″											5 / 0.75		16123 16126 16124	4.00 3.62 3.38	73617 / 73647	73655 / 90305
8522	5 Spoke 22″											5 / 0.75		16123 16126 16124	4.00 3.62 3.38	73617 / 73647	73655 / 90305

NOTES: ① **Extra Heavy Duty Brake Drum**
② **Centrifuse® Brake Drum**
③ **When ordering axles requiring 10.00 brakes, specify the spoke wheel manufacturer and their part number to the axle manufacturer.**



HAY-87460W	8.25" X 22.5" 10-HOLE STEEL WHEEL BALL SEAT, WHITE
HAY-87650W	8.25 X 24.5" 10-HOLE STEEL WHEEL, BALL SEAT, WHITE
HAY-93590W	8.25" X 22.5" 10-HOLE STEEL WHEEL, UNI-MOUNT, WHITE
HAY-93700W	8.25" X 24.5" 10-HOLE STEEL WHEEL, UNI-MOUNT, WHITE
HAY-101745	8.25" X 22.5" OPEN FACE RIM FOR SPOKE WHEEL

(Gray wheels are also available)

10-hole hub-piloted aluminum wheels

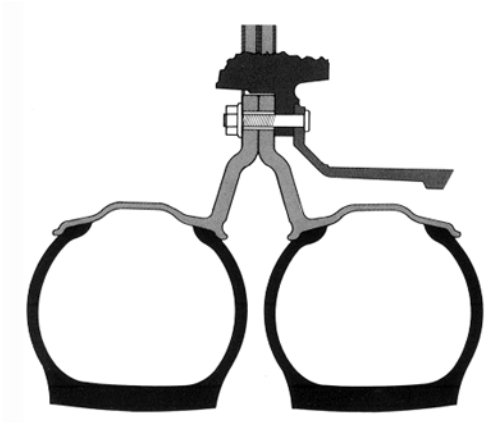
(single & dualed wheels for trucks and trailers, including bus mount and steer axle wheels)

Features

- The hub centers the wheel
- The 2-piece flange nuts and studs provide clamping force
- The system uses one flange nut per stud, eliminating inner cap nuts
- The 2-piece flange nut has a flat washer which seats against the face of the wheel
- Uses only right hand threaded cap nuts
- Front wheels are mounted as singles; rear wheels are usually mounted as duals

Advantages

- Dualed wheels require only one flange nut per stud
- Up to 736 lbs. more payload capability per 18-wheel rig compared to steel disc wheels
- Does not need left hand threaded cap nuts
- True running for long tire and brake life
- Corrosion resistant
- One-piece strength
- Five-year limited warranty (ten years on bus mount wheels)
- Increases vehicle resale value
- Less tare weight for more fuel efficiency



Wheel size	Load rating in pounds	Load rating in kilograms	Part no.**	Item no.†
10-hole wheels				
17.5x6.00-15°DC	—	2500	ALC-663200	48
19.5x6.00-15°DC	2780	—	ALC-761000	3
19.5x6.75RW-15°DC	—	2500	ALC-763670	49
19.5x7.50RW-15°DC	—	3000	ALC-773600	50
19.5x8.25RW-15°DC	—	3150	ALC-783600	51
22.5x7.50-15°DC	—	3150	ALC-873520	52
22.5x7.50-15°DC	—	3150	ALC-873540	53
22.5x7.50-15°DC	7300	—	ALC-873600	28
22.5x8.25-15°DC	—	3550	ALC-883550	††55
22.5x8.25-15°DC	—	3550	ALC-883560	54
22.5x8.25-15°DC	7300	—	ALC-883600	29
22.5x9.00-15°DC	9000	—	ALC-893600	30
22.5x9.00-15°DC	—	4000	ALC-893530	56
22.5x9.00-15°DC	—	4000	ALC-893550	††57
24.5x8.25-15°DC	7300	—	ALC-983600	38
10-hole bus mount wheels				
22.5x8.25-15°DC	7300	—	ALC-883610	39
22.5x9.00-15°DC	9000	—	ALC-893610	40
24.5x8.25-15°DC	7300	—	ALC-983610	41
10-hole wide base steer axle wheels				
22.5x12.25-15°DC	11,000	—	ALC-823660	33
22.5x12.25-15°DC	11,000	—	ALC-823670	34
22.5x13.00-15°DC	11,000	—	ALC-833660	37

See tire manufacturer or tire distributor for information on tire dimensions including maximum tire width recommendations.

2-piece flange nuts

M22x1.5 2-piece flange nut P/N 39691 or equivalent.

M22x1.5 2-piece flange nut P/N 4306.32 (single mount) and 4307.32 (dual mount) for 32mm bolt hole wheels.

Bus mount wheels use 7/8"x14 (2-piece flange nut) Motor Wheel cap nuts P/N MW07652 (low front and tag) and MW07669 (rear) or equivalent.

Brake assembly

Wheels are compatible with most disc brakes or inboard and outboard mounted brake drums specified by the vehicle manufacturer.

Note: Be sure brake drum or caliper does not contact inner surface of the wheel except in mounting area.

Note: Be sure the hub or drum surface which contacts the wheel is flat and true and provides adequate surface contact.

Note: See Alcoa Service Manual for proper wheel mounting and service procedures. Follow all OSHA regulations when servicing wheels.

Hubs

Ferrous or aluminum hub-piloting type only with a minimum pilot of 1.06" or 27mm for dualed wheels.

Note: Only specify hubs which are designed for aluminum hub-piloted wheels. Hubs designed for steel hub-piloted wheels may not have sufficient pilot length to locate dualed aluminum wheels. Stud lengths must be sufficient to clamp aluminum wheels.

Stud standout

Standout - That amount of stud which extends from the wheel seating surface (hub or brake drum) which is available to penetrate the wheels and engage the cap nut.

8-hole & 10-hole single wheels: 2" min.; 8-hole & 10-hole dualed wheels: 2 13/16" min.; 10-hole bus mount drive wheels: 3.187" min.; 10-hole bus mount steer and tag wheels with low nut: 1.875" min.; 10-hole wide base steer axle wheels: 2 1/8" min.

See page 16.

Note: These wheels meet SAE J694 Sep. 88 standards. Do not use cap nuts intended for stud located (ball seat) wheels on hub-piloted wheels.

**Part numbers listed for all sizes are machine finished. Polished finishes are indicated by changing the last digit of the part number listed to one of the following: polished outside only, "1"; polished inside only, "2"; polished both sides, "3".

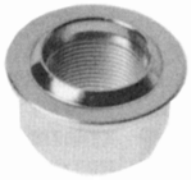
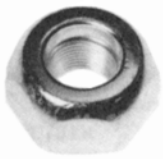
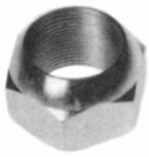
†See pages 2 and 3 for complete data.

††32mm bolt hole and 5 hand holes, for stud standout contact your local Alcoa representative.

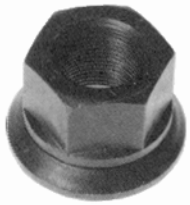
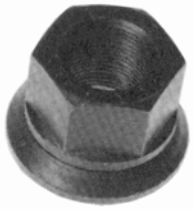
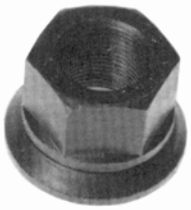
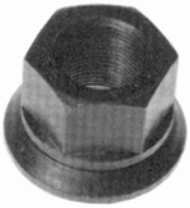
WHEEL END HARDWARE

PART NO.	NOTES	THREAD OUTER	THREAD INNER	LG	REPLACES
SIR-708AR / SIR-709AL	GRADE 8 Inner Thread Depth 1-1/4" Steel/Steel Y-Suffix Yellow Zinc Z-Suffix Clear Zinc	1-1/8" - 16	3/4" - 16	2-7/32"	Batco 13-3005R/L Budd 10708/9 BWP M-128/9 Euclid E-5549R/L E-7895R/L Leland W-11/2 NWRA X1828/9 Rockwell R007895R/L Spicer 51-1005R/L
SIR-896R / SIR-896L	GRADE 8 Inner Thread Depth 1-1/4" Steel/Steel OR Steel/Aluminum Y-Suffix Yellow Zinc Z-Suffix Clear Zinc	1-1/8" - 16	3/4" - 16	2-9/16"	Batco 13-3028R/L Budd 35336/7 BWP M-130/1 Euclid E-7896R/L Leland W-620/1 NWRA X1835/6 Rockwell R007896R/L Spicer 51-1006R/L
SIR-897R / SIR-897L	GRADE 8 Inner Thread Depth 1-7/8" Steel/Steel OR Steel/Aluminum Y-Suffix Yellow Zinc Z-Suffix Clear Zinc	1-1/8" - 16	3/4" - 16	3-1/16"	Batco 13-3029R/L Budd 88013/4 BWP M-132/3 Euclid E-7897R/L Leland W-616/7 NWRA X1407/8 Rockwell R007897R/L Spicer 51-1007R/L
SIR-978R / SIR-987L	GRADE 8 Inner Thread Depth 1-15/16" Full Inner Thread Aluminum/Aluminum Clear Zinc	1-1/8" - 16	3/4" - 16	3-1/16"	Alcoa 5956R/L Batco 13-3034R/L BWP Euclid E-5978R/L Leland NWRA X1873/4 Rockwell Spicer 51-1011R/L
SIR-988R / SIR-988L	GRADE 8 Inner Thread Depth 1-15/16" Aluminum/Aluminum Y-Suffix Yellow Zinc Z-Suffix Clear Zinc	1-1/8" - 16	3/4" - 16	3-1/16"	Alcoa 5988R/L Batco 13-3026R/L BWP M-2400/1 Euclid E-5988R/L Leland W-486/7 NWRA X2138/9 Rockwell R005988R/L Spicer 51-1003R/L
SIR-306R / SIR-306L	METRIC Yellow Zinc	M 30 x 1.5	M 20 x 1.5	62 mm (2-7/16")	Batco 13-3130R/L Euclid E-10253R/L GMC 94039630/1 Hino 9004-23/24101 Isuzu 1-42335/6-005-0 Rockwell R003130R/L

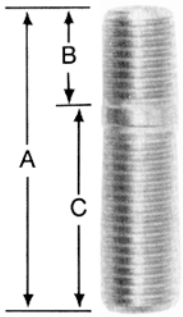
WHEEL END HARDWARE

PART NO.	NOTES	THRD	HEX	HIGH	REPLACES
SIR-891ARY / 892ALY	**GRADE 8** Outer Dual or 1-1/8" Single Mounting	1-1/8" - 16	1-1/2"	7/8"	Batco 13-3012R/L Budd 37891/2 BWP M-126/7 Euclid E-5552R/L E-5977R/L* Leland W-13/4 NWRA X1831/2 Rockwell R005552R/L Spicer 51-1012R/L
SIR-996R / 996L	Wide Base Aluminum Wheels Clear Zinc	1-1/8" - 16	1-1/2"	1"	Alcoa 5996R/L Batco 13-3055R/L BWP M-3210/1 Euclid E-5996R/L Leland W-508/9 Rockwell R005996R/L
 SIR-912R / 913L	Severe Service Outer Dual or 1-1/8" Single Mounting Yellow Zinc	1-1/8" - 16	1-1/2"	1-3/32"	Batco 13-3016R/L Budd 69912/3 BWP M-166/7 Euclid E-5579R/L Leland W-115/6 NWRA X1420/1 Rockwell R005579R/L Spicer 51-1018R/L
 SIR-888R / 889L	Single Mounting Clear Zinc	3/4" - 16	1-1/2"	7/8"	Batco 13-3013R/L Budd 37888/9 BWP M-124/5 Euclid E-5652R/L Leland W-15/6 NWRA X1803/4 Rockwell R005652R/L Spicer 51-1013R/L
SIR-995R / 995L	Wide Base Aluminum Wheels Clear Zinc	3/4" - 16	1-1/2"	1-3/8"	Alcoa 5995R/L Batco 13-3054R/L BWP M-3208/9 Euclid E-5995R/L Leland W-506/7 Rockwell R005995R/L
 SIR-304R / 304L	**METRIC** Outer Dual Mounting Yellow Zinc	M 30 x 1.5	41 mm (1-5/8")	25 mm (1")	Batco 13-3131R/L Euclid E-10254R/L Hino 9004-21112 9004-22104 Isuzu 1-42333/4-023-0

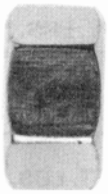
WHEEL END HARDWARE

PART NO.	NOTES	THRD	HEX	HIGH	REPLACES
 SIR-333B	Metric 2-Piece Budd Unimount 10 Hub Piloted Wheels Phosphate Coated	M 22 x 1.5	33 mm (1-19/64")	32 mm	Batco 13-3052 Budd 106333 BWP M-3203 Euclid E-9318 Leland W-498 NWRA X2156 Rockwell Spicer 51-1033
 SIR-333BT	Metric 2-Piece Budd Unimount 10 Hub Piloted Wheels Teflon Coated	M 22 x 1.5	33 mm (1-19/64")	32 mm	Euclid E-6000 Rockwell R006000
SIR-881M	Metric 2-Piece Motor Wheel WHD - 8 Hub Piloted Wheels Teflon Coated	M 22 x 1.5	38 mm (1-1/2")	35 mm (1-3/8")	Batco 13-3050 BWP M-3207 Euclid E-5991 Leland W-492 Motor Wheel 88881 NWRA X2143 Rockwell R005991 Spicer 51-1032
SIR-920	Metric 2-Piece Alcoa Hub Piloted Wheels Teflon Coated	M 22 x 1.5	32.75 mm (1-9/32")	26 mm (1-1/32")	Alcoa 39691/39949 Batco 13-3057 BWP Euclid E-9020 Leland W-525 NWRA X2159 Rockwell R009020 Spicer 51-1034
 SIR-919	Metric 2-Piece Teflon Coated	M 20 x 1.5	30 mm	32 mm (1-1/4")	Batco 13-3114 BWP Euclid E-10235 Ford E6HZ1120B GM 15642921 Leland W-619 NWRA X2081 Rockwell Volvo 947971-8
 SIR-921	2-Piece General Motors BUS Phosphate Coated	7/8" - 14	1-5/16"	7/8"	Batco 13-3058 BWP Euclid E-9021 GM 2071619 Leland W-623 NWRA Rockwell R009021 Spicer

WHEEL END HARDWARE



GRADE 8	PART NO.	THRD	A	B	C	REPLACES
	SIR-654	5/8" - 11	2-3/4"	7/8"	1-11/16"	Batco 13-6002 BWP M-38 Dayton 08-006654 Euclid E-4958 Leland W-5 NWRA B601 Rockwell R004958 Spicer 53-1500
	SIR-715	3/4" - 10	3"	1-1/16"	1-3/4"	Batco 13-6003 BWP M-39 Dayton 08-005715 Euclid E-4956A Leland W-6 NWRA B612 Rockwell R004956A Spicer 53-1501
	SIR-411	3/4" - 10	3-1/8"	1-1/16"	1-7/8"	Batco 16-6008 BWP M-1102 Dayton 08-204734 Euclid E-5706 Leland W-246 NWRA B614 Rockwell R005706 Spicer 53-1503

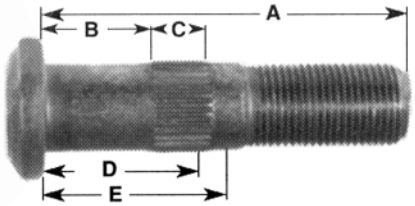
GRADE 5	PART NO.	THRD	HEX	HIGH	REPLACES
 Flat Face Clear Zinc	SIR-149	5/8" - 11	1-1/16"	19/32"	Batco 13-8003 BWP M-43 Dayton 08-005149 Euclid E-4962 Leland W-7 NWRA N26 Rockwell R004962 Spicer 53-1560
	SIR-716	3/4" - 10	1-1/4"	23/32"	Batco 13-8004 BWP M-45 Dayton 08-005716 Euclid E-4963 Leland W-8 NWRA N40 Rockwell R004963 Spicer 53-1561
Double Ball Face Clear Zinc	SIR-716A	3/4" - 10	1-1/4"	23/32"	Batco 13-8005 BWP M-1145 Erie 5248U Euclid E-5762 Leland W-221 NWRA N43 Rockwell R005762 Spicer 53-1566

Dayton Parts/BATCO Replacement Parts For:

3/4"-16 HEADED STUDS

Thread Size	3/4"-16	Body Dia.	.782/.786"	Drum Shoulder	None

Serration Dia. .810/820"
Serrations 30
Application GUNITE
Note:



"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
2-5/16" (2.31)	5/32" (.16)	1/2" (.50)	3/4" (.75)	1" (1.00)	DPI-13-1145R/L (Grade 8)
2-1/2" (2.50)	5/32" (.16)	1/2" (.50)	3/4" (.75)	1" (1.00)	DPI-13-1131R/L (Grade 8)
2-23/32" (2.71)	1/4" (.25)	1/2" (.50)	1-3/32" (1.09)	1-9/32" (1.28)	DPI-13-1133R/L (Grade 8)
2-15/16" (2.94)	7/32" (.21)	1/2" (.50)	1-5/16" (1.31)	1-17/32" (1.53)	DPI-13-1128R/L (Grade 8)
3" (3.00)	1" (1.00)	1/2" (.50)	1-19/32" (1.59)	1-13/16" (1.81)	DPI-13-1126R/L (Grade 8)
3-1/8" (3.12)	1/4" (.25)	1 /2" (.50)	1-11/32" (1.34)	1-17/32" (1.53)	DPI-13-1146R/L (Grade 8)
3-3/16" (3.18)	1/4" (.25)	1/2" (.50)	1-13/32" (1.40)	1-9/16" (1.56)	DPI-13-1135R/L (Grade 8)
3-1/4" (3.25)	29/32" (.90)	1/2" (.50)	1-11/16" (1.68)	2" (2.00)	DPI-13-1136R/L (Grade 8)
3-1/4" (3.25)	15/16" (.93)	1/2" (.50)	1-3/4" (1.75)	1-31/32" (1.96)	DPI-13-1124R/L (Grade 8)
3-11/32" (3.34)	29/32" (.90)	1/2" (.50)	1-29/32" (1.90)	2-7/32" (2.21)	DPI-13-1130R/L (Grade 8)
3-3/8" (3.37)	1/4" (.25)	1/2" (.50)	1-9/32" (1.28)	1-17/32" (1.53)	DPI-13-1129R/L (Grade 8)
3-1/2" (3.50)	1" (1.00)	1/2" (.50)	1-11/16" (1.68)	2" (2.00)	DPI-13-1147R/L (Grade 8)
3-7/8" (3.87)	1" (1.00)	1/2" (.50)	2-1/16" (2.06)	2-7/32" (2.21)	DPI-13-1139R/L (Grade 8)

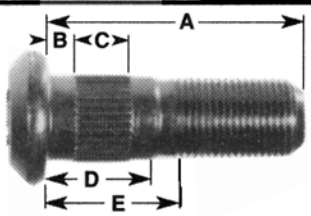
dayton parts BATCO

Dayton Parts/BATCO Replacement Parts For:

3/4"-16 HEADED STUDS

Thread Size	3/4"-16	Body Dia.	.783/.786"	Drum Shoulder	None

Serration Dia. .810/820"
Serrations 36
Application BUDD/ROCKWELL
Note:



"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
2-1/8" (2.12)	1/4" (.25)	1/4" (.25)	3/4" (.75)	1-1/16" (1.06)	DPI-13-1101R/L (Grade 8)
2-3/8" (2.37)	1/4" (.25)	1/2" (.50)	1" (1.00)	1-11/32" (1.34)	DPI-13-1102R/L (Grade 8)
2-5/8" (2.62)	5/16" (.31)	1/2" (.50)	1-1/4" (1.25)	1-9/16" (1.56)	DPI-13-1103R/L (Grade 8)
2-7/8" (2.87)	1/4" (.25)	1/2" (.50)	1-1/2" (1.50)	1-27/32" (1.84)	DPI-13-1107R/L (Grade 8)

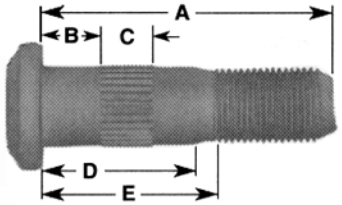
Dayton Parts BATCO

Dayton Parts/BATCO Replacement Parts For:

3/4"-16 HEADED STUDS

Thread Size	3/4"-16	Body Dia.	.783/.786"	Drum Shoulder	.788/.806"

Serration Dia. .810/820"
Serrations 36
Application BUDD
Note: Use with inboard mounted drums only



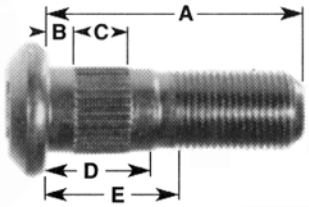
"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
2-5/8" (2.62)	7/16" (.43)	1/2" (.50)	1-1/4" (1.25)	1-9/16" (1.56)	DPI-13-1112R/L (Grade 8)
2-7/8" (2.87)	9/16" (.56)	1/2" (.50)	1-1/2" (1.50)	1-13/16" (1.81)	DPI-13-1104R/L (Grade 8)
3" (3.00)	9/16" (.56)	1/2" (.50)	1-1/2" (1.50)	1-13/16" (1.81)	DPI-13-1116R/L (Grade 8)
3-1/8" (3.12)	9/16" (.56)	1/2" (.50)	1-3/4" (1.75)	2-1/16" (2.06)	DPI-13-1105R/L (Grade 8)
3-3/8" (3.37)	3/8" (.37)	1/2" (.50)	2" (2.00)	2-5/16" (2.31)	DPI-13-1108R/L (Grade 8)
3-3/8" (3.37)	9/16" (.56)	1/2" (.50)	2" (2.00)	2-5/16" (2.31)	DPI-13-1113R/L (Grade 8)
3-5/8" (3.62)	9/16" (.56)	1/2" (.50)	2-1/4" (2.25)	2-9/16" (2.56)	DPI-13-1106R/L (Grade 8)
3-7/8" (3.87)	9/16" (.56)	1/2" (.50)	2-1/2" (2.50)	2-13/16" (2.81)	DPI-13-1110R/L (Grade 8)

Dayton Parts/BATCO Replacement Parts For:

3/4"-16 HEADED STUDS

Thread Size	3/4"-16	Body Dia.	.783/.789"	Drum Shoulder	None

Serration Dia. .810/820"
Serrations 36
Application WEBB
Note:



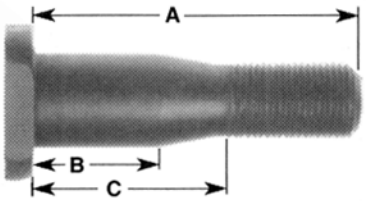
"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
2-3/8" (2.37)	1/4" (.25)	1/2" (.50)	7/8" (.87)	1-11/32" (1.34)	DPI-**13-1177R/L** (Grade 8)
2-23/32" (2.71)	5/16" (.31)	1/2" (.50)	1-3/8" (1.37)	1-23/32" (1.71)	DPI-**13-1144R/L** (Grade 8)
2-31/32" (2.96)	9/16" (.56)	1/2" (.50)	1-13/32" (1.40)	1-29/32" (1.90)	DPI-**13-1122R/L** (Grade 8)
3-3/8" (3.37)	9/16" (.56)	1/2" (.50)	1-13/32" (1.40)	1-23/32" (1.71)	DPI-**13-1140R/L** (Grade 8)
3-23/32" (3.71)	9/16" (.56)	1/2" (.50)	2-1/8" (2.12)	2-3/8" (2.37)	DPI-**13-1179R/L** (Grade 8)
3-7/8" (3.87)	3/4" (.75)	1/2" (.50)	2-11/32" (2.34)	2-19/32" (2.59)	DPI-**13-1178R/L** (Grade 8)

Dayton Parts/BATCO Replacement Parts For:

3/4"-16 HEADED STUDS

Thread Size	3/4"-16	Body Dia.	.908/.912"	Drum Shoulder	None

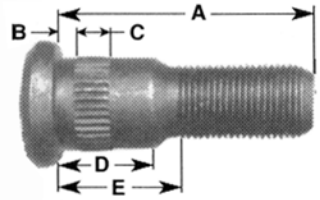
Serration Dia. None
Serrations None
Application CON-MET
Note: Clipped Head



"A" OVERALL LENGTH	"B" SHOULDER LENGTH	"C" MAX TO FIRST FULL THREAD	PART NO.
3-5/32" (3.15)	1-3/16" (1.18)	1-29/32" (1.90)	DPI-13-2386R/L (Grade 8)
3-13/32" (3.40)	1-7/16" (1.43)	2-3/32" (2.09)	DPI-13-2387R/L (Grade 8)

Thread Size	3/4"-16	Body Dia.	.909/.912"	Drum Shoulder	None

Serration Dia. .940/.950"
Serrations 31
Application BUDD
Note: 13-1586R/L for dual aluminum wheels only.



"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
2-19/32" (2.59)	3/16" (.18)	13/32" (.40)	31/32" (.96)	1-9/32" (1.28)	DPI-13-1585R/L (Grade 8)
3" (3.00)	3/16" (.18)	1/2" (.50)	1" (1.00)	1-5/16" (1.31)	DPI-13-1586R/L (Grade 8)

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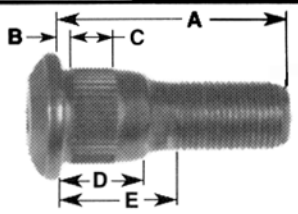
Dayton Parts/BATCO Replacement Parts For:

3/4"-16 HEADED STUDS

Thread Size	3/4"-16	Body Dia.	.971/.975"	Drum Shoulder	None

Serration Dia. .998/1.006"
Serrations 36
Application BUDD/PACCAR/ROCKWELL
Note:



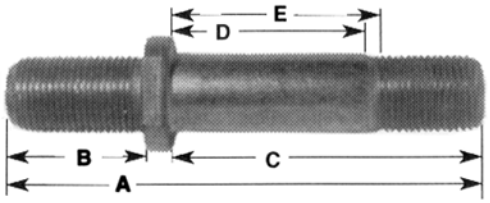
"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
2-3/8" (2.37)	1/8" (.12)	7/16" (.43)	13/16" (.81)	1-7/32" (1.21)	DPI-13-1201R/L (Grade 8)
2-9/16" (2.56)	1/8" (.12)	7/16" (.43)	13/16" (.81)	1-13/32" (1.40)	DPI-13-1202R/L (Grade 8)
2-9/16" (2.56)	9/32" (.28)	7/16" (.43)	15/16" (.93)	1-5/16" (1.31)	DPI-13-1205R/L (Grade 8)
2-11/16" (2.68)	1/8" (.12)	7/16" (.43)	13/16" (.81)	1-1/32" (1.03)	DPI-13-1206R/L (Grade 8)
2-23/32" (2.71)	1/8" (.12)	7/16" (.43)	13/16" (.81)	1-9/16" (1.56)	DPI-13-1203R/L (Grade 8)
3-1/8" (3.12)	1/8" (.12)	7/16" (.43)	13/16" (.81)	1-13/16" (1.81)	DPI-13-1204R/L (Grade 8)
3-1/8" (3.12)	1/4" (.25)	1" (1.00)	1-3/8" (1.37)	1-7/8" (1.87)	DPI-13-1230R/L (Grade 8)
3-11/32" (3.34)	5/8" (.62)	1/2" (.50)	1-13/16" (1.81)	2-3/16" (2.18)	DPI-13-1233R/L (Grade 8)
3-3/8" (3.37)	1/4" (.25)	1/2" (.50)	1-3/8" (1.37)	1-23/32" (1.71)	DPI-13-1259R/L (Grade 8)
3-3/8" (3.37)	1/4" (.25)	1" (1.00)	1-3/8" (1.37)	2" (2.00)	DPI-13-1231R/L (Grade 8)
3-5/8" (3.62)	1/8" (.12)	7/16" (.43)	13/16" (.81)	1-15/32" (1.46)	DPI-13-1208R (Grade 8)
3-3/4" (3.75)	1/4" (.25)	9/16" (.56)	1-3/8" (1.37)	1-21/32" (1.65)	DPI-13-1260R/L (Grade 8)
3-3/4" (3.75)	1/4" (.25)	1" (1.00)	1-3/8" (1.37)	1-31/32" (1.96)	DPI-13-1232R/L (Grade 8)

Dayton Parts/BATCO Replacement Parts For:

3/4"-16 STUDS WITH FLATS

Thread Size Wheel	3/4"-16	Body Dia.	.783/.786"	Thread Size Drum	3/4"-16

Serration Dia. None
Serrations None
Application BUDD/CON-MET/WEBB
Note:



"A" OVERALL LENGTH	"B" STAND-OUT LENGTH	"C" DRUM SIDE LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
3-1/8" (3.12)	1-11/32" (1.34)	1-19/32" (1.59)	5/8" (.62)	13/16" (.81)	DPI-13-1001R/L (Grade 8)
3-19/32" (3.59)	1-11/32" (1.34)	2-1/16" (2.06)	7/8" (.87)	1-1/16" (1.06)	DPI-13-1002R/L (Grade 8)
3-21/32" (3.65)	1-7/8" (1.87)	1-19/32" (1.59)	1/2" (.50)	5/8" (.62)	DPI-13-1050R (Grade 8)
3-23/32" (3.71)	1-11/32" (1.34)	2-3/16" (2.18)	1-1/16" (1.06)	1-7/32" (1.21)	DPI-13-1003R/L (Grade 8)
3-31/32" (3.96)	1-11/32" (1.34)	2-7/16" (2.43)	1-5/32" (1.15)	1-11/32" (1.34)	DPI-13-1004R/L (Grade 8)
4-1/32" (4.03)	1-11/32" (1.34)	2-1/2" (2.50)	1-9/32" (1.28)	1-13/32" (1.40)	DPI-13-1005R/L (Grade 8)
4-7/32" (4.21)	1-11/32" (1.34)	2-11/16" (2.68)	1-7/16" (1.43)	1-19/32" (1.59)	DPI-13-1006R/L (Grade 8)
4-7/32" (4.21)	1-21/32" (1.65)	2-3/8" (2.37)	1-1/32" (1.03)	1-7/32" (1.21)	DPI-13-1038R/L (Grade 8)
4-11/32" (4.34)	1-11/32" (1.34)	2-13/16" (.81)	1-25/32" (1.78)	1-15/16" (1.93)	DPI-13-1007R/L (Grade 8)
4-1/2" (4.50)	1-3/4" (1.75)	2-3/8" (2.37)	1-1/32" (1.03)	1-7/32" (1.21)	DPI-13-1037R/L (Grade 8)
4-17/32" (4.53)	1-11/32" (1.34)	3" (3.00)	1-5/16" (1.31)	1-9/16" (1.56)	DPI-13-1016R/L (Grade 8)
4-17/32" (4.53)	1-11/32" (1.34)	3" (3.00)	1-29/32" (1.90)	2-3/32" (2.09)	DPI-13-1008R/L (Grade 8)
4-23/32" (4.71)	1-11/32" (1.34)	3-3/16" (3.18)	2-5/32" (2.15)	2-5/16" (2.31)	DPI-13-1014R/L (Grade 8)

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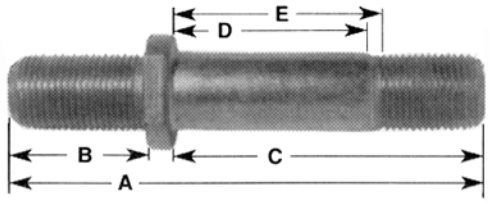
Dayton Parts/BATCO Replacement Parts For:

3/4"-16 STUDS WITH FLATS

Thread Size Wheel	3/4"-16	Body Dia.	.783/.786"	Thread Size Drum	3/4"-16

Serration Dia. None
Serrations None
Application BUDD/CON-MET/WEBB
Note:



"A" OVERALL LENGTH	"B" STAND-OUT LENGTH	"C" DRUM SIDE LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
4-27/32" (4.84)	1-11/32" (1.34)	3-5/16" (3.31)	1-21/32" (1.65)	1-15/16" (1.93)	DPI-13-1018R/L (Grade 8)
4-29/32" (4.90)	1-11/32" (1.34)	3-3/8" (3.37)	1-25/32" (1.78)	2-1/32" (2.03)	DPI-13-1017R/L (Grade 8)
5-1/32" (5.03)	1-11/32" (1.34)	3-1/2" (3.50)	2-15/32" (2.46)	2-5/8" (2.62)	DPI-13-1009R/L (Grade 8)
5-3/16" (5.18)	2" (2.00)	3" (3.00)	1-5/16" (1.31)	1-9/16" (1.56)	DPI-13-1019R/L (Grade 8)
5-1/4" (5.25)	1-3/4" (1.75)	3-5/16" (3.31)	1-21/32" (1.65)	1-15/16" (1.93)	DPI-13-1042R/L (Grade 8)
5-5/16" (5.31)	2-3/8" (2.37)	2-3/4" (2.75)	1-1/4" (1.25)	1-1/2" (1.50)	DPI-13-1040R/L (Grade 8)
5-9/16" (5.56)	2" (2.00)	3-3/8" (3.37)	1-3/4" (1.75)	1-15/16" (1.93)	DPI-13-1021R/L (Grade 8)

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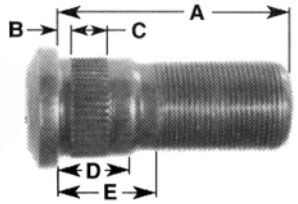
Dayton Parts/BATCO Replacement Parts For:

1-1/8"-16 HEADED STUDS

Thread Size	1-1/8"-16	Body Dia.	1.218/1.222"	Drum Shoulder	None

Serration Dia. 1.244/1.252"
Serrations 48
Application BUDD/MW/PACCAR
ROCKWELL/WEBB
Note:



"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
3-15/32" (3.46)	1/8" (.12)	7/16" (.43)	7/8" (.87)	1-9/16" (1.56)	DPI-13-1621R/L (Grade 8)
3-1/2" (3.50)	1/4" (.25)	1/2" (.50)	1-3/8" (1.37)	1-5/8" (1.62)	DPI-13-1619R/L (Grade 8)
3-9/16" (3.56)	5/16" (.31)	1" (1.00)	1-7/16" (1.43)	1-13/16" (1.81)	DPI-13-1617R/L (Grade 8)
3-9/16" (3.56)	1" (1.00)	1/2" (.50)	1-9/16" (1.56)	1-27/32" (1.84)	DPI-13-1625R/L (Grade 8)
3-5/8" (3.62)	1/4" (.25)	3/4" (.75)	1-7/16" (1.43)	1-3/4" (1.75)	DPI-13-1626R/L (Grade 8)
3-5/8" (3.62)	9/16" (.56)	3/4" (.75)	1-13/16" (1.81)	2-1/8" (2.12)	DPI-13-1616R/L (Grade 8)
3-3/4" (3.75)	1/8" (.25)	9/16" (.56)	1-7/32" (1.21)	1-1/2" (1.50)	DPI-13-1618R/L (Grade 8)
3-3/4" (3.75)	5/8" (.62)	7/16" (.43)	1-3/8" (1.37)	2-1/16" (2.06)	DPI-13-1623R/L (Grade 8)
4" (4.00)	19/32" (.59)	3/4" (75)	1-5/16" (1.31)	2-3/16" (2.18)	DPI-13-1627R/L (Grade 8)

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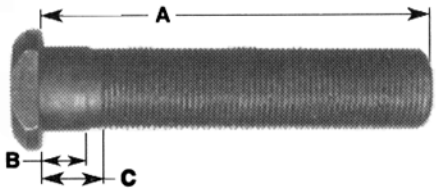
Dayton Parts/BATCO Replacement Parts For:

M22 x 1.5 HEADED STUDS

Thread Size	M22 x 1.5	Body Dia.	.886/.889"	Drum Shoulder	None

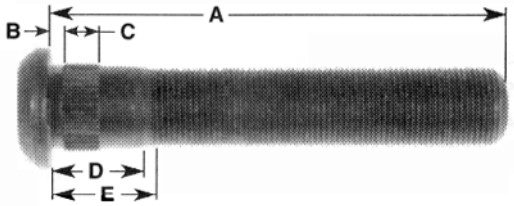
Serration Dia. None
Serrations None
Application WALTHER EMC
Note: Clipped Head



"A" OVERALL LENGTH	"B" SHOULDER LENGTH	"C" MAX TO FIRST FULL THREAD	PART NO.
3-11/32" (3.34)	15/32" (.46)	7/8" (.87)	DPI-13-1593 (Grade 10.9)
4-3/16" (4.18)	15/32" (.46)	7/8" (.87)	DPI-13-1594 (Grade 10.9)

Thread Size	M22 x 1.5	Body Dia.	.887/.890"	Drum Shoulder	None

Serration Dia. .929/.939"
Serrations 36
Application DAYTON/WALTHER
Note:



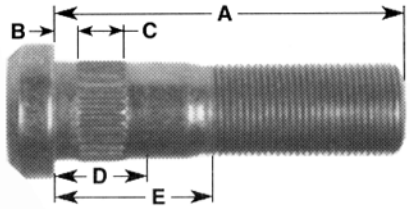
"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
3-11/32" (3.34)	1/8" (.12)	3/8" (.37)	7/8" (.87)	1-1/8" (1.12)	DPI-13-1584 (Grade 10.9)
3-23/32" (3.71)	1/8" (.12)	3/8" (.37)	7/8" (.87)	1-5/32" (1.15)	DPI-13-1587 (Grade 10.9)
4-7/8" (4.87)	1/8" (.12)	3/8" (.37)	7/8" (.87)	1-1/32" (1.03)	DPI-13-1589 (Grade 10.9)

Dayton Parts/BATCO Replacement Parts For:

M22 x 1.5 HEADED STUDS

Thread Size	M22 x 1.5	Body Dia.	.900/.904"	Drum Shoulder	None

Serration Dia. .940/.950"
Serrations 31
Application BUDD
Note:



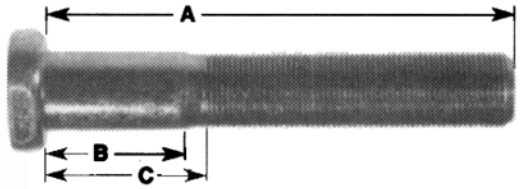
"A" OVERALL LENGTH	"B" TO THE SERRATIONS	"C" SERRATION LENGTH	"D" SHOULDER LENGTH	"E" MAX TO FIRST FULL THREAD	PART NO.
3-3/16" (3.18)	3/16" (.18)	13/32" (.40)	1-7/32" (1.21)	1-9/16" (1.56)	DPI-13-1580 (Grade 10.9)
3-21/32" (3.65)	3/16" (.18)	13/32" (.40)	1-7/32" (1.21)	1-9/16" (1.56)	DPI-13-1581 (Grade 10.9)
4-7/16" (4.43)	3/16" (.18)	13/32" (.40)	1-7/32" (1.21)	1-9/16" (1.56)	DPI-13-1582 (Grade 10.9)

Dayton Parts/BATCO Replacement Parts For:

M22 x 1.5 HEADED STUDS

Thread Size	M22 x 1.5	Body Dia.	.908/.912"	Drum Shoulder	NONE

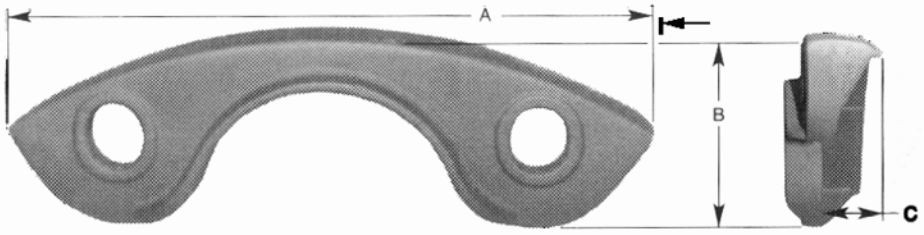
Serration Dia. None
Serrations None
Application CON-MET
Note: Clipped Head



"A" OVERALL LENGTH	"B" SHOULDER LENGTH	"C" MAX TO FIRST FULL THREAD	PART NO.
4-3/8" (4.37)	1-9/16" (1.56)	1-29/32" (1.90)	DPI-13-1591 (Grade 10.9)
4-13/32" (4.96)	1-9/16" (1.56)	1-29/32" (1.90)	DPI-13-1592 (Grade 10.9)
5-1/4" (5.25)	1-9/16" (1.56)	1-29/32" (1.90)	DPI-13-1590 (Grade 10.9)

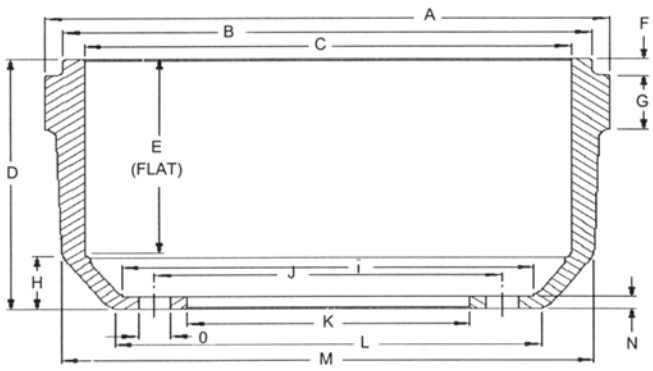
Dayton Parts/BATCO Replacement Parts For:

3/4" STUD DUAL TRAILER CLAMPS



STUD SIZE	A WIDTH	B LENGTH	C REACH	PART NO.	APPLICATION
3/4"-10 (.75)	7-3/4" (7.75)	1-13/16" (1.81)	1-1/4" (1.25)	DPI-13-4807 (15" Wheel)	Webb
3/4"-10 (.75)	10-5/8" (10.62)	2-1/2" (2.50)	1-1/8" (1.12)	DPI-13-4801 (20" Wheel)	Webb
3/4"-10 (.75)	12-3/8" (12.37)	2-5/16" (2.31)	1-1/16" (1.06)	DPI-13-4802 (22" Wheel)	Webb

NOTES



A. Overall Diameter of Drum
B. Dust Shield Recess Diameter, if applicable
C. Brake Face Diameter
D. Overall Depth
E. Brake Surface Flat
F. Depth of Dust Shield Recess
G. Squeeler Band Thickness
H. Distance from Outside of Backface to Start of Taper
I. Inside Finished Diameter
J. Bolt Circle Diameter
K. Pilot Diameter
L. Outside Finished Diameter
M. Diameter at Taper
N. Backplate Thickness
O. Bolt Holes: Number and Size

16.50" BRAKE SURFACE DIAMETER

(C) Brake Surface Diameter	(D) Over All Depth	(E) Brake Surface Flat	(K) Pilot Diameter	(J) Bolt Circle Diameter	(O) Bolt Holes No.	(O) Bolt Holes Size	Drum Number	Weight	Service Rating Code (A)	Type	Mount (B)	Special Information
16.50	8.38	7.38	9.44	11.25	10	.81	**67537F**	102	2	G	I	
16.50	8.38	7.38	9.44	11.00	5	.78	**67598F****	121	3	G	I	
					6	.66						
16.50	8.40	7.40	10.50	12.75	5	.78	**63031B**	114	2	G	I	
16.50	8.44	7.37	11.25	12.75	5/6	.78	**68981B**	100	2	G	I	
16.50	8.44	7.37	11.25	12.75	5	.78	**68982F**	102	2	G	I	
					6	.66						
16.50	8.44	7.37	11.25	12.75	5	.78	**68983F**	102	2	G	I	
					5	.66						
16.50	8.44	7.24	11.25	12.75	5/6	.78	**61731F**	124	3	I	I	
16.50	8.50	7.32	8.66	11.25	10	.81	**61791F**	106	2	B	I	
16.50	8.50	7.40	11.00	12.50	5/6	.66	**61780F**	102	2	I	I	
16.50	8.53	7.44	11.42	13.19	6	.66	**68986B**	102	2	G	I	
16.50	8.56	5.44	8.78	11.25	10	.94	**68985F**	85	2	H	O	
16.50	8.56	5.44	8.66	11.25	10	1.28	**68988F**	86	2	H	O	
16.50	8.56	5.44	8.78	11.25	10	1.28	**68989F**	84	2	H	O	
16.50	8.66	7.64	9.50	11.25	10	.81	**67415B***	87		O	I	
16.50	8.67	7.67	8.78	11.25	10	1.03	**67599F**	123	3	G	I	
16.50	8.69	7.63	10.50	12.75	5/6	.78	**62997F**	100	2	G	I	
16.50	8.75	7.31	9.00	11.25	10	.81	**68731F**	105	2	G	I	
16.50	8.75	7.31	9.00	11.25	10	1.06	**68733F**	106	2	G	I	
16.50	8.75	7.44	9.50	11.25	10	.81	**68730F**	107	2	G	I	
16.50	8.75	7.44	9.50	11.25	5/6	.81	**68732F**	106	2	G	I	
16.50	8.75	7.44	9.50	11.25	10	1.00	**68734F**	105	2	G	I	
16.50	8.75	7.44	9.44	11.00	5	.78	**68760F**	106	2	G	I	
16.50	8.75	7.44	9.50	11.25	5	.81	**68765F**	106	2	G	I	
					6	.66						
16.50	8.75	7.50	11.00	12.50	5/6	.66	**61727F**	113	2	I	I	
16.50	8.78	6.72	9.75	11.25	5	.66	**68036F**	105	2	I	I	Notched
16.50	8.78	6.72	9.75	11.25	10	.81	**68037F**	104	3	I	I	Notched
16.50	8.78	7.41	11.25	12.75	5/6	.66	**61728F**	106	2	I	I	
16.50	8.78	7.41	11.25	12.75	5	.78	**61730F**	106	2	I	I	
					6	.66						
16.50	8.78	7.41	11.25	12.75	5/6	.78	**62240F**	99	2	G	I	Dual drill 5 & 6 holes @ .78 dia.
16.50	8.81	7.50	9.44	11.25	10	.81	**68921F**	107	2	J	I	
16.50	8.84	5.75	8.53	11.25	10	1.28	**65739B**	96	2	L	O	
16.50	8.88	7.62	11.00	12.75	6	.66	**61733F**	135	3	I	I	

(A) Service Rating Code = 1-Standard Duty 2-Heavy Duty 3-Extra Heavy Duty
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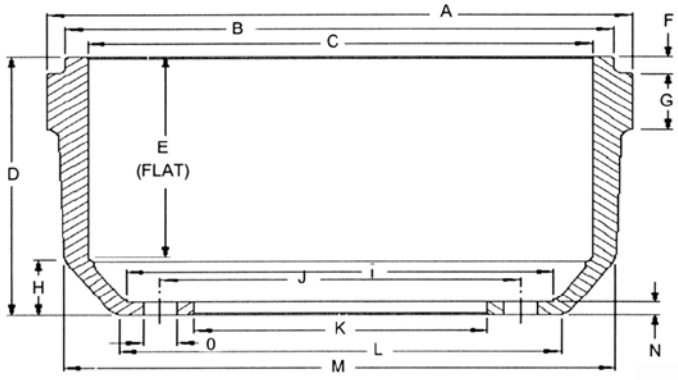
* Centrifuse® Drum



A. Overall Diameter of Drum
B. Dust Shield Recess Diameter, if applicable
C. Brake Face Diameter
D. Overall Depth
E. Brake Surface Flat
F. Depth of Dust Shield Recess
G. Squeeler Band Thickness
H. Distance from Outside of Backface to Start of Taper
I. Inside Finished Diameter
J. Bolt Circle Diameter
K. Pilot Diameter
L. Outside Finished Diameter
M. Diameter at Taper
N. Backplate Thickness
O. Bolt Holes: Number and Size

16.50" BRAKE SURFACE DIAMETER

(C) Brake Surface Diameter	(D) Over All Depth	(E) Brake Surface Flat	(K) Pilot Diameter	(J) Bolt Circle Diameter	(O) Bolt Holes No.	(O) Bolt Holes Size	Drum Number	Weight	Service Rating Code (A)	Type	Mount (B)	Special Information
16.50	8.92	7.40	9.38	11.25	10	.81	**68918F**	110	3	I	I	
16.50	9.00	7.50	11.25	12.75	5	.78	**68903F**	100	2	I	I	
16.50	9.00	7.62	9.50	11.25	5/6	.78	**68012F**	112	2	I	I	Notched
16.50	9.00	7.62	9.50	11.25	10	.81	**68013F**	111	2	I	I	Notched
16.50	9.06	6.94	9.44	11.25	10	.84	**66096F**	100	2	H	I	
16.50	9.15	5.94	11.25	13.19	10	.97	**66350F**	94	2	K	O	
16.50	9.19	5.62	9.00	11.25	10	1.28	**64035F**	131	2	J	O	
16.50	9.22	5.50	8.53	11.25	10	1.28	**65650B**	101	2	I	O	
16.50	9.22	5.50	9.00	11.25	10	1.28	**65651B**	100	2	I	O	
16.50	9.22	5.50	8.78	11.25	10	.94	**65654B**	99	3	I	O	
16.50	9.25	6.25	8.66	11.25	10	.97	**65173B**	125	3	I	O	
16.50	9.38	5.68	9.00	11.25	10	1.28	**65175F**	102	3	L	O	Notched
16.50	9.38	6.38	8.74	11.25	10	1.28	**65165B**	124	3	I	O	
16.50	9.50	7.38	9.44	11.25	10	.84	**66200F**	120	3	I	I	
16.50	9.50	7.38	9.44	11.25	10	.84	**62200F**	109	2	H	I	
16.50	9.50	7.38	11.11	13.19	10	1.06	**66231F**	114	3	I	I	
16.50	9.50	7.50	11.05	13.19	10	1.03	**66283F**	116	3	G	I	
16.50	9.52	6.27	8.78	11.25	10	.94	**65163F**	123	3	I	O	
16.50	9.53	7.75	11.25	12.75	5/6	.66	**68922F**	117	3	I	I	
16.50	9.65	6.62	11.25	13.19	10	.94	**66366F**	107	3	L	O	
16.50	9.66	7.58	9.44	11.25	10	.81	**67407B***	88		O	I	
16.50	9.69	7.31	8.78	11.25	10	1.03	**62670B**	117	3	I	O	
16.50	9.69	7.31	8.78	11.25	10	1.28	**62671F**	117	3	I	O	
16.50	9.75	6.50	8.53	11.25	10	1.28	**65166B**	126	3	I	O	
16.50	9.75	6.50	8.78	11.25	10	.94	**65162F**	125	3	I	O	
16.50	9.75	6.50	9.00	11.25	10	1.28	**65167B**	125	3	I	O	
16.50	9.75	6.94	12.75	11.25	10	1.28	**66881B**	116	3	M	O	9.44 Hub Bore
16.50	9.84	6.38	8.78	11.25	10	.94	**65179B**	109	3	L	O	
16.50	9.88	6.62	8.78	11.25	10	.94	**65170B**	122	3	L	O	Notched
16.50	9.88	6.62	9.00	11.25	10	1.28	**65169B**	123	3	K	O	Notched
16.50	10.00	9.00	9.44	11.00	5	.78	**68946F**	119	2	G	I	
					6	.66						
16.50	10.19	7.38	8.53	11.25	10	.94	**66828F**	117	2	K	O	
16.50	10.19	7.38	8.78	11.25	10	.94	**66826F**	116	2	K	O	Oil Groove
16.50	10.19	7.38	12.75	11.25	10	.81	**66886B**	125	3	M	O	9.44 Hub Bore
16.50	10.19	7.38	12.75	11.25	10	1.28	**66899B**	124	3	M	O	9.44 Hub Bore
16.50	10.19	7.38	13.00	11.25	10	1.28	**66897F**	124	3	M	O	9.44 Hub Bore
16.50	10.19	9.00	9.50	11.25	10	.81	**68927F**	129	2	G	I	
16.50	10.19	9.00	9.50	11.25	5	.81	**68931F**	129	2	G	I	
					6	.66						
16.50	10.25	7.25	9.38	11.25	10	.81	**66857F**	106	2	K	O	

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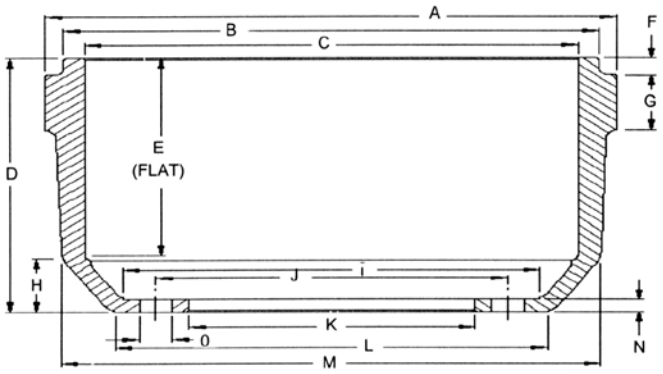

A. Overall Diameter of Drum
B. Dust Shield Recess Diameter, if applicable
C. Brake Face Diameter
D. Overall Depth
E. Brake Surface Flat
F. Depth of Dust Shield Recess
G. Squeeler Band Thickness
H. Distance from Outside of Backface to Start of Taper
I. Inside Finished Diameter
J. Bolt Circle Diameter
K. Pilot Diameter
L. Outside Finished Diameter
M. Diameter at Taper
N. Backplate Thickness
O. Bolt Holes: Number and Size

WEBB

16.50" BRAKE SURFACE DIAMETER

(C) Brake Surface Diameter	(D) Over All Depth	(E) Brake Surface Flat	(K) Pilot Diameter	(J) Bolt Circle Diameter	(O) Bolt Holes No.	(O) Bolt Holes Size	Drum Number	Weight	Service Rating Code (A)	Type	Mount (B)	Special Information
16.50	10.25	7.38	8.53	11.25	10	.81	**66852F**	118	3	K	O	
16.50	10.25	7.38	8.53	11.25	10	.81	**66892F**	110	2	K	O	
16.50	10.25	7.38	9.00	10.83	8	.97	**66878F**	109	2	K	O	
16.50	10.25	7.44	8.53	11.25	10	1.28	**66862F**	108	2	L	O	
16.50	10.30	7.30	8.78	11.25	10	.94	**66873F**	110	2	K	O	
16.50	10.31	7.56	11.06	13.19	10	1.03	**66626F**	113	2	K	O	
16.50	10.31	7.50	9.00	11.25	10	.81	**66865B**	112	2	K	O	
16.50	10.31	7.56	11.25	13.19	10	1.03	**66627F**	113	2	K	O	
16.50	10.35	7.54	8.53	11.25	10	.81	**66883F**	107	2	K	O	Notched
16.50	10.35	7.54	8.78	11.25	10	.94	**66867B**	107	2	K	O	Notched
16.50	10.36	7.55	9.00	11.25	10	1.03	**66868F**	112	2	K	O	
16.50	10.37	7.38	8.78	11.25	10	1.19	**66660B**	129	3	L	O	
16.50	10.37	7.46	8.78	11.25	10	.94	**66661B**	128	3	L	O	
16.50	10.38	7.50	8.66	11.25	10	1.28	**66891F**	111	2	K	O	
16.50	10.38	7.38	8.66	11.25	10	.81	**66896F**	110	2	K	O	
16.50	10.38	7.38	8.78	11.25	10	.93	**66874B**	110	2	K	O	
16.50	10.41	7.64	8.53	11.25	10	.81	**67101B***	92		K	O	
16.50	10.41	7.64	8.78	11.25	10	.96	**69996B***	91		K	O	
16.50	10.41	7.64	9.00	10.83	8	.92	**68797B***	93		K	O	
16.50	10.59	7.38	11.25	13.19	10	.97	**66250F**	115	2	L	O	
16.50	10.59	7.38	11.25	13.19	10	.97	**66251F**	111	2	L	O	
16.50	10.62	7.62	8.53	11.25	10	.81	**66853F**	122	3	K	O	
16.50	10.62	7.62	8.53	11.25	10	.81	**66893F**	111	2	K	O	
16.50	10.62	7.62	8.74	11.25	10	.81	**66890B**	115	2	K	O	
16.50	10.62	7.62	8.78	11.25	10	.94	**66864F**	115	2	K	O	
16.50	10.62	7.62	8.78	11.25	10	.94	**66884F**	122	3	K	O	
16.50	10.62	7.62	8.78	11.25	10	.94	**66843B**	121	3	K	O	Oil Groove
16.50	10.62	7.81	9.00	10.83	8	.97	**66875F**	116	2	K	O	
16.50	10.62	7.81	9.00	11.22	8	.84	**66879F**	116	2	K	O	
16.50	10.62	7.81	9.00	11.25	10	1.03	**66887B**	116	2	K	O	
16.50	10.62	7.81	9.00	11.25	10	1.28	**66888F**	119	2	K	O	
16.50	10.62	7.81	9.00	11.25	10	.81	**66895B**	113	2	K	O	
16.50	10.75	7.50	9.44	11.25	10	.81	**60876F**	115	2	L	O	
16.50	10.82	7.50	8.78	11.25	10	.94	**65670B**	117	2	K	O	Oil Groove
16.50	11.06	10.12	9.44	11.00	5	.78	**63410F**	133	2	G	I	
					6	.66						
16.50	11.08	8.14	8.74	11.25	10	.81	**64042B**	138	3	H	O	
16.50	11.10	8.61	8.78	11.25	10	1.03	**66800F**	126	2	K	O	
16.50	11.18	7.44	8.78	11.25	10	.94	**66353F**	114	2	K	O	
16.50	11.19	8.88	8.53	11.25	10	.81	**64041F**	145	3	J	O	Use with 24.5 Disc Wheel Only
16.50	11.19	8.88	9.00	11.25	10	1.28	**64057F**	148	3	J	O	
16.50	11.25	8.94	9.44	11.25	10	1.06	**68801F**	126	2	H	I	
16.50	11.25	8.94	9.44	11.25	10	.84	**68891F**	127	2	H	I	

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