

# TTC BRAKE DISC & DRUM CATALOGUE

● OVER 50 TRUCK, TRAILER & PSV APPLICATIONS

● OVER 600 REFERENCES

● COMPREHENSIVE O.E CROSS REFERENCES

Covering over 50 major truck, trailer and PSV applications with over 600 individual part number references this is the latest comprehensive Brake Disc & Drum catalogue from TTC.

To help identify Brake Discs & Drums easily, there is a comprehensive O.E to TTC cross reference at the back of each section.

If further assistance is required, please contact the TTC Technical department on 01865 384777.



Every effort was made to ensure that the contents of this catalogue was accurate at the time of print. The information is given in good faith and no liability will be accepted for damage arising from advice given in the catalogue. Products are subject to change as a result of our policy of continuous development.

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# **BRAKE D I S C**

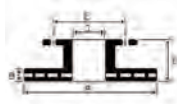
## **BRAKE**

## **D I S C**



# USER GUIDE

Please find below a detailed illustration on how to use the TTC Brake Disc section.



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

MAKE / MODEL	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Alexander PSV												
ALX100 8.1 - 8.5m	668 423 0112	80210	29835	97-99	R	324	30	157	121	192	8xM12	VDISC
ALX100 8.1 - 8.5m	670 421 0112	80209	29835	97-99	F	324	30	118	91	140	8xM12	VDISC
ALX400 10.5 - Volvo chassis	3112965/3	80317	29090	00-	F	438	45	205	127	235	10xM16	VDISC
Ayats PSV												
Bravo I, II, III - Scania Chassis	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Bravo I, II, III - Scania Chassis	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC

APPLICATION	
O E M REFERENCE	
TTC PART NUMBER	
WVA FRICTION NUMBER	
YEAR	
POSITION	
DISC DIAMETER	
DISC THICKNESS	
HUB LOCATION DIAMETER	
OVERALL HEIGHT	
P.C.D (Pitch Circle Diameter of Stud Holes)	
NUMBER AND DIAMETER OF STUD HOLES	
VDISC = VENTED, SDISC = SOLID	
EXTRA HOLES: CS = Counter Sunk, CB = Counter Bored, FOR HUB LOCATION, T = THREADED FOR REMOVAL	

**Before Fitting or Replacing Brake Discs, TTC recommends that all braking surfaces are cleaned with Brake and Clutch Cleaner to remove any grease or rust inhibitor.**



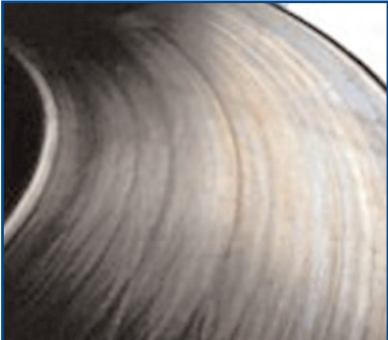
Part No	Description
TTC 30431	Brake and Clutch Cleaner 500 ml
TTC 30432	Brake and Clutch Cleaner 5 litre
TTC 30433	Brake and Clutch Cleaner 30 litre

# FAULT FINDING


TTC Brake Discs are sourced from leading manufacturers, who produce to recognised international standards.

Brake Discs should always be fitted in matched pairs with new friction material. The requirement to replace only one brake disc is an indication of a braking balance problem which will not be solved by just replacing the brake disc.


Wear		
<p><b>Appearance</b> * Worn braking surface.</p>	<p><b>Cause</b> * Normal operating conditions.</p>	<p><b>Action</b> * Check minimum thickness stamped on the outside of the disc. * Replace both discs if signs of uneven wear.</p>



Heat Craze		
<p><b>Appearance</b> * Fine, thin heat cracks.</p>	<p><b>Cause</b> * Normal heating and cooling of the disc during service.</p>	<p><b>Action</b> * If they develop deeper than 1.5mm - regrind. * Replace disc.</p>



Cracking		
<p><b>Appearance</b> * Deep surface cracks.</p>	<p><b>Cause</b> * Excessive heat.</p>	<p><b>Action</b> * Replace discs. * Check caliper operation. * Check balance between wheels, axle and trailer.</p>





Hard Spots		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Raised colour areas in the braking surface.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Occurs as a result of normal heating and cooling during service.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Remove by skimming if tolerance allows.</li> <li>* If it persists replace disc.</li> </ul>



Grooved Discs		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Scoring around the circumference of the disc.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Wear pattern on the disc.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* If the depth does not exceed 0.5mm - regrind.</li> <li>* Replace discs.</li> <li>* Check pads.</li> </ul>



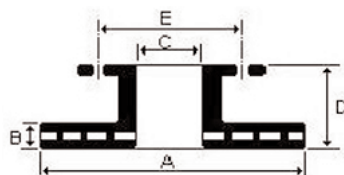
Blue Colouring		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Blue colouring on the disc surface.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* High operating temperature.</li> <li>* Hard braking.</li> <li>* Braking imbalance.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Check braking system balance</li> <li>* Check disc for thickness</li> <li>* Check caliper adjustment</li> </ul>



Friction Transfer		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Indicated by a layer of friction on the disc brake surface.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Very high temperature</li> <li>* Excessive braking</li> <li>* Brake imbalance</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Check caliper clearance and operation.</li> <li>* Check brake balance.</li> </ul>



Corrosion		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Rusting on the ABS sensors on the back of the disc.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Failure of the anti-corrosive coating on the ABS</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Remove rust on the teeth with wire brush.</li> <li>* Re-coat with anti-corrosive paint.</li> <li>* Replace disc.</li> </ul>



APPLICATION CODES  
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 T = Threaded for withdrawing

**ALEXANDER PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
ALX100 8.1 - 8.5m	668 423 0112	80210	29835	97-99	R	324	30	157	121	192	6xM12	VDISC
ALX100 8.1 - 8.5m	670 421 0112	80209	29835	97-99	F	324	30	118	91	140	6xM12	VDISC
ALX400 10.5 - Volvo chassis	3112965/3	80317	29090	00-	F	438	45	195	127	235	10xM16	VDISC

**AYATS PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Bravo I, II, III - Scania Chassis	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Bravo I, II, III - Scania Chassis	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC

**BERKHOF PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Axial 50 12m Coach - Dennis Chassis	653565	80222	29043	91-96	F	440	45	190	135	225	10xM16	VDISC
Excellence 3000HD - Scania Chassis	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Excellence 3000HD - Scania Chassis	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
Radial 12m Coach - Dennis Chassis	653565	80222	29043	91-96	F	440	45	190	135	225	10xM16	VDISC

**BMC PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Falcon 1100 City Bus	57RS300820	80149	29093	03-	F	330	34	157	124	180	12xM12	VDISC
Falcon 1100 City Bus	57RS300820	80149	29093	03-	R	330	34	157	124	180	12xM12	VDISC

**BOVA PSV**

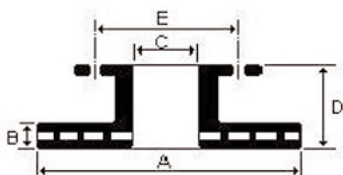
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Axial DD 138-430XE	B221412	80328	29061	97-	R	430	45	203	129	235	10xM16	VDISC
Axial DD 138-430XE	B221412	80328	29061	97-	F	430	45	203	129	235	10xM16	VDISC

**BOVA PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Futura FHD	0299095	80111	29747	86-94	F	457	48	170	119	195	10xM16	VDISC
Futura FHD - All models Exc 12.370	B204556	80327	29061	95-	F	429	45	220	131	245	20xM12	VDISC
Futura FHD - All models Exc 12.370	B221412	80328	29061	95-	F	430	45	203	129	235	10xM16	VDISC
Futura FVD	0299095	80111	29747	86-	F	457	48	170	119	195	10xM16	VDISC
Magiq HD 1 20-430XE	B221412	80328	29061	94-	F	430	45	203	129	235	10xM16	VDISC
Magiq HD 120-430XE	B221412	80328	29061	94-	R	430	45	203	129	235	10xM16	VDISC

**BPW**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
SB6000 ECO Plus	0308834020	0308834020	29094	98-	T	377	45	290	160	335	10x23	VDISC
SB6000 ECO Plus	0308834040	0308834040	29094	98-	T	377	45	290	160	335	10x23	VDISC 5T
SB7000 ECO Plus	0308834020	0308834020	29059	98-	T	377	45	290	160	335	10x23	VDISC
SB7000 ECO Plus	0308835010	0308835010	29059	98-	T	430	45	290	160	335	10x23	VDISC
SH Series (SB4345)	0308834020	0308834020	-	03-	T	430	45	290	160	335	10x23	VDISC
SH Series (SB4345)	0308834020	0308834020	29059	96-	T	377	45	290	160	335	10x23	VDISC
SH Series (SB4345)	0308835010	0308835010	29167	03-	T	430	45	290	160	335	10x23	VDISC
SH Series (SB4345)	0308835010	0308835010	29059	96-	T	430	45	290	160	335	10x23	VDISC
SKH Series (SB3745)	0308834010	0308834010	29165	03-	T	377	45	230	160	275	8x23	VDISC
SKH Series (SB3745)	0308834030	0308834030	29165	03-	T	377	45	230	160	275	8x23	VDISC 5T
SKH Series (SB3745)	0308834040	0308834040	29165	03-	T	377	45	290	160	335	10x23	VDISC 5T
SKH Series (SB3745) ECO Maxx	0308834020	0308834020	29094	98-00	T	377	45	290	160	335	10x23	VDISC
SKH Series (SB3745) ECO Maxx	0308834040	0308834040	29094	98-00	T	377	45	290	160	335	10x23	VDISC 5T



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**BPW (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
SKH Series (SB3745) ECO Plus	0308834010	0308834010	29094	00-03	T	377	45	230	160	275	8x23	VDISC
SKH Series (SB3745) ECO Plus	0308834020	0308834020	29094	00-03	T	377	45	290	160	335	10x23	VDISC
SKH Series (SB3745) ECO Plus	0308834040	0308834040	29094	00-03	T	377	45	290	160	335	10x23	VDISC 5T

**CAETANO PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Cutlass	653565	80222	29043	91-96	F	440	45	190	135	225	10xM16	VDISC
Enigma - MAN Chassis	81 50803 0021	80243	29030	01-	F	432	45	208	135	235	10xM16	VDISC
Enigma - MAN Chassis	81 50803 0021	80243	29030	01-	R	432	45	208	135	235	10xM16	VDISC
Enigma 12m - Dennis Chassis	653565	80222	29043	91-96	F	440	45	190	135	225	10xM16	VDISC
Porto - Dennis Chassis	653565	80222	29043	91-96	F	440	45	190	135	225	10xM16	VDISC

**DAF**

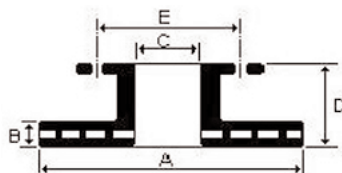
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
45 Series FA45.120 - FA45.210 6.2t to 7.7t	RAK7404	60205	29024	91-	F	315	26	119	122	138	10xM12	VDISC
45 Series FA45.130 - FA45.210 10t to 11t	MAK2487	80321	29024	91-	F	312	30	133	137	155	12xM12	VDISC
55 Series FA55.150 - FA55.230	NJK2785	80215	29077	95-	F	375	44	154	128	185	10xM14	VDISC
CF Series 65, 75, 85, 95	1387439	61764	29061	00-	R	432	45	-	45	-	-	VDISC
CF Series 65, 75, 85, 95	1387439	61764	29061	00-	F	432	45	-	45	-	-	VDISC
F Series FA1000, FA1005	MAK2487	80321	29024	87-	F	312	30	133	137	155	12xM12	VDISC

**DAF (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
LF 45 Series 12 Ton - Pan 17	1400273	80323	29088	01-	R	330	34	150	119	175	12xM12	VDISC ABS
LF 45 Series 12 Ton - Pan 17	1403758	80326	29088	01-	F	330	34	134	143	150	16xM12	VDISC ABS
LF 45 Series exc 12 Ton - Pan17	1400163	80322	29088	01-	F	330	34	117	123	138	12xM12	VDISC ABS
LF 45 Series exc 12 Ton - Pan17	1400273	80323	29088	01-	R	330	34	150	119	175	12xM12	VDISC ABS
LF 55 Series 12 - 18 Ton - Pan19-1 plus	1400069	80324	29126/ 29156/ 29159	03-	F	375	45	117	99	144	10x15	VDISC
LF 55 Series 12 - 18 Ton - Pan19-1 plus	1400284	80325	29126/ 29156/ 29159	03-	R	375	45	179	146	209	10xM14	VDISC ABS
LF 55 Series 12 - 18 Ton - Pan19-2	1400069	80324	29119/ 29141	02-03	F	375	45	117	99	144	10x15	VDISC
LF 55 Series 12 - 18 Ton - Pan19-2	1400284	80325	29119/ 29141	02-03	R	375	45	179	146	209	10xM14	VDISC ABS
LF 55 Series 21 ton	1387439	61764	29061	02-	F	432	45	-	45	-	-	VDISC
LF 55 Series 21 ton	1387439	61764	29061	02-	R	432	45	-	45	-	-	VDISC
XF 105 Series	1387439	61764	29061	00-	F	432	45	-	45	-	-	VDISC
XF 105 Series	1387439	61764	29061	00-	R	432	45	-	45	-	-	VDISC
XF 95 Series	1387439	61764	29061	00-	F	432	45	-	45	-	-	VDISC
XF 95 Series	1387439	61764	29061	00-	R	432	45	-	45	-	-	VDISC

**DAF PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
MB220	0299095	80111	29747	89-	F	457	48	170	119	195	10xM16	VDISC
MB230	0299095	80111	29747	89-	R	457	48	170	119	195	10xM16	VDISC
SB120 - Pan 19 19.5" wheels	1142086	61765	29094	02-	F	377	45	117	112	144	10x15	VDISC 2xM14
SB120 - Pan 19 19.5" wheels	1142132	61766	29094	02-	R	377	45	169	140	196	8xM14	VDISC
SB200 - Pan 19 19.5" wheels	1142086	61765	29094	02-	F	377	45	117	112	144	10x15	VDISC 2xM14
SB200 - Pan 19 19.5" wheels	1142132	61766	29094	02-	R	377	45	169	140	196	8xM14	VDISC



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**DAF PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
SB2300	0299095	80111	29747	86-	F	457	48	170	119	195	10xM16	VDISC
SB2305	0299095	80111	29747	87-	F	457	48	170	119	195	10xM16	VDISC
SB3000	0299095	80111	29747	89-	F	457	48	170	119	195	10xM16	VDISC
SB3000	B221412	80328	29061	89-	F	430	45	203	129	235	10xM16	VDISC
SB4000	1387439	61764	29061	99-	F	432	45	-	45	-	-	VDISC
SB4000	1387439	61764	29061	99-	R	432	45	-	45	-	-	VDISC
SBG220	0299095	80111	29747	86-89	F	457	48	170	119	195	10xM16	VDISC
SBR3000	0299095	80111	29747	89-	F	457	48	170	119	195	10xM16	VDISC
SBR3000	B221412	80328	29061	89-	F	430	45	203	129	235	10xM16	VDISC
SKB3000	B221412	80328	29061	89-	F	430	45	203	129	235	10xM16	VDISC
SKB3000	0299095	80111	29747	89-	F	457	48	170	119	195	10xM16	VDISC

**DEN OUDSTEN**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Almere City Bus	68323825	80359	29150	99-	F	434	45	222	150	250	10xM16	VDISC ABS

**DENNIS**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Elite 2	655750	61767	29090	00-	F	437	45	136	130	165	10x17	VDISC
Phoenix 2	655750	61767	29090	00-	F	437	45	136	130	165	10x17	VDISC
Rapier Fire Engine	653984/16	60627	29013	91-	F	354	30	128	82	151	10x12.3	VDISC

**DENNIS PSV**

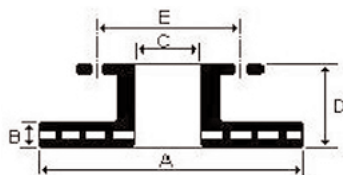
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Arrow	655750	61767	29090	95-	F	437	45	136	130	165	10x17	VDISC
Enviro 400	658470/39	61769	29061	04-	F	430	45	135	105	165	14x15	VDISC
Enviro 400	1I32978F	61771	29061	04-	R	430	45	200	129	235	10xM16	VDISC
Enviro 500	658470/39	61769	29061	02-	F	430	45	135	105	165	14x15	VDISC
Enviro 500	1I32978F	61771	29061	02-	R	430	45	200	129	235	10xM16	VDISC
Javelin	653565	80222	29043	91-96	F	440	45	190	135	225	10xM16	VDISC
Javelin	655750	61767	29090	97-00	F	437	45	136	130	165	10x17	VDISC

**DENNIS PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Lance SLF	654646	61770	29030	95-	F	432	45	194	135	220	10xM16	VDISC
Panther	II32978F	61771	29061	01-	R	430	45	200	129	235	10xM16	VDISC
R Series, R300, R345, R420	658470/39	61769	29061	01-	F	430	45	135	105	165	14x15	VDISC
R Series, R300, R345, R420	II32978F	61771	29061	01-	R	430	45	200	129	235	10xM16	VDISC
Trident II	658470/39	61769	29061	01-	F	430	45	135	105	165	14x15	VDISC
Trident II	658517/37	61768	29061	01-	R	429	43	203	131	235	10xM16	VDISC

**DISCOS TRAILERS**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Haldex DB20 - 22.5" Wheels	1137415	80178	29120	01-	T	430	45	211	132	238	10xM14	VDISC
Knorr SB5000 - 17.5 " Wheels	YO1025	80246	29115	99-	T	335	34	145	111	177	8xM12	VDISC
Knorr SB6000 - 19.5" Wheels	YO1024	61880	29093	99-	T	377	45	176	139	201	8xM14	VDISC
Knorr SB7000 - 22.5" Wheels	1137415	80178	29061	99-	T	430	45	211	132	238	10xM14	VDISC
NR Series SB7000 - 22.5" Wheels	1137415	80178	29061	99-	T	430	45	211	132	238	10xM14	VDISC
Pan 19 - 1 19.5" Wheels	YO1024	80319	29093	00-	T	377	45	176	139	201	8xM14	VDISC
Pan 19 - 1 plus 19.5" Wheels	YO1024	80319	29093	00-	T	377	45	176	139	201	8xM14	VDISC
Pan 19 19.5" Wheels	YO1024	80319	29093	00-	T	377	45	176	139	201	8xM14	VDISC
Pan 19 - 2 19.5" Wheels	YO1024	80319	29119	00-	T	377	45	176	139	201	8xM14	VDISC
Pan 22 - 1 22.5" Wheels	1137415	80178	29162	00-	T	430	45	211	132	238	10xM14	VDISC
Pan 22 22.5" Wheels	1137415	80178	29146	00-	T	430	45	211	132	238	10xM14	VDISC
TE Series SB5000 - 17.5 " Wheels	YO1025	80246	29115	99-	T	335	34	145	111	177	8xM12	VDISC
TE Series SB6000 - 19.5" Wheels	YO1024	80319	29093	99-	T	377	45	176	139	201	8xM14	VDISC
TE Series SB7000 - 22.5" Wheels	1137415	80178	29061	99-	T	430	45	211	132	238	10xM14	VDISC
TZ Series SB5000 - 17.5 " Wheels	YO1025	80246	29115	99-	T	335	34	145	111	177	8xM12	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**DISCOS TRAILERS (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
TZ Series SB6000 - 19.5" Wheels	YO1024	80319	29093	99-	T	377	45	176	139	201	8xM14	VDISC
TZ Series SB7000 - 22.5" Wheels	1137415	80178	29061	99-	T	430	45	211	132	238	10xM14	VDISC

**ERF**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
E Series ECL, ECM,ECS, ECT, ECX	ER1041	80343	29131	00-	R	432	45	208	135	235	10xM16	VDISC
E Series ECL, ECM, ECS, ECT, ECX	ER1041	80343	29131	99-00	R	432	45	208	135	235	10xM16	VDISC
E Series ECL, , ECM, ECS, ECT, ECX	ER1042	80343	29131	00-	F	432	45	131	130	168	12x19	VDISC
E Series ECL, ECM, ECS, ECT, ECX	ER1042	80343	29131	99-00	F	432	45	131	130	168	12x19	VDISC
E Series ECL, ECM, ECS, ECT, ECX	306815/8	61774	29131	99-00	R	435	45	210	150	240	12xM16	VDISC
E Series ECL, ECM, ECS, ECT, ECX	81 50803 0028	61775	29131	99-00	R	432	45	207.5	135	235	10xM16	VDISC

**ESKER TOURING**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
19.5" Wheels	675 421 0112	80318	29093	96-	F	377	45	106	134	138	14x14.5	VDISC
19.5" Wheels	675 423 0312	80319	29093	96-	R	377	45	176	139	201	8xM14	VDISC

**FODEN**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Alpha 2000, 3000	II39541F	61764	29061	01-	F	432	45	-	45	-	-	VDISC
Alpha 2000, 3000	II39541F	61764	29061	01-	R	432	45	-	45	-	-	VDISC

**FORD**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Cargo 0608, 0609, 0611	6172906	60200	29302	87-	F	322	30	148	126	205	6x21	VDISC 3T
Cargo 0608, 0609, 0611	6172906	60200	29302	87-	R	322	30	148	126	205	6x21	VDISC 3T

**FORD (cont'd)**

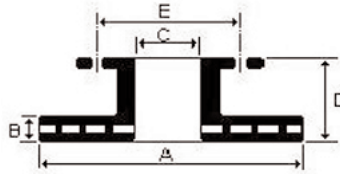
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Transit 14" wheels	5029815	80145	21470	95-99	F	254	24.5	78.5	43	100	5xM10	VDISC
Transit 15" wheels	5029816	80146	21469	95-99	F	270	24	78.5	43	100	5xM10	VDISC
Transit 2000 RWD	4041428	80180	23430/ 23577	00-	F	294	24.5	80	45	100	5xM10	VDISC

**FRUEHAUF**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Knorr SB6000	103836	80240	29093	96-	T	377	45	169	139	196	8xM14	VDISC
Knorr SB7000	103836	80240	29061	96-	T	377	45	169	139	196	8xM14	VDISC
Wabco Pan19	103836	80240	29093	96-	T	377	45	169	139	196	8xM14	VDISC
Wabco Pan19 - 1	103836	80240	29093	96-	T	377	45	169	139	196	8xM14	VDISC
Wabco Pan19 - 1 plus	103836	80240	29093	96-	T	377	45	169	139	196	8xM14	VDISC
Wabco Pan19 - 2	103836	80240	29141	96-	T	377	45	169	139	196	8xM14	VDISC
Wabco Pan 22	103836	80240	29146	96-	T	377	45	169	139	196	8xM14	VDISC
Wabco Pan 22 - 1	103836	80240	29146	96-	T	377	45	169	139	196	8xM14	VDISC

**GIGANT**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
377 x 45 for 17.5" or 19.5" Wheels - Haldex DB19 with ABS location	9267073	61857	29147	99-	T	377	45	290	160	335	10x23	VDISC 5T
430 x 45 for 22.5" Wheels - Wabco Pan22 ABS built into disc	9267066	61859	29162	99-	T	430	45	290	160	335	10x23	VDISC
335 x 34 for 17.5" Wheels - Knorr SB5000	9267037	61698	29115	99-	T	335	34	165	140	205	6x21	VDISC
335 x 34 for 17.5" Wheels - Knorr SB5000 with ABS location	9267038	61860	29115	99-	T	335	34	165	140	205	6x21	VDISC
377 x 45 for 17.5" or 19.5" Wheels - Knorr SB6000 with ABS location	9267073	61857	29093	99-	T	377	45	290	160	335	10x23	VDISC 5T
377 x 45 for 17.5" or 19.5" Wheels - Wabco Pan19 with ABS location	9267073	61857	29093	99-	T	377	45	290	160	335	10x23	VDISC 5T
430 x 45 for 22.5" Wheels - Haldex DB20 - ABS built into disc	9267066	61859	29120	99-	T	430	45	290	160	335	10x23	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**GIGANT (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
430 x 45 for 22.5" Wheels - Haldex DB20 no ABS location	9267023	61856	29120	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Haldex DB20 no ABS location	9267035	61859	29120	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Haldex DB20 with ABS location	9267021	61855	29120	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Knorr SB7000 - ABS built into disc	9267066	61859	29061	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Knorr SB7000 no ABS location	9267023	61856	29061	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Knorr SB7000 no ABS location	9267035	61859	29061	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Knorr SB7000 with ABS location	9267021	61855	29061	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Wabco Pan22 no ABS location	9267023	61856	29162	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Wabco Pan22 - no ABS location	9267035	61859	29162	99-	T	430	45	290	160	335	10x23	VDISC
430 x 45 for 22.5" Wheels - Wabco Pan22 with ABS location	9267021	61855	29162	99-	T	430	45	290	160	335	10x23	VDISC

**IRISBUS PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Agora Line 60C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC
Agora Line 60C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Agora Line 65C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC
Agora Line 65C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Dailybus 60C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC

**IRISBUS PSV (cont'd)**

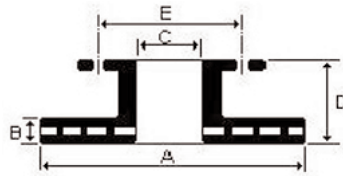
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Dailybus 65C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC
Dailybus 65C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Dailybus 65C15	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC
Dailybus 65C15	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Dailybus 60C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC

**IRIZAR PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Century Club - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Century Club - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
Century Style - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Century Style - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
Century Topline - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Century Topline - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
PB - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
PB - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
S-Kool - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
S-Kool - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC

**ISUZU**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
NKR 3.5T 3.0D	897031007	61777	29124	98-	F	265	35	103	84	145	6xM14	VDISC
NPR 5.0T - 6.2T 3.8D	897168632	61776	-	98-	F	310	42	110	58	137	12x12	VDISC
NPR 5.0T - 6.2T 4.8D	897168632	61776	-	98-	F	310	42	110	58	137	12x12	VDISC
NQR 7.5T 4.7D	897015857	61779	-	98-	F	280	35	110	63	137	12x12	VDISC
NQR 7.5T 4.7D	897168631	61778	-	98-	F	310	42	110	58	137	12x12	VDISC
NQT 11T 4.7D	897168631	61778	-	98-	F	310	42	110	58	137	12x12	VDISC



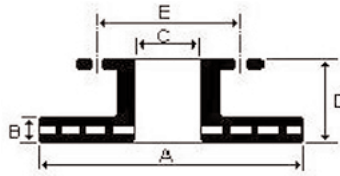
APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**IVECO**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Daily 28.8	8582290	80333	-	90-96	F	266	14	124	155	170	6xM18	SDISC
Daily 28.8	93800492	60723	-	82-90	F	267	14	124	105	170	6xM18	3T SDISC
Daily 29.L9, 29.L11	01908773	61785	29121	96-99	R	289	22	84	85	108	8x10.5	SDISC
Daily 29.L9, 29.L11	1908772	61784	29121	96-99	F	290	22	125	110	170	6xM18	SDISC
Daily 30.8	01908773	61785	29121	96-99	R	289	22	84	85	108	8x10.5	SDISC
Daily 30.8	1908772	61784	29121	96-99	F	290	22	125	110	170	6xM18	SDISC
Daily 30.8	8582290	80333	-	90-96	F	266	14	124	155	170	6xM18	SDISC
Daily 30.8	93800492	60723	-	82-90	F	267	14	124	105	170	6xM18	3T SDISC
Daily 32.8	8582290	80333	-	90-96	F	266	14	124	155	170	6xM18	SDISC
Daily 32.8	93800492	60723	-	82-90	F	267	14	124	105	170	6xM18	3T SDISC
Daily 32.9	8582290	80333	-	90-96	F	266	14	124	155	170	6xM18	SDISC
Daily 32.9	93800492	60723	-	82-90	F	267	14	124	105	170	6xM18	3T SDISC
Daily 35.12	1908772	61784	29121	90-96	F	290	22	125	110	170	6xM18	SDISC
Daily 35.12	1908773	61785	29121	90-96	R	289	22	84	85	108	8xM10.5	SDISC
Daily 35.12	01908773	61785	29138	96-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35.12	1908772	61784	29121	90-	F	290	22	125	110	170	6xM18	SDISC
Daily 35.8, 35.9, 35.10	01908773	61785	29121	96-99	R	289	22	84	85	108	8x10.5	SDISC
Daily 35.8, 35.9, 35.10	1908772	61784	29121	96-99	F	290	22	125	110	170	6xM18	SDISC
Daily 35.8, 35.9, 35.10	8582290	80333	-	90-95	F	266	14	124	155	170	6xM18	SDISC
Daily 35.8, 35.9, 35.10	93800492	60723	-	82-96	F	267	14	124	105	170	6xM18	3T SDISC
Daily 35C11	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 35C11	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35C11	1908772	61784	29121	90-	F	290	22	125	110	170	6xM18	SDISC
Daily 35C11	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC

**IVECO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Daily 35C11	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35C13	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 35C13	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35C13	1908772	61784	29121	90-	F	290	22	125	110	170	6xM18	SDISC
Daily 35C13	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35C13	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35S11	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 35S11	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35S11	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 35S11	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35S11	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35S12	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 35S12	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35S12	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 35S12	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35S12	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35S9	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 35S9	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35S9	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 35S9	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 35S9	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 40.10	01908773	61785	29121	89-96	R	289	22	84	85	108	8x10.5	SDISC
Daily 40.10	1908772	61784	29121	89-96	F	290	22	125	110	170	6xM18	SDISC
Daily 40.10	8582290	80333	-	90-96	F	266	14	124	155	170	6xM18	SDISC
Daily 40.10 Turbo Diesel	01908773	61785	29121	89-96	R	289	22	84	85	108	8x10.5	SDISC
Daily 40.10 Turbo Diesel	1908772	61784	29121	89-96	F	290	22	125	110	170	6xM18	SDISC
Daily 40.8 Turbo Diesel	8582290	80333	-	90-	F	266	14	124	155	170	6xM18	SDISC
Daily 40.8 Turbo Diesel	93800492	60723	-	86-90	F	267	14	124	105	170	6xM18	3T SDISC
Daily 40C13	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC



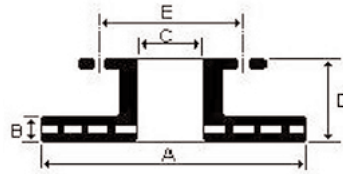
APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**IVECO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Daily 40C13	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 40C13	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 45.10	8584182	60725	29012	85-96	F	280	16	124	142	170	6xM18	3T SDISC
Daily 49.10	8584182	60725	29012	85-94	F	280	16	124	142	170	6xM18	3T SDISC
Daily 49.12	8584182	60725	29012	85-94	F	280	16	124	142	170	6xM18	3T SDISC
Daily 50 C11	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 50 C11	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 50 C11	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 50 C13	42470836	80330	29121	99-	F	276	22	73	73	118	5x16	SDISC
Daily 50 C13	2991646	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 50 C13	42471034	80331	29123	99-	R	276	16	73	70	118	5x16	2x9 SDISC
Daily 50.12	01904693	60726	29001	92-99	F	290	25	161	160	205	6xM18	6x12.5 VDISC
Daily 50.12	8584182	60725	29012	85-92	F	280	16	124	142	170	6xM18	3T SDISC
Daily 59.12	01904693	60726	29001	92-99	F	290	25	161	160	205	6xM18	6x12.5 VDISC
Daily 59.12	8584182	60725	29012	85-92	F	280	16	124	142	170	6xM18	3T SDISC
Daily 60C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC
Daily 60C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Daily 65C11	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	VDISC
Daily 65C11	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Daily 65C15	42471150	61792	29121	99-	R	306	22	178	137	215	6xM10	VDISC
Daily 65C15	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
EuroCargo 110	01907568	80147	29032	91-00	F	370	45	215	150	275	8x20	2T VDISC
EuroCargo 110	1906466	80336	29088	00-	F	330	34	215	141	275	8x20	2T VDISC
EuroCargo 110	1906466	80336	29088	00-	R	330	34	215	141	275	8x20	2T VDISC
EuroCargo 110	1906466	80336	29088	00-	F	330	34	215	141	275	8x20	2T VDISC
EuroCargo 110	1906466	80336	29088	00-	R	330	34	215	141	275	8x20	2T VDISC

**IVECO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
EuroCargo 130E15, E18, E23, E24, E28	01907568	80147	29032	91-98	F	370	45	215	150	275	8x20	2T VDISC
EuroCargo 130E15, E18, E23, E24, E28	01907568	80147	29032	99-00	F	370	45	215	150	275	8x20	2T VDISC
EuroCargo 130E18, E21, E24, E28 TECTOR	2992271	80334	29094	00-	F	377	45	215	151	275	8x20.5	2T VDISC
EuroCargo 130E18, E21, E24, E28 TECTOR	2992271	80334	29094	00-	R	377	45	215	151	275	8x20.5	2T VDISC
EuroCargo 130E18, E21, E24, E28 TECTOR	2992635	61793	29093	00-	R	377	45	-	-	225	-	VDISC
EuroCargo 135E18, E23	01907568	80147	29032	91-00	F	370	45	215	150	275	8x20	2T VDISC
EuroCargo 140E18, E21, E23, E24, E27	01907568	80147	29032	91-00	F	370	45	215	150	275	8x20	2T VDISC
EuroCargo 140E18, E21, E23, E24, E27	2992271	80334	29094	00-	F	377	45	215	151	275	8x20.5	2T VDISC
EuroCargo 150E15, E18, E23, E24, E27, E28	01907569	80148	29032	91-00	F	370	45	215	182	275	8x22.5	2T VDISC
EuroCargo 150E15, E18, E23, E24, E27, E28	2992291	80335	29094	00-	F	375	45	225	151	275	8x22.5	2T VDISC
EuroCargo 150E15, E18, E23, E24, E27, E28	2992635	61793	29093	00-	R	377	45	-	-	225	-	VDISC
EuroCargo 170E18, E23, E23R	01906461	80217	29105	98-	F	436	45	210	139	240	12xM16	VDISC
EuroCargo 170E18, E23, E23R	01908614	60727	29011	91-98	F	430	50	170	102	195	12xM16	VDISC
EuroCargo 175E24, E27	01908614	60727	29011	91-98	F	430	50	170	102	195	12xM16	VDISC
EuroCargo 175E24, E27 TECTOR	01906461	80217	29105	98-	F	436	45	210	139	240	12xM16	VDISC
EuroCargo 176E30, E34	01908614	60727	29011	91-98	F	430	50	170	102	195	12xM16	VDISC
EuroCargo 176E30, E34 TECTOR	01906461	80217	29105	98-	F	436	45	210	139	240	12xM16	VDISC
EuroCargo 179E24, E27, E30	01908614	60727	29011	91-98	F	430	50	170	102	195	12xM16	VDISC
EuroCargo 179E24, E27, E30 TECTOR	01906461	80217	29105	98-	F	436	45	210	139	240	12xM16	VDISC
EuroCargo 180E21, E24, E24, E28 TECTOR	2992477	80337	29105	00-	F	432	45	210	140	240	12xM16	VDISC
EuroCargo 180E21, E24, E24, E28 TECTOR	2992477	80337	29105	00-	R	432	45	210	140	240	12xM16	VDISC
EuroCargo 180E21, EL21, E23, E24, EL24, E28, EL28	01908614	60727	29011	91-00	F	430	50	170	102	195	12xM16	VDISC



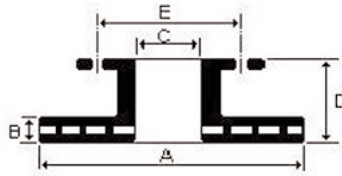
APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
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 CB = Counterbored Hole  
 T = Threaded for withdrawing

**IVECO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
EuroCargo 260E23, E28 TECTOR	01906461	80217	29105	00-	F	436	45	210	139	240	12xM16	VDISC
EuroCargo 260E23, E28 TECTOR	01906461	80217	29105	00-	R	436	45	210	139	240	12xM16	VDISC
EuroCargo 325E27	01906461	80217	29105	98-	F	436	45	210	139	240	12xM16	VDISC
EuroCargo 325E27	01908614	60727	29011	91-98	F	430	50	170	102	195	12xM16	VDISC
EuroCargo 390E30, E34	01908614	60727	29011	91-98	F	430	50	170	102	195	12xM16	VDISC
EuroCargo 60E12, 60E14, 65E12, 65E14, 75E12, 75E14, TECTOR with studs	1907528	61780	29122	91-00	F	304	30	165	128	205	6x18	VDISC
EuroCargo 60E12, 60E14, 65E12, 65E14, 75E12, 75E14, TECTOR with studs	1907529	61781	29122	91-00	R	304	30	165	128	205	6x18	VDISC
EuroCargo 60E12, 60E14, 65E12, 65E14, 75E12, 75E14, TECTOR without studs	1907725	60712	29065	91-96	F	304	30	165	128	205	6x18	2T VDISC
EuroCargo 60E12, 60E14, 65E12, 65E14, 75E12, 75E14, TECTOR without studs	1907725	60712	29065	91-96	R	304	30	165	128	205	6x18	2T VDISC
EuroCargo 60E12, 60E14, 65E12, 65E14, 75E12, 75E14, TECTOR without studs	1907725	60712	29122	97-00	F	304	30	165	128	205	6x18	2T VDISC
EuroCargo 60E12, 60E14, 65E12, 65E14, 75E12, 75E14, TECTOR without studs	1907725	60712	29122	97-00	R	304	30	165	128	205	6x18	2T VDISC
EuroCargo 80E15, 80E15R, 100E15, 100E18, 100E21	1906466	80336	29088	99-	F	330	34	215	141	275	8x20	2T VDISC
EuroCargo 80E15, 80E15R, 100E15, 100E18, 100E21	1906466	80336	29088	99-	R	330	34	215	141	275	8x20	2T VDISC
EuroCargo 80E15, 80E15R, 100E15, 100E18, 100E21	1907530	60714	29011	91-94	F	322	30	215	134	275	8x20	2T VDISC

**IVECO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
EuroCargo 80E15, 80E15R, 100E15, 100E18, 100E21	1907530	60714	29011	91-94	R	322	30	215	134	275	8x20	2T VDISC
EuroCargo 80E15, 80E15R, 100E15, 100E18, 100E21	1907530	60714	29011	95-98	F	322	30	215	134	275	8x20	2T VDISC
EuroCargo 80E15, 80E15R, 100E15, 100E18, 100E21	1907530	60714	29011	95-98	R	322	30	215	134	275	8x20	2T VDISC
EuroCargo E210E23	01907569	80148	29032	91-	F	370	45	215	182	275	8x22.5	2T VDISC
EuroCargo E250E23	01907569	80148	29032	91-	F	370	45	215	182	275	8x22.5	2T VDISC
EuroCargo E260E23, E28	01907568	80147	29032	91-	F	370	45	215	150	275	8x20	2T VDISC
EuroCargo E280E23	01907569	80148	29032	91-	F	370	45	215	182	275	8x22.5	2T VDISC
EuroCargo E320E23, E27, E28	01907569	80148	29032	91-	F	370	45	215	182	275	8x22.5	2T VDISC
Eurofire 130E, 150E	01907568	80147	29032	91-	F	370	45	215	150	275	8x20	2T VDISC
Euromover	01906461	80217	29105	97-	F	436	45	210	139	240	12xM16	VDISC
Eurostar All models 190 - 520E	01906461	80217	29105	97-	F	436	45	210	139	240	12xM16	VDISC
Eurostar All models 190 - 520E	01906461	80217	29105	97-	R	436	45	210	139	240	12xM16	VDISC
Eurostar All models 190 - 520E	01908614	60727	29011	93-96	F	430	50	170	102	195	12xM16	VDISC
Eurostar All models 190 - 520E	01908614	60727	29011	93-96	R	430	50	170	102	195	12xM16	VDISC
Eurotech All models 180 - 440	01906461	80217	29105	98-	F	436	45	210	139	240	12xM16	VDISC
Eurotech All models 180 - 440	01906461	80217	29105	98-	R	436	45	210	139	240	12xM16	VDISC
Eurotech All models 180 - 440	01908614	60727	29011	93-97	F	430	50	170	102	195	12xM16	VDISC
Eurotech All models 180 - 440	01908614	60727	29011	93-97	R	430	50	170	102	195	12xM16	VDISC
Eurotrakker	01906461	80217	29105	99-	F	436	45	210	139	240	12xM16	VDISC
Eurotrakker	01906461	80217	29105	99-	R	436	45	210	139	240	12xM16	VDISC
Stralis 260S40, S43, S48, S54	2992477	80337	29105	02-	F	432	45	210	140	240	12xM16	VDISC
Stralis 260S40, S43, S48, S54	2992477	80337	29105	02-	R	432	45	210	140	240	12xM16	VDISC



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**IVECO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Stralis 440E40, E43, E44, E54	01906461	80217	29105	02-	F	436	45	210	139	240	12xM16	VDISC
Stralis 440E40, E43, E44, E54	01906461	80217	29105	02-	R	436	45	210	139	240	12xM16	VDISC
Stralis 440S40, S43, S48, S54	2992477	80337	29105	02-	F	432	45	210	140	240	12xM16	VDISC
Stralis 440S40, S43, S48, S54	2992477	80337	29105	02-	R	432	45	210	140	240	12xM16	VDISC
SuperCargo	01906461	80217	29105	00-	F	436	45	210	139	240	12xM16	VDISC
SuperCargo	01906461	80217	29105	00-	R	436	45	210	139	240	12xM16	VDISC
SuperCargo	01908614	60727	29011	93-00	F	430	50	170	102	195	12xM16	VDISC
Zeta 65.12 - 79.14	7171274	60728	29024	83-	F	315	26	160	120	205	6x19	2T VDISC
Zeta 90.14, 95.14, 109.14	7171255	61782		87-	F	322	30	220	130	275	8x19	VDISC

**IVECO FORD**

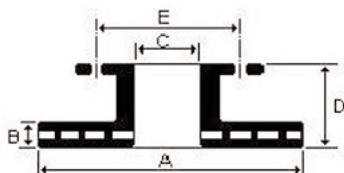
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Cargo 0608, 0609, 0611	6172906	60200	29302	87-	F	322	30	148	126	205	6x21	3T VDISC
Cargo 0608, 0609, 0611	6172906	60200	29302	87-	R	322	30	148	126	205	6x21	3T VDISC
Cargo 0708, 0709, 0711, 0712, 0713	6172906	60200	29302	87-	F	322	30	148	126	205	6x21	3T VDISC
Cargo 0708, 0709, 0711, 0712, 0713	6172906	60200	29302	87-	R	322	30	148	126	205	6x21	3T VDISC
Cargo 0808, 0809, 0811, 0812, 0813, 0815	6172906	60200	29302	87-	F	322	30	148	126	205	6x21	3T VDISC
Cargo 0808, 0809, 0811, 0812, 0813, 0815	6172906	60200	29302	87-	R	322	30	148	126	205	6x21	3T VDISC

**IVECO FORD (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Cargoplus 18T	1907530	60714	29067	02-	F	322	30	215	134	275	8x20	2T VDISC
Cargoplus 18T	1907530	60714	29067	02-	R	322	30	215	134	275	8x20	2T VDISC
Cargoplus 7.5T	1907528	61780	20835	02-	F	304	30	165	128	205	6x18	VDISC
Cargoplus 7.5T	1907529	61781	20835	02-	R	304	30	165	128	205	6x18	VDISC
Cargoplus 7.5T	1907725	60712	29122	02-	F	304	30	165	128	205	6x18	2T VDISC
Cargoplus 7.5T	1907725	60712	29122	02-	R	304	30	165	128	205	6x18	2T VDISC

**IVECO PSV**

Application	O.E Ref	TTC	Friction	Year	Part	A	B	C	D	E	F	Holes
59.12	01904693	60726	29001	90-	F	290	25	161	160	205	6xM18	6x12.5 VDISC
64.12	01904693	60726	29001	90-	F	290	25	161	160	205	6xM18	6x12.5 VDISC
315	1904533	61783	29688	81-98	F	315	35	145	154	205	6x18 2T	VDISC
Agora	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	SDISC
Agora	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	VDISC
Daily 35 C11	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35 S11	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 35 S11	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35 S13	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 35 S13	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 35 S9	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 35 S9	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 40 C13	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 40 C13	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC
Daily 45.10	8584182	60725	29012	87-90	F	280	16	124	142	170	6xM18	3T SDISC
Daily 49.10	8584182	60725	29012	87-90	F	280	16	124	142	170	6xM18	3T SDISC
Daily 49.12	8584182	60725	29012	87-90	F	280	16	124	142	170	6xM18	3T SDISC
Daily 50 C13	1908772	61784	29121	99-	F	290	22	125	110	170	6xM18	SDISC
Daily 50 C13	01908773	61785	29121	99-	R	289	22	84	85	108	8x10.5	SDISC



APPLICATION CODES  
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**IVECO PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Daily 60 C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	SDISC
Daily 60 C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	SDISC
Daily 65 C13	42471150	61792	29160	99-	R	306	22	178	137	215	6xM10	SDISC
Daily 65 C13	42471214	61791	29160	99-	F	290	26	80	53	110	6x12.6	SDISC
EuroClass	93161407	61789	29075	92-	F	417	28	159	67	186	10x18.5	VDISC
EuroRider	93161407	61789	29075	92-	F	417	28	159	67	186	10x18.5	VDISC

**KASSBOHRER PSV**

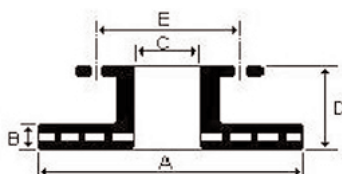
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
S210	179241111131	61796	29747	83-	F	406	48	94	175	215	10xM16	VDISC
S210	179241111307	61795	29498	83-	F	396	48	194	119	215	10xM16	VDISC
S211	179241111131	61796	29747	83-	F	406	48	194	175	215	10xM16	VDISC
S211	179241111307	61795	29498	83-	F	396	48	194	119	215	10xM16	VDISC
S212	179241111131	61796	29747	76-	F	406	48	194	175	215	10xM16	VDISC
S212	179241111307	61795	29498	76-	F	396	48	194	119	215	10xM16	VDISC
S213	179241111131	61796	29747	76-	F	406	48	194	175	215	10xM16	VDISC
S213	179241111307	61795	29498	76-	F	396	48	194	119	215	10xM16	VDISC
S214	179241111131	61796	29747	83-	F	406	48	194	175	215	10xM16	VDISC
S214	179241111307	61795	29498	83-	F	396	48	194	119	215	10xM16	VDISC
S215	179241111131	61796	29747	83-90	F	406	48	194	175	215	10xM16	VDISC
S215	179241111307	61795	29498	83-90	F	396	48	194	119	215	10xM16	VDISC
S215	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC
S216	179241111131	61796	29747	80-	F	406	48	194	175	215	10xM16	VDISC
S228	179241111131	61796	29747	89-	F	406	48	194	175	215	10xM16	VDISC
S228	179241111307	61795	29498	83-89	F	396	48	194	119	215	10xM16	VDISC
S300	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC

**KASSBOHRER PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
S313	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC
S315	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC
S317	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC
S319	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC
S321	8285390000	61797	29030	91-	F	432	45	194	135	220	10xM16	VDISC
S328	B221412	80328	29061	95-	F	429	43	200	129	235	10xM16	VDISC
S415	B221412	80328	29061	01-	F	429	43	200	129	235	10xM16	VDISC
S415	B221412	80328	29061	01-	R	429	43	200	129	235	10xM16	VDISC
S417	B221412	80328	29061	01-	F	429	43	200	129	235	10xM16	VDISC
S417	B221412	80328	29061	01-	R	429	43	200	129	235	10xM16	VDISC

**LDV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
200 Series	KAM2107	60203	-	85-94	F	276	14.4	82.5	53	-	5x10	SDISC
300 Series	AAR5516	60204	-	85-89	F	275	24	83	63	105	5x10	SDISC
300 Series	KAM2107	60203	-	85-89	F	276	14.4	82.5	53	-	5x10	SDISC
400 Series - Single Rear Wheels	KAM2107	60203	-	89-	F	276	14.4	82.5	53	-	5x10	SDISC
400 Series - Twin Rear Wheels	AAR5516	60204	-	86-	F	275	24	83	63	105	5x10	VDISC
Convoy - Caliper 2 x 57mm pistons	KAM2107	60203	-	94-	F	276	14.4	82.5	53	n/a	5x10	SDISC
Convoy - Caliper4 x 41mm pistons	AAR5516	60204	-	94-	F	275	24	83	63	105	5x10	VDISC
Pilot	KAM2107	60203	-	85-94	F	276	14.4	82.5	53	n/a	5x10	SDISC
Sherpa 215- 280 - Single Rear Wheels	KAM2107	60203	-	80-85	F	276	14.4	82.5	53	n/a	5x10	SDISC
Sherpa 400 - Twin Rear Wheels	AAR5516	60204	-	86-	F	275	24	83	63	105	5x10	VDISC
Sherpa 400 - Twin Rear Wheels	NJK2877	61802	20359	86-	F	275	24	83	63	105	5x10	SDISC



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**LECINENA TRAILER**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
FD22/0	120015000021	61803	29042	94-	T	430	45	203	133	238	10xM14	VDISC
FD22/120	120015000005	61804	29042	94-	T	430	45	131	140	168	12x19	VDISC

**LEYLAND PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Swift Bus	MAK2487	80321	-	87-	F	312	30	133	137	155	12xM12	VDISC

**LIAZ PSV**

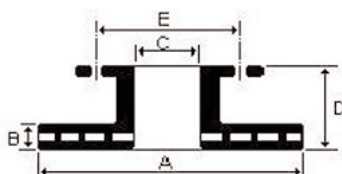
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
400 Series	942 421 1212	80163	29061	98-	F	430	45	211	132	238	10xM14	VDISC

**MAN**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
F2000 Series	81 50803 0009	80113	29030	94-	F	438	45	200	135	235	10xM16	VDISC
F2000 Series	81 50803 0023	80242	29030	94-	F	432	45	131	130	168	12x19	3T VDISC
F2000 Series	81 50803 0041	80343	29030	94-	F	432	45	208	135	235	10xM16	VDISC
F2000 Series	81 50803 0041	80343	29030	94-	R	432	45	208	135	235	10xM16	VDISC
F90	81 50803 0021	80243	29030	89-96	F	432	45	208	135	235	10xM16	VDISC
F90	81 50803 0028	80244	29030	89-96	F	432	45	207.5	135	235	10xM16	VDISC ABS
L2000 6.103 to 10.224	81 50803 0010	80112	29055	93-96	F	324	30	135	102	158	10xM14	VDISC
L2000 6.103 to 10.224	81 50803 0022	80149	29088	96-00	F	330	34	157	124	180	12xM12	VDISC ABS
L2000 6.103 to 10.224	81 50803 0022	80149	29088	96-00	R	330	34	157	124	180	12xM12	VDISC ABS
L2000 6.103 to 10.224	81 50803 0026	80150	29088	96-00	F	330	34	135	104	158	10xM14	VDISC
L2000 6.103 to 10.224	81 50803 0039	80344	29088	96-00	R	330	34	145	129	177	8xM12	VDISC ABS
LE2000 LE110C, LE140C, LE150C, LE160C, LE220C 8 -12 tonne	81 50803 0022	80149	29088	00-	F	330	34	157	124	180	12xM12	VDISC ABS

**MAN (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
LE2000 LE110C, LE140C, LE150C, LE160C, LE220C 8 -12 tonne	81 50803 0022	80149	29088	00-	R	330	34	157	124	180	12xM12	VDISC ABS
LE2000 LE110C, LE140C, LE150C, LE160C, LE220C 8 -12 tonne	81 50803 0026	80150	29088	00-	F	330	34	135	104	158	10xM14	VDISC
LE2000 LE110C, LE140C, LE150C, LE160C, LE220C 8 -12 tonne	81 50803 0039	80344	29088	00-	R	330	34	45	129	177	8xM12	VDISC ABS
LE2000 LE220B, LE250B, LE280B 14-18 tonne	81 50803 0027	80214	29093	00-	F	377	45	162	128	195	10xM14	VDISC
LE2000 LE220B, LE250B, LE280B 14-18 tonne	81 50803 0027	80214	29093	00-	R	377	45	162	128	195	10xM14	VDISC
M2000 12 Series	81 50803 0022	80149	29088	96-	R	330	34	157	124	180	12xM12	VDISC ABS
M2000 12 Series	81 50803 0026	80150	29088	96-	F	330	34	135	104	158	10xM14	VDISC
M2000 12 Series	81 50803 0027	80214	29093	96-	F	377	45	162	128	195	10xM14	VDISC
M2000 12 Series	81 50803 0027	80214	29093	96-	R	377	45	162	128	195	10xM14	VDISC
M2000 15 - 26 Series	81 50803 0009	80113	29030	96-	F	438	45	200	135	235	10xM16	VDISC
M2000 15 - 26 Series	81 50803 0023	80242	29030	96-	F	432	45	131	130	168	12x19	3T VDISC
M90 17.192 - 24.272	81 50803 0021	80243	29030	89-96	F	432	45	208	135	235	10xM16	VDISC
M90 17.192 - 24.272	81 50803 0028	80244	29030	89-96	F	432	45	207.5	135	235	10xM16	VDISC ABS
ME2000 12 Series	81 50803 0022	80149	29088	96-	R	330	34	157	124	180	12xM12	VDISC ABS
ME2000 12 Series	81 50803 0026	80150	29088	96-	F	330	34	135	104	158	10xM14	VDISC
ME2000 14 Series	81 50803 0027	80214	29093	96-	F	377	45	162	128	195	10xM14	VDISC
ME2000 14 Series	81 50803 0027	80214	29093	96-	R	377	45	162	128	195	10xM14	VDISC
ME2000 15 - 26 Series	81 50803 0009	80113	29030	96-	F	438	45	200	135	235	10xM16	VDISC
ME2000 15 - 26 Series	81 50803 0023	80242	29030	96-	F	432	45	131	130	168	12x19	3T VDISC
TG-A	81 50803 0023	80242	29131	00-	F	432	45	131	130	168	12x19	3T VDISC
TG-A	81 50803 0028	80244	29131	00-	R	432	45	207.5	135	235	10xM16	VDISC ABS
TG-A	81 50803 0041	80343	29131	00-	R	432	45	208	135	235	10xM16	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**MAN (cont'd)**

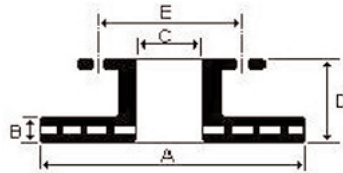
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
TGL 7.5 -12t	81508030053	61805	29115	04-	F	335	34	90	93	122	10xM10	VDISC
TGL 7.5 -12t	81508030063	61806	29115	04-	R	335	34	154	118	176	10x14	VDISC

**MAN PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
City Bus - 19.5" Wheels	675 421 0112	80318	29093	96-	F	377	45	106	134	138	14x14.5	VDISC
City Bus - 19.5" Wheels	675 423 0312	80319	29093	96-	R	377	45	176	139	201	8xM14	VDISC
City Bus - 22.5" Wheels	81 50803 0021	80243	29030	96-	F	432	45	208	135	235	10xM16	VDISC
City Bus - 22.5" Wheels	81 50803 0021	80243	29030	96-	R	432	45	208	135	235	10xM16	VDISC
City Bus - 22.5" Wheels	81 50803 0028	80244	29030	96-	F	432	45	207.5	135	235	10xM16	VDISC ABS
Lion's Coach	81 50803 0021	80243	29030	89-96	F	432	45	208	135	235	10xM16	VDISC
Lion's Coach	81 50803 0028	80244	29030	89-96	F	432	45	207.5	135	235	10xM16	VDISC ABS
Lion's Comfort	81 50803 0021	80243	29030	89-96	F	432	45	208	135	235	10xM16	VDISC
Lion's Comfort	81 50803 0028	80244	29030	89-96	F	432	45	207.5	135	235	10xM16	VDISC ABS
Lion's Star	81 50803 0009	80113	29747	94-	F	438	45	200	135	235	10xM16	VDISC
Lion's Star	81 50803 0009	80113	29030	94-	F	438	45	200	135	235	10xM16	VDISC
NG262	81 50803 0023	80242	29030	98-	F	432	45	131	130	168	12x19	3T VDISC
NG262	81 50803 0028	80244	29030	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS
NG262	81 50803 0041	80343	29030	98-	R	432	45	208	135	235	10xM16	VDISC
NG263	81 50803 0023	80242	29030	98-	F	432	45	131	130	168	12x19	3T VDISC
NG263	81 50803 0028	80244	29030	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS
NG263	81 50803 0041	80343	29030	98-	R	432	45	208	135	235	10xM16	VDISC
NG272	81 50803 0009	80113	29030	95-98	F	438	45	200	135	235	10xM16	VDISC
NG312	81 50803 0009	80113	29030	95-98	F	438	45	200	135	235	10xM16	VDISC
NG312	81 50803 0023	80242	29030	98-	F	432	45	131	130	168	12x19	3T VDISC
NG312	81 50803 0028	80244	29030	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS
NG312	81 50803 0041	80343	29030	98-	R	432	45	208	135	235	10xM16	VDISC

**MAN PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
NG313	81 50803 0023	80242	29030	98-	F	432	45	131	130	168	12x19	3T VDISC
NG313	81 50803 0028	80244	29030	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS
NG313	81 50803 0041	80343	29030	98-	R	432	45	208	135	235	10xM16	VDISC
NL202	81 50803 0041	80343	29030	89-	F	432	45	208	135	235	10xM16	VDISC
NL202	81 50803 0041	80343	29030	89-	R	432	45	208	135	235	10xM16	VDISC
NL222	81 50803 0041	80343	29030	89-	F	432	45	208	135	235	10xM16	VDISC
NL222	81 50803 0041	80343	29030	89-	R	432	45	208	135	235	10xM16	VDISC
NL223	81 50803 0041	80343	29030	89-	F	432	45	208	135	235	10xM16	VDISC
NL223	81 50803 0041	80343	29030	89-	R	432	45	208	135	235	10xM16	VDISC
NL312	81 50803 0009	80113	29030	95-98	F	438	45	200	135	235	10xM16	VDISC
NL313	81 50803 0023	80242	29131	98-	F	432	45	131	130	168	12x19	3T VDISC
NL313	81 50803 0028	80244	29131	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS
NL313	81 50803 0041	80343	29131	98-	R	432	45	208	135	235	10xM16	VDISC
NM222	81 50803 0009	80113	29030	96-	F	438	45	200	135	235	10xM16	VDISC
NM223	81 50803 0009	80113	29030	96-	F	438	45	200	135	235	10xM16	VDISC
NU263	81 50803 0023	80242	29030	96-02	F	432	45	131	130	168	12x19	3T VDISC
NU263	81 50803 0041	80343	29030	96-02	R	432	45	208	135	235	10xM16	VDISC
NU313	81 50803 0023	80242	29131	02-	F	432	45	131	130	168	12x19	3T VDISC
NU313	81 50803 0023	80242	29030	96-02	F	432	45	131	130	168	12x19	3T VDISC
NU313	81 50803 0041	80343	29131	02-	R	432	45	208	135	235	10xM16	VDISC
NU313	81 50803 0041	80343	29030	96-02	R	432	45	208	135	235	10xM16	VDISC
NU353	81 50803 0023	80242	29030	96-02	F	432	45	131	130	168	12x19	3T VDISC
NU353	81 50803 0041	80343	29030	96-02	R	432	45	208	135	235	10xM16	VDISC
SG150 - 750	81 50803 0010	80112	29055	93-96	F	324	30	135	102	158	10xM14	VDISC
SG150 - 750	81 50803 0022	80149	29088	96-	R	330	34	157	124	180	12xM12	VDISC ABS
SG150 - 750	81 50803 0026	80150	29088	96-	F	330	34	135	104	158	10xM14	VDISC
SL150 - 750	81 50803 0010	80112	29055	93-96	F	324	30	135	102	158	10xM14	VDISC
SL150 - 750	81 50803 0022	80149	29088	96-	R	330	34	157	124	180	12xM12	VDISC ABS
SL150 - 750	81 50803 0026	80150	29088	96-	F	330	34	135	104	158	10xM14	VDISC
SU210	81 50803 0010	80112	29055	93-96	F	324	30	135	102	158	10xM14	VDISC
SU210	81 50803 0026	80150	29088	96-	F	330	34	135	104	158	10xM14	VDISC
SU210	81 50803 0026	80150	29088	96-	R	330	34	135	104	158	10xM14	VDISC
SU230	81 50803 0010	80112	29055	93-96	F	324	30	135	102	158	10xM14	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**MAN PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
SU230	81 50803 0026	80150	29088	96-	F	330	34	135	104	158	10xM14	VDISC
SU230	81 50803 0026	80150	29088	96-	R	330	34	135	104	158	10xM14	VDISC
SU230	81 50803 0022	80149	29088	96-	F	330	34	157	124	180	12xM12	VDISC ABS
SU230	81 50803 0022	80149	29088	96-	R	330	34	157	124	180	12xM12	VDISC ABS

**MCW**

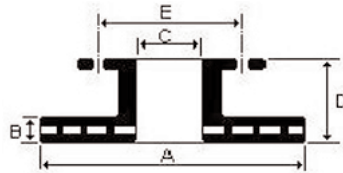
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Metrorider	X1857658	60206	29302	87-	F	322	30	166	110	215	12xM12	VDISC
Metrorider	X1857658	60206	29302	87-	R	322	30	166	110	215	12xM12	VDISC

**MERCEDES BENZ**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Actros 1831- 3357	942 421 1212	80163	29061	96-	F	430	45	211	32	238	10xM14	VDISC
Actros 1831- 3357	942 421 1212	80163	29061	96-	R	430	45	211	132	238	10xM14	VDISC
Atego 1215-1528 - 19.5" Wheels	675 421 0 112	80318	29094	98-	F	377	45	106	134	138	14x14.5	VDISC
Atego 1215-1528 - 19.5" Wheels	675 423 0312	80319	29094	98-	R	377	45	176	139	201	8xM14	VDISC
Atego 1823 - 2628 22.5" Wheels	942 421 1212	80163	29061	96-	F	430	45	211	132	238	10xM14	VDISC
Atego 1823 - 2628 - 22.5" Wheels	942 421 1212	80163	29061	96-	R	430	45	211	132	238	10xM14	VDISC
Atego 712-823 - 17.5 " Wheels	970 421 0112	80201	29115	98-	F	335	34	92	103	120	10x14.5	VDISC
Atego 712-823 - 17.5 " Wheels	970 423 0212	61811	29115	98-	R	335	34	145	130	177	8xM12	VDISC
Atego 712-823 - 17.5 " Wheels	970 423 0412	80246	29115	98-	R	335	34	145	111	177	8xM12	VDISC ABS
Atego 712-823 - 17.5 " Wheels	970 423 0512	80203	29115	98-	R	335	34	152	111	177	8xM12	VDISC
Atego 712-823 - 17.5 " Wheels	970 423 0612	61812	29115	98-	R	335	34	177	102	120	8xM12	VDISC

**MERCEDES BENZ (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Atego 917-1023 - 17.5 " Wheels	675 421 0112	80318	29094	98-	F	377	45	106	134	138	14x14.5	VDISC
Atego 917-1023 - 17.5 " Wheels	675 423 0312	80319	21621	98-	R	377	45	176	139	201	8xM14	VDISC
Atego 917-1023 - 17.5 " Wheels	970 421 0112	80201	29115	98-	F	335	34	92	103	120	10x14.5	VDISC
Atego 917-1023 - 17.5 " Wheels	970 423 0412	80246	29115	98-	R	335	34	145	111	177	8xM12	VDISC ABS
Atego 917-1023 - 17.5 " Wheels	970 423 0512	80203	29115	98-	R	335	34	152	111	177	8xM12	VDISC
Axor 1831- 2557	942 421 1212	80163	29061	96-	F	430	45	211	132	238	10xM14	VDISC
Axor 1831- 2557	942 421 1212	80163	29061	96-	R	430	45	211	132	238	10xM14	VDISC
Econic Refuse & Specialist Fire chassis	942 421 1212	80163	29061	96-	F	430	45	211	132	238	10xM14	VDISC
Econic Refuse & Specialist Fire chassis	942 421 1212	80163	29061	96-	R	430	45	211	132	238	10xM14	VDISC
Sprinter 208, 211, 212, 213, 214, 216	901 423 0412	80152	21624	96-	R	258	12	85	96	130	5x15	S/D 1CS1CB
Sprinter 208, 211, 212, 213, 214, 216	901 423 0412	80152	23031	96-	R	258	12	85	96	130	5x15	S/D 1CS1CB
Sprinter 208, 211, 212, 213, 214, 216	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	V/D 1CS1CB
Sprinter 308, 310, 311, 312, 313, 314, 316	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	V/D 1CS1CB
Sprinter 308, 310, 311, 312, 313, 314, 316	902 423 0112	80154	23021	96-	R	272	16	85	96	130	5x15	S/D 1CS1CB
Sprinter 308, 310, 311, 312, 313, 314, 316	902 423 0112	80154	21592	96-	R	272	16	85	96	130	5x15	S/D 1CS1CB
Sprinter 308, 310, 311, 312, 313, 314, 316	904 423 0312	61810	29076	96-	R	285	22	120	94	145	6x15	VDISC
Sprinter 308, 310, 311, 312, 313, 314, 316	906 421 0012	61821	-	06-	F	300	28	85	68	130	6x15	SDISC
Sprinter 308, 310, 311, 312, 313, 314, 316	906 423 0012	61822	-	06-	R	298	16	85	71	130	6x15	SDISC
Sprinter 308, 310, 311, 312, 313, 314, 316 5t axle	906 423 0012	61823	-	06-	R	303	28	120	111	145	6x15	SDISC



**APPLICATION CODES**

F = Number & Diameter of Stud Holes

CS = Countersunk Hole

CB = Counterbored Hole

T = Threaded for withdrawing

**MERCEDES BENZ (cont'd)**

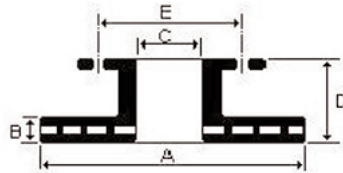
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Sprinter 408, 410, 411, 412, 413, 414, 416	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	V/D 1CS1CB
Sprinter 408, 410, 411, 412, 413, 414, 416	902 423 0112	80154	21621	96-	R	272	16	85	96	130	5x15	S/D 1CS1CB
Sprinter 616	903 421 0012	61820	-	01-	F	290	26	70	70	96	8x14.5	VDISC
Sprinter 616	905 420 0072	61819	-	01-	R	304	30	226	115	192	6xM12	VDISC
T1 Series 407D, 408D, 410, 410D, 507D, 508D, 510D	601 421 0312	61807	20784	82-88	F	280	22	88	79	112	5x12.6	VDISC
T1 Series L207, L208, L209, L210	601 421 5112	60817	20784	77-95	F	280	16	88	79	112	5x12.6	SDISC
T1 Series L307, L308, L309 D, L310	601 421 5112	60817	20784	77-95	F	280	16	88	79	112	5x12.6	SDISC
T2 Series 508D, 510, 511D, 608D, 609D	601 421 0312	61807	20784	86-	F	280	22	88	79	112	5x12.6	VDISC
T2 Series 508D, 510, 511D, 608D, 609D	669 421 0112	60700	29835	86-	F	304	30	118	91	140	6xM12	VDISC
T2 Series 809D, 811D, 814D - 16" wheels	669 421 0112	60700	29835	86-98	F	304	30	118	91	140	6xM12	VDISC
T2 Series 809D, 811D, 814D - 17.5" wheels	670 421 0112	60347	29835	86-98	F	324	30	118	91	140	6xM12	VDISC
T2 Series 814DA	669 421 0512	61809	20835	88-	F	324	30	184	111	205	6xM12	VDISC
T2 Series L709 - 16" wheels	669 421 0112	60700	29835	86-	F	304	30	118	91	140	6xM12	VDISC
T2 Series L711 - 16" wheels	669 421 0112	60700	29835	86-	F	304	30	118	91	140	6xM12	VDISC

**MERCEDES BENZ (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Vario Models 512, 612, 614 - 16" Wheels	668 421 0112	80211	29835	96-	F	304	30	118	91	140	6xM12	VDISC
Vario Models 512, 612, 614 - 16" Wheels	668 423 0012	80212	29835	96-	R	304	30	157	121	192	6xM12	VDISC
Vario Models 512, 612, 614 - 16" Wheels	668 423 0412	80349	29835	96-	R	304	30	119	121	192	6xM12	VDISC ABS
Vario Models 810, 812, 814 - 17.5" Wheels	668 423 0112	80210	29835	96-	R	324	30	157	121	192	6xM12	VDISC
Vario Models 810, 812, 814 - 17.5" Wheels	668 423 0512	80348	29835	96-	R	324	30	119	121	192	6xM12	VDISC ABS
Vario Models 810, 812, 814 - 17.5" Wheels	670 421 0112	80209	29094	96-	F	324	30	118	91	140	6xM12	VDISC
Vito	639 421 0012	61817	23616	03-	F	300	28	67	58	112	5x15	VDISC
Vito	639 423 0112	61818	22669	03-	R	296	10	67	57.5	112	5x15	SDISC
Vito 108D, 109, 110, 113	638 421 0112	80155	21576	96-03	F	276	22	67	60	112	5x15	1CS VDISC
Vito 108D, 109, 110, 113	638 423 0112	80156	21572	96-03	R	280	10	67	65	112	5x15	1CS SDISC

**MERCEDES BENZ PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
404	356 421 1012	61808	29030	91-	F	438	45	195	135	235	10xM14	VDISC
404	356 421 1012	61808	29030	91-	R	438	45	195	135	235	10xM14	VDISC
0409 5 ton/6 ton	669 421 0112	60700	29835	86-	F	304	30	118	91	140	6xM12	VDISC
0560	627 421 0012	61815	-	02-	F	432	45	198	135	221	10xM16	VDISC
0709D, 0711D	670 421 0112	60347	29835	87-	F	324	30	118	91	140	6xM12	VDISC
0811D, 0814D	670 421 0112	60347	29835	87-	F	324	30	118	91	140	6xM12	VDISC
409 7.5 ton	669 421 0112	60700	29835	86-	F	304	30	118	91	140	6xM12	VDISC
606D, 0609D, 0611D, 0614D	670 421 0112	60347	29835	87-	F	324	30	118	91	140	6xM12	VDISC
814DA	669 421 0512	61809	20835	88-	F	324	30	184	111	205	6xM12	VDISC
Citaro	942 421 2312	80178	29061	00-	F	430	45	211	132	238	10xM14	VDISC
Citaro	942 421 2512	80178	29061	00-	R	430	45	211	132	238	10xM14	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**MERCEDES BENZ PSV (cont'd)**

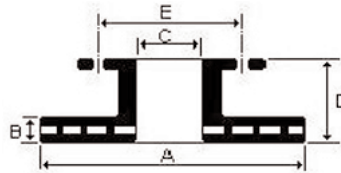
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Integro 0550	942 421 2512	80178	29061	00-	R	430	45	211	132	238	10xM14	VDISC
Integro 0550	942 421 2312	80178	29061	00-	F	430	45	211	132	238	10xM14	VDISC
Karosa	MNE1101	61815	-	02-	F	430	45	203	132.5	238	10xM14	VDISC
Karosa 930E, 940E	942 421 2512	80178	29061	02-	F	430	45	211	132	238	10xM14	VDISC
Sprinter 408	02 423 0112	80154	21592	96-	R	272	16	85	96	130	5x15	S/D 1CS1CB
Sprinter 408	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	V/D 1CS1CB
Sprinter 412TD	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	V/D 1CS1CB
Sprinter 412TD	902 423 0112	80154	21592	96-	R	272	16	85	96	130	5x15	S/D 1CS1CB
Sprinter 414	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	V/D 1CS1CB
Sprinter 414	902 423 0112	80154	21592	96-	R	272	16	85	96	130	5x15	S/D 1CS1CB
Tourino	942 421 2312	80178	29061	02-	F	430	45	211	132	238	10xM14	VDISC
Tourino	942 421 2512	80178	29061	02-	R	430	45	211	132	238	10xM14	VDISC
Tourismo	356 421 1012	61808	29030	95-	F	438	45	195	135	235	10xM14	VDISC
Tourismo	356 421 1012	61808	29030	95-	R	438	45	195	135	235	10xM14	VDISC
Touro	942 421 2312	80178	29061	02-	F	431	45	211	132	238	10xM14	VDISC
Touro	942 421 2512	80178	29061	02-	R	430	45	211	132	238	10xM14	VDISC
Traveliner TL12	638 421 0112	80155	23022	98-	F	276	22	67	60	112	5x15	1CS VDISC
Traveliner TL12	638 423 0112	80156	23020	98-	R	280	10	67	65	112	5x15	1CS SDISC
Traveliner TL13, TL14, TL16	638 421 0112	80155	23022	98-	F	276	22	67	60	112	5x15	1CS VDISC
Traveliner TL13, TL14, TL16	901 423 0412	80152	23021	98-	R	258	12	85	96	130	5x15	S/D 1CS1CB
Traveliner TL13, TL16	902 421 0312	80152	21576	98-	F	276	22	85	76	130	5x15	V/D 1CS1CB TL14, TL16
Traveliner TL13, TL14, TL16	902 423 0112	80154	21592	98-	R	272	16	85	96	130	5x15	S/D 1CS1CB

**MERCEDES BENZ PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Traveliner TL7	638 421 0112	80155	23022	98-	F	276	22	67	60	112	5x15	1CS VDISC
Traveliner TL7	638 423 0112	80156	23020	98-	R	280	10	67	65	112	5x15	1CS SDISC
Vario 512, 612, 614 - 16" Wheels	668 421 0112	80211	29835	96-	F	304	30	118	91	140	6xM12	VDISC
Vario 512, 612, 614 - 16" Wheels	668 423 0012	80212	29835	96-	R	304	30	157	121	192	6xM12	VDISC
Vario 512, 612, 614 - 16" Wheels	668 423 0412	80349	29835	96-	R	304	30	119	121	192	6xM12	VDISC ABS
Vario 810, 812, 814 - 17.5" Wheels	668 423 0112	80210	29835	96-	R	324	30	157	121	192	6xM12	VDISC
Vario 810, 812, 814 - 17.5" Wheels	668 423 0512	80348	29835	96-	R	324	30	119	121	192	6xM12	VDISC ABS
Vario 810, 812, 814 - 17.5" Wheels	670 421 0112	80209	29835	96-	F	324	30	118	91	140	6xM12	VDISC

**MERITOR**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
B Duco - 17.5" wheels	3095632	61868	29136	00-	F	337	30	91.5	100	120	10xM10	VDISC
B Duco - 1 7.5" wheels	3096553	61883	29136	00-	R	336	30	215	139	275	8x20	VDISC
D Duco - DMX axle code	68323825	80359	29125	00-	F	434	45	222	150	250	10xM16	ABS VDISC
D Duco - DMX axle code	68323825	80359	-	00-	R	434	45	222	150	250	10xM16	ABS VDISC
Elsa 2 - EMX axle code	68323825	80359	29131	80-	T	434	45	222	150	250	10xM16	ABS VDISC
19.5" wheels	3095672	61869	29137	00-	F	375	45	105.6	130	138	14x14.5	VDISC
19.5" wheels	3095673	61871	29137	00-	R	375	45	225	150	275	8x20	VDISC
DX195 - HMX axle code	21224263	61854	29124	99-05	T	378	45	225	150	275	8x24	VDISC
DX195 - HMX axle code	21225115	61852	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
DX195 - HMX axle code	21227349	61852	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
DX195 - HMX axle code	21227349A	80311	29124	05-	T	378	45	222	150	275	10xM16	ABS VDISC
DX195 - HMX axle code	MBR9014	61854	29124	05-	T	378	45	225	150	275	8x24	VDISC
Elsa 195 - KMX axle code	21224263	61854	29124	99-05	T	378	45	225	150	275	8x24	VDISC



APPLICATION CODES  
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 T = Threaded for withdrawing

**MERITOR (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Elsa 195 - KMX axle code	21225115	61852	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
Elsa 195 - KMX axle code	21227349	61852	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
Elsa 195 - KMX axle code	21227349A	80311	29124	05-	T	378	45	222	150	275	10xM16	ABS VDISC
Elsa 195 - KMX axle code	MBR9014	61854	29124	05-	T	378	45	225	150	275	8x24	VDISC
EX225	68323825	80359	29137	00-	T	434	45	222	150	250	10xM16	ABS VDISC
LM DX195	21225115	61850	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
LM DX195	21227349	61852	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
LM DX195	21227349A	80311	29124	05-	T	378	45	222	150	275	10xM16	ABS VDISC
LM Elsa 195	21225115	61857	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
LM Elsa 195	21227349	61852	29124	99-05	T	378	45	222	150	250	10xM16	VDISC
LM Elsa 195	21227349A	80311	29124	05-	T	378	45	222	150	275	10xM16	ABS VDISC
TM DX195	21224263	61854	29124	99-05	T	378	45	225	150	275	8x24	VDISC
TM DX195	MBR9014	61854	29124	05-	T	378	45	225	150	275	8x24	VDISC
TM Elsa 195	21224263	61854	29124	99-05	T	378	45	225	150	275	8x24	VDISC
TM Elsa 195	MBR9014	61854	29124	05-	T	378	45	225	150	275	8x24	VDISC

**MITSUBISHI**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Canter 35 3.5T	ML107005	61826	23501	99-	F	290	20	104	74	127	6x10.5	VDISC
Canter 63 6.3T	44383	61824	23941	99-	F	293	40	114	54	140	6xM12	VDISC
Canter 63 6.3T	MT1008	61828	23941	99-	R	-	-	-	-	-	-	VDISC
Canter 75 7.5T	QMK326334	61825	23941	99-	F	309	40	114	54	140	6xM12	VDISC
Canter 75 7.5T	QMK374048	61827	23941	99-	R	-	-	-	-	-	-	VDISC

**NEOPLAN (AUWATER)**

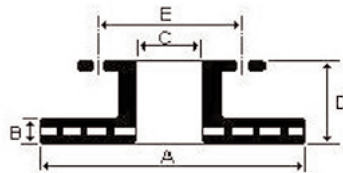
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Centroliner	B221412	80328	29061	92-	R	429	43	200	129	235	10xM16	VDISC
Centroliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Cityliner N116	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Cityliner N116	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Cityliner N116	B234110	61758	29030	92-	R	430	45	200	131	235	10xM16	VDISC

**NEOPLAN (AUWATER) (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Clubstar	675 421 0112	80318	29093	98-	F	377	45	106	134	138	14x14.5	VDISC
Clubstar	675 423 0312	80319	29093	98-	R	377	45	176	139	201	8xM14	VDISC
Economy	670 421 0112	60347	29835	98-	F	324	30	118	91	140	6xM12	VDISC
Euroliner	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Euroliner	B221412	80328	29061	92-	R	429	43	200	129	235	10xM16	VDISC
Euroliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Eurostar	356 421 1012	61808	29030	91-	F	438	45	195	135	235	10xM14	VDISC
Eurostar	356 421 1012	61808	29030	91-	R	438	45	195	135	235	10xM14	VDISC
Jetliner	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Jetliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
N Series	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
N Series	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Skyliner	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Skyliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Skyliner	E908472	61865	29093	-92	F	410	48	162	120	185	12xM16	VDISC
Spaceliner	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Spaceliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Starliner	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Starliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC
Transliner	B221412	80328	29061	92-	F	429	43	200	129	235	10xM16	VDISC
Transliner	B234110	61758	29030	92-	F	430	45	200	131	235	10xM16	VDISC

**NOGE**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Catalan 320	675 421 0112	80318	29093	98-	F	377	45	106	134	138	14x14.5	VDISC
Catalan 320	675 423 0312	80319	29093	98-	R	377	45	176	139	201	8xM14	VDISC
Catalan 350	81 50803 0021	80243	29030	98-	F	432	45	208	135	235	10xM16	VDISC
Catalan 350	81 50803 0021	80243	29030	98-	R	432	45	208	135	235	10xM16	VDISC
Catalan 350	81 50803 0028	80244	29030	98-	F	432	45	207.5	135	235	10xM16	VDISC ABS
Catalan 350	81 50803 0028	80244	29030	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS
Catalan 370	81 50803 0021	80243	29030	98-	F	432	45	208	135	235	10xM16	VDISC
Catalan 370	81 50803 0021	80243	29030	98-	R	432	45	208	135	235	10xM16	VDISC
Catalan 370	81 50803 0028	80244	29030	98-	F	432	45	207.5	135	235	10xM16	VDISC ABS
Catalan 370	81 50803 0028	80244	29030	98-	R	432	45	207.5	135	235	10xM16	VDISC ABS



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**OMNICOACH**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
CVE	3000230	61763	20835	95-	F	310	22	94	91	160	6x28,6x9	VDISC

**OPTARE PSV**

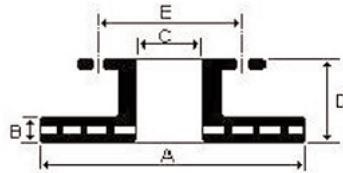
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Alero	21050006	61834	29121	01-	R	290	22	115	78	133	8x11	VDISC
Alero	21050008	61835	29138	01-	F	303	28	122	56	145	8x13	VDISC
Bonito	4041428	80180	23430	01-	F	294	24.5	80	45	100	5xM10	VDISC
CityPacer	281615283A	61874	-	86-	F	281	20	91	85	115	8x5T	VDISC
Metrorider	X1857658	60206	29302	89-	F	322	30	166	110	215	12xM12	VDISC
Metrorider	X1857658	60206	29302	89-	R	322	30	166	110	215	12xM12	VDISC
Nouvelle	OP1010	80209	20835	96-	F	324	30	118	91	140	6xM12	VDISC
Nouvelle	OP1011	80210	20835	96-	R	324	30	157	121	192	6xM12	VDISC
Nouvelle	OP1015	80348	20835	96-	R	324	30	119	121	192	6xM12	VDISC
Solera SR	675 421 0112	80318	29093	01/02-	F	377	45	106	134	138	14x14.5	VDISC
Solera SR	675 423 0312	80319	29093	01/02-	R	377	45	176	139	201	8xM14	VDISC
Solo - Air over hydraulic brake -	X1857658	60206	29302	88-02	R	322	30	166	110	215	12xM12	VDISC
Solo - Air over hydraulic brake -	X1857658	60206	29302	88-02	F	322	30	166	110	215	12xM12	VDISC
Solo - Pan17 brake	24070024	61831	29088	03/02-	R	330	34	150	119	138	12xM12	VDISC
Solo - Pan17 brake	24240014	61836	29088	03/02-	F	330	34	95	95	108	8x14	VDISC
Solo - Pan17 brake ABS	24240014	61832	29088	03/02-	F	330	34	117	123	138	12xM12	VDISC
Soroco 1CS1CB	902 421 0312	80152	21576	96-	F	276	22	85	76	130	5x15	VDISC
Soroco 1CS1CB	902 423 0112	80154	21621	96-	R	272	16	85	96	130	5x15	SDISC
Soroco 1CS1CB	902 423 0112	80154	23020	96-	R	272	16	85	96	130	5x15	SDISC
Soroco	904 423 0312	61810	29076	96-	R	285	22	120	94	145	6x15	VDISC

**OPTARE PSV (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Soroco Plus	905 421 0012	61820	-	01/00-	F	290	26	70	70	96	8x14.5	VDISC
Soroco Plus	905 420 0072	61819	-	01/00-	R	304	30	226	115	192	6xM12	VDISC
Starrider	670 421 0112	60347	29835	87-	F	324	30	118	91	140	6xM12	VDISC

**RENAULT**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
50 Series S35, S46, S56	0038326000	61760	29036	87-	F	298	15	94	73	118	6x13	VDISC
50 Series S56, S66	0038326200	61759	29036	87-	F	300	27	94	62	118	6x13	VDISC
B Series B70, B80, B90, B110, B120	5000396612	61882	29071	82-93	F	276	24	95	44	114	10x11	VDISC
B Series B70, B80, B90, B110, B120	5010216433	61839	29706	93-	F	276	24	102	44	120	10x11	VDISC
Magnum Series AE380, AE385, AE390	5000792539	60731	29043	90-93	F	440	44.5	131	100	165	10x17	2T VDISC
Magnum Series AE380, AE385, AE390, AE420, AE430, AE520, AE560	5010216437	60825	29090	93-00	F	438	45	131	97	165	10x17	2T VDISC
Magnum E Tech 400, 440, 480 - D Elsa 2 caliper	5010422363	60825	29131	02-	F	434	45	131	97	164	10x17	2T VDISC
Magnum E Tech 400, 440, 480 - D Elsa 2 caliper	5010422364	80357	29131	02-	R	434	45	224	160	256	12xM14	SDISC
Magnum E Tech 400, 440, 480 - D3 caliper	5010422363	60825	29030	02-	F	434	45	131	97	164	10x17	2T VDISC
Magnum E Tech 400, 440, 480 - D3 caliper	5010422364	80357	29030	02-	R	434	45	224	160	256	12xM14	SDISC
Major Range	5000792539	60731	29043	90-93	F	440	44.5	131	100	165	10x17	2T VDISC
Major Range	5010216437	60825	29030	93-00	F	438	45	131	97	165	10x17	2T VDISC
Manager Range	5000792539	60731	29043	90-93	F	440	44.5	131	100	165	10x17	2T VDISC
Manager Range	5010216437	60825	29030	93-00	F	438	45	131	97	165	10x17	2T VDISC
Mascott	5010260604	61846	29160	01/99-	F	290	22	102	43	121	10x10.5	VDISC
Mascott	5010260603	61847	29160	01/99-	F	290	26	102	43	121	10x10.5	VDISC
Mascott	5010260609	61848	29121	01/99-	R	290	22	115	78	133	8x11	VDISC



APPLICATION CODES  
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**RENAULT (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Messenger B70-120	5000396612	61882	29071	82-93	F	276	24	95	44	114	10x11	VDISC
Messenger B70-120	5010216433	61839	29706	93-	F	276	24	102	44	120	10x11	VDISC
Midliner M Series M120 - M250	5000545242	60627	29100	89-01	F	354	30	128	82	151	10x12.3	VDISC
Midliner S Series S12, S13	5000545242	60627	29013	87-91	F	354	30	128	82	151	10x12.3	VDISC
Midliner S Series S120 - S210	5010216931	80358	29065	95-	F	304	30	250	134	205	6x21	VDISC
Midliner S Series S120 - S210	5000545242	60627	29065	90-95	F	354	30	128	82	151	10x12.3	VDISC
Midliner S Series S120 - S210	5010216932	80355	29067	95-	F	322	30	290	140	245	6x21	VDISC
Midlum 17.5" Wheels - Wabco brakes	5010422262	61841	29088	99-	F	330	34	95	80	118	10x15	VDISC
Midlum 17.5" Wheels - Wabco brakes	5010422263	61842	29088	99-	R	330	34	194	137	245	6x21	VDISC
Midlum 19.5" Wheels - Meritor brakes	5010260218	61840	29099	99-	F	380	45	117	85	144	10x15	VDISC
Midlum 19.5" Wheels - Meritor brakes	5010525014	61844	29099	99-	F	375	45	117	99	144	10x15	VDISC
Midlum 19.5" Wheels - Meritor brakes	5010525308	61849	29099	99-	F	328	36	95	80	120	10x13.5	VDISC
Midlum 19.5" Wheels - Meritor brakes	5010525362	61843	29099	99-	R	375	45	222	166	275	8x22.5	VDISC
Midlum 19.5" Wheels - Meritor brakes	5010525364	61845	29099	99-	R	375	45	262	167	335	10x33	VDISC
Midlum 19.5" Wheels - Pan19-1 plus brakes	5010260218	61840	29126	03-	F	380	45	117	85	144	10x15	VDISC
Midlum 19.5" Wheels - Pan19-1 plus brakes	5010525014	61844	29126	03-	F	375	45	117	99	144	10x15	VDISC
Midlum 19.5" Wheels - Pan19-1 plus brakes	5010525308	61849	29126	03-	F	328	36	95	80	120	10x13.5	VDISC
Midlum 19.5" Wheels - Pan19-1 plus brakes	5010525362	61843	29126	03-	R	375	45	222	166	275	8x22.5	VDISC

## RENAULT (cont'd)

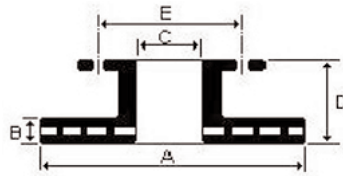
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Midlum 19.5" Wheels - Pan19-1 plus brakes	5010525364	61845	29126	03-	R	375	45	262	167	335	10x33	VDISC
Midlum 19.5" Wheels - Pan19-2 brakes	5010260218	61840	29142	99-03	F	380	45	117	85	144	10x15	VDISC
Midlum 19.5" Wheels - Pan19-2 brakes	5010525014	61844	29142	99-03	F	375	45	117	99	144	10x15	VDISC
Midlum 19.5" Wheels - Pan19-2 brakes	5010525308	61849	29142	99-03	F	328	36	95	80	120	10x13.5	VDISC
Midlum 19.5" Wheels - Pan19-2 brakes	5010525362	61843	29142	99-03	R	375	45	222	166	275	8x22.	VDISC
Midlum 19.5" Wheels - Pan19-2 brakes	5010525364	61845	29142	99-03	R	375	45	262	167	335	10x33	VDISC
Premium	5010216437	60825	29090	96-02	F	438	45	131	97	165	10x17	2T VDISC
Premium	81 50803 0041	80343	29131	02-	R	432	45	208	135	235	10xM16	VDISC
R Range R310 - R420	5000792539	60731	29093	84-	F	440	44.5	131	100	165	10x17	2T VDISC

## RENAULT PSV

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
50 Series Minibus	0038326200	61759	29036	87-	F	300	27	94	62	118	6x13	VDISC
Agora	5010216437	60825	29030	95-	F	438	45	131	97	165	10x17	2T VDISC
FR1	5000790539	61837	29044	84-93	F	400	42	175	90	197	12x12.3	VDISC
Illiade	5010216437	60825	29090	98-	F	438	45	131	97	165	10x17	2T VDISC
Midliner PP160	5000545242	60627	29062	92-93	F	354	30	128	82	151	10x12.3	VDISC
R312	5010019249	61838	29072	89-	F	350	30	145	73	165	16x13	VDISC
R312	5010019249	61838	29072	89-	R	350	30	145	73	165	16x13	VDISC
S46	0038326000	61760	29036	87-	F	298	15	94	73	118	6x13	SDISC

## SAF/SAUER

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
19.5" wheels - Wabco Pan19	4079000700	80312	29126	98-	T	375	45	131	139.5	168	12x19	VDISC
19.5" wheels - Knorr SB6000	4079000400	61698	29094	98-	T	377	45	169	157	275	8x23	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**SAF/SAUER (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
22.5" wheels - Haldex	4079000300	80237	29143	98-	T	430	45	-	160	335	10x23	VDISC
22.5" wheels - Haldex	4079000500	80236	29143	98-	T	430	45	131	130	168	12x19	3T VDISC
22.5" wheels - Knorr SB7000	4079000300	80237	29061	98-	T	430	45	-	160	335	10x23	VDISC
22.5" wheels - Knorr SB7000	4079000500	80236	29061	98-	T	430	45	131	130	168	12x19	3T VDISC
22.5" wheels - Wabco Pan22	4079000500	80236	-	03-	T	430	45	131	130	168	12x19	3T VDISC
22.5" wheels - Wabco Pan22	4079000500	80236	29154	98-03	T	430	45	131	130	168	12x19	3T VDISC
Intradisc 19.5" wheel - Wabco Pan19-1	4079001000	61715	29126	04-	T	376	45	170	57	190	10x13	VDISC
Intradisc 19.5" wheel - Knorr SB6000, SN6000	4079001000	61715	29094	04-	T	376	45	170	57	190	10x13	VDISC
Intradisc 19.5" wheels - Haldex	4079001300	61862	29120	04-	T	430	45	252	47	190	10x13	VDISC
Intradisc 19.5" wheels - Knorr SB6000, SN6000	4079001001	61861	29126	04-	T	376	45	170	57	190	10x13	VDISC
Intradisc 19.5" wheels - Knorr SB7000, SN7000	4079001300	61862	29042	04-	T	430	45	252	47	190	10x13	VDISC
Intradisc 19.5" wheels - PAN19-1	4079001001	61861	29126	04-	T	376	45	170	57	190	10x13	VDISC
Intradisc 19.5" wheels - Wabco PAN22-1	4079001300	61862	29162	04-	T	430	45	252	47	190	10x13	VDISC
Intradisc 22.5" wheel - Haldex Modul X MKII, III, IV	4079001300	61716	29143	04-	T	430	45	252	47	190	10x13	VDISC
Intradisc 22.5" wheel - SB7000, SN7000	4079001300	61716	29061	04-	T	430	45	252	47	190	10x13	VDISC
Intradisc 22.5" wheel - Wabco Pan22-1	4079001300	61716	-	04-	T	430	45	252	47	190	10x13	VDISC

**SCANIA**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
4 Series Models 94, 124, 144 - Haldex caliper	1415147	61863	29120	96-	R	430	45	203	131	235	10xM16	VDISC
4 Series Models 94, 124, 144 - Haldex caliper	1402272	80162	29143	96-	F	430	45	208	131	237	10xM16	VDISC

## SCANIA (cont'd)

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
4 Series Models 94, 124, 144 - Haldex caliper	1402272	80162	29143	96-	R	430	45	208	131	237	10xM16	VDISC
4 Series Models 94, 124, 144 - Knorr caliper	1415147	61863	29042	96-	R	430	45	203	131	235	10xM16	VDISC
4 Series Models 94, 124, 144 - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
4 Series Models 94, 124, 144 - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC

## SCANIA PSV

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Omnidecker - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Omnidecker - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC

## SEDDON ATKINSON

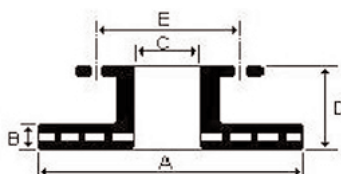
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Euromover	01906461	80217	29105	97-	F	436	45	210	139	240	12xM16	VDISC

## SITCAR PSV

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
PSV	668 423 0112	80210	29835	00-	R	324	30	157	121	192	6xM12	VDISC
PSV	668 423 0512	80348	29835	00-	R	324	30	119	121	192	6xM12	VDISC ABS
PSV	670 421 0112	80209	29835	00-	F	324	30	118	91	140	6xM12	VDISC

## SMB

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Haldex Brakes DB22	M069018	80361	29143	96-	T	430	45	280	155	335	10x26.5	VDISC ABS
Knorr D1 axle	M069018	80361	29061	96-	T	430	45	280	155	335	10x26.5	VDISC ABS
Knorr H1 axle	M069018	80361	29061	96-	T	430	45	280	155	335	10x26.5	VDISC ABS
Knorr K1 axle	M069018	80361	29061	96-	T	430	45	280	155	335	10x26.5	VDISC ABS
Knorr K5 axle	M078157	80360	29094	96-	T	377	45	169	139	196	8xM14	VDISC ABS
Knorr SB6000	M078157	80360	29094	96-	T	377	45	169	139	196	8xM14	VDISC ABS
Pan19	M078157	80360	29126	96-	T	377	45	169	139	196	8xM14	VDISC ABS
Pan19-1	M078157	80360	29126	96-	T	377	45	169	139	196	8xM14	VDISC ABS
Pan19-1plus	M078157	80360	29126	96-	T	377	45	169	139	196	8xM14	VDISC ABS
Pan19-2	M078157	80360	29141	96-	T	377	45	169	139	196	8xM14	VDISC ABS
Pan22	M069018	80361	29143	96-	T	430	45	280	155	335	10x26.5	VDISC ABS
Pan22-1	M069018	80361	-	96-	T	430	45	280	155	335	10x26.5	VDISC ABS



**APPLICATION CODES**  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**VAN HOOL PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
A300 URBAIN	E908472	61865	29747	96-	F	410	48	162	120	185	12xM16	VDISC
AA42, AA440	E908472	61865	29747	96-	F	410	48	162	120	185	12xM16	VDISC
Alicron - MAN Chassis -	81 50803 0009	80113	29030	96-	F	438	45	200	135	235	10xM16	VDISC
Alicron - MAN Chassis -	81 50803 0009	80113	29030	96-	R	438	45	200	135	235	10xM16	VDISC
Alizee 12m - Scania Chassis - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
Alizee 12m - Scania Chassis - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
Astron T917	81 50803 0009	80113	29030	95-	F	438	45	200	135	235	10xM16	VDISC
Astron T917	81 50803 0009	80113	29030	95-	R	438	45	200	135	235	10xM16	VDISC
EOS 200	179241111131	61796	29747	80-	F	406	48	194	175	215	10xM16	VDISC
EOS 200	179241111131	61796	29747	80-	R	406	48	194	175	215	10xM16	VDISC
EOS 80	E908472	61865	29747	95-	F	410	48	162	120	185	12xM16	VDISC
EOS 90, 100, 200, 230, 233	E908472	61865	29093	95-	F	410	48	162	120	185	12xM16	VDISC
EOS 90, 100, 200, 230, 233	E908472	61865	29042	95-	F	410	48	162	120	185	12xM16	VDISC
EOS 90, 100, 200, 230, 233 -	1402272	61865	29061	96-	F	430	45	208	131	237	10xM16	VDISC
EOS 90, 100, 200, 230, 233 -	1402272	61865	29061	96-	R	430	45	208	131	237	10xM16	VDISC
EOS 90, 100, 200, 230, 233 - Scania Chassis - Knorr caliper	1402272	80162	29061	96-	F	430	45	208	131	237	10xM16	VDISC
EOS 90, 100, 200, 230, 233 - Scania Chassis - Knorr caliper	1402272	80162	29061	96-	R	430	45	208	131	237	10xM16	VDISC
T915	81 50803 0009	80113	29030	95-	F	438	45	200	135	235	10xM16	VDISC
T915	81 50803 0009	80113	29030	95-	R	438	45	200	135	235	10xM16	VDISC
T917	81 50803 0009	80113	29030	95-	F	438	45	200	135	235	10xM16	VDISC

**VAN HOOL PSV (cont'd)**

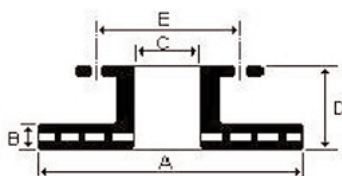
Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
T917	81 50803 0009	80113	29030	95-	R	438	45	200	135	235	10xM16	VDISC
T918	81 50803 0009	80113	29030	95-	F	438	45	200	135	235	10xM16	VDISC
T918	81 50803 0009	80113	29030	95-	R	438	45	200	135	235	10xM16	VDISC

**VOLKSWAGEN**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
LT28	2DO615301A	61875	21576	96-	F	276	22	85	77	130	5x15	VDISC
LT28	2DO615601A	61876	23021	96-	R	272	16	85	96	130	5x15	VDISC
LT28	2DO615601C	61878	23021	96-	R	258	12	85	97	130	5x15	VDISC
LT28	2DO615601B	61877	23021	96-	R	285	22	120	94	145	6x15	VDISC
LT35	281615283A	61874	20280	78-95	F	281	20	91	85	115	8x5T	VDISC
LT35	2DO615301A	61875	21576	96-	F	276	22	85	77	130	5x15	VDISC
LT35	2DO615601A	61876	23021	96-	R	272	16	85	96	130	5x15	VDISC
LT35	2DO615601B	61877	23021	96-	R	285	22	120	94	145	6x15	VDISC
LT35	2DO615601C	61878	23021	96-	R	258	12	85	97	130	5x15	VDISC
LT40	281615283A	61874	20280	78-95	F	281	20	91	85	115	8x5T	VDISC
LT45	281615283A	61874	20280	78-95	F	281	20	91	85	115	8x5T	VDISC
LT46	2DO615601B	61877	29076	96-	R	285	22	120	94	145	6x15	VDISC
LT46	2DO615301A	61875	29076	96-	F	276	22	85	77	130	5x15	VDISC
LT46	2DO615601A	61876	29076	96-	R	272	16	85	96	130	5x15	VDISC
LT50	281615283A	61874	20280	78-95	F	281	20	91	85	115	8x5T	VDISC
LT55	281615283A	61874	20280	78-95	F	281	20	91	85	115	8x5T	VDISC

**VOLVO**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
FH Series	3092710	61870	29125	00-	F	434	45	-	-	45	-	VDISC
FH Series	3092710	61870	29125	00-	R	434	45	-	-	45	-	VDISC
FH Series	85103803	61872	29125	00-	F	434	45	-	-	45	-	VDISC
FH Series	85103803	61872	29125	00-	R	434	45	-	-	45	-	VDISC
FH Series	85103809	61873	29151	00-	R	377	45	-	-	45	-	SDISC
FL C Series FLC5	6779208.5	61866	29302	97-99	F	322	30	132	90	154	6xM14	VDISC
FL C Series FLC5	6779209.3	61867	29302	97-99	R	322	30	164	115	192	6xM12	VDISC
FL C Series FLC7	6774686.7	60358	29302	97-99	F	322	30	132	90	154	8xM14	VDISC
FL C Series FLC7	6775227.9	80160	29302	97-99	R	322	30	216	138	275	8x13	VDISC



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**VOLVO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
FL C Series FLC7	6796864	80161	29302	97-99	R	322	30	216	138	275	8x13	VDISC ABS
FL C Series FLC8	6774686.7	60358	29302	97-99	F	322	30	132	90	154	8xM14	VDISC
FL C Series FLC8	6775227.9	80160	29302	97-99	R	322	30	216	138	275	8x13	VDISC
FL C Series FLC8	6775227.9	80160	29302	97-99	R	322	30	216	138	275	8x13	VDISC
FL C Series FLC8	6796864	80161	29302	97-99	R	322	30	216	138	275	8x13	VDISC ABS
FL C Series FLC8	6796864	80161	29302	97-99	R	322	30	216	138	275	8x13	VDISC ABS
FL Series - B17.5" Wheels - B Duco Caliper	3095632	61868	29136	00-	F	337	30	91.5	100	120	10xM10	SDISC
FL Series - 17.5" Wheels - B Duco Caliper	3096553	61883	29136	00-	R	336	30	215	139	275	8x20	SDISC
FL Series - 19.5" Wheels - C Duco Caliper	3095672	61869	29137	00-	F	375	45	105.6	130	138	14x14.5	SDISC
FL Series - 19.5" Wheels - C Duco Caliper	3095673	61871	29137	00-	R	375	45	225	150	275	8x20	SDISC
FL Series - 22.5" Wheels - D Duco Caliper	3092710	61870	29125	00-	F	434	45	-	45	-	-	SDISC
FL Series - 22.5" Wheels - D Duco Caliper	3092710	61870	29125	00-	R	434	45	-	45	-	-	SDISC
FL Series - 22.5" Wheels - D Duco Caliper	85103803	61872	29125	00-	F	434	45	-	45	-	-	VDISC
FL Series - 22.5" Wheels - D Duco Caliper	85103803	61872	29125	00-	R	434	45	-	45	-	-	VDISC
FL4 Series FL4.06, 4.08, 4.11	6779208.5	61866	29302	87-90	F	322	30	132	90	154	6xM14	VDISC
FL4 Series FL4.06, 4.08, 4.11	6779209.3	61867	29302	87-90	R	322	30	164	115	192	6xM12	VDISC
FL6 Series FL6.08,6.09, 6.10, 6.11	6774686.7	60358	29302	87-90	F	322	30	132	90	154	8xM14	VDISC
FL6 Series FL6.08, 6.09, 6.10, 6.11	6775227.9	80160	29302	87-90	R	322	30	216	138	275	8x13	VDISC
FL6 Series FL6.08, 6.09, 6.10, 6.11	6796864	80161	29302	87-90	R	322	30	216	138	275	8x13	VDISC ABS
FL6 Series FL6.18	3092710	61870	29125	00-	F	434	45	-	45	-	-	SDISC
FL6 Series FL6.18	3092710	61870	29125	00-	R	434	45	-	45	-	-	SDISC

**VOLVO (cont'd)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
FM Series	3092710	61870	29125	00-	F	434	45	-	45	-	-	SDISC
FM Series	3092710	61870	29125	00-	R	434	45	-	45	-	-	SDISC
FM Series	85103803	61872	29125	00-	F	434	45	-	45	-	-	VDISC
FM Series	85103803	61872	29125	00-	R	434	45	-	45	-	-	VDISC
FM Series	85103809	61873	29151	00-	R	377	45	-	45	-	-	SDISC
FS Series FS7.16, 7.17, 7.18, 7.19	6774686.7	60358	29039	91-	F	322	30	132	90	154	8xM14	VDISC

**VOLVO PSV**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
B10B	3112965/3	80317	29090	95-	F	438	45	205	127	235	10xM16	VDISC
B10L	8551042	61870	29125	99-	F	434	45	-	45	-	-	SDISC
B10L	8551042	61870	29125	99-	R	434	45	-	45	-	-	SDISC
B10L	85103803	61872	29125	99-	R	434	45	-	45	-	-	VDISC
B10L	85103803	61872	29125	99-	F	434	45	-	45	-	-	VDISC
B10L	3112965/3	80317	29090	95-98	F	438	45	205	127	235	10xM16	VDISC
B12	3092710	61870	29125	00-	R	434	45	-	45	-	-	SDISC
B12	3092710	61870	29125	00-	F	434	45	-	45	-	-	SDISC
B12	85103803	61872	29125	00-	F	434	45	-	45	-	-	VDISC
B12	85103803	61872	29125	00-	R	434	45	-	45	-	-	VDISC
B12	3112965/3	80317	29090	95-00	F	438	45	205	127	235	10xM16	VDISC
B7	3092710	61870	29125	00-	F	434	45	-	45	-	-	SDISC
B7	3092710	61870	29125	00-	R	434	45	-	45	-	-	SDISC
B7	85103803	61872	29125	00-	F	434	45	-	45	-	-	VDISC
B7	85103803	61872	29125	00-	R	434	45	-	45	-	-	VDISC
B7	3112965/3	80317	29090	95-00	F	438	45	205	127	235	10xM16	VDISC
Merit - Pan19-1 plus	1142086	61765	29126	02-	F	377	45	117	112	144	10x15	VDISC
Merit - Pan19-1 plus	1142132	61766	29126	02-	R	377	45	169	140	196	8xM14	VDISC
Merit - Pan19-2	1142086	61765	29119	02-	F	377	45	117	112	144	10x15	VDISC
Merit - Pan19-2	1142132	61766	29119	02-	R	377	45	169	140	196	8xM14	VDISC

**YORK (HENDRICKSON)**

Application	O.E Ref	TTC	WVA	Year	Pos	A	B	C	D	E	F	Holes
Knorr SB5000 17.5" Wheels	YO1025	80246	29115	98-	T	335	34	145	111	177	8xM12	VDISC
Knorr SB6000 19.5" Wheels	YO1024	61880	29093	98-	T	377	45	176	139	201	8xM14	VDISC
Knorr SB7000 22.5" Wheels	1137415	80178	29061	98-	T	430	45	211	132	238	10xM14	VDISC

# O.E Cross References

<b>ALEXANDER PSV</b>	<b>TTC</b>
3112965/3	80317
668 423 0112	80210
670 421 0112	80209

<b>AYATS PSV</b>	<b>TTC</b>
1402272	80162

<b>BMC PSV</b>	<b>TTC</b>
57RS300820	80149

<b>BERKHOF PSV</b>	<b>TTC</b>
1402272	80162
653565	80222

<b>BOVA PSV</b>	<b>TTC</b>
0299095	80111
B204556	80327
B221412	80328

<b>BPW</b>	<b>TTC</b>
0308834010	0308834010
0308834020	0308834020
0308834030	0308834030
0308835010	0308835010

<b>CAETANO PSV</b>	<b>TTC</b>
653565	80222
81 50803 0021	80243

<b>DAF</b>	<b>TTC</b>
1387439	61764
1400069	80324
1400163	80322
1400273	80323
1400284	80325
1403758	80326
MAK2487	80321
NJK2785	80215
RAK7404	80320

<b>DAF PSV</b>	<b>TTC</b>
1387439	61764
0299095	80111
1142086	61765
1142132	61766
B221412	80328

<b>DEN OUDSTEN</b>	<b>TTC</b>
68323825	80359

<b>DENNIS</b>	<b>TTC</b>
653984/16	60627
655750	61767

<b>DENNIS PSV</b>	<b>TTC</b>
653565	80222
654646	61770
655750	61767
658470/39	61769
658517/37	61768
II32978F	61771

<b>DISCOS TRAILERS</b>	<b>TTC</b>
1137415	80178
YO1024	61880
YO1025	80246

<b>ERF</b>	<b>TTC</b>
306815/8	61774
81 50803 0028	61775
ER1041	80343

<b>ESKER TOURING</b>	<b>TTC</b>
675 421 0112	80318
675 423 0312	80319

<b>FODEN</b>	<b>TTC</b>
II39541F	61764

<b>FORD</b>	<b>TTC</b>
4041428	80180
5029815	80108
5029816	80109
6172906	60200

<b>FRUEHAUF</b>	<b>TTC</b>
103836	80240

<b>GIGANT</b>	<b>TTC</b>
9267073	61857
9267021	61855
9267023	61856
9267035	61858
9267037	61698
9267038	61860
9267066	61859

<b>IRISBUS PSV</b>	<b>TTC</b>
42471150	61792
42471214	61791

<b>IRIZAR PSV</b>	<b>TTC</b>
1402272	80162

<b>ISUZU</b>	<b>TTC</b>
897015857	61779
897031007	61777
897168631	61778

<b>IVECO</b>	<b>TTC</b>
1908772	61784
1908773	61785
42470836	80330
01904693	60726
01906461	80217
01907568	80147
01907569	80148
01908614	60727
01908773	61785
1906466	80336
1907528	61780
1907529	61781
1907530	60714

<b>IVECO</b>	<b>TTC</b>
1907725	60712
1908577	61780
1908772	61784
2991646	80331
2992271	80334
2992291	80335
2992477	80337
2992635	61793
42471034	80331
42471150	61792
42471214	61791
7171255	61782
7171274	60728
8582290	80333
8584182	60725
93800492	60723

<b>IVECO FORD</b>	<b>TTC</b>
1907528	61780
1907529	61781
1907530	60714
1907725	60712
6172906	60200

<b>IVECO PSV</b>	<b>TTC</b>
1904535	61788
01904693	60726
01908773	61785
1904533	61783
1904534	61787
1907764	61786
1908772	61784
42471150	61792
42471214	61791
8584182	60725
93161407	61789

<b>KASSBOHRER PSV</b>	<b>TTC</b>
17924111131	61796
179241111307	61795
8285390000	61797
B221412	80328

<b>LDV</b>	<b>TTC</b>
AAR5516	60204
KAM2107	60203
NJK2877	61802

<b>LECINENA TRAILER</b>	<b>TTC</b>
120015000005	61804
120015000021	61803

<b>LEYLAND PSV</b>	<b>TTC</b>
MAK2487	80321

<b>MAN</b>	<b>TTC</b>
81508030053	61805
81508030063	61806
81 50803 0009	80113
81 50803 0010	80112

# O.E Cross References

<b>MAN (cont'd)</b>	<b>TTC</b>
81 50803 0021	80243
81 50803 0022	80149
81 50803 0023	80242
81 50803 0026	80150
81 50803 0027	80214
81 50803 0028	80244
81 50803 0039	80344
81 50803 0041	80343

<b>MAN PSV</b>	<b>TTC</b>
675 421 0112	80318
675 423 0312	80319
81 50803 0009	80113
81 50803 0010	80112
81 50803 0021	80243
81 50803 0022	80149
81 50803 0023	80242
81 50803 0026	80150
81 50803 0028	80244
81 50803 0041	80343

<b>MCW</b>	<b>TTC</b>
X1857658	60206

<b>MERCEDES BENZ</b>	<b>TTC</b>
601 421 0312	61807
638 421 0112	80155
638 423 0112	80156
639 421 0012	61817
639 423 0112	61818
668 421 0112	80211
668 423 0012	80212
668 423 0112	80210
668 423 0412	80349
668 423 0512	80348
669 421 0112	60700
669 421 0512	61809
670 421 0112	60347
670 421 0112	80209
675 421 0112	80318
675 423 0312	80319
901 423 0412	80152
902 423 0112	80154
903 421 0012	61820
904 423 0312	61810
905 420 0072	61819
906 421 0012	61821
906 423 0012	61822
906 423 0112	61823
942 421 1212	80163
970 421 0112	80201
970 423 0212	61811
970 423 0412	80246
970 423 0512	80203
970 423 0612	61812

<b>MERCEDES BENZ PSV</b>	<b>TTC</b>
356 421 1012	61808
627 421 0012	61815
638 421 0112	80155
638 423 0112	80156

<b>MERCEDES BENZ PSV (cont'd)</b>	<b>TTC</b>
668 421 0112	80211
668 423 0012	80212
668 423 0112	80210
668 423 0412	80349
668 423 0512	80348
669 421 0112	60700
669 421 0512	61809
670 421 0112	60347
670 421 0112	80209
901 423 0412	80152
902 423 0112	80154
942 421 2312	80178
MNE1101	61815

<b>MERITOR</b>	<b>TTC</b>
21224263	61854
21225115	61852
21227349A	80311
3095632	61868
3095672	61869
3095673	61871
3096553	61883
68323825	80359
MBR9014	61854
RO1029	61853

<b>MITSUBISHI</b>	<b>TTC</b>
44383	61824
ML107005	61826
MT1008	61828
QMK326334	61825
QMK374048	61827

<b>NEOPLAN (AUWATER)</b>	<b>TTC</b>
356 421 1012	61808
670 421 0112	60347
675 421 0112	80318
675 423 0312	80319
B221412	80328
B234110	61758
E908472	61865

<b>NOGE</b>	<b>TTC</b>
675 421 0112	80318
675 423 0312	80319
81 50803 0021	80243
81 50803 0028	80244

<b>OMNICOACH</b>	<b>TTC</b>
3000230	61763

<b>OPTARE PSV</b>	<b>TTC</b>
21050006	61834
21050008	61835
24070024	61831
24240014	61836
281615283A	61874
4041428	80180
670 421 0112	60347
675 421 0112	80318

<b>OPTARE PSV</b>	<b>TTC</b>
675 423 0312	80319
902 421 0312	80152
902 423 0112	80154
904 423 0312	61810
905 420 0072	61819
905 421 0012	61820
X1857658	60206
24240014	61832

<b>RENAULT</b>	<b>TTC</b>
0038326000	61760
0038326200	61759
5000396612	61882
5000545242	60627
5000792539	60731
5010216433	61839
5010216437	60825
5010216931	80358
5010216932	80355
5010260218	61840
5010260603	61847
5010260604	61846
5010260609	61848
5010422262	61841
5010422263	61842
5010422363	60825
5010422364	80357
5010525014	61844
5010525308	61849
5010525362	61843
5010525364	61845
81 50803 0041	80343

<b>RENAULT PSV</b>	<b>TTC</b>
0038326000	61760
0038326200	61759
5000545242	60627
5000790539	61837
5010019249	61838
5010216437	60825

<b>SAF/SAUER</b>	<b>TTC</b>
4079001000	61715
4079001001	61861
4079001300	61862
4079001300	61716
4079000300	80237
4079000400	61698
4079000500	80236
4079000700	80312

<b>SCANIA</b>	<b>TTC</b>
1402272	80162
1415147	61863

<b>SCANIA PSV</b>	<b>TTC</b>
1402272	80162

<b>SEDDON ATKINSON</b>	<b>TTC</b>
01906461	80217

# O.E Cross References

**SITCAR PSV**
**TTC**

668 423 0112	80210
668 423 0512	80348
670 421 0112	80209

**SMB**
**TTC**

M069018	80361
M078157	80360

**VAN HOOL PSV**
**TTC**

1402272	80162
179241111131	61796
81 50803 0009	80113
E908472	61865

**VOLKSWAGEN**
**TTC**

281615283A	61874
2DO615301A	61875
2DO615601A	61876
2DO615601B	61877
2DO615601C	61878

**VOLVO**
**TTC**

3092710	61870
85103803	61872
85103809	61873
3095632	61868
3095672	61869
3095673	61871
3096553	61883
6774686.7	60358
6775227.9	80160
6779208.5	61866
6779209.3	61867
6796864	80161

**VOLVO PSV**
**TTC**

3092710	61870
85103803	61872
1142086	61765
1142132	61766
3112965/3	80317

**YORK**
**TTC**
**(HENDRICKSON)**

1137415	80178
YO1024	61880
YO1025	80246

# Alternative References

<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>
BO1001	80327	IV1067	80336	MT1008	61828
BO1002	80328	IV1068	61791	OP1012	61831
BO1003	61758	IV1069	61792	OP1013	61832
BP1017	61856	IV1074	61793	OP1016	61834
BP1022	61855	KA1001	61794	OP1017	61835
BP1024	61857	KA1002	61795	OP1018	61836
CD1020	61759	KA1003	61796	RN1008	60627
CD1024	61760	KA1006	61797	RN1013	60731
CV1001	61763	LE1091	60203	RN1018	61882
DA1019	80111	LE1093	60205	RN1019	60825
DA1043	61764	LE1103	60204	RN1026	61837
DA1043 C/W KIT	61748	LE1112	80321	RN1027	61838
DA1044	80322	LE1124	80215	RN1028	61839
DA1045	80323	LE1131	61802	RN1031	80358
DA1046	80324	LEC1001	61803	RN1032	80355
DA1047	80325	LEC1002	61804	RN1034	61840
DA1048	80326	MAN1003	80112	RN1035	61841
DA1049	61749	MAN1005	80113	RN1036	61842
DA1049	61765	MAN1006	80150	RN1037	61843
DA1050	61750	MAN1015	80214	RN1038	61844
DA1050	61766	MAN1017	80149	RN1039	61845
DE1032	60627	MAN1020	80243	RN1041	60825
DE1039	80222	MAN1021	80244	RN1042	80357
DE1041	61767	MAN1023	80242	RN1045	61846
DE1049	61768	MAN1024	80344	RN1046	61847
DE1050	61769	MAN1025	80343	RN1047	61848
DE1052	61770	MAN1026	61805	RN1048	61849
DE1053	61771	MAN1027	61806	RO1021	61852
ER1045	61774	MCW1007	60206	RO1028	80359
ER1048	61775	MNE1027	60700	RO1029	61853
FD1022	60200	MNE1028	60347	RO1030	80311
FD1039	80145	MNE1041	60817	RO1031	61854
FD1040	80146	MNE1057	61807	SAE1005	61859
FD1042	80180	MNE1060	80152	SAE1006	61860
IS1001	61776	MNE1062	80154	SAE1007	61698
IS1002	61777	MNE1063	61808	SAU1017	61698
IS1003	61778	MNE1065	80163	SAU1018	80236
IS1007	61779	MNE1067	80211	SAU1019	80237
IV1002	60725	MNE1068	80212	SAU1023	80312
IV1006	60712	MNE1069	80209	SAU1030	61715
IV1006WS	61780	MNE1070	80210	SAU1031	61716
IV1007WS	61781	MNE1071	80155	SAU1031	61862
IV1009	60714	MNE1073	61809	SC1023	80162
IV1013	60723	MNE1075	80201	SC1025	61863
IV1016	60728	MNE1076	80246	SMB1001	80360
IV1017	61782	MNE1077	80318	SMB1002	80361
IV1018	80147	MNE1078	80319	VH1002	61865
IV1019	80148	MNE1079	61810	VO1028	61866
IV1021	60726	MNE1080	80349	VO1029	60358
IV1023	80333	MNE1081	80348	VO1036	80160
IV1027	60727	MNE1082	80203	VO1045	61867
IV1030	61783	MNE1092	61811	VO1051	80161
IV1039	61784	MNE1093	61812	VO1060	80317
IV1040	61785	MNE1101	61815	VO1066	61868
IV1042	61786	MNE1102	61816	VO1067	61869
IV1043	61787	MNE1103	61817	VO1068	61870
IV1044	61788	MNE1104	61818	VO1069	61883
IV1045	80217	MNE1105	61819	VO1070	61871
IV1050	61789	MNE1106	61820	VO1071	61872
IV1054	80330	MNE1109	61821	VO1072	61873
IV1055	80331	MNE1110	61822	VW1002	61874
IV1055	80331	MNE1111	61823	VW1004	61875
IV1056	80331	MT1001	61824	VW1006	61876
IV1064	80337	MT1002	61825	VW1007	61877
IV1065	80334	MT1004	61826	VW1008	61878
IV1066	80335	MT1007	61827		

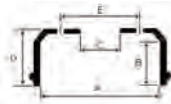
**BRAKE  
D  
R  
U  
M**

**BRAKE  
D  
R  
U  
M**



# USER GUIDE

Please find below a detailed illustration on how to use the TTC Brake Drum section.



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

MAKE / MODEL	OEM X TTC	MODEL	POS	A	B	C	D	E	F	Extra Holes	
<b>ALEXANDER PSV</b>	<b>595224</b>	<b>60340</b>	Futura FHD - All models	F	420	168	285	232	335	10x24	4CB2T
	638170	60340	Futura FHD - All models	F	420	168	285	232	335	10x24	4CB2T
	665795	60340	Futura FHD - All models	F	420	168	285	232	335	10x24	4CB2T
	94904	60340	Futura FHD - All models	F	420	168	285	232	335	10x24	4CB2T
	595222	60342	ALX300 12m - Daf Chassis	R	420	216	285	284	335	10x24	2CB2T
	7E+06	60637	ALX200 9.5 - 10.8m	F/R	360	184	228	248	275	8x21.5	2T
	2E+06	60691	ALX300 12m - Volvo Chassis	F	410	205	282	274	335	10x28	2CS2T

APPLICATION	
O E M REFERENCE	
TTC PART NUMBER	
MODEL	
POSITION	
DRUM DIAMETER	
DRUM TREAD DEPTH	
HUB LOCATION DIAMETER	
OVERALL HEIGHT	
P.C.D (Pitch Circle Diameter of Stud Holes)	
NUMBER AND DIAMETER OF STUD HOLES	
EXTRA HOLES: CS = Counter Sunk. CB = Counter Bored, FOR HUB LOCATION. T = THREADED FOR REMOVAL	

**Before Fitting or Replacing Brake Drums, TTC recommends that all braking surfaces are cleaned with Brake and Clutch Cleaner to remove any grease or rust inhibitor.**



Part No	Description
TTC 30431	Brake and Clutch Cleaner 500 ml
TTC 30432	Brake and Clutch Cleaner 5 litre
TTC 30433	Brake and Clutch Cleaner 30 litre

# FAULT FINDING

TTC Brake Drums are sourced from leading manufacturers, who produce to recognised international standards.

This Brake Drum Fault Finding guide is for guidance only as nothing can replace regular servicing, good workshop practice and correct handling.

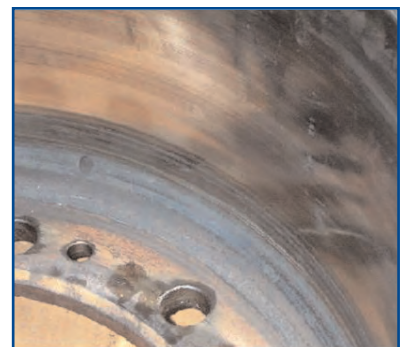
Scored Brake Drums		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Clearly defined grooves on the braking surface.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Worn out linings causing metal to metal contact with the drum.</li> <li>* Excessively hard linings.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Replace drum and linings.</li> </ul>



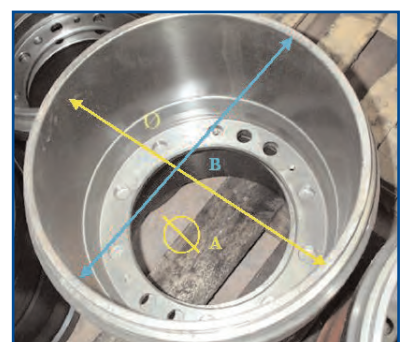
Broken Mounting Ring		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Drum separated from the mounting ring.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Too much pressure from braking system.</li> <li>* Overloaded axle.</li> <li>* Poor mechanical strength due to casting not being manufactured to international standards.</li> <li>* Excessive overheating and rapid cooling.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Replace drum.</li> </ul>



Overheating		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Blue/Yellow discolouration seen as bluing effect.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Drum has been subjected to massive heat build up.</li> <li>* Component failure, incorrect shoe adjustment.</li> <li>* Excessively hard linings.</li> <li>* Brake shoes in constant contact with drum.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Replace drum and linings. Ensure brakes are correctly adjusted.</li> </ul>

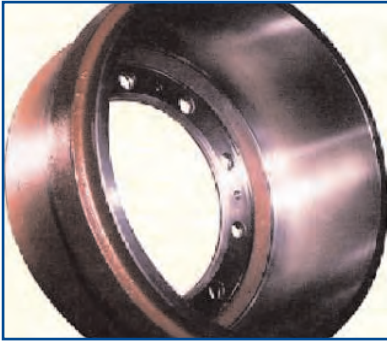


Ovality		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Uneven wear on the drum surfaces.</li> <li>* Diameter A and B are different when measured at 90°.</li> <li>* Can be detected by the driver on application of the foot brake, vibration or juddering.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Drum could have been dropped onto a hard surface.</li> <li>* Impact on the outer rim of the drum.</li> <li>* Drum not held correctly when being skimmed.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Replace drum.</li> </ul>





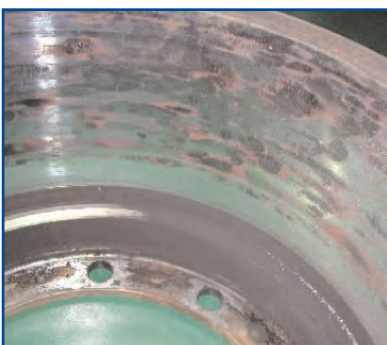
Heat Craze		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Short fine line cracks on braking surface of drum.</li> </ul> <p>(In the early stages the crack may not affect the braking performance but should be inspected at regular intervals).</p>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Overheating of the brake lining surface.</li> <li>* Constant heating and cooling of the drum beyond design tolerances.</li> <li>* Incorrect drum fitted for application, i.e. normal truck drum fitted on PSV application.</li> <li>* Incorrect linings.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Carry out regular inspections, looking for cracks developing into more serious cracks. if it happens, replace the drum.</li> </ul>



Glazed or Polished Drum		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Mirror-like appearance of the braking surface.</li> <li>* reduction in brake performance.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Linings becoming too hard for application.</li> <li>* Constant use of vehicle in an unladen condition.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Sand brake drum surface and lining with emery cloth.</li> <li>* Ensure correct friction material is being used for application.</li> </ul>



Cracked Drum		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Large crack across braking surface.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Rapid and excessive overheating and cooling (Thermal shock).</li> <li>* Drum not made, cast or machined to recognised international standards.</li> <li>* Incorrect brake adjustment.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Check braking system for faults.</li> <li>* Check friction specification</li> <li>* Replace drum.</li> </ul>



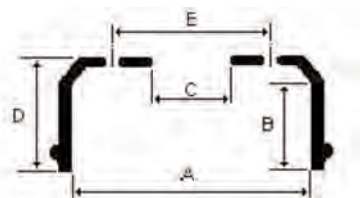
Grease or Oil Stained Drum		
<p><b>Appearance</b></p> <ul style="list-style-type: none"> <li>* Grease or oil stains on braking surface.</li> <li>* In extreme cases driver may notice brake judder on application of brakes.</li> </ul>	<p><b>Cause</b></p> <ul style="list-style-type: none"> <li>* Defective hub oil seals.</li> <li>* Defective lubrication system.</li> <li>* Excessive use of grease gun.</li> </ul>	<p><b>Action</b></p> <ul style="list-style-type: none"> <li>* Clean all components.</li> <li>* Replace linings.</li> <li>* Replace hub/ oil seals.</li> <li>* Check lubrication system.</li> </ul>



Correct

Incorrect

Storage
<ul style="list-style-type: none"> <li>* Storing drums on their side may result in ovality problems.</li> <li>* Stacking drums inside one another could result in ovality and out of shape drums.</li> </ul>



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**ALEXANDER PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
ALX200 9.5 - 10.8m	6772133	60637	GG/214/215/1	96-	F/R	360	184	228	248	275	8x21.5	2T
ALX200 9.5 - 10.8m	652800/26	80130	PB/22/1	96-	R	360	180	225	240	275	8x24	4CB4T
ALX200 9.5 - 10.8m	652841/5	80131	PB/22/1	96-	F	360	178	221	240	275	8x24	1CS2T
ALX300 12m - Daf Chassis	595222	60342	DF/30/31/1	97-00	R	420	216	285	284	335	10x24	2CB2T
ALX300 12m - Daf Chassis	1233462	60613	DF/44/45/1	97-00	F	420	165	285	228	335	10x24	2CB2T
ALX300 12m - MAN Chassis	81 50110 0144	7057	MP/36/2	97-	R	410	237	298	300	335	10x23	5x23 3T
ALX300 12m - MAN Chassis	81 50110 0101	80206	MP/32/2	97-	R	410	190	298	280	335	10x23	5x23 3T
ALX300 12m - MAN Chassis	81 50110 0147	80208	MP/31/2	97-	F	410	167	298	212	335	10x23	2CB3T
ALX300 12m - Volvo Chassis	1599010	60691	VL/88/2	97-00	F	410	205	282	274	335	10x28	2CS2T
ALX300 12m - Volvo Chassis	1599012	60706	VL/89/2	97-00	R	410	229	282	307	335	10x28	2CS2T
ALX400 10.5 - Dennis Chassis	656995/87	80814	PB/18/19/1	99-	R	410	233	282	275	335	10x23	2CB2T
ALX400 10.5 - Dennis Chassis	656007/55	80480	CS/70/1	99-	F	410	227	281	274	335	10x26	1CB4T
ALX400 10.5 - Volvo Chassis	9524103	80316	VL/100/101/1	00-	R	394	250	282	287	335	10x28	2T
ALX500 12m - 3 axle Low Floor Double Decker	656995/87	80814	PB/18/19/1	97-	R	410	233	282	275	335	10x23	2CB2T
ALX500 12m - 3 axle Low Floor Double Decker	656007/55	80480	CS/70/1	97-	F	410	227	281	274	335	10x26	1CB4T
DB250	1233462	60613	DF/44/45/1	92-	F	420	165	285	228	335	10x24	2CB2T
R-Type I Royale	3111104/0	80249	VL/87/2	88-	F	410	190	282	250	335	10x28	2T
R-Type I Royale	3111116/4	80250	VL/88/2	88-	R	410	237	282	286	335	10x28	2CS2T
Ultra 12m Low Floor Single Decker	1599012	60706	VL/89/2	95-	R	410	229	282	307	335	10x28	2CS2T

**AWD**

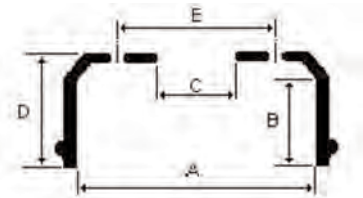
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
MTL 33.27 (8x6)	A4020760	80387	VL/88/2	91-	R	394	208	281	268	335	10x24	4T
MTL 33.27 (8x6)	A4023912	80388	VL/88/2	91-	F	381	187	280	256	335	10x24	2CS2T

**AWD (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
MTL 33.27 (8x6)	A4030617	80389	VL/88/2	91-	R	410	210	285	256	335	10x24	2CS2T
MTL 33.27 (8x6)	A4036093	80390	VL/88/2	91-	R	410	203	282	280	335	10x23	2CS2T
TL 7.14	2687944	7652	BO/39/40/1	88-92	R	330	121	165	173	205	6x23	-
TL 7.14	91024573	7655	BO/37/38/1	88-92	F	330	104	131	109	162	6x10	-
TL 8.14	2687944	7652	BO/39/40/1	88-92	R	330	121	165	173	205	6x23	-
TL 8.14	91024573	7655	BO/37/38/1	88-92	F	330	104	131	109	162	6x10	-
TL 9.14	2687944	7652	BO/39/40/1	88-92	R	330	121	165	173	205	6x23	-
TL 9.14	91024573	7655	BO/37/38/1	88-92	F	330	104	131	109	162	6x10	-
TL10.14	2683786	60026	BO/57/58/1	88-91	R	359	116	235	138	275	8x24	-
TL17.27	A4020760	80387	VL/88/2	91-	R	394	208	281	268	335	10x24	4T
TL17.27	A4023912	80388	VL/88/2	91-	F	381	187	280	256	335	10x24	2CS2T
TL17.27	A4030617	80389	VL/88/2	91-	R	410	210	285	256	335	10x24	2CS2T
TL17.27	A4036093	80390	VL/88/2	91-	R	410	203	282	280	335	10x23	2CS2T
TL24.27	A4020760	80387	VL/88/2	91-	R	394	208	281	268	335	10x24	4T
TL24.27	A4023912	80388	VL/88/2	91-	F	381	187	280	256	335	10x24	2CS2T
TL24.27	A4030617	80389	VL/88/2	91-	R	410	210	285	256	335	10x24	2CS2T
TL24.27	A4036093	80390	VL/88/2	91-	R	410	203	282	280	335	10x23	2CS2T

**BEDFORD**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
J Series J2/J3/J6	2687944	7652	BO/39/40/1	59-76	R	330	121	165	173	205	6x23	-
J Series J2/J3/J6	91024573	7655	BO/37/38/1	59-76	F	330	104	131	109	162	6x10	-
J5	2683786	60026	BO/57/58/1	71-76	R	359	116	235	138	275	8x24	-
TJ610	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TJ610	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TJ700	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TJ700	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TJ850	2683786	60026	BO/57/58/1	77-87	R	359	116	235	138	275	8x24	-
TK EOL	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TK EOL	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TK EOM	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TK EOM	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TK KC 10/SOL	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TK KC 10/SOL	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TK KC 2/SOL	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**BEDFORD (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
TK KC 2/SOL	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TK KD/SM	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TK KD/SM	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TK KE/EFNS	2683786	60026	BO/57/58/1	73-87	R	359	116	235	138	275	8x24	-
TK KE/EON	2683786	60026	BO/57/58/1	73-87	R	359	116	235	138	275	8x24	-
TK KM Models	91006718	7653	GG/92/1	66-87	F	394	192	282	229	335	10x23	-
TK KM Models	91006721	7654	GG/142/1	66-87	R	394	216	282	264	335	10x23	2CS2T
TK1000	2683786	60026	BO/57/58/1	73-87	R	359	116	235	138	275	8x24	-
TK1260KG	2683786	60026	BO/57/58/1	73-87	R	359	116	235	138	275	8x24	-
TK1630	91006718	7653	GG/92/1	66-87	F	394	192	282	229	335	10x23	2CS2T
TK1630	91006721	7654	GG/142/1	66-87	R	394	216	282	264	335	10x23	2CS2T
TK1930	2683786	60026	BO/57/58/1	73-87	R	359	116	235	138	275	8x24	-
TK570	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TK570	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TK860	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TK860	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TL1000(DON)	2683786	60026	BO/57/58/1	80-87	R	359	116	235	138	275	8x24	-
TL1260 (DOR)	2683786	60026	BO/57/58/1	80-87	R	359	116	235	138	275	8x24	-
TL1630 (DOV)	91006718	7653	GG/92/1	80-87	F	394	192	282	229	335	10x23	2CS2T
TL1630 (DOV)	91006721	7654	GG/142/1	80-87	R	394	216	282	264	335	10x23	2CS2T
TL1630 (GMY8)	91006721	7654	GG/142/1	78-87	F/R	394	216	282	264	335	10x23	2CS2T
TL1930 Low Loader	2683786	60026	BO/57/58/1	80-87	R	359	116	235	138	275	8x24	-
TL750 (DOL)	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
TL750 (DOL)	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
TL860 (DOM)	2687944	7652	BO/39/40/1	77-	R	330	121	165	173	205	6x23	-
TL860 (DOM)	91024573	7655	BO/37/38/1	77-	F	330	104	131	109	162	6x10	-
TL860 6 Wheel Rig	2687944	7652	BO/39/40/1	80-87	R	330	121	165	173	205	6x23	-
TL860 6 Wheel Rig	91024573	7655	BO/37/38/1	80-87	F	330	104	131	109	162	6x10	-

**BEDFORD (cont'd)**

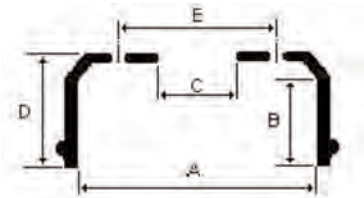
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
TM1500 (4x2) Rigid	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM1700 (4x2) Rigid	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM1900 (4x2)	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM2250 KW (6x4)	91006718	7653	GG/92/1	74-87	F	394	192	282	229	335	10x23	2CS2T
TM2250 KW (6x4)	91006721	7654	GG/142/1	74-87	R	394	216	282	264	335	10x23	2CS2T
TM2500	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM2600 HM	91006718	7653	GG/92/1	74-87	F	394	192	282	229	335	10x23	2CS2T
TM2600 HM	91006721	7654	GG/142/1	74-87	R	394	216	282	264	335	10x23	2CS2T
TM2600 KXXX (6x4)	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM3000 KWX (6x4)	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM3250 (4x2 Tractor)	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM3250 EWW8	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM3800	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM3800 EVX	91006721	7654	GG/142/1	84-	F	394	216	282	264	335	10x23	2CS2T
TM4000 KXX (6x4)	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM4200	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T
TM4400	91006721	7654	GG/142/1	74-81	F/R	394	216	282	264	335	10x23	2CS2T

**BEDFORD PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
PGK	2687944	7652	BO/39/40/1	77-87	R	330	121	165	173	205	6x23	-
PGK	91024573	7655	BO/37/38/1	77-87	F	330	104	131	109	162	6x10	-
YMT	91006718	7653	GG/92/1	76-87	F	394	192	282	229	335	10x23	2CS2T
YMT	91006721	7654	GG/142/1	76-87	R	394	216	282	264	335	10x23	2CS2T

**BERKHOF PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Axial 30 9m Coach	81 50110 0216	80701	GG/217/1/218/1	94-	F	360	155	230	198	275	8x22	3T
Axial 30 9m Coach	81 50110 0212	80702	GG/217/1/218/1	94-	R	360	172	230	242	275	8x22	3T
Axial 50 12m Coach - Dennis Chassis	614216	80141	VL/87/2	91-	R	410	235	282	278	335	10x26	5CB3T
Axial 50 12m Coach - Dennis Chassis	611463/6	80143	CS/68/2	87-91	F	394	187	281	240	335	10x26	1CS1CB4T
Axial 50 12m Coach - Dennis Chassis	650711/8	80251	CS/67/2	87-91	R	394	214	282	265	335	10x26.5	5CB3T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**BERKHOF PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Axial 50 12m Coach - Dennis Chassis	653188	80472	CS/67/2	87-91	R	394	214	282	265	335	10x26	5CB3T
Axial 50 12m Coach - Dennis Chassis	653187	80477	CS/68/2	87-91	F	394	192	281	246	335	10x26	1CSCB4T
Axial 50 12m Coach - Volvo Chassis	1134817/4	7037	VL/76/77/1	94-	F	394	219	282	268	335	10x28	2T
Axial 50 12m Coach - Volvo Chassis	1590313/1	9686	VL/81/82/1	94-	R	394	265	282	314	335	10x28	2T
Excellence 3000HD - Scania Chassis	1361331	80122	SV/41/2	96-	F/R	413	210	295	274	335	10x23.5	2CB3T
Excellence 3000HD - Scania Chassis	1334075	80196	SV/40/2	96-	F	413	187	295	263	335	10x23.5	2CB3T
Excellence 3000HD - Volvo Chassis	1599010	60691	VL/88/2	85-	F	410	205	282	274	335	10x28	2CS2T
Excellence 3000HD - - Volvo Chassis	1599012	60706	VL/89/2	85-	R	410	229	282	307	335	10x28	2CS2T
Excellence 3000HD - Volvo Chassis	1599014	80856	VL/86/1	85-	R	410	159	282	236	335	10x28	2T
Radial 12m Coach - Dennis Chassis	614216	80141	VL/87/2	91-	R	410	235	282	278	335	10x26	5CB3T
Radial 12m Coach - Dennis Chassis	614216	80141	VL/88/2	91-	R	410	235	282	278	335	10x26	5CB3T
Radial 12m Coach - Dennis Chassis	614216	80141	VL/89/2	91-	R	410	235	282	278	335	10x26	5CB3T
Radial 12m Coach - Dennis Chassis	611463/6	80143	CS/68/2	85-	F	394	187	281	240	335	10x26	1CS1CB4T
Radial 12m Coach - Dennis Chassis	650711/8	80251	CS/67/2	85-	R	394	214	282	265	335	10x26.5	5CB3T
Radial 12m Coach - Dennis Chassis	653188	80472	CS/67/2	85-	R	394	214	282	265	335	10x26	5CB3T
Radial 12m Coach - Dennis Chassis	653187	80477	CS/68/2	85-	F	394	192	281	246	335	10x26	1CSCB4T
Radial 12m Coach - Volvo Chassis	1134817/4	7037	VL/76/77/1	79-	F	39	219	282	268	335	10x28	2T
Radial 12m Coach - Volvo Chassis	1590313/1	9686	VL/81/82/1	79-	R	394	265	282	314	335	10x28	2T

**BEULAS PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
El Mundo	7172079	80102	PB/24/2	00-	R	410	208	285	258	335	10x23	2CB2T

## BEULAS PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
El Mundo	7161879	80546	FI/115/1	95-99	R	410	206	285	255	335	10x23	2CS2T
Stergo E	7172079	80102	PB/24/2	00-	R	410	208	285	258	335	10x23	2CB2T
Sturgo E	7161879	80546	FI/115/1	95-99	F	410	206	285	255	335	10x23	2CS2T

## BLUEBIRD Q BUS

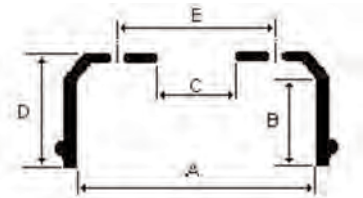
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
MK IV	BL1003	80397	BB MKIV F	94-	F	419	165	229	248	285	10x32	
MK V	BL1005	80398	BB MK V R	94-	R	419	227	223	291	285	10x24	

## BMC/BMC PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
220 SLF	652800/26	80130	PB/22/1	97-	R	360	180	225	240	275	8x24	4CB4T
220 SLF	652841/5	80131	PB/22/1	97-	F	360	178	221	240	275	8x24	1CS2T
628	5K87972	80403	VL/89/2	03-	F	410	201	285	259	335	10 x 28	2CB3T
Falcon 1100 FE School Bus	5K60512	80399	VL/89/2	03-	F/R	410	231	285	284	335	10x28	-

## BOVA PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Futura FHD	368829	80120	DF/30/31/1	86-94	R	419	215	285	292	335	10x24	2CB2T
Futura FHD	762000	80462	DF/32/33/1	86-94	F	420	219	285	267	335	10x23.5	2CB2T
Futura FHD - All models	638165	60025	DF/16/17/2	83-85	R	419	192	285	249	335	10x24.7	4CB2T
Futura FHD - All models	638170	60340	DF/20/21/3	83-85	F	420	168	285	232	335	10x24	4CB2T
Futura FHD - All models Exc 12.370	595222	60342	DF/30/31/1	95-	R	420	216	285	284	335	10x24	2CB2T
Futura FHD - All models Exc 12.370	368829	80120	DF/32/33/1	95-	R	419	215	285	292	335	10x24	2CB2T
Futura FHD 12.370A	595222	60342	DF/30/31/1	95-	R	420	216	285	284	335	10x24	2CB2T
Futura FHD 12.370A	368829	80120	DF/32/33/1	95-	R	419	215	285	292	335	10x24	2CB2T
Futura FLD	638165	60025	DF/16/17/2	83-85	R	419	192	285	249	335	10x24.7	4CB2T
Futura FLD	638170	60340	DF/20/21/3	83-85	F	420	168	285	232	335	10x24	4CB2T
Futura FVD	638165	60025	DF/16/17/2	83-85	R	419	192	285	249	335	10x24.7	4CB2T
Futura FVD	638170	60340	DF/20/21/3	83-85	F	420	168	285	232	335	10x24	4CB2T
Futura FVD	595222	60342	DF/30/31/1	86-	R	420	216	285	284	335	10x24	2CB2T
Futura FVD	368829	80120	DF/32/33/1	86-	R	419	215	285	292	335	10x24	2CB2T
Futura FVD	762000	80462	DF/32/33/1	86-	F	420	219	285	267	335	10x23.5	2CB2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**BPW**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
300 x 200 SN30 ECO	0310546200	0310946400	BC/80/1	-	T	300	212	190	295	225	10x23	-
300 x 200 SN30 ECO	0310546220	0310546220	BC/80/1	-	T	300	210	190	245	225	10x23	-
300 x 200 SN30 ECO	0310546270	0310546270	BC/80/1	-	T	300	213	185	315	225	10x23	2CS2T
300 x 200 SN30 ECO	0310546290	0310946490	BC/80/1	-	T	300	207	190	261	225	10x23	-
300 x 200 SN30 ECO MAX	0310946060	0310946060	BC/80/1	-	T	300	200	190	261	225	10x23	-
360 x 160 SN36	0310590050	0310590050	BC/104/105/1	-	T	360	189	230	221	275	8x23	-
360 x 200 SN36	0310590020	0310590020	BC/100/101/1	-	T	360	205	230	253	275	8x23	-
360 x 200 SN36 ECO MAXX, ECOPLUS	0310590040	0310590040	BC/100/101/1	-	T	360	208	190	264	225	10x23	-
420 x 120 SN42 HS/H2	0310697170	0310697170	BC/78/1	-	T	420	136	290	199	335	10x23	-
420 x 180 SN42 HS	0310667620	0310967130	BC/98/1	-	T	420	191	290	230	335	10x23	-
420 x 180SN42 HS ECO MAXX, ECO PLUS	0310967190	0310967190	BC/98/1	-	T	420	190	290	227	335	10x23	-
420 x 200 SN42 HB/HI/HX	0310667010	0310667010	BC/97/1	-	T	420	220	290	328	335	10x23	-
420 x 200 SN42 H12/HX2	0310677560	0310677560	BC/97/1	-	T	420	214	290	248	335	6x21	-
420 x 200 SN42 HS	0310677570	0310977770	BC/97/1	-	T	420	213	290	259	335	10x23	-
420 x 200 SN42 HS/H2	0310977720	0310977720	BC/97/1	-	T	420	225	290	287	335	10x23	-
420 x 200 SN42 HS	0310977770	0310977770	BC/97/1	-	T	420	200	290	260	335	10x23	-
ECOMAX, ECO PLUS	0310977170	0310977170	BC/97/1	-	T	420	212	290	260	335	10x23	-

**CAETANO PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Algarve 2	1134817/4	7037	VL/76/77/1	92-97	F	394	219	282	268	335	10x28	2T
Algarve 2	1590313/1	9686	VL/81/82/1	92-97	R	394	265	282	314	335	10x28	2T
Cutlass	614216	80141	VL/87/2	91-	R	410	235	282	278	335	10x26	5CB3T
Cutlass	611463/6	80143	CS/68/2	87-91	F	394	187	281	240	335	10x26	1CS1CB4T
Cutlass	650711/8	80251	CS/67/2	87-91	R	394	214	282	265	335	10x26.5	5CB3T
Enigma - MAN Chassis	81 50110 0144	7057	MP/36/2	01-	R	410	237	298	300	335	10x23	5x23 3T

## CAETANO PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Enigma - Volvo Chassis	1134817/4	7037	VL/76/77/1	83-99	F	394	219	282	268	335	10x28	2T
Enigma - Volvo Chassis	1590313/1	9686	VL/81/82/1	83-99	R	394	265	282	314	335	10x28	2T
Enigma 12m - Dennis Chassis	614216	80141	VL/87/2	91-	R	410	235	282	278	335	10x26	5CB3T
Enigma 12m - Dennis Chassis	614216	80141	VL/88/2	91-	R	410	235	282	278	335	10x26	5CB3T
Enigma 12m - Dennis Chassis	614216	80141	VL/89/2	91-	R	410	235	282	278	335	10x26	5CB3T
Enigma 12m - Dennis Chassis	611463/6	80143	CS/68/2	87-91	F	394	187	281	240	335	10x26	1CS1CB4T
Enigma 12m - Dennis Chassis	650711/8	80251	CS/67/2	87-91	R	394	214	282	265	335	10x26.5	5CB3T
Enigma 12m - Dennis Chassis	653188	80472	CS/67/2	87-91	R	394	214	282	265	335	10x26	5CB3T
Enigma 12m - Dennis Chassis	653187	80477	CS/68/2	87-91	F	394	192	281	246	335	10x26	1CSCB4T
Nimbus	652800/26	80130	PB/22/1	89-	R	360	180	225	240	275	8x24	4CB4T
Nimbus	652841/5	80131	PB/22/1	89-	F	360	178	221	240	275	8x24	1CS2T
Porto - Dennis Chassis	614216	80141	VL/89/2	91-	R	410	235	282	278	335	10x26	5CB3T
Porto - Dennis Chassis	611463/6	80143	CS/68/2	87-91	F	394	187	281	240	335	10x26	1CS1CB4T
Porto - Dennis Chassis	650711/8	80251	CS/67/2	87-91	R	394	214	282	265	335	10x26.5	5CB3T
Porto - Volvo Chassis	1134817/4	7037	VL/76/77/1	83-99		394	219	282	268	335	10x28	2T
Porto - Volvo Chassis	1590313/1	9686	VL/81/82/1	83-99	R	394	265	282	314	335	10x28	2T

## COLAERT

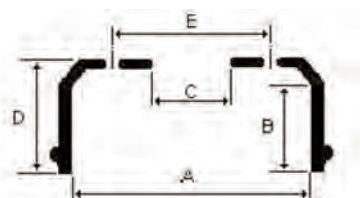
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
305 x 125 1012 V3	6056097	80457	LZ/6/1	-	T	305	132	160	175	205	6x17	-
305 x 200 Colaert Axle 915 V6	6050030	80456	LZ/1/1	-	T	305	203	178	259	225	10x26	2CS2T

## DAEWOO

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
A75	AMPA965	80364	MP/37/1	97-	R	325	157	163	202	205	6x20	3T

## DAF

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
45 Series FA45.120 - FA45.210 6.2t to 7.7t	RAK5412	60335	MP/37/38/1	91-	R	325	105	163	177	205	6x20	3T
45 Series FA45.120 - FA45.210 6.2t to 7.7t	AMPA965	80364	MP/39/40/1	91-	R	325	157	163	202	205	6x20	3T



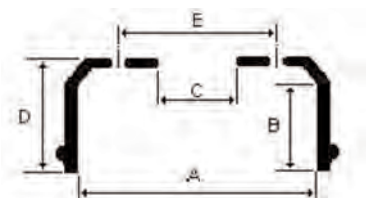
APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**DAF**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
45 Series FA45.130 - FA45.210 10t to 11t	RAK7501	80670	MP/39/40/1	91-	R	325	159	223	212	275	8x22	2T
45 Series FA45.130 - FA45.210 10t to 11t	MAK7102	80680	MP/37/38/1	91-	R	325	121	223	177	275	8x22	2T
45 Series FA45.130 - FA45.210 10t to 11t	AMPA964	80687	MP/37/38/1	91-	R	325	132	223	188	275	8x22	2T
45 Series FA45.130 - FA45.210 10t to 11t	PAK2660	80688	MP/39/40/1	91-	R	325	156	223	202	275	8x22	2T
50 Series FA50.130	94898	60633	PB/22/1	92-	F/R	360	181	226	229	275	8x23	2CB2T
50 Series FA50.130	NJJ1374	80655	GG/186/187/1	90-92	R	330	152	223	229	275	8x22	2CS2T
55 Series - with 420mm Diameter	0090500	60827	DF/44/45/1	95-	R	420	190	285	240	335	10x24	2CB2T
55 Series - with 420mm Diameter	AMPA498	80223	DF/44/45/1	95-	R	420	163	285	226	335	10x23.5	2CB2T
55 Series - with 420mm Diameter	1325270	80224	DF/46/47/1	95-	F	420	187	282	239	335	10x24	2CB2T
55 Series FA55.150- FA55.230	0094898	60633	PB/22/1	95-	F/R	360	181	226	229	275	8x23	2CB2T
55 Series FA55.150 - FA55.230	AMPA103	80259	PB/22/1	95-	F/R	360	183	223	229	275	8x23.5	2CB2T
60 Series Freighters FA60.180 - FA60.210	RAK7085	60715	LE/70/1	90-	R	410	181	282	243	335	10x23.5	2CB2T
60 Series Freighters FA60.180 - FA60.210	RAK4499	7692	LE/71/1	90-	F	410	189	282	235	335	10x23.5	2CB2T
60 Series Freighters FA60.180 - FA60.210	RAK4552	7693	LE/70/1	90-	R	410	176	282	241	335	10x23.5	2CB2T
65 Series	1233462	60613	DF/44/45/1	90-	F	420	165	285	228	335	10x24	2CB2T
65 Series	0754397	80125	DF/48/49/1	90-	R	420	214	285	288	335	10x24	2CB2T
70 Series	RAK7085	60715	LE/70/1	90-94	R	410	181	282	243	335	10x23.5	2CB2T
70 Series	RAK4499	7692	LE/71/1	90-94	F	410	189	282	235	335	10x23.5	2CB2T
70 Series	RAK4552	7693	LE/70/1	90-94	R	410	176	282	241	335	10x23.5	2CB2T
75 Series	1233462	60613	DF/44/45/1	92-	F	420	165	285	228	335	10x24	2CB2T
75 Series	90500	60827	DF/46/47/1	92-	F/R	420	190	285	240	335	10x24	2CB2T
75 Series	90498	80124	DF/46/47/1	92-	F/R	420	190	285	251	335	10x24	2CB2T
75 Series	754397	80125	DF/48/49/1	92-	R	420	214	285	288	335	10x24	2CB2T

**DAF (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
80 Series	RAK7085	60715	LE/70/1	90-94	R	410	181	282	243	335	10x23.5	2CB2T
80 Series	RAK4499	7692	LE/71/1	90-94	F	410	189	282	235	335	10x23.5	2CB2T
80 Series	RAK4552	7693	LE/70/1	90-94	R	410	176	282	241	335	10x23.5	2CB2T
80 Series	FBU3897	80175	LE/71/1	90-94	R	410	191	281	268	335	10x23.5	2CS2T
85 Series	1233462	60613	DF/44/45/1	93-	F	420	165	285	228	335	10x24	2CB2T
85 Series	90500	60827	DF/46/47/1	93-	F/R	420	190	285	240	335	10x24	2CB2T
85 Series	90498	80124	DF/46/47/1	93-	F/R	420	190	285	251	335	10x24	2CB2T
85 Series	754397	80125	DF/48/49/1	93-	R	420	214	285	288	335	10x24	2CB2T
95 Series	1233462	60613	DF/44/45/1	87-	F	420	165	285	228	335	10x24	2CB2T
95 Series	0090500	60827	DF/46/47/1	87-	F	420	190	285	240	335	10x24	2CB2T
95 Series	0090498	80124	DF/46/47/1	87-	F	420	190	285	251	335	10x24	2CB2T
95 Series	0754397	80125	DF/48/49/1	87-	R	420	214	285	288	335	10x24	2CB2T
95 Series	395247	80260	DF/38/39/1	87-	R	420	250	285	313	335	10x24	2CB2T
CF Series 65, 75, 85, 95	1233462	60613	DF/44/45/1	00-	F	420	165	285	228	335	10x24	2CB2T
CF Series 65, 75, 85, 95	0090500	60827	DF/46/47/1	00-	F	420	190	285	240	335	10x24	2CB2T
CF Series 65, 75, 85, 95	0090498	80124	DF/46/47/1	00-	F	420	190	285	251	335	10x24	2CB2T
CF Series 65, 75, 85, 95	0754397	80125	DF/48/49/1	00-	R	420	214	285	288	335	10x24	2CB2T
CF Series 65, 75, 85, 95	395247	80260	DF/38/39/1	00-	R	420	250	285	313	335	10x24	2CB2T
F Series F1700	0094898	60633	GG/216/1	90-	F/R	360	181	226	229	275	8x23	2CB2T
F Series F1900 - F3600	284620	60613	DF/34/35/1	87-89	F	420	165	285	228	335	10x24	2CB2T
F Series F1900 - F3600	595230	7003	DF/16/17/2	87-89	R	420	187	285	246	335	10x24	2CB2T
F Series FA1000, FA1005	RAK7501	80670	MP/39/40/1	87-	R	325	159	223	212	275	8x22	2T
F Series FA1700 DNT	0094898	60633	GG/211/1	87-89	F/R	360	181	226	229	275	8x23	2CB2T
F Series FA50.150	0094898	60633	PB/22/1	92-	F/R	360	181	226	229	275	8x23	2CB2T
F Series FA50.150	NJJ1398	80657	GG/153/1	90-92	R	394	151	223	213	275	8x22	2CS2T
F Series FA50.150	NJK1686	80658	LE/54/1	90-92	F	387	139	223	203	275	8x22	2CS2T
F Series FA50.180	0094898	60633	PB/22/1	94-	F/R	360	181	226	229	275	8x23	2CB2T
XF 105 Series	1233462	60613	DF/44/45/1	98-	F	420	165	285	228	335	10x24	2CB2T
XF 105 Series	0090500	60827	DF/46/47/1	98-	F	420	190	285	240	335	10x24	2CB2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**DAF (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
XF 105 Series	0754397	80125	DF/48/49/1	98-	R	420	214	285	288	335	10x24	2CB2T
XF 95 Series	1233462	60613	DF/44/45/1	98-	F	420	165	285	228	335	10x24	2CB2T
XF 95 Series	0090500	60827	DF/46/47/1	98-	F	420	190	285	240	335	10x24	2CB2T
XF 95 Series	0754397	80125	DF/48/49/1	98-	R	420	214	285	288	335	10x24	2CB2T

**DAF PSV**

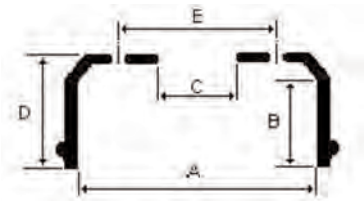
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
DB250	1233462	60613	DF/44/45/1	92-99	F	420	165	285	228	335	10x24	2CB2T
MB200	638165	60025	DF/16/17/2	74-	R	419	192	285	249	335	10x24.7	4CB2T
MB200	638170	60340	DF/20/21/3	74-	F	420	168	285	232	335	10x24	4CB2T
MB201	638170	60340	DF/20/21/3	74-80	F	420	168	285	232	335	10x24	4CB2T
MB201	595222	60342	DF/30/31/1	74-80	R	420	216	285	284	335	10x24	2CB2T
MB220	638170	60340	DF/20/21/3	89-89	F	420	168	285	232	335	10x24	4CB2T
MB220	595222	60342	DF/30/31/1	86-89	R	420	216	285	284	335	10x24	2CB2T
MB220	368829	80120	DF/32/33/1	89-89	R	419	215	285	292	335	10x24	2CB2T
MB220	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T
MB230	638170	60340	DF/20/21/3	86-89	F	420	168	285	232	335	10x24	4CB2T
MB230	595222	60342	DF/30/31/1	86-89	R	420	216	285	284	335	10x24	2CB2T
MB230	368829	80120	DF/32/33/1	86-89	R	419	215	285	292	335	10x24	2CB2T
MB230	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T
MBG200	638170	60340	DF/20/21/3	74-80	F	420	168	285	232	335	10x24	4CB2T
MBG200	595222	60342	DF/30/31/1	74-80	R	420	216	285	284	335	10x24	2CB2T
SB200	638165	60025	DF/16/17/2	74-89	R	419	192	285	249	335	10x24.7	4CB2T
SB200	638170	60340	DF/20/21/3	74-89	F	420	168	285	232	335	10x24	4CB2T
SB2005 DHU Bus	638165	60025	DF/16/17/2	82-86	R	419	192	285	249	335	10x24.7	4CB2T
SB220	638170	60340	DF/20/21/3	87-	F	420	168	285	232	335	10x24	4CB2T
SB220	595222	60342	DF/30/31/1	87-89	R	420	216	285	284	335	10x24	2CB2T
SB220	1233462	60613	DF/44/45/1	87-89	F/R	420	165	285	228	335	10x24	2CB2T
SB220	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T

**DAF PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
SB2300	638165	60025	DF/16/17/2	82-86	R	419	192	285	249	335	10x24.7	4CB2T
SB2300	638170	60340	DF/20/21/3	82-86	F	420	168	285	232	335	10x24	4CB2T
SB2300	595222	60342	DF/30/31/1	86-	R	420	216	285	284	335	10x24	2CB2T
SB2300	368829	80120	DF/32/33/1	86-	R	419	215	285	292	335	10x24	2CB2T
SB2305	595222	60342	DF/30/31/1	87-	R	420	216	285	284	335	10x24	2CB2T
SB3000	638170	60340	DF/20/21/3	84-	F	420	168	285	232	335	10x24	4CB2T
SB3000	595222	60342	DF/30/31/1	84-89	R	420	216	285	284	335	10x24	2CB2T
SB3000	1233462	60613	DF/44/45/1	89-	R	420	165	285	228	335	10x24	2CB2T
SB3000	368829	80120	DF/32/33/1	84-89	R	419	215	285	292	335	10x24	2CB2T
SB3000	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T
SBG220	638170	60340	DF/20/21/3	86-89	F	420	168	285	232	335	10x24	4CB2T
SBG220	595222	60342	DF/30/31/1	86-89	R	420	216	285	284	335	10x24	2CB2T
SBG220	1233462	60613	DF/44/45/1	89-	F/R	420	165	285	228	335	10x24	2CB2T
SBG220	368829	80120	DF/32/33/1	86-89	R	419	215	285	292	335	10x24	2CB2T
SBG220	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T
SBR3000	638170	60340	DF/20/21/3	89-	F	420	168	285	232	335	10x24	4CB2T
SBR3000	1233462	60613	DF/44/45/1	89-	R	420	165	285	228	335	10x24	2CB2T
SBR3000	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T
SKB3000	638170	60340	DF/20/21/3	89-	F	420	168	285	232	335	10x24	4CB2T
SKB3000	1233462	60613	DF/44/45/1	89-	R	420	165	285	228	335	10x24	2CB2T
SKB3000	395247	80260	DF/50/51/1	89-	R	420	250	285	313	335	10x24	2CB2T
TB2100	638170	60340	DF/20/21/3	84-	F	420	168	285	232	335	10x24	4CB2T
TB2100	595222	60342	DF/30/31/1	84-	R	420	216	285	284	335	10x24	2CB2T

**DENNIS**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Elite	614216	80141	VL/87/2	94-00	R	410	235	282	278	335	10x26	5CB3T
Elite	614214/1	80142	VL/87/2	94-00	F	410	208	281	254	335	10x26	1CS4T
Elite	05250/17	80144	VL/87/2	94-00	F	410	183	281	264	335	10x26	1CB4T
Elite 2	614216	80141	VL/87/2	00-	R	410	235	282	278	335	10x26	5CB3T
F Series Fire Engine	611463/6	80143	CS/68/2	76-	F	394	187	281	240	335	10x26	1CS1CB4T
F Series Fire Engine	611849/41	80470	GG/92/1	76-	R	394	187	282	237	335	10x26.5	5CB3T
Phoenix	614216	80141	VL/87/2	94-00	R	410	235	282	278	335	10x26	5CB3T



APPLICATION CODES  
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 CB = Counterbored Hole  
 T = Threaded for withdrawing

**DENNIS**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Phoenix	614214/1	80142	VL/87/2	94-00	F	410	208	281	254	335	10x26	1CS4T
Phoenix	611463/6	80143	CS/68/2	85-93	F	394	187	281	240	335	10x26	1CS1CB4T
Phoenix	805250/17	80144	VL/87/2	94-00	F	410	183	281	264	335	10x26	1CB4T
Phoenix	611849/41	80470	CS/68/2	85-93	R	394	187	282	237	335	10x26.5	5CB3T
Phoenix 2	614216	80141	VL/89/2	00-	R	410	235	282	278	335	10x26	5CB3T
Primemover	614216	80141	VL/89/2	94-	R	410	235	282	278	335	10x26	5CB3T
Rapier Fire Engine	652800/26	80130	PB/22/1	91-	R	360	180	225	240	275	8x24	4CB4T
RS Fire Engine	653992/1	80475	VL/87/2	95-	F	410	197	281	241	335	10x26	1CS4T
RS Fire Engine	654017/8	80476	VL/87/2	95-	R	410	191	285	250	335	10x23.5	2CS2T
RS Fire Engine	654547/5	80479	VL/87/2	95-	R	410	210	282	252	335	10x26	5CB3T
Sabre Fire Engine	614216	80141	VL/89/2	95-	R	410	235	282	278	335	10x26	5CB3T
SS Fire Engine	653992/1	80475	VL/87/2	95-	F	410	197	281	241	335	10x26	1CS4T
SS Fire Engine	654017/8	80476	VL/87/2	95-	R	410	191	285	250	335	10x23.5	2CS2T
SS Fire Engine	654547/5	80479	VL/87/2	95-	R	410	210	282	252	335	10x26	5CB3T

**DENNIS PSV**

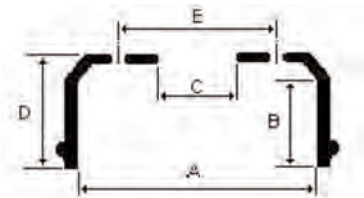
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Arrow	611463/6	80143	CS/63/1	95-	F	394	187	281	240	335	10x26	1CS1CB4T
Arrow	650711/8	80251	CS/64/1	95-	R	394	214	282	265	335	10x26.5	5CB3T
Condor	657340/1	80481	CS/63/1	97-	F	394	201	281	250	335	10x26	1CS1CB4T
Dart MK I	652800/26	80130	FI/124/1	89-92	R	360	180	225	240	275	8x24	4CB4T
Dart MK I	652841/5	80131	FI/124/1	89-92	F	360	178	221	240	275	8x24	1CS2T
Dart MK II, MK III	652800/26	80130	PB/22/1	92-	R	360	180	225	240	275	8x24	4CB4T
Dart MK II, MK III	652841/5	80131	PB/22/1	92-	F	360	178	221	240	275	8x24	1CS2T
Dart SLF	652800/26	80130	PB/22/1	96-	R	360	180	225	240	275	8x24	4CB4T
Dart SLF	652841/5	80131	PB/22/1	96-	F	360	178	221	240	275	8x24	1CS2T
Delta	611463/6	80143	GG/92/1	80-	F	394	187	281	240	335	10x26	1CS1CB4T
Dominator	611463/6	80143	CS/68/2	77-89	F	394	187	281	240	335	10x26	1CS1CB4T
Dominator	651436	80264	GG/179/1	77-89	R	394	213	281	273	335	10x26	1CB3T

**DENNIS PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Domini	611463/6	80143	CS/68/2	84-	F	394	187	281	240	335	10x26	1CS1CB4T
Domini	650711/8	80251	CS/67/2	84-	R	394	214	282	265	335	10x26.5	5CB3T
Dorchester	611463/6	80143	ET/1/2/3	82-	F	394	187	281	240	335	10x26	1CS1CB4T
Dorchester	650711/8	80251	ET/1/2/3	82-	R	394	214	282	265	335	10x26.5	5CB3T
Dragon	657340/1	80481	CS/63/1	97-	F	394	201	281	250	335	10x26	1CS1CB4T
Duple 425	611463/6	80143	CS/68/2	88-	F	394	187	281	240	335	10x26	1CS1CB4T
Falcon	611463/6	80143	CS/65/1	82-	F	394	187	281	240	335	10x26	1CS1CB4T
Falcon	650711/8	80251	CS/64/1	82-	R	394	214	282	265	335	10x26.5	5CB3T
Javelin	614216	80141	VL/88/2	91-00	R	410	235	282	278	335	10x26	5CB3T
Javelin	614216	80141	VL/89/2	91-00	R	410	235	282	278	335	10x26	5CB3T
Javelin	611463/6	80143	CS/68/2	87-91	F	394	187	281	240	335	10x26	1CS1CB4T
Javelin	650711/8	80251	CS/67/2	87-91	R	394	214	282	265	335	10x26.5	5CB3T
Lance	611463/6	80143	CS/64/1	91-	F	394	187	281	240	335	10x26	1CS1CB4T
Lance	650711/8	80251	CS/63/1	91-	R	394	214	282	265	335	10x26.5	5CB3T
Lance SLF	650711/8	80251	CS/63/1	95-	R	394	214	282	265	335	10x26.5	5CB3T
Lancet	611463/6	80143	CS/68/2	83-	F	394	187	281	240	335	10x26	1CS1CB4T
Lancet	650711/8	80251	ET/1/2/3	83-	R	394	214	282	265	335	10x26.5	5CB3T
Pointer	652800/26	80130	FI/124/1	89-	R	360	180	225	240	275	8x24	4CB4T
Pointer	652800/26	80130	PB/22/1	89-	R	360	180	225	240	275	8x24	4CB4T
Pointer	652841/5	80131	FI/124/1	89-	F	360	178	221	240	275	8x24	1CS2T
Trident - Tri axle	656007/55	80480	CS/70/1	97-00	F	410	227	281	274	335	10x26	1CB4T
Trident - Tri axle	656007/55	80480	CS/70/1	97-00	R	410	227	281	274	335	10x26	1CB4T
Trident - Twin axle	656995/87	80288	PB/18/19/1	97-00	R	410	233	282	275	335	10x23	2CB2T
Trident - Twin axle	656007/55	80480	CS/70/1	97-00	F	410	227	281	274	335	10x26	1CB4T

**DUPIILLIER**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
305 x 150	730538	80370	SA/36/37/1	-	T	305	160	176	234	225	10x26.5	2CS2T
305 x 200	Y00000227	7703	LZ/2/3/1	-	T	305	214	176	286	225	10x26.5	2CS2T
305 x 200	790160	80123	LZ/2/3/1	-	T	305	210	176	256	225	10x26	-
355 x 150 (S3515)	Y00002764	80484	LZ/4/5/1	-	T	355	156	225	215	275	8x26.5	-
355 x 200 (S3520)	8707105	80485	SJ/26/27/1	-	T	355	208	175	275	225	10x26	-
420 x 200 (S4220,4420)	7501109	80486	BC/97/1	-	T	420	206	280	242	335	10x23	-
420 x 200 (S4220,4420)	8406044	80487	SJ/30/31/1	-	T	420	207	285	260	335	10x26.5	2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**ERF**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
C Series	96417/1	7666	GG/142/1	82-86	F	394	216	281	254	335	10x26	1CS4T
C Series	96916	80133	GG/142/1	82-86	R	394	222	281	273	335	10x23.5	4T
CP Series	96417/1	7666	GG/142/1	84-86	F	394	216	281	254	335	10x26	1CS4T
CP Series	96916	80133	GG/142/1	84-86	R	394	222	281	273	335	10x23.5	4T
E Series	132020/8	60692	VL/88/2	91-	F	410	220	281	266	335	10x26	1CS4T
E Series	96916	80133	GG/142/1	86-90	R	394	222	281	273	335	10x23.5	4T
E Series	303134	80221	VL/88/2	91-	R	410	211	285	269	335	10x23.5	2CS2T
E Series	136327/2	80265	RW32/33/1	91-	F	410	208	285	253	335	10x23.5	2CS2T

**FODEN**

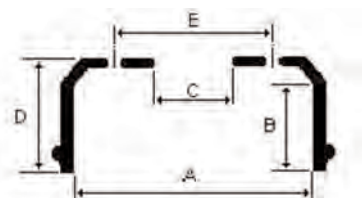
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
2000, 3000, 4000 Series	FG26234/3	7669	RW/5/6/4	87-	F	419	189	281	241	335	10x26	1CS4T
2000, 3000, 4000 Series	FG26236/1	7671	RW/5/6/4	87-	R	419	187	281	260	335	10x23.5	4T
2000, 3000, 4000 Series	Y03283112	80229	RW/5/6/4	87-	F	419	197	281	264	335	10x26	1CB4T
2000, 3000, 4000 Series	FG26235/3	80529	RW/5/6/4	87-	F	419	189	280	241	335	10x23.5	1CS4T
2000, 3000, 4000 Series - Optional 8" (203mm) Linings	FG26237/3	80218	RW/1/2/5	87-	R	419	211	281	267	335	10x23.5	4T
2000, 3000, 4000 Series - Optional 8" (203mm) Linings	Y07058606	80227	RW/1/2/5	87-	R	419	211	285	270	335	10x23.5	2CS2T
2000, 3000, 4000 Series - Optional 8" (203mm) Linings	2100070000	80228	RW/1/2/5	87-	F	419	210	281	276	335	10x26	1CB4T
2000, 3000, 4000 Series - Optional 8" (203mm) Linings	2100077000	80280	RW/1/2/5	87-	F	419	210	281	255	335	10x26	1CS4T
Alpha 2000, 3000 - 7" (177mm) Linings	FG26234/3	7669	RW/5/6/4	91-	F	419	189	281	241	335	10x26	1CS4T
Alpha 2000, 3000 - 7" (177mm) Linings	FG26236/1	7671	RW/5/6/4	91-	R	419	195	281	260	335	10x23.5	4T
Alpha 2000, 3000 - 7" (177mm) Linings	Y03283112	80229	RW/5/6/4	91-	F	419	197	281	264	335	10x26	1CB4T
Alpha 2000, 3000 - 8" (203mm) Linings	Y07058606	80227	RW/1/2/5	91-	R	419	211	285	270	335	10x23.5	2CS2T

**FODEN (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Alpha 2000, 3000 - 8" (203mm) Linings	2100070000	80228	RW/1/2/5	91-	F	419	210	281	276	335	10x26	1CB4T
Alpha 2000, 3000 - 8" (203mm) Linings	2100077000	80280	RW/1/2/5	91-	F	419	210	281	255	335	10x26	1CS4T
Fleetmaster	2831805	80524	RW/1/2/5	77-83	F/R	419	212	281	256	335	10x32	5CS3T
S MODELS S104, S106, S108	FG26234/3	7669	RW/5/6/4	87-92	F	419	189	281	241	335	10x26	1CS4T
S MODELS S104, S106, S108	FG26236/1	7671	AX/14/6	83-92	R	419	195	281	260	335	10x23.5	4T
S MODELS S104, S106, S108	FG26235/3	80529	RW/5/6/4	87-92	F	419	189	280	241	335	10x23.5	1CS4T
S MODELS S104, S106, S108	FG26237/3	80218	RW/1/2/5	87-92	R	419	211	281	267	335	10x23.5	4T

**FORD**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Cargo 0708 - 0813	1549126	7677	GG/186/187/1	81-86	R	330	140	157	195	205	6x19.8	-
Cargo 0708 - 0813	1780425	80507	GG/219/220/1	81-86	R	308	117	157	143	197	6x11	-
Cargo 0708 - 0813	1536517	80509	GG/171/1	81-86	F	330	114	157	179	205	6x19.8	-
Cargo 0907- 1013 Models - 17" wheels	1780426	80514	GG/186/187/1	81-	R	330	140	222	194	275	8x19.8	-
Cargo 0907- 1013 Models - 17" wheels	6088432	80519	GG/194/1	81-	F	330	144	222	201	275	8x19.8	-
Cargo 0907- 1013 Models - 20" wheels	1780427	80515	GG/157/1	81-	R	387	124	222	176	275	8x19.8	-
Cargo 0907- 1013 Models - 20" wheels	6088432	80519	GG/194/1	81-	F	330	144	222	201	275	8x19.8	-
Cargo 1111 - 1115	1405614	80501	GG/118/1	81-	F	394	141	279	219	335	10x19.8	-
Cargo 1111 - 1115	1780427	80515	GG/157/1	81-	R	387	124	222	176	275	8x19.8	-
Cargo 1117 - 1414	1502024	7682	GG/140/1	81-	R	394	191	279	225	335	10x19.8	-
Cargo 1117 - 1414	1502026	80502	GG/153/1	81-	R	394	140	279	213	335	10x19.8	-
Cargo 1117 - 1414	6060698	80508	GG/83/1	81-	F	394	194	279	243	335	10x24.8	4CB
Cargo 1117 - 1414	6088431	80510	GG/83/1	81-	F	394	170	288	211	335	10x19.8	-
Cargo 1117 - 1414	6116774	80512	GG/83/1	81-	F	394	168	288	224	335	10x19.8	-
Cargo 1415 - 1517	6126495	7683	GG/195/1	81-	F	394	200	281	264	335	10x24.7	4CB
Cargo 1415 - 1517	1502026	80502	GG/153/1	81-	R	394	140	279	213	335	10x19.8	-
Cargo 1520 - 1728	1502024	7682	CW/10/1	81-	R	394	191	279	225	335	10x19.8	-
Cargo 1520 - 1728	6126495	7683	CW/11/1	81-	F	394	200	281	26	335	10x24.7	4CB
Cargo 1824, 1924	6126489	80516	CW/12/1	84-86	F/R	394	208	279	250	335	10x19.8	-



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**FORD (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Cargo 1824, 1924	6135911	80517	CW/12/1	84-86	F/R	394	248	281	275	335	10x24.7	4CB
Cargo 2014, 2015, 2114, 2115	1502024	7682	GG/140/1	81-	R	394	191	279	225	335	10x19.8	-
Cargo 2014, 2015, 2114, 2115	6116774	80512	GG/83/1	81-	F	394	168	288	224	335	10x19.8	-
Cargo 2417 - 2424	1502024	7682	GG/140/1	81-	R	394	191	279	225	335	10x19.8	-
Cargo 2417 - 2424	6126495	7683	GG/195/1	81-	F	394	200	281	264	335	10x24.7	4CB
Cargo 2517- 3828	1502024	7682	CW/11/1	82-	R	394	191	279	225	335	10x19.8	-
Cargo 2517- 3828	6126495	7683	CW/11/1	82-	F	394	200	281	264	335	10x24.7	4CB
Cargo 2517- 3828	6126489	80516	CW/12/1	82-	F/R	394	208	279	250	335	10x19.8	-
Cargo 2517- 3828	6135911	80517	CW/12/1	82-	F/R	394	248	281	275	335	10x24.7	4CB
D Series D0607, D1011	1549126	7677	GG/156/1	72-78	R	330	140	157	195	205	6x19.8	-
D Series D1110, D1710, D1113,	1502024	7682	GG/140/1	72-81	R	394	191	279	225	335	10x19.8	-
D Series D1210 - D1314	1502024	7682	GG/140/1	72-81	R	394	191	279	225	335	10x19.8	-
D Series D1411 - DA2418	1502024	7682	GG/140/1	72-81	R	394	191	279	225	335	10x19.8	-
DT2414, 2417, 2418	1502024	7682	GG/83/1	72-81	R	394	191	279	225	335	10x19.8	-
R1114, R1115	1502024	7682	GG/140/1	77-82	R	394	191	279	225	335	10x19.8	-
Transit 2000 FWD	4146930	80365	FSB596	00-	R	254	60	132	99	160	5x16	-
Transit 2000 RWD	4078769	80366	FSB590	00-	R	280	80	117	106	160	5x15.5	-
Transit 2000 RWD	4078770	80367	FSB590	00-	R	280	76	142	132	180	6x15.5	-

**FORD PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
R1010, R1011, R1111	1502024	7682	GG/140/1	71-82	R	394	191	279	225	335	10x19.8	-
R1010, R1011, R1111	1576000	80506	GG/118/1	71-82	F	394	187	279	206	335	10x19.8	-

**FRUEHAUF**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
311 x 203 SMB Axle C3-11/65	MO06867	80386	FU/17/18/1		T	311	215	178	300	225	10x26.5	-
419 x 178 Propar P & PS	1014079	7082	RW/5/6/4		T	419	89	288	271	335	10x26.6	2CBT

### FRUEHAUF (cont'd)

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
419 x 178 SMB C2-10	MO06166	80165	FT/11/12/1		T	419	202	288	244	335	10x26.5	2CB2T
419 x 203 SMB C1	MO03176	80191	FT/6/7/1		T	419	214	288	256	335	10x26.5	2CB2T
419 x 203 SMB L1	MO65445X	80454	FT/11/12/1		T	419	212	280	237	335	10x26.5	-
Propar PSL	1018444	7080	IL66/67/5		T	419	191	288	229	335	10x26.6	2CBT

### GIGANT

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
300 x 200	9380037	80805	BC/55, BC/80		T	300	218	180	260	225	10x26.5	2T
305 x 150	730538	80370	SA/36/37/1		T	305	160	176	234	225	10x26.5	2CS2T
305 x 200	Y00000227	7703	LZ/2/3/1		T	305	214	176	286	225	10x26.5	2CS2T
305 x 200	790160	80123	LZ/2/3/1		T	305	210	176	256	225	10x26	-
355 x 150	Y00002764	80484	LZ/4/5/1		T	355	156	225	215	275	8x26.5	-
355 x 150	8707105	80485	SJ/26/27/1		T	355	208	175	275	225	10x26	-
420 x 200	7501109	80486	SJ/30/31/1		T	420	206	280	242	335	10x23	-
420 x 200	8406044	80487	SJ/30/31/1		T	420	207	285	260	335	10x26.5	2T

### GRANNING LYNX

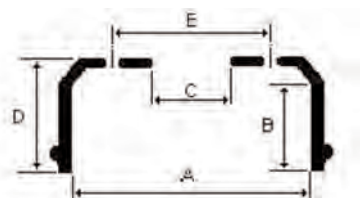
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
311 x 178	61535	80531	RW/9/13/3		T	311	203	183	261	225	10x24	2CS
335 x 200	61029	80533	YK/12/1		T	335	229	183	270	225	10x24	6T
419 x 178	61240	80532	RW/5/6/4		T	419	200	282.5	248	335	10x24	-

### HINO

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
FSIP, FYIK, FYIP	43512-4090	80193	NN/62/1	92-	F	406	159	282	221	335	10x26	2CB2T
FSIP, FYIK, FYIP	43512-4100	80194	NN/63/1	92-	R	406	224	282	284	335	10x26	2CB4T
KB, N, TC, ZM	43512-2330	60343	NN/60/1	92-	F	406	137	282	206	335	10x26	2CB2T
KB, N, TC, ZM	43512-1341	60345	NN/61/1	92-	R	406	211	282	270	335	10x23	2CB4T
KB, N, TC, ZM	43512-1690	80536	NN/60/1	92-	F	406	135	282	241	335	10x26	2CS2T

### IKARUS PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
350 12m	638170	60340	DF/20/21/3	82-	F	420	168	285	232	335	10x24	4CB2T
350 12m	595222	60342	DF/30/31/1	82-	R	420	216	285	284	335	10x24	2CB2T
396 12m	638170	60340	DF/20/21/3	82-	F	420	168	285	232	335	10x24	4CB2T
396 12m	368829	80120	DF/32/33/1	82-	R	419	215	285	292	335	10x24	2CB2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**ISUZU**

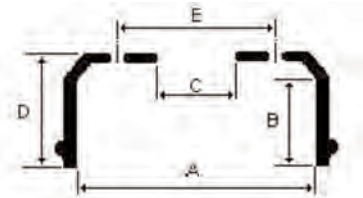
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
NKR 3.5T 3.0D	897032891	80539	NKR35	98-	R	300	89	133	182	170	6x15	-
NPR 5.0T - 6.2T 3.8D	897081219	80540	NPR62	98-	R	320	115	156	158	225	6x23.5	-
NQR 7.5T 4.7D	897102001	80541	NQR75	98-	R	320	135	156	167	225	6x23.5	-
NQT 11T 4.7D	897102001	80541	NQR75	98-	R	320	135	156	167	225	6x23.5	-

**IVECO**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Daily 28.8	7165379	80544	-	86-96	R	254	94	130	122	170	6x19	-
Daily 30.8	7165379	80544	-	86-96	R	254	94	130	122	170	6x19	-
Daily 32.8	7165379	80544	-	86-96	R	254	94	130	122	170	6x19	-
Daily 32.9	7165379	80544	-	86-96	R	254	94	130	122	170	6x19	-
Daily 35.8, 35.9, 35.10	7165379	80544	-	82-96	R	254	94	130	122	170	6x19	-
Daily 40.8 Turbo Diesel	7165379	80544	-	86-	R	254	94	130	122	170	6x19	-
Daily 45.10	7165402	80137	MB/80/81/1	85-96	R	270	91	130	144	170	6x19	1CS
Daily 45.10	7165379	80544	-	85-96	R	254	94	130	122	170	6x19	-
Daily 49.10	7165402	80137	MB/80/81/1	89-94	R	270	91	130	144	170	6x19	1CS
Daily 49.10	7165379	80544	-	89-94	R	254	94	130	122	170	6x19	-
Daily 49.12	7165402	80137	MB/80/81/1	89-94	R	270	91	130	144	170	6x19	1CS
Daily 49.12	7165379	80544	-	89-94	R	254	94	130	122	170	6x19	-
Daily 50.12	7172788	80548	PB/23/26/1	92-99	R	310	108	165	140	205	6x18	2T
Daily 59.12	7172788	80548	PB/23/26/1	92-99	R	310	108	165	140	205	6x18	2T
EuroCargo 110	7166307	80252	PB/22/1	91-00	R	360	179	228	231	275	8x22	2CS2CB2T
EuroCargo 110	7167613	80253	PB/22/1	91-00	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo 130E15, E18, E23, E24, E28	7166307	80252	PB/22/1	91-00	R	360	179	228	231	275	8x22	2CS2CB2T
EuroCargo 130E15, E18, E23, E24, E28	7167613	80253	PB/22/1	91-00	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo 135E18, E23	7166307	80252	PB/22/1	91-00	R	360	179	228	231	275	8x22	2CS2CB2T
EuroCargo 135E18, E23	7167613	80253	PB/22/1	91-00	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo 140E18, E21, E23, E24, E27	7166307	80252	PB/22/1	91-00	R	360	179	228	231	275	8x22	2CS2CB2T

**IVECO (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
EuroCargo 140E18, E21, E23, E24, E27	7167613	80253	PB/22/1	91-00	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo 150E15, E18, E23, E24, E27, E28	7167613	80253	PB/22/1	00-	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo 170E18, E23, E23R	7173281	80136	CW/4/2	91-	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 175E24, E27	7173281	80136	CW/4/2	91-98	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 175E24, E27 TECTOR	7173281	80136	CW/4/2	98-	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 176E30, E34	7173281	80136	CW/4/2	91-98	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 176E30, E34 TECTOR	7173281	80136	CW/4/2	98-	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 179E24, E27, E30	7173281	80136	CW/4/2	91-98	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 179E24, E27, E30 TECTOR	7173281	80136	CW/4/2	98-	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 180E21, EL21, E23, E24, EL24, E28, EL28	7173281	80136	CW/4/2	91-00	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 325E27	7173281	80136	CW/4/2	91-	R	381	190	285	254	335	10x23	2CB2T
EuroCargo 390E30, E34	7173281	80136	CW/4/2	91-	R	381	190	285	254	335	10x23	2CB2T
EuroCargo E210E23	7167613	80253	PB/22/1	91-	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo E250E23	7167613	80253	PB/22/1	91-	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo E260E23, E28	7166307	80252	PB/22/1	91-	R	360	179	228	231	275	8x22	2CS2CB2T
EuroCargo E260E23, E28	7167613	80253	PB/22/1	91-	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo E280E23	7167613	80253	PB/22/1	91-	R	360	176	228	250	275	8x23.5	2CB2T
EuroCargo E320E23, E27, E28	7167613	80253	PB/22/1	91-	R	360	176	228	250	275	8x23.5	2CB2T
Eurofire 130E, 150E	7166307	80252	PB/22/1	91-	R	360	179	228	231	275	8x22	2CS2CB2T
Euromover	7180996	80550	PB/42/1	97-	R	410	203	285	251	335	10x23	2CB2T
Euromover	7183048	80554	PB/41/1	97-	R	410	190	285	257	335	10x23	2CB2T
Euromover	7183046	80556	PB/24/1, PB/42/1	97-	R	410	205	285	256	335	10x23	2CB2T
Eurostar All models 190 - 520E	7172079	80102	PB/42/1	93-	R	410	208	285	258	335	10x23	2CB2T
Eurostar All models 190 - 520E	7173281	80136	CW/4/2	93-	R	381	190	285	254	335	10x23	2CB2T
Eurotech All models 180 - 440	7172079	80102	RW/29/2	93-	R	410	208	285	258	335	10x23	2CB2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**IVECO (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Eurotech All models 180 - 440	7173281	80136	CW/4/2	93-	R	381	190	285	254	335	10x23	2CB2T
Eurotech All models 180 - 440	7173383	80551	CW/4/2	93-	R	381	186	285	239	335	10x23	2CB2T
Eurotrakker - Perrot brakes	7172079	80102	PB/24/2	94-98	F	410	208	285	258	335	10x23	2CB2T
Eurotrakker - Perrot brakes	7172329	80172	PB/24/2	94-98	F	410	190	285	250	335	10x23	2CB2T
Eurotrakker - Perrot brakes	42118427	80173	PB/24/2	94-98	R	410	206	285	283	335	10x23	2CS2T
Eurotrakker - Perrot brakes	42118426	80174	PB/24/2	94-98	R	410	197	285	272	335	10x23	2CS2T
Eurotrakker - Perrot brakes	IV1046	80549	PB/24/2	94-98	F	410	207	285	268	335	10x23.5	2CS2T
Eurotrakker - Perrot brakes	7180996	80550	PB/24/2	94-98	R	410	203	285	251	335	10x23	2CB2T
Eurotrakker - Perrot brakes	42102142	80552	PB/24/2	94-98	F	410	194	285	242	335	10x26	2CS2T
Eurotrakker - Perrot brakes	7183050 C	80553	PB/24/2	94-98	R	410	214	285	290	335	10x23	1CB2T
Eurotrakker -	7172079	80102	RW/29/2	94-	F	410	208	285	258	335	10x23	2CB2T
Rockwell brakes Eurotrakker -	7172329	80172	RW/29/2	94-	F	410	190	285	250	335	10x23	2CB2T
Rockwell brakes Eurotrakker -	42118427	80173	RW/29/2	94-	R	410	206	285	283	335	10x23	2CS2T
Rockwell brakes Eurotrakker - Rockwell brakes	42118426	80174	RW/29/2	94-	R	410	197	285	272	335	10x23	2CS2T
Eurotrakker - Rockwell brakes	-	80549	RW/29/2	94-	F	410	207	285	268	335	10x23.5	2CS2T
Eurotrakker - Rockwell brakes	7180996	80550	RW/29/2	94-	R	410	203	285	251	335	10x23	2CB2T
Eurotrakker - Rockwell brakes	42102142	80552	RW/29/2	94-	F	410	194	285	242	335	10x26	2CS2T
Eurotrakker - Rockwell brakes	7183050 C	80553	RW/29/2	94-	R	410	214	285	290	335	10x23	1CB2T
Eurotrakker - Wedge Brakes	7173383	80551	CW/4/2	94-	R	381	186	285	239	335	10x23	2CB2T
Eurotrakker - Z cam brakes GKN Axle	92942008	80241	VL/88/2	94-	F/R	410	220	281	266	335	10x26	1CS4T
M Series 115 - 159	7166307	80252	FI/124/1	85-86	F/R	360	179	228	231	275	8x22	2CS2CB2T
M Series 115 - 159	7167613	80253	FI/124/1	85-86	F/R	360	176	228	250	275	8x23.5	2CB2T
M Series 135 - 360	7163802	60614	CW/4/2	87-	F/R	381	186	285	243	335	10x23	2CS2T

### IVECO (cont'd)

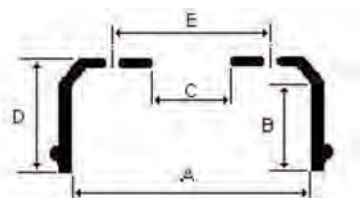
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
M Series 135 - 360	42003218	80530	CW/4/2	87-	R	381	197	285	249	335	10x23	2T
M Series 135 - 360	2475817	80715	CW/4/2	87-	F/R	381	187	285	235	335	10x23	2CS2T
M Series 135 - 360	2477358	80716	CW/4/2	87-	F	381	187	295	229	335	10x23	2CS2T
M Series 135 - 360	4459413	80717	CW/4/2	87-	F	381	187	285	240	335	10x23	2T
SuperCargo	7172079	80102	PB/24/2	93-00	R	410	208	285	258	335	10x23	2CB2T
SuperCargo	7173281	80136	CW/4/2	93-00	R	381	190	285	254	335	10x23	2CB2T

### IVECO PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
59.12	7172788	80548	PB/23/26/1	90-	R	310	108	165	140	205	6x18	2T
64.12	7172788	80548	PB/23/26/1	90	R	310	108	165	140	205	6x18	2T
A55.10	7165564	80542	SY/20/2	84-	R	325	128	255	158	280	6x13	-
A55.13	7165564	80542	SY/20/2	84-	F	325	128	255	158	280	6x13	-
A55.13	7165361	80543	FI/120/121/1	84-	R	325	109	255	135	280	6x13	4T
A60.10	7165564	80542	SY/20/2	84-	F	325	128	255	158	280	6x13	-
A60.10	7165361	80543	FI/120/121/1	84-	R	325	109	255	135	280	6x13	4T
A70.12	7165564	80542	SY/20/2	84-	F	325	128	255	158	280	6x13	-
A70.12	7165361	80543	FI/120/121/1	84-	R	325	109	255	135	280	6x13	4T
A90.14	7165361	80543	FI/120/121/1	84-	F/R	325	109	255	135	280	6x13	4T

### KASSBOHRER PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
S110	179252011311	80830	PB/18/19/1	79-	R	410	229	290	281	335	10x23	2T
S120	179252011311	80830	PB/18/19/1	79-	R	410	229	290	281	335	10x23	2T
S130	179252011311	80830	PB/18/19/1	79-	R	410	229	290	281	335	10x23	2T
S130S	179241111306	80558	PB/16/17/1	-89	F	410	169	290	236	335	10x23	2T
S130S	179252011311	80830	PB/18/19/1	-89	R	410	229	290	281	335	10x23	2T
S130S	179252011107	80831	PB/11/12/1	-89	R	410	187	290	261	335	10x23	2T
S140	179241111306	80558	PB/16/17/1	83-	F	410	169	290	236	335	10x23	2T
S140	179252011311	80830	PB/18/19/1	79-	R	410	229	290	281	335	10x23	2T
S140	179252011311	80830	PB/18/19/1	83-	R	410	229	290	281	335	10x23	2T
S150	179252011311	80830	PB/18/19/1	79-	R	410	229	290	281	335	10x23	2T
S200	179252011311	80830	PB/18/19/1	79-	R	410	229	290	281	335	10x23	2T
S210	179241111306	80558	PB/16/17/1	83-	F	410	169	290	236	335	10x23	2T
S210	179252011311	80830	PB/18/19/1	83-	R	410	229	290	281	335	10x23	2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
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 CB = Counterbored Hole  
 T = Threaded for withdrawing

**KASSBOHRER PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
S211	179241111306	80558	PB/16/17/1	83-	F	410	169	290	236	335	10x23	2T
S211	179252011311	80830	PB/18/19/1	83-	R	410	229	290	281	335	10x23	2T
S212	179241111306	80558	PB/16/17/1	76-	F	410	169	290	236	335	10x23	2T
S212	179252011311	80830	PB/18/19/1	76-	R	410	229	290	281	335	10x23	2T
S213	179241111306	80558	PB/16/17/1	76-	F	410	169	290	236	335	10x23	2T
S213	179252011311	80830	PB/18/19/1	76-	R	410	229	290	281	335	10x23	2T
S214	179241111306	80558	PB/16/17/1	83-	F	410	169	290	236	335	10x23	2T
S214	179252011311	80830	PB/18/19/1	83-	R	410	229	290	281	335	10x23	2T
S215	179241111306	80558	PB/16/17/1	83-	F	410	169	290	236	335	10x23	2T
S215	179252011311	80830	PB/18/19/1	83-	R	410	229	290	281	335	10x23	2T
S216	179241111306	80558	PB/16/17/1	80-	F	410	169	290	236	335	10x23	2T
S216	179252011311	80830	PB/18/19/1	80-	R	410	229	290	281	335	10x23	2T
S228	179241111306	80558	PB/16/17/1	84-	F	410	169	290	236	335	10x23	2T
S228	179252011311	80830	PB/18/19/1	84-	R	410	229	290	281	335	10x23	2T
S300	179252011311	80830	PB/18/19/1	89-	R	410	229	290	281	335	10x23	2T
S313	179252011311	80830	PB/18/19/1	91-	R	410	229	290	281	335	10x23	2T
S313	179252011107	80831	PB/11/12/1	91-	R	410	187	290	261	335	10x23	2T
S315	179252011311	80830	PB/18/19/1	91-	R	410	229	290	281	335	10x23	2T
S315	179252011107	80831	PB/11/12/1	91-	R	410	187	290	261	335	10x23	2T
S317	179252011311	80830	PB/18/19/1	91-	R	410	229	290	281	335	10x23	2T
S317	179252011107	80831	PB/11/12/1	91-	R	410	187	290	261	335	10x23	2T
S319	179252011311	80830	PB/18/19/1	91-	R	410	229	290	281	335	10x23	2T
S319	179252011107	80831	PB/11/12/1	91-	R	410	187	290	261	335	10x23	2T
S321	179252011311	80830	PB/18/19/1	91-	R	410	229	290	281	335	10x23	2T
S321	179252011107	80831	PB/11/12/1	91-	R	410	187	290	261	335	10x23	2T
SG180	179241111306	80558	PB/16/17/1	84-	F	410	169	290	236	335	10x23	2T
SG180	179252011311	80830	PB/18/19/1	84-	R	410	229	290	281	335	10x23	2T
SG219	179241111306	80558	PB/16/17/1	84-	F	410	169	290	236	335	10x23	2T
SG219	179252011311	80830	PB/18/19/1	84-	R	410	229	290	281	335	10x23	2T

### KASSBOHRER PSV (cont'd)

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
SG221	179241111306	80558	PB/16/17/1	84-	F	410	169	290	236	335	10x23	2T
SG221	179252011311	80830	PB/18/19/1	84-	R	410	229	290	281	335	10x23	2T

### LDV

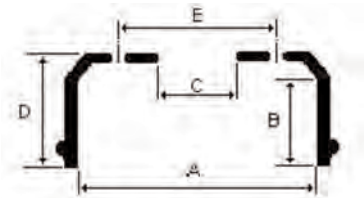
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
400 Series - Single Rear Wheels	BAU4504	80685	-	89-	R	254	65	82	90	170	6x15	-
400 Series - Twin Rear Wheels	BAU4537	80369	-	86-	R	254	80	132	118	170	6x18	1CS
Convoy - Caliper 2 x 57mm pistons	BAU4537	80369	-	94-	R	254	80	132	118	170	6x18	1CS
Convoy - Caliper 4 x 41mm pistons	BAU4537	80369	-	94-	R	254	80	132	118	170	6x18	1CS
Pilot	DMA7501	80681	-	85-94	R	228	51	54	85	125	5x11	2CS
Sherpa 400 - Twin Rear Wheels	BAU4537	80369	-	86-	R	254	80	132	118	170	6x18	1CS

### LEYLAND

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Constructor 24.15 - 30.25	RAK7085	60715	LE/71/1	85-90	R	410	181	282	243	335	10x23.5	2CB2T
Constructor 24.15 - 30.25	RAK4499	7692	LE/71/1	85-90	F	410	189	282	235	335	10x23.5	2CB2T
Constructor 24.15 - 30.25	RAK4552	7693	LE/71/1	85-90	R	410	176	282	241	335	10x23.5	2CB2T
Constructor 24.15 - 30.25	FBU3897	80175	LE/71/1	85-90	R	410	191	281	268	335	10x23.5	2CS2T
Cruser 16.15, 16.17	RAK7085	60715	LE/70/1	84-90	R	410	181	282	243	335	10x23.5	2CB2T
Cruser 16.15, 16.17	RAK4499	7692	LE/71/1	84-90	F	410	189	282	235	335	10x23.5	2CB2T
Cruser 16.15, 16.17	RAK4552	7693	LE/71/1	84-90	R	410	176	282	241	335	10x23.5	2CB2T
Cruser 16.26	RAK4499	7692	LE/71/1	84-90	F	410	189	282	235	335	10x23.5	2CB2T
Freighter 16.13, 16.15,16.16, 16.17, 17.14, 17.16, 17.18	RAK7085	60715	LE/70/1	84-90	R	410	181	282	243	335	10x23.5	2CB2T
Freighter 16.13, 16.15,16.16, 16.17, 17.14, 17.16, 17.18	RAK4499	7692	LE/71/1	84-90	F	410	189	282	235	335	10x23.5	2CB2T
Freighter 16.13, 16.15,16.16, 16.17, 17.14,17.16, 17.18	RAK4552	7693	LE/70/1	84-90	R	410	176	282	241	335	10x23.5	2CB2T

### LEYLAND PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Atlantean	NLK5378	7719	LE/59/1/1	58-	F	394	138	279	195	335	10x31.3	2CB2T
Atlantean	507139	7720	LE/60/2	58-	R	394	218	279	267	335	10x31.3	8CB4T
DAB Articulated	RLK1778	7725	LE/69/1	79-85	F/R	394	167	283	208	335	10x23.5	2CB2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
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 CB = Counterbored Hole  
 T = Threaded for withdrawing

**LEYLAND PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
DAB Articulated	DBK1022	80659	LE/60/2	79-85	R	394	216	283	265	335	10x23.5	5CB3T
Leopard	NLK5378	7719	LE/59/1	70-	F	394	138	279	195	335	10x31.3	2CB2T
Leopard	507139	7720	LE/60/2	70-	R	394	218	279	267	335	10x31.3	8CB4T
Leopard	551095	80633	GG/142/1	70-	R	394	216	279	283	335	10x31.3	8CB4T
Lynx Coach	RLK1778	7725	LE/69/1	84-	F	394	167	283	208	335	10x23.5	2CB2T
Lynx Coach	NAK8969	80256	LE/60/2	84-	R	394	222	283	278	335	10x23	2CB2T
National	507139	7720	LE/60/2	70-75	R	394	218	279	267	335	10x31.3	8CB4T
Olympian	NAK2636	7724	LE/60/2	77-	R	394	218	282	268	335	10x23.5	2CB4T
Olympian	NAK2785	80254	LE/69/1	77-	F	394	167	282	208	335	10x23.5	2CB4T
Olympian	NLK3614	80263	LE/69/1	77-	F	394	173	282	208	335	10x23.5	2CB2T
Olympian	NAK5544	80636	LE/60/2	77-	R	394	218	282	268	335	10x23.5	2CB4T
Olympian - Volvo chassis	3111104/0	80249	VL/87/2	93-	F	410	190	282	250	335	10x28	2T
Olympian - Volvo chassis	3111116/4	80250	VL/89/2	93-	R	410	237	282	286	335	10x28	2CS2T
Panther	RLK1778	7725	LE/59/1	64-74	F	394	167	283	208	335	10x23.5	2CB2T
Royal Tiger	RLK1778	7725	LE/69/1	81-	F	394	167	283	208	335	10x23.5	2CB2T
Royal Tiger	NAK8969	80256	LE/60/2	81-	R	394	222	283	278	335	10x23	2CB2T
Royal Tiger	NAK4931	80642	LE/60/2	81-	R	394	219	282	267	335	10x26.5	2CB4T
Swift Bus	RAK7501	80671	MP/39/40/1	87-	R	325	159	223	212	275	8x22	2T
Tiger	RLK1778	7725	LE/69/1	54-	F	394	167	283	208	335	10x23.5	2CB2T
Tiger	NAK3828	80269	LE/60/2	54-	R	394	218	282	267	335	10x23.5	2CB4T
Tiger	RLK2758	80664	LE/60/2	54-	F	394	214	282	260	335	10x23.5	2CB2T
Tiger Coach	RLK1778	7725	LE/69/1	81-	F	394	167	283	208	335	10x23.5	2CB2T
Tiger Coach	NAK8969	80256	LE/60/2	81-	R	394	222	283	278	335	10x23	2CB2T
Tiger Coach	NAK4931	80642	LE/60/2	81-	R	394	219	282	267	335	10x26.5	2CB4T
Tiger Model 3500	RLK1778	7725	LE/69/1	54-	F	394	167	283	208	335	10x23.5	2CB2T

**LOHR**

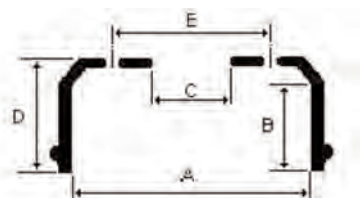
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
305 x 150	730538	80370	SA/36/37/1		T	305	160	176	234	225	10x26.5	2CS2T

**LOHR (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
305 x 200	790160	80123	LZ/2/3/1	-	T	305	210	176	256	225	10x26	-
306 x 200	Y00000227	7703	LZ/2/3/1	-	T	305	214	176	286	225	10x26.5	2CS2T
306 x 200	6050030	80456	LZ/1/1	-	T	305	203	178	259	225	10x26	2CS2T
306 x125	6056097	80457	LZ/6/1	-	T	306	132	160	174	205	6x17	-
355 x 150	Y00002764	80484	LZ/4/5/1	-	T	355	156	225	215	275	8x26.5	-
360 x 180	0310590050	80412	BC/104/105/1	-	T	360	189	230	221	275	8x23	-

**MAN**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
F2000 Series	81 50110 0214	60635	MP/32/2	94-	F	410	184	298	232	335	10x23	2CB3T
F2000 Series	81 50110 0144	7057	MP/36/2	94-	R	410	237	298	300	335	10x23	5x23 3T
F2000 Series	81 50110 0101	80206	MP/32/2	94-	R	410	190	298	280	335	10x23	5x23 3T
F90 Series - Models 13.168 - 48.502	81 50110 0214	60635	MP/31/2	73-	F	410	184	298	232	335	10x23	2CB3T
F90 Series - Models 13.168 - 48.502	81 50110 0144	7057	MP/36/2	73-	R	410	237	298	300	335	10x23	5x23 3T
F90 Series - Models 13.168 - 48.502	81 50110 0101	80206	MP/32/2	73-	R	410	190	298	280	335	10x23	5x23 3T
F90 Series - Models 13.168 - 48.502	81 50110 0147	80208	MP/31/2	73-	F	410	167	298	212	335	10x23	2CB3T
G90 Series - Models 16.362 - 22.362	81 50110 0214	60635	MP/32/2	94-	F	410	184	298	232	335	10x23	2CB3T
G90 Series - Models 16.362 - 22.362	81 50110 0144	7057	MP/36/2	94-	R	410	237	298	300	335	10x23	5x23 3T
G90 Series - Models 16.362 - 22.362	81 50110 0101	80206	MP/32/2	94-	R	410	190	298	280	335	10x23	5x23 3T
G90 Series - Models 16.362 - 22.362	81 50110 0147	80208	MP/31/2	94-	F	410	167	298	212	335	10x23	2CB3T
L2000 6.103 to 10.224	81 50110 0194	80699	GG/209/1	93-00	R	325	105	204	167	245	6x20	3T
L2000 6.103 to 10.224	81 50110 0195	80700	GG/210/1	93-00	R	325	156	204	192	245	6x20	3T
L2000 6.103 to 10.224	81 50110 0233	80703	GG/210/1	93-00	R	325	157	208	207.5	245	6x20	3T
LE2000 LE220B, LE250B, LE280B 14-18 tonne	81 50110 0237	80704	GG/232/1	00-	R	360	187	230	247	275	8x22	3T
M2000 12 Series	81 50110 0237	80704	GG/232/1	96-	R	360	187	230	247	275	8x22	3T
M2000 15 - 26 Series	81 50110 0144	7057	MP/36/2	96-	R	410	237	298	300	335	10x235x23	3T
M2000 15 - 26 Series	81 50110 0101	80206	MP/32/2	96-	R	410	190	298	280	335	10x235x23	3T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**MAN (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
M90 12.152 - 14.272	81 50110 0216	80701	GG/217/1	88-96	F	360	155	230	98	275	8x22	3T
M90 12.152 - 14.272	81 50110 0212	80702	GG/218/1	88-96	R	360	172	230	242	275	8x22	3T
M90 12.152 - 14.272	81 50110 0237	80704	GG/232/1	88-96	R	360	187	230	247	275	8x22	3T
M90 12.152 - 14.272	81 50110 0229	80705	GG/217/1	88-96	F	360	155	230	223	275	8x22	3T
M90 17.192 - 24.272	81 50110 0144	7057	MP/36/2	89-96	R	410	237	298	300	335	10x23	5x23 3T
M90 17.192 - 24.272	81 50110 0101	80206	MP/32/2	89-96	R	410	190	298	280	335	10x23	5x23 3T
M90 17.192 - 24.272	81 50110 0147	80208	MP/31/2	89-96	F	410	167	298	212	335	10x23	2CB3T
M90 Series - Models 13.168 - 48.502	81 50110 0214	60635	MP/32/2	73-	F	410	184	298	232	335	10x23	2CB3T
M90 Series - Models 13.168 - 48.502	81 50110 0144	7057	MP/36/2	73-	R	410	237	298	300	335	10x23	5x23 3T
M90 Series - Models 13.168 - 48.502	81 50110 0101	80206	MP/32/2	73-	R	410	190	298	280	335	10x23	5x23 3T
M90 Series - Models 13.168 - 48.502	81 50110 0147	80208	MP/31/2	73-	F	410	167	298	212	335	10x23	2CB3T
ME2000 14 Series	81 50110 0237	80704	GG/232/1	96-	R	360	187	230	247	275	8x22	3T
ME2000 15 - 26 Series	81 50110 0144	7057	MP/36/2	96-	R	410	237	298	300	335	10x23	5x23 3T
ME2000 15 - 26 Series	81 50110 0101	80206	MP/32/2	96-	R	410	190	298	280	335	10x23	5x23 3T

**MAN PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
All models with drums fitted	81 50110 0144	7057	MP/36/2	-89	R	410	237	298	300	335	10x23	5x23 3T
All models with drums fitted	81 50110 0101	80206	MP/32/2	-89	R	410	190	298	280	335	10x23	5x23 3T
All models with drums fitted	81 50110 0147	80208	MP/31/2	-89	F	410	167	298	212	335	10x23	2CB3T
City Bus - 22.5" Wheels	81 50110 0144	7057	MP/36/2	96-	R	410	237	298	300	335	10x23	5x23 3T
Lion's Coach	81 50110 0144	7057	MP/36/2	89-96	R	410	237	298	300	335	10x23	5x23 3T
Lion's Comfort	81 50110 0144	7057	MP/36/2	89-96	R	410	237	298	300	335	10x23	5x23 3T
Lion's Star	81 50110 0144	7057	MP/36/2	94-	R	410	237	298	300	335	10x23	5x23 3T
SG150 - 750	81 50110 0194	80699	GG/209/1	93-00	R	325	105	204	167	245	6x20	3T
SG150 - 750	81 50110 0195	80700	GG/210/1	96-	R	325	156	204	192	245	6x20	3T
SG150 - 750	81 50110 0233	80703	GG/210/1	93-00	R	325	157	208	207.5	245	6x20	3T
SL150 - 750	81 50110 0194	80699	GG/209/1	93-00	R	325	105	204	167	245	6x20	3T
SL150 - 750	81 50110 0195	80700	GG/210/1	93-	R	325	156	204	192	245	6x20	3T
SL150 - 750	81 50110 0233	80703	GG/210/1	93-	R	325	157	208	207.5	245	6x20	3T

### MAN PSV

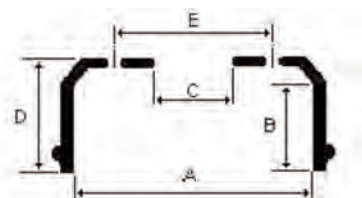
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
SM152	81 50110 0216	80701	GG/217/1	87-95	F	360	155	230	198	275	8x22	3T
SM152	81 50110 0212	80702	GG/218/1	87-95	R	360	172	230	242	275	8x22	3T
SM182	81 50110 0216	80701	GG/217/1	87-95	F	360	155	230	198	275	8x22	3T
SM182	81 50110 0212	80702	GG/218/1	87-95	R	360	172	230	242	275	8x22	3T
SM192	81 50110 0216	80701	GG/217/1	87-95	F	360	155	230	198	275	8x22	3T
SM192	81 50110 0212	80702	GG/218/1	87-95	R	360	172	230	242	275	8x22	3T

### MCW

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Metrobus MK I	X2052087	80707	CS/64/1	78-	R	394	213	280	273	335	10x32	5CB2T
Metrobus MK II	X1811090	80706	CS/65/1	78-	F	394	187	281	229	335	10x26	1CS2T
Metrobus MK II	X2052087	80707	CS/64/1	78-	R	394	213	280	273	335	10x32	5CB2T
Metroliner	X2052205	80315	CS/64/1	83-	R	394	213	281	273	335	10x26	1CB2T
Metroliner	X2052824	80708	CS/64/1	83-	R	394	212	281	271	335	10x26	1CS2T
Metroliner	X1853672	80709	CS/63/1	83-	F	394	197	281	238	335	10x26	1CS1CB4T
Metrorider	X1855970	80710	GG/194/1	82-	F/R	330	132	165	199	205	6x23.5	1CS2T

### MERCEDES BENZ

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Actros 1831- 3357	305 423 0401	60622	MP/36/2	97-	R	410	238	298	306	335	10x23	5x23 3T
Actros 1831- 3357	301 423 0801	60824	MP/36/2	97-	R	410	239	298	306	335	10x23	3T
Actros 1831- 3357	658 421 0301	80748	MP/32/2	97-	F	410	195	298	260	335	10x23	3T
Actros 1831- 3357	387 421 0201	80749	MP/32/2	97-	F	410	195	298	260	335	10x23	3T
Atego 1215-1528 - 19.5" Wheels	677 421 0301	80750	MB/120/121/1	98-	F/R	364	210	238	251	275	8x21	-
Atego 1823 - 2628 - 22.5" Wheels	305 423 0401	60622	MP/36/2	96-	R	410	238	298	306	335	10x23	5x23 3T
Atego 1823 - 2628 - 22.5" Wheels	301 423 0801	60824	MP/36/2	96-	R	410	239	298	306	335	10x23	3T
Atego 1823 - 2628 - 22.5" Wheels	658 421 0301	80748	MP/32/2	96-	F	410	195	298	260	335	10x23	3T
Atego 1823 - 2628 - 22.5" Wheels	387 421 0201	80749	MP/32/2	96-	F	410	195	298	260	335	10x23	3T
Atego 1823 - 2628 - 22.5" Wheels	3054230701	80752	MP/36/2	96-	R	410	238	298	306	335	10x23	5x23 3T
Atego 917-1023 - 17.5 " Wheels	677 421 0301	80750	MB/120/121/1	98-	F/R	364	210	238	251	275	8x21	-
LK / LN 2 Series 1019, 1013, 1017,	1305 421 0001	7053	MP/29/1	76-86	R	410	172	298	229	335	10x23	3T



**APPLICATION CODES**  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**MERCEDES BENZ (cont'd)**

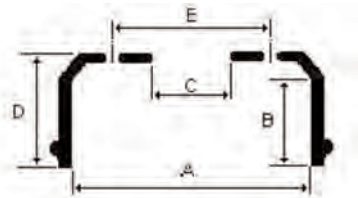
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
LK / LN 2 Series 914 EBM678	677 421 0501	60634	MB/113/114/1	88-	F	364	172	238	210	275	8x21	3T
LK / LN 2 Series 1114 , 1117, 1313, 1314, 1317, 1320, 1324	677 421 0501	60634	MB/113/114/1	88-	F/R	364	172	238	210	275	8x21	3T
LK / LN 2 Series 1120	677 421 0501	60634	MB/113/114/1	89-	F/R	364	172	238	210	275	8x21	3T
LK / LN 2 Series 814	675 334 0104	60616	MB/110/2	84-	F	308	130	HUB	171	205	6x18	
LK / LN 2 Series 814	673 356 0302	60617	MB/110/2	84-	R	308	132	92	92	205	6x18	
LK / LN 2 Series 817	675 334 0104	60616	MB/110/2	84-	F	308	130	HUB	171	205	6x18	
LK / MN 2 Series 809	673 356 0302	60617	MB/110/2	84-	R	308	132	92	92	205	6x18	
Powerliner 1717 - 1850	658 421 0001	60621	MP/32/2	88-	F	410	191	298	236	335	10x23	3T
Powerliner 1717 - 1850	305 423 0401	60622	MP/36/2	88-	R	410	238	298	306	335	10x23	5x23 3T
Powerliner 1717 - 1850	301 423 0801	60824	MP/36/2	88-	R	410	239	298	306	335	10x23	3T
Powerliner 1717 - 1850	305 421 0401	7061	MP/31/2	88-	F	410	165	298	213	335	10x23	2CB3T
T1 Series 407D, 408D, 410, 410D, 507D, 508D, 510D	611 356 0002	60826	MB/80/81/1	82-88	R	270	88	90	213	205	6x14	
T2 Series 508D, 510, 511D, 608D, 609D	611 356 0002	60826	MB/80/81/1	86-	R	270	88	90	213	205	6x14	
T2 Series 809D, 811D, 814D - 16" wheels	670 356 0002	60819	MB/117/118/1	86-98	R	300	130	90	295	205	6x19	
T2 Series 809D, 811D, 814D - 17.5" wheels	670 356 0002	60819	MB/117/118/1	86-98	R	300	130	90	295	205	6x19	
T2 Series 814DA	670 356 0002	60819	MB/117/118/1	88-	R	300	130	90	295	205	6x19	
T2 Series 814DA	668 356 0302	80377	MB/117/118/1	88-	R	300	130	92	284	205	6x14	
T2 Series L709 - 16" wheels	668 356 0302	80377	MB/117/118/1	86-	R	300	130	92	284	205	6x14	
T2 Series L709 - 16" wheels	668 356 0202	80741	MB/100/101/1	86-	R	300	101	92	273	205	6x14	
T2 Series L709 - 16" wheels	670 356 0102	80747	MB/100/101/1	86-	R	300	112	HUB	284	205	6x14	
T2 Series L711 - 16" wheels	668 356 0302	80377	MB/117/118/1	86-	R	300	130	92	284	205	6x14	
T2 Series L711 - 16" wheels	668 356 0202	80741	MB/100/101/1	86-	R	300	101	92	273	205	6x14	

**MERCEDES BENZ (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
T2 Series L711 - 16" wheels	670 356 0102	80747	MB/100/101/1	86-	R	300	112	HUB	284	205	6x14	-
Truck 1617 - 4850	658 421 0001	60621	MP/32/2	73-	F	410	191	298	236	335	10x23	3T
Truck 1617 - 4850	305 423 0401	60622	MP/36/2	73-	R	410	238	298	306	335	10x23	5x23 3T
Truck 1617 - 4850	301 423 0801	60824	MP/36/2	73-	R	410	239	298	306	335	10x23	3T
Truck 1617 - 4850	305 421 0001	7053	MP/31/2	73-	F	410	172	298	229	335	10x23	3T
Truck 1617 - 4850	305 421 0401	7061	MP/31/2	73-	F	410	165	298	213	335	10x23	2CB3T
Truck 1617 - 4850	385 423 0801	7065	MP/32/2	73-	R	410	192	298	258	335	10x23	3T
Truck 1617 - 4850	346 423 0001	7059	MP/31/2	73-	R	410	172	298	270	335	10x23	5x23 3T
Truck 1617 - 4850	617 423 0101	80721	MP/32/2	73-	R	410	230	298	300	335	10x23	5x23 3T
Truck 1617 - 4850	385 423 0301	80723	MP/31/2	73-	R	410	170	298	248	335	10x23	3T
Truck 1617 - 4850	385 423 0501	80724	MP/31/2	73-	R	410	172	298	290	335	10x23	5x23 3T
Truck 1617 - 4850	301 423 0101	80727	MP/31/2	73-	F	410	170	298	238	335	10x23	3T
Truck 1617 - 4850	346 423 0201	80732	MP/31/2	73-	R	410	152	298	259	335	10x23	5x23 3T
Truck 1617 - 4850	617 423 0201	80742	MP/32/2	73-	R	410	194	298	248	335	10x23	3T
Truck 1617 - 4850	387 421 0001	80730	MP/31/2	73-	F	410	175	298	250	335	10x23	5x23 3T

**MERCEDES BENZ PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
301	677 421 0501	60634	MB/113/114/1	88-	F/R	364	172	238	210	275	8x21	3T
402	677 421 0501	60634	MB/113/114/1	88-	F/R	364	172	238	210	275	8x21	3T
0303, 305, 307	301 423 0801	60824	MB/76/77/1	73-91	R	410	239	298	306	335	10x23	3T
0303, 305, 307	305 421 0001	7053	MB/74/75/1	73-91	F	410	172	298	229	335	10x23	3T
0405 City Bus, G Bus, Intercity Bus	301 423 0801	60824	MB/76/77/1	84-	R	410	239	298	306	335	10x23	3T
0405 City Bus, G Bus, Intercity Bus	305 421 0001	7053	MB/74/75/1	84-	F	410	172	298	229	335	10x23	3T
0407	301 423 0801	60824	MB/76/77/1	84-	R	410	239	298	306	335	10x23	3T
0407	305 421 0001	7053	MB/74/75/1	84-	F	410	172	298	229	335	10x2	3T
0409 6 ton	668 356 0302	80377	MB/117/118/1	86-	R	300	130	92	284	205	6x14	-
0409 6 ton	668 356 0202	80741	MB/100/101/1	86-	R	300	101	92	273	205	6x14	-
0709D, 0711D	670 356 0002	60819	MB/117/118/1	87-	R	300	130	90	295	205	6x19	-
0709D, 0711D	668 356 0302	80377	MB/117/118/1	87-	R	300	130	92	284	205	6x14	-
0811D, 0814D	670 356 0002	60819	MB/117/118/1	87-	R	300	130	90	295	205	6x19	-



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**MERCEDES BENZ PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
0811D, 0814D	668 356 0302	80377	MB/117/118/1	87-	R	300	130	92	284	205	6x14	-
0814 L, 0817 L	675 334 0104	60616	MB/110/2	87-	F	308	130	HUB	171	205	6x18	-
0814 L, 0817 L	673 356 0302	60617	MB/110/2	87-	R	308	132	92	92	205	6x18	-
409 7.5 ton	668 356 0302	80377	MB/117/118/1	86-	R	300	130	92	284	205	6x14	-
606D, 0609D, 0611D, 0614D	670 356 0002	60819	MB/117/118/1	87-	R	300	130	90	295	205	6x19	-
606D, 0609D, 0611D, 0614D	668 356 0302	80377	MB/117/118/1	87-	R	300	130	92	284	205	6x14	-
814DA	670 356 0002	60819	MB/117/118/1	88-	R	300	130	90	295	205	6x19	-
814DA	668 356 0302	80377	MB/117/118/1	88-	R	300	130	92	284	205	6x14	-

**MERITOR**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
311 x 178 TM axle 10 stud	21209723	7071	RW/9/13/3		T	311	202	183	260	225	10x25	6T
311 x 178 TM axle 8 stud	21020448	7070	RW/9/13/3		T	311	205	225	260	275	8x24.5	-
350 x 200 - BMX axle	21211030	60628	RW/21/22/1		T	350	210	183	264	225	10x24.5	6T
350 x 200 - BMX axle	20211966	80779	RW/21/22/1		T	350	210	183	263	275	8x24.5	-
350 x 200 - BMX axle	21211966	80782	RW/21/22/1		T	350	214	226	265	275	8x24.5	-
394 x 178	21021441	80775	TI/18/19/3		T	394	191	282	230	335	10x24	-
394 x 178	21006649	80776	TI/18/19/3		T	394	186	282	219	335	10x24	-
419 x 153	21209159	80778	IL/68/69/5/6		T	419	163	282	242	335	10x24	-
419 x 178 9000 Series TE, LM, LMC Axles - Outboard mounting drum	21220183	60590	IL/66/67/3		T	419	187	282	237	335	10x24.5	2T
419 x 178 9000 Series TE, LM, LMC Axles - Outboard mounting drum	21220183	60590	RW/34/35/1		T	419	187	282	237	335	10x24.5	2T
419 x 178 9000 Series TE, LM, LMC Axles - Outboard mounting drum	21220183	60590	L/66/67/3		T	419	187	282	237	335	10x24.5	2T
419 x 178 9000 Series TE, LM, LMC Axles - Outboard mounting drum	21220183	60590	RW/34/35/1		T	419	187	282	237	335	10x24.5	2T
419 x 178 TM and U axle - Inboard mounting drum	21018986	7364	IL/66/67/3		T	419	200	283	248	335	10x24	-

**MERITOR**

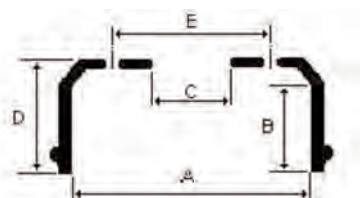
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
419 x 178 TM and U axle - Inboard mounting drum	21018986	7364	RW/5/6/4	-	T	419	200	283	248	335	10x24	-
419 x 178 TM and U axle - Inboard mounting drum	21018986	7364	IL/66/67/3	-	T	419	200	283	248	335	10x24	-
419 x 178 TM and U axle - Inboard mounting drum	21018986	7364	RW/5/6/4	-	T	419	200	283	248	335	10x24	-
419 x 203	21021114	7365	FU/4/5/3	-	T	419	229	282	271	335	10x24	-
419 x 219	21021114	7365	FU/4/5/3	-	T	419	229	282	271	335	10x24	-

**MITSUBISHI**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Canter 35 3.5T	MC838287 C	80755	MC35	99-	R	279.5	70	132	139	170	6x11	3x7
Canter 63 6.3T	QMK321866	80756	MC63	99-	R	320	110	175	123	222	6x19.5	-
Canter 75 7.5T	MT1003	80754	MC75	99-	R	320	110	175	134	222	6x19.5	-

**NEOPLAN (Auwater)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Cityliner N116	305 423 0401	60622	MB/76/77/1	74-91	R	410	238	298	306	335	10x23	5x23 3T
Cityliner N116	305 421 0401	7061	MB/74/75/1	74-91	F	410	165	298	213	335	10x23	2CB3T
Cityliner N116	4462422/120	80314	PB/18/19/1	92-	R	410	233	282	275	335	10x23	2CB2T
Euroliner	4462422/120	80314	PB/18/19/1	92-	R	410	233	282	275	335	10x23	2CB2T
Jetliner	301 423 0801	60824	MB/76/77/1	74-82	R	410	239	298	306	335	10x23	3T
Jetliner	305 421 0001	7053	MB/74/75/1	74-82	F	410	172	298	229	335	10x23	3T
Jetliner	305 421 0401	7061	MB/74/75/1	74-82	F/R	410	165	298	213	335	10x23	2CB3T
Jetliner	4462422/120	80314	PB/20/21/1	83-92	R	410	233	282	275	335	10x23	2CB2T
Metroliner	4462422/120	80314	PB/20/21/1	90-	R	410	233	282	275	335	10x23	2CB2T
Metroliner	34 164 068	80758	PB/16/17/1	90-	F	410	167	298	219	335	10x23	3T
Metroliner	632502500	80840	AX/14/6	90-	R	419	219	282	270	335	10x26	5CB2T
N Series	4462422/120	80314	PB/20/21/1	88-91	R	410	233	282	275	335	10x23	2CB2T
N Series	4462422/120	80314	PB/20/21/1	92-	R	410	233	282	275	335	10x23	2CB2T
N Series	34 164 068	80758	PB/16/17/1	88-91	F	410	167	298	219	335	10x23	3T
Skyliner	4462422/120	80314	PB/20/21/1	92-	R	410	233	282	275	335	10x23	2CB2T
Skyliner	34 164 068	80758	PB/16/17/1	84-91	F	410	167	298	219	335	10x23	3T
Skyliner - Mercedes chassis	301 423 0801	60824	MB/76/77/1	74-92	R	410	239	298	306	335	10x23	3T
Skyliner - Mercedes chassis	305 421 0001	7053	MB/74/75/1	74-92	F	410	172	298	229	335	10x23	3T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**NEOPLAN (Auwater) (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Skyliner - Mercedes chassis	305 421 0401	7061	MB/74/75/1	74-92	F/R	410	165	298	213	335	10x23	2CB3T
Skyliner - Mercedes chassis	301 423 1201	80757	MB/76/77/1	74-92	R	410	239	298	306	335	10x23	3T
Spaceliner	4462422/120	80314	PB/20/21/1	92-	R	410	233	282	275	335	10x23	2CB2T
Starliner	4462422/120	80314	PB/20/21/1	92-	R	410	233	282	275	335	10x23	2CB2T
Transliner	4462422/120	80314	PB/20/21/1	90-	R	410	233	282	275	335	10x23	2CB2T
Transliner	34 164 068	80758	PB/16/17/1	90-	F	410	167	298	219	335	10x23	3T
Transliner	632502500	80840	AX/14/6	90-	R	419	219	282	270	335	10x26	5CB2T

**OPTARE PSV**

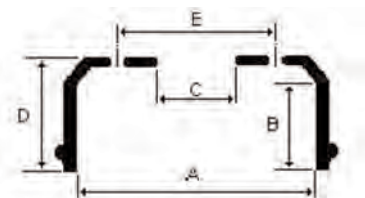
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Bonito	4078770	80367	-	01-	R	280	76	142	132	180	6x15.5	
CityPacer	291609617	80864	FSB180	86-	R	270	75	164	143	205	6x20	1CB4T
Delta 11.5m	638170	60340	DF/20/21/3	88-	F	420	168	285	232	335	10x24	4CB2T
Delta 11.5m	595222	60342	DF/30/31/1	88-	R	420	216	285	284	335	10x24	2CB2T
Delta 11.5m	1233462	60613	DF/44/45/1	88-	F	420	165	285	228	335	10x24	2CB2T
Delta 11.5m	395247	80260	DF/38/39/1	88-	R	420	250	285	313	335	10x24	2CB2T
Sigma	611463/6	80143	CS/68/2	94-96	F	394	187	281	240	335	10x26	1CS1CB4T
Sigma	650711/8	80251	CS/67/2	94-96	R	394	214	282	265	335	10x26.5	5CB3T
Sigma	653188	80472	CS/67/2	94-96	R	394	214	282	265	335	10x26	5CB3T
Sigma	653187	80477	CS/68/2	94-96	F	394	192	281	246	335	10x26	1CSCB4T
Starrider	670 356 0002	60819	MB/117/118/1	87-	R	300	130	90	295	205	6x19	-

**RENAULT**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
50 Series S35, S46, S56	73166269	80445	GG/219/220/1	87-	R	308	110	160	153	205	6x19.5	2T
50 Series S56, S66	73166269	80445	GG/219/220/1	87-	R	308	110	160	153	205	6x19.5	2T
50 Series S75	5430030560	80444	LH/98/99/2	89-	R	330	150	171	220	205	6x19.8	2T
50 Series S75	3457600	80446	LH/98/99/2	89-	R	330	150	160	219	205	6x19.5	2T
50 Series S75	38172900	80447	LH/94/2	89-	F	330	110	160	198	205	6x19.5	2T
50 Series S75	5430031835	80448	GG/194/1	89-	F	330	141	160	194	205	6x19.5	2T

**RENAULT (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
B Series B70, B80, B90, B110, B120	5000396855	80771	SA/20/21/1	82-	R	305	90	143	155	190	5x20	
C Range	5000792895	60624	RN/101/1	80-	R	414	191	281	245	335	10x25	2CB2T
C Range	192371	60907	RN/101/1	80-	R	414	181	281	231	335	10x25	2CB2T
C Range	5010136148	60908	RN/101/1	80-	F	414	184	281	232	335	10x26.5	2CB2T
C Range	5010136146	80121	RN/101/1	80-	F	414	189	281	253	335	10x26.5	2CB2T
C Range	5000716288	80759	RN/101/1	80-	R	414	197	290	245	335	10x25	2CB2T
C Range	191128	80761	SA/10/11/1	80-	F	414	160	281	206	335	10x25	2CB2T
C Range	189923	80762	RN/100/1	80-	F	414	181	281	230	335	10x25	2CB2T
C Range	5000716598	80763	SA/10/11/1	80-	R	414	165	290	259	335	10x25	1CB2T
C Range	5010067788	80764	RN/101/1	80-	R	414	191	281	256	335	10x26.5	2CB2T
C Range	5010216437	80765	RN/101/1	80-	F	414	188	281	237	335	10x26.5	2CB2T
G Maxter	5000792895	60624	RN/101/1	90-	R	414	191	281	245	335	10x25	2CB2T
G Maxter	192371	60907	RN/101/1	90-	R	414	181	281	231	335	10x25	2CB2T
G Maxter	5010136148	60908	RN/101/1	90-	F	414	184	281	232	335	10x26.5	2CB2T
G Maxter	5010067788	80764	RN/101/1	90-	R	414	191	281	256	335	10x26.5	2CB2T
G Range	5000792895	60624	RN/101/1	80-	R	414	191	281	245	335	10x25	2CB2T
G Range	192371	60907	RN/101/1	80-	R	414	181	281	231	335	10x25	2CB2T
G Range	5010136146	80121	RN/101/1	80-	F	414	189	281	253	335	10x26.5	2CB2T
Kerax	5000792895	60624	RN/101/1	97-	R	414	191	281	245	335	10x25	2CB2T
Kerax	192371	60907	RN/101/1	97-	R	414	181	281	231	335	10x25	2CB2T
Kerax	5010136148	60908	RN/101/1	97-	F	414	184	281	232	335	10x26.5	2CB2T
Magnum Series AE380, AE385, AE390	192371	60907	RN/101/1	90-93	R	414	181	281	231	335	10x25	2CB2T
Magnum Series AE380, AE385, AE390, AE420, AE430, AE520, AE560	192371	60907	RN/101/1	93-00	R	414	181	281	231	335	10x25	2CB2T
Magnum Series AE380, AE385, AE390, AE420, AE430, AE520, AE560	5010098949	80213	RN/104/1	93-00	R	414	230	281	277	335	10x26	2CB2T
Major Range	5000792895	60624	RN/101/1	90-00	R	414	191	281	245	335	10x25	2CB2T
Major Range	192371	60907	RN/101/1	90-00	R	414	181	281	231	335	10x25	2CB2T
Major Range	5010136146	80121	RN/101/1	90-00	F	414	189	281	253	335	10x26.5	2CB2T
Major Range	189923	80762	RN/100/1	90-00	F	414	181	281	230	335	10x25	2CB2T
Major Range	5010216437	80765	RN/101/1	90-00	F	414	188	281	237	335	10x26.5	2CB2T
Manager Range	5000792895	60624	RN/101/1	90-00	R	414	191	281	245	335	10x25	2CB2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**RENAULT (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Manager Range	192371	60907	RN/101/1	90-00	R	414	181	281	231	335	10x25	2CB2T
Manager Range	5010136148	60908	RN/101/1	90-00	F	414	184	281	232	335	10x26.5	2CB2T
Manager Range	5010136146	80121	RN/101/1	90-00	F	414	189	281	253	335	10x26.5	2CB2T
Manager Range	5010067788	80764	RN/101/1	90-00	R	414	191	281	256	335	10x26.5	2CB2T
Manager Range	5010216437	80765	RN/101/1	90-00	F	414	188	281	237	335	10x26.5	2CB2T
Manager Range	5000816929	80773	SJ/28/29/1	93-00	R	420	190	230	227	275	8x21	-
Messenger B70-120	5000396855	80771	SA/20/21/1	93-	R	305	90	143	155	190	5x20	-
Midliner M Series M120 - M250	192371	60907	RN/101/1	89-00	R	414	181	281	231	335	10x25	2CB2T
Midliner M Series M120 - M250	5000447774	80379	RN/102/103/1	89-00	R	360	175	228	224	275	8x21.5	2CB2T
Midliner M Series M120 - M250	5000452031	80380	RN/102/103/1	89-00	R	360	194	228	242	275	8x21.5	2CB2T
Midliner M Series M120 - M250	191128	80761	SA/10/11/1	89-00	F	414	160	281	206	335	10x25	2CB2T
Midliner M Series M120 - M250	5000792385	80770	SA/10/11/1	89-00	R	414	160	281	214	335	10x25	2CB2T
Midliner S Series S08 - S160	5516017938	80766	SA/28/29/1	85-90	F	325	134	207	201	245	6x20	2CS2T
Midliner S Series S08 - S160	5010098116	80767	SA/30/31/1	85-90	R	325	155	207	222	245	6x20	2CS2T
Midliner S Series S100, S110	5000203430	80768	BT/76/1	85-	F	310	112	165	179	205	6x20	2CS2T
Midliner S Series S100, S110	5516017937	80769	SA/26/27/1	85-	R	310	130	165	193	205	6x20	2CS2T
Midliner S Series S12, S13	5000447774	80379	RN/102/103/1	87-91	R	360	175	228	224	275	8x21.5	2CB2T
Midliner S Series S120 - S210	5000447774	80379	RN/102/103/1	90-95	R	360	175	228	224	275	8x21.5	2CB2T
Midliner S Series S120 - S210	5000452031	80380	RN/102/103/1	95-	R	360	194	228	242	275	8x21.5	2CB2T
Midliner S Series S120 - S210	5516017938	80766	SA/28/29/1	90-	F	325	134	207	201	245	6x20	2CS2T
Midliner S Series S120 - S210	5010098116	80767	SA/30/31/1	90-	R	325	155	207	222	245	6x20	2CS2T

**RENAULT (cont'd)**

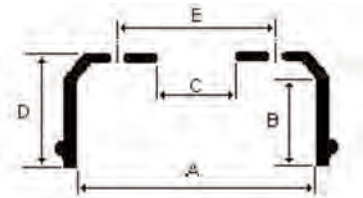
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Midliner S Series S120 - S210	5000203430	80768	BT/76/1	90-95	F	310	112	165	179	205	6x20	2CS2T
Midliner S Series S120 - S210	5516017937	80769	RN/105/1	90-95	R	310	130	165	193	205	6x20	2CS2T
Midlum 19.5" Wheels	5000447774	80379	RN/102/103/1	99-	R	360	175	228	224	275	8x21.5	2CB2T
Midlum 19.5" Wheels	5000452031	80380	RN/102/103/1	99-	R	360	194	228	242	275	8x21.5	2CB2T
2CB2Premium	5000792895	60624	RN/101/1	96-02	R	414	191	281	245	335	10x25	2CB2T
Premium	192371	60907	RN/101/1	96-02	R	414	181	281	231	335	10x25	2CB2T
Premium	5010136146	80121	RN/101/1	96-02	F	414	189	281	253	335	10x26.5	2CB2T
Premium	5010098949	80213	RN/104/1	96-02	R	414	230	281	277	335	10x26	2CB2T
Premium	189923	80762	RN/100/1	96-02	F	414	181	281	230	335	10x25	2CB2T
Premium	5010216437	80765	RN/101/1	96-02	F	414	188	281	237	335	10x26.5	2CB2T
R Range R310 - R420	5000792895	60624	RN/101/1	84-	R	414	191	281	245	335	10x25	2CB2T
R Range R310 - R420	192371	60907	RN/101/1	84-	R	414	181	281	231	335	10x25	2CB2T
R Range R310 - R420	5010136148	60908	RN/101/1	84-	F	414	184	281	232	335	10x26.5	2CB2T
R Range R310 - R420	5010136146	80121	RN/101/1	84-	F	414	189	281	253	335	10x26.5	2CB2T

**RENAULT PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Agora	5010098949	80213	RN/104/1	95-	R	414	230	281	277	335	10x26	2CB2T
FR1	5000792895	60624	RN/101/1	93-	R	414	191	281	245	335	10x25	2CB2T
FR1	5010098949	80213	RN/104/1	93-	R	414	230	281	277	335	10x26	2CB2T
FR1	5000716288	80759	RN/101/1	84-93	R	414	197	290	245	335	10x25	2CB2T
Illiad	5000792895	60624	RN/101/1	98-	R	414	191	281	245	335	10x25	2CB2T
Illiad	5010098949	80213	RN/104/1	98-	R	414	230	281	277	335	10x26	2CB2T
Midliner PP160	5000447774	80379	RN/102/103/1	92-93	R	360	175	228	224	275	8x21.5	2CB2T
S46	73166269	80445	GG/219/220/1	87-	R	308	110	160	153	205	6x19.5	2T
S75	5430030560	80444	LH/98/99/2	89-	R	330	150	171	220	205	6x19.8	2T
S75	3457600	80446	LH/98/99/2	89-	R	330	150	160	219	205	6x19.5	2T
S75	38172900	80447	LH/94/2	89-	F	330	110	160	198	205	6x19.5	2T
S75	5430031835	80448	GG/194/1	89-	F	330	141	160	194	205	6x19.5	2T

**SAE/DUPILLIER**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
305 x 150	730538	80370	SA/36/37/1	-	T	305	160	176	234	225	10x26.5	2CS2T
305 x 200	Y0000022	77703	LZ/2/3/1	-	T	305	214	176	286	225	10x26.5	2CS2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**SAE/DUPILLIER**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
305 x 200	790160	80123	LZ/2/3/1	-	T	305	210	176	256	225	10x26	-
355 x 150 (S3515)	Y00002764	80484	LZ/4/5/1	-	T	355	156	225	215	275	8x26.5	-
355 x 200 (S3520)	8707105	80485	SJ/26/27/1	-	T	355	208	175	275	225	10x26	-
420 x 200 (S4220,4420)	7501109	80486	BC/97/1	-	T	420	206	280	242	335	10x23	-
420 x 200 (S4220,4420)	8406044	80487	SJ/30/31/1	-	T	420	207	285	260	335	10x26.5	2T

**SAF/SAUER**

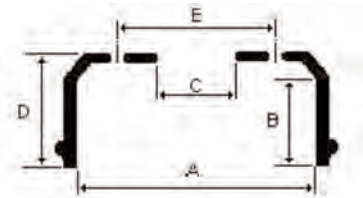
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
300 x 200	1064019700	80179	SJ/22/23/1	-	T	300	210	190	280	225	10x23	-
300 x 200	1064023500	80233	SJ/22/23/1	-	T	300	210	190	280	225	10x23	6T
300 x 200	1064027300	80381	SJ/22/23/1	-	T	300	213	190	280	225	10x23	-
300 x 200	1064014900	80811	SJ/22/23/1	-	T	300	210	190	280	225	10x21	-
355 x 200	1064022300	80195	SJ/26/27/1	-	T	355	207	190	279	225	10x23	-
355 x 200	1064025200	80234	SJ/26/27/1	-	T	355	207	190	279	225	10x23	6T
355 x 200	1064021800	80814	SJ/26/27/1	-	T	355	213	230	279	275	8x23	-
367 x 180	1064028000	80816	SJ/32/33/1	-	T	367	187	240	225	275	8x23	-
367 x 200	1064027700	80817	SJ/34/35/1	-	T	367	210	240	260	275	8x23	-
367 x 200	1064027800	80819	SJ/34/35/1	-	T	367	210	190	258	225	10x23	-
419 x 152	1064024200	80812	IL68/69/5/6	-	T	419	170	290	198	335	10x23	-
419 x 152	106403611	80821	IL68/69/5/6	-	T	419	170	290	198	335	10x23	-
420 x 180	1064023600	60230	BC/98/1	-	T	420	191	290	227	335	10x23	4T
420 x 180	1064026001	60777	SJ/28/29/1	-	T	420	190	300	227	335	10x23	-
420 x 180	1064006002	7744	BC/98/1	-	T	420	194	290	227	335	10x23	-
420 x 180	1064022000	80809	BC/98/1	-	T	420	191	290	227	335	10x23	5T
420 x 180	1064015100	80818	BC/98/1	-	T	420	190	230	227	275	8x21	-
420 x 200	1064010801	7084	BC/97/1	-	T	420	213	290	256	335	10x23	-
420 x 200	1064022100	80810	BC/97/1	-	T	420	213	290	256	335	10x23	5T
420 x 200	1064027000	80815	SJ/30/31/1	-	T	420	213	300	256	335	10x23	-
420 x 200	1064010901	80820	BC/97/1	-	T	420	212	290	304	335	10x23	-

## SCANIA

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
2 Series Models 82, 92, 112, 142	360573	60625	SV/34/1	81-88	R	413	266	295	321	335	10x23.5	2CS3T
2 Series Models 82, 92, 112, 1422	285901	7040	SV/26/1	81-88	F/R	413	138	295	221	335	10x23	2CS3T
Series Models 82, 92, 112, 142	277308	7041	SV/27/1	81-88	R	413	211	295	296	335	10x23.5	2CS3T
2 Series Models 82, 92, 112, 142	285894	7043	SV/8/1	81-88	F	413	186	295	263	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	360573	60625	SV/42/2	89-95	R	413	266	295	321	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	392391	60636	SV/40/2	89-95	F	413	190	295	263	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	285901	7040	SV/39/2	89-95	R	413	138	295	221	335	10x23	2CS3T
3 Series Models 93, 113, 143	277308	7041	SV/41/2	89-95	R	413	211	295	296	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	392390	7745	SV/40/2	89-95	F	413	189	295	253	335	10x23.5	2CS3T
4 Series Models 94, 124, 144	360573	60625	SV/42/2	96-	R	413	266	295	321	335	10x23.5	2CS3T
4 Series Models 94, 124, 144	1361331	80122	SV/41/2	96-	F/R	413	210	295	274	335	10x23.5	2CB3T
4 Series Models 94, 124, 144	1334075	80196	SV/40/2	96-	F	413	187	295	263	335	10x23.5	2CB3T

## SCANIA PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
2 Series Models 82, 92, 112, 142	360573	60625	SV/34/1	83-88	R	413	266	295	321	335	10x23.5	2CS3T
2 Series Models 82, 92, 112, 14	285894	7043	SV/8/1	83-88	F	413	186	295	263	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	360573	60625	SV/42/2	88-	R	413	266	295	321	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	392391	60636	SV/40/2	88-	F	413	190	295	263	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	285894	7043	SV/8/1	83-88	F	413	186	295	263	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	392390	7745	SV/40/2	88-	F	413	189	295	253	335	10x23.5	2CS3T
3 Series Models 93, 113, 143	360569	80829	SV/8/1	83-88	F	413	186	295	252	335	10x23.5	3T
4 Series Models N94, N114, N124	1361331	80122	SV/41/2	96-	F/R	413	210	295	274	335	10x23.5	2CB3T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**SCANIA PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
4 Series Models N94, N114, N124	1334075	80196	SV/40/2	96-	F	413	187	295	263	335	10x23.5	2CB3T

**SEDDON ATKINSON**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
211 Series	65475S1	7716	RW/5/6/4	88-92	F/R	419	190	284	251	335	10x23	2CB2T
300 Series	65475S1	7716	RW/5/6/4	82-86	R	419	190	284	251	335	10x23	2CB2T
300 Series	3347805R1	80134	RW/5/6/4	82-86	R	419	186	285	257	335	10x23.5	2CS2T
300 Series	3293233R1	80138	RW/5/6/4	82-86	F	419	196	281	252	335	10x26	1CS4T
300 Series	65475S1	7716	RW/5/6/4	82-86	F	419	190	284	251	335	10x23	2CB2T
311 Series	65475S1	7716	RW/5/6/4	86-93	F/R	419	190	284	251	335	10x23	2CB2T
311 Series	3347805R1	80134	RW/5/6/4	96-93	R	419	186	285	257	335	10x23.5	2CS2T
311 Series	3293233R1	80138	RW/5/6/4	96-93	F	419	196	281	252	335	10x26	1CS4T
400 Series	3288503R1	80135	RW/5/6/4	79-	R	419	186	281	255	335	10x23.5	4T
401 Series	65475S1	7716	RW/5/6/4	80-86	F/R	419	190	284	251	335	10x23	2CB2T
401 Series	3347805R1	80134	RW/5/6/4	82-86	R	419	186	285	257	335	10x23.5	2CS2T
401 Series	3293233R1	80138	RW/5/6/4	82-86	F	419	196	281	252	335	10x26	1CS4T
411 Series	65475S1	7716	RW/5/6/4	86-91	F/R	419	190	284	251	335	10x23	2CB2T
Pacer	3293233R1	80138	RW/5/6/4	88-	F	419	196	281	252	335	10x26	1CS4T
Pacer	3346525R1	60693	VL/88/2	94-	R	410	207	285	268	335	10x23.5	2CS2T
Pacer	3347805R1	80134	RW/5/6/4	88-	R	419	186	285	257	335	10x23.5	2CS2T
Pacer	3348775R1	80266	VL/88/2	94-	F	410	200	285	253	335	10x23.5	2CS2T
Pacer	3349241R1	80383	RW/5/6/4	88-	F	419	186	285	252	335	10x23.5	2CS2T
Pacer	3351400R1	80385	RW/5/6/4	88-	R	419	188	285	245	335	10x23.5	2CS2T
Pacer	3293245R1	80794	RW/1/2/5	88-	R	419	211	281	272	335	10x23.5	4T
Strato	3346525R1	60693	VL/88/2	94-	R	410	207	285	268	335	10x23.5	2CS2T
Strato	3347805R1	80134	RW/5/6/4	88-	R	419	186	285	257	335	10x23.5	2CS2T
Strato	3293233R1	80138	RW/5/6/4	88-	F	419	196	281	252	335	10x26	1CS4T
Strato	3348775R1	80266	VL/88/2	94-	F	410	200	285	253	335	10x23.5	2CS2T
Strato	3349241R1	80383	RW/5/6/4	88-	F	419	186	285	252	335	10x23.5	2CS2T
Strato	3351400R1	80385	RW/5/6/4	88-	R	419	188	285	245	335	10x23.5	2CS2T

**SEDDON ATKINSON (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Strato	3293245R1	80794	RW/1/2/5	88-	R	419	211	281	272	335	10x23.5	4T

**SMB**

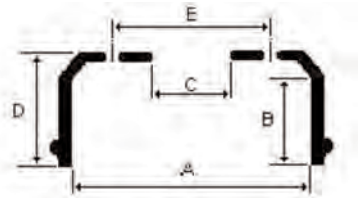
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
311 x 203 SMB C3	MO06867	80386	FU/17/18/1	-	T	311	215	178	300	225	10x26.5	
419 x 178 SMB C2	MO06166	80165	FT/11/12/1	-	T	419	202	288	244	335	10x26.5	2CB2T
419 x 203 SMB C1	MO03176	80191	FT/6/7/1	-	T	419	214	288	256	335	10x26.5	2CB2T

**TRAILOR**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
300 x 200 MS300 TEM	6503335C	80836	BC/106/107	-	T	300	213	185	279	225	10x27	-
419 x 178 Double wheel L200 TEM	6502797F	80838	IL/66/67/3	-	T	419	184	290	243	335	10x27	2CB
419 x 178 L200 MD	6503540J	80837	IL/66/67/3	-	T	419	185	230	210	275	8x21	5xM8
419 x 178 Single wheel L200 TEM	6502781X	60754	IL/66/67/3	-	T	419	182	290	225	335	10x27	2CB2T
419 x 203 N400 TEM Twin	6502807M	80835	RW/1/2/3	-	T	419	210	290	266	335	10x27	2CB2T
419 x 203 SMB Axle	6105000A	80839	RW/1/2/3	-	T	419	215	290	288	335	10x23	-

**VAN HOOL PSV**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Acron Royal A300, 500, 600, AG700	4462422/120	80314	PB/31/32/1	92-	R	410	233	282	275	335	10x23	2CB2T
Acron Royal A300, 500, 600, AG700	137056/2	80841	PB/29/30/1	92-	F	410	182	285	233	335	10x23	2CS2T
Acron T815	7161879	80546	PB/36/37/1	92-	F/R	410	206	285	255	335	10x23	2CS2T
Alicron T911, T915	4462422/120	80314	PB/31/32/1	92-	R	410	233	282	275	335	10x23	2CB2T
Alicron T911, T915	137056/2	80841	PB/29/30/1	92-	F	410	182	285	233	335	10x23	2CS2T
Alizee 10m - Volvo Chassis	1134817/4	7037	VL/76/77/1	79-	F	394	219	282	268	335	10x28	2T
Alizee 10m - Volvo Chassis	1590313/1	9686	VL/81/82/1	79-	R	394	265	282	314	335	10x28	2T
Alizee 12m - Scania Chassis	1361331	80122	SV/41/2	96-	F/R	413	210	295	274	335	10x23.5	2CB3T
Alizee 12m - Scania Chassis	1334075	80196	SV/40/2	96-	F	413	187	295	263	335	10x23.5	2CB3T
Alizee 12m - Volvo Chassis	3111116/4	80250	VL/89/2	95-98	R	410	237	282	286	335	10x28	2CS2T
Altano	4462422/120	80314	PB/31/32/1	92-	R	410	233	282	275	335	10x23	CB2T
Altano	137056/2	80841	PB/29/30/1	92-	F	410	182	285	233	335	10x23	2CS2T



APPLICATION CODES  
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 CB = Counterbored Hole  
 T = Threaded for withdrawing

**VAN HOOL PSV (cont'd)**

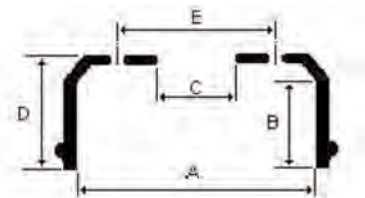
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
Aststrobrel 12m	1599010	60691	VL/88/2	85-95	F	410	205	282	274	335	10x28	2CS2T
Aststrobrel 12m	1599012	60706	VL/89/2	85-95	R	410	229	282	307	335	10x28	2CS2T
EOS 90, 100, 200, 230, 233	4462422/120	80314	PB/31/32/1	95-	R	410	233	282	275	335	10x23	2CB2T
EOS 90, 100, 200, 230,233 - Scania Chassis	1361331	80122	SV/41/2	96-	F/R	413	210	295	274	335	10x23.5	2CB3T
EOS 90, 100, 200, 230, 233 - Scania Chassis	1334075	80196	SV/40/2	96-	F	413	187	295	263	335	10x23.5	2CB3T

**VOLVO**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
F10 Series	1599010	60691	VL/88/2	85-	F	410	205	282	274	335	10x28	2CS2T
F10 Series	1599012	60706	VL/89/2	85-	R	410	229	282	307	335	10x28	2CS2T
F10 Series	1599678	7027	VL/86/1	85-	F	410	190	282	250	335	10x28	2T
F10 Series	1599679	7028	VL/87/2	85-	R	410	203	282	282	335	10x28	2T
F10 Series	1599009	7032	VL/87/2	85-	F	410	192	282	262	335	10x28	2CS2T
F10 Series	1599011	7033	VL/88/2	85-	R	410	215	282	294	335	10x28	2T
F10 Series	352788	80852	VL/70/71/1	77-84	R	413	140	282	218	335	10x33	2CS2T
F10 Series	352788/28	80857	VL/70/71/1	77-84	R	413	140	282	218	335	10x28	2CS2T
F10 Series	1594502	80858	VL/70/71/1	77-84	R	413	140	282	230	335	10x28	2CS2T
F12 Series	1584131	7021	VL/76/77/1	77-84	R	394	215	282	289	335	10x28	2CS2T
F12 Series	1584129	80843	VL/74/75/1	77-84	F	413	163	282	241	335	10x28	2T
F12 Series	352786	80844	VL/74/75/1	77-84	F	413	163	282	241	335	10x33	2T
F12 Series	352787	80845	VL/76/77/1	77-84	R	394	215	282	289	335	10x33	2CS2T
F12 Series	1577439	80846	VL/72/73/1	77-84	F	394	188	282	253	335	10x28	2T
F16 Series	1599010	60691	VL/88/2	88-	F	410	205	282	274	335	10x28	2CS2T
F16 Series	1599012	60706	VL/89/2	88-	R	410	229	282	307	335	10x28	2CS2T
F16 Series	1599679	7028	VL/87/2	88-	R	410	203	282	282	335	10x28	2T
F6 Series F615, 616, 617	6896288	7022	CW/4/2	79-86	F/R	381	215	282	230	335	10x28	1CS2T

**VOLVO (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
F6 Series F615, 616, 617	6857032	7023	CW/4/2	79-86	F/R	381	227	286	245	335	10x24.5	2T
FL6 Series FL6.16	6896288	7022	RW/24/1	86-	F	381	215	282	230	335	10x28	1CS2T
FL6 Series FL6.16	6896288	7022	CW/4/2	86-	R	381	215	282	230	335	10x28	1CS2T
FL6 Series FL6.16	6857032	7023	CW/4/2	86-	F	381	227	286	245	335	10x24.5	2T
FL6 Series FL6.16	6857032	7023	RW/24/1	86-	F	381	227	286	245	335	10x24.5	2T
FL6 Series FL6.16	6857032	7023	RW/24/1	86-	R	381	227	286	245	335	10x24.5	2T
FL6 Series FL6.17	6896288	7022	RW/24/1	86-	F/R	381	215	282	230	335	10x28	1CS2T
FL6 Series FL6.17	6857032	7023	RW/24/1	86-	F/R	381	227	286	245	335	10x24.5	2T
FL6 Series FL6.18	6798897/2	60822	RW/25/1	93-	F/R	381	241	286	255	335	10x25	2T
FL6 Series FL6.18	1599678	7027	VL/87/2	93-95	F	410	190	282	250	335	10x28	2T
FL6 Series FL6.18	1599009	7032	VL/87/2	93-95	F	410	192	282	262	335	10x28	2CS2T
FL6 Series FL6.18	1599011	7033	VL/88/2	93-95	R	410	215	282	294	335	10x28	2T
FL6 Series FL6.18	1075306	80167	VL/87/2	96-	F	410	196	282	261	335	10x28	2CS2T
FL6 Series FL6.18	1075309	80168	VL/88/2	96-	R	410	218	282	294	335	10x28	2CS2T
FL6 Series FL6.18	1075305	80183	VL/87/2	96-	F	410	185	282	248	335	10x28	2CS2T
FL6 Series FL6.19	6798897/2	60822	RW/25/1	93-	F/R	381	241	286	255	335	10x25	2T
FL6 Series FL6.19	1599678	7027	VL/87/2	93-95	F	410	190	282	250	335	10x28	2T
FL6 Series FL6.19	1599009	7032	VL/87/2	93-95	F	410	192	282	262	335	10x28	2CS2T
FL6 Series FL6.19	1599011	7033	VL/88/2	93-95	R	410	215	282	294	335	10x28	2T
FL6 Series FL6.19	1075306	80167	VL/87/2	96-	F	410	196	282	261	335	10x28	2CS2T
FL6 Series FL6.19	1075309	80168	VL/88/2	96-	R	410	218	282	294	335	10x28	2CS2T
FL6 Series FL6.19	1075305	80183	VL/87/2	96-	F	410	185	282	248	335	10x28	2CS2T
FL7 Series	1599010	60691	VL/88/2	85-95	F	410	205	282	274	335	10x28	2CS2T
FL7 Series	1599012	60706	VL/89/2	85-95	R	410	229	282	307	335	10x28	2CS2T
FL7 Series	1599678	7027	VL/86/1	85-95	F	410	190	282	250	335	10x28	2T
FL7 Series	1599679	7028	VL/87/2	85-95	R	410	203	282	282	335	10x28	2T
FL7 Series	1599009	7032	VL/87/2	85-95	F	410	192	282	262	335	10x28	2CS2T
FL7 Series	1599011	7033	VL/88/2	85-95	R	410	215	282	294	335	10x28	2T
FL7 Series	1075306	80167	VL/87/2	96-	F	410	196	282	261	335	10x28	2CS2T
FL7 Series	1075309	80168	VL/88/2	96-	R	410	218	282	294	335	10x28	2CS2T
FL7 Series	1075307	80169	VL/88/2	96-	F	410	210	282	273	335	10x28	2CS2T
F7 Series	1584131	7021	VL/76/77/1	77-84	R	394	215	282	289	335	10x28	2CS2T
F7 Series	6896288	7022	CW/4/2	78-85	F	381	215	282	230	335	10x28	1CS2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**VOLVO (cont'd)**

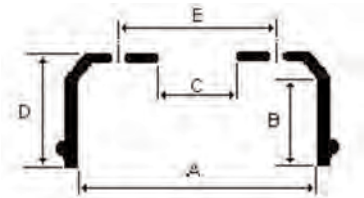
Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
F7 Series	6857032	7023	CW/4/2	78-85	R	381	227	286	245	335	10x24.5	2T
F7 Series	1584129	80843	VL/74/75/1	77-84	F	413	163	282	241	335	10x28	2T
F7 Series	352786	80844	VL/74/75/1	77-84	F	413	163	282	241	335	10x33	2T
F7 Series	352787	80845	VL/76/77/1	77-84	R	394	215	282	289	335	10x33	2CS2T
F7 Series	356158/6	80851	VL/72/73/1	77-84	R	394	191	282	275	335	10x28	1CS2T
F7 Series	352788	80852	VL/70/71/1	77-84	R	413	140	282	218	335	10x33	2CS2T
F7 Series	352788/28	80857	VL/70/71/1	77-84	R	413	140	282	218	335	10x28	2CS2T
F7 Series	1594502	80858	VL/70/71/1	77-84	R	413	140	282	230	335	10x28	2CS2T
F86	1584131	7021	VL/76/77/1	70-77	R	394	215	282	289	335	10x28	2CS2T
F86	1500537	7035	VL/74/75/1	74-	F	413	163	245	228	286	10x26.5	2CS2T
F88	1584131	7021	VL/76/77/1	70-77	R	394	215	282	289	335	10x28	2CS2T
F88	1500537	7035	VL/74/75/1	74-	F	413	163	245	228	286	10x26.5	2CS2T
F89	1584131	7021	VL/76/77/1	70-77	R	394	215	282	289	335	10x28	2CS2T
FH Series	1599010	60691	VL/88/2	93-96	F	410	205	282	274	335	10x28	2CS2T
FH Series	1599012	60706	VL/89/2	93-96	R	410	229	282	307	335	10x28	2CS2T
FH Series	1599678	7027	VL/86/1	93-96	F	410	190	282	250	335	10x28	2T
FH Series	1599679	7028	VL/87/2	93-96	R	410	203	282	282	335	10x28	2T
FH Series	1599009	7032	VL/87/2	93-96	F	410	192	282	262	335	10x28	2CS2T
FH Series	1599011	7033	VL/88/2	93-96	R	410	215	282	294	335	10x28	2T
FH Series	1075306	80167	VL/87/2	96-	F	410	196	282	261	335	10x28	2CS2T
FH Series	1075309	80168	VL/88/2	96-	R	410	218	282	294	335	10x28	2CS2T
FH Series	1075307	80169	VL/88/2	96-	F	410	210	282	273	335	10x28	2CS2T
FH Series	1075305	80183	VL/86/1	96-	F	410	185	282	248	335	10x28	2CS2T
FH Series	1075308	80184	VL/87/2	96-	R	410	204	282	281	335	10x28	2CS2T
FH Series	1075310	80185	VL/89/2	96-	R	410	229	282	306	335	10x28	2CS2T
FH Series	1075311	80238	VL/85/1	96-	R	410	143	282	207	335	10x28	2CS2T
FH Series	1075312	80239	VL/85/1	96-	R	410	171	282	235	335	10x28	2CS2T
FL6 Series FL6.08,6.09, 6.10, 6.11	6772133	60637	GG/214/215/1	87-90	F	360	184	228	248	275	8x21.5	2T

## VOLVO (cont'd)

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
FL6 Series FL6.12, 6.13, 6.14	6772133	60637	GG/214/215/1	86-	F/R	360	184	228	248	275	8x21.5	2T
FL6 Series FL 6.12, 6.13, 6.14	107111/2	80186	GG/233/234/1	86-	R	360	150	228	231	275	8x21.5	2T
FL7 Series	1075305	80183	VL/86/1	96-	F	410	185	282	248	335	10x28	2CS2T
FL7 Series	1075308	80184	VL/87/2	96-	R	410	204	282	281	335	10x28	2CS2T
FL7 Series	1075310	80185	VL/89/2	96-	R	410	229	282	306	335	10x28	2CS2T
FL7 Series	1075311	80238	VL/85/1	96-	R	410	143	282	207	335	10x28	2CS2T
FL7 Series	1075312	80239	VL/86/1	96-	R	410	171	282	235	335	10x28	2CS2T
FM Series	1075306	80167	VL/87/2	96-	F	410	196	282	261	335	10x28	2CS2T
FM Series	1075309	80168	VL/88/2	96-	R	410	218	282	294	335	10x28	2CS2T
FM Series	1075307	80169	VL/88/2	96-	F	410	210	282	273	335	10x28	2CS2T
FM Series	1075305	80183	VL/86/1	96-	F	410	185	282	248	335	10x28	2CS2T
FM Series	1075308	80184	VL/87/2	96-	R	410	204	282	281	335	10x28	2CS2T
FM Series	1075310	80185	VL/89/2	96-	R	410	229	282	306	335	10x28	2CS2T
FM Series	1075311	80238	VL/85/1	96-	R	410	143	282	207	335	10x28	2CS2T
FM Series	1075312	80239	VL/86/1	96-	R	410	171	282	235	335	10x28	2CS2T
FM Series	3094888	80862	VL/87/2	96-	F	410	193	282	249	335	10x28	2CB2T
FS Series FS7.13	107111/2	80186	GG/233/234/1	96-	F/R	360	150	228	231	275	8x21.5	2T
FS Series FS7.16, 7.17, 7.18, 7.19	6798897/2	60822	RW/25/1	91-	R	381	241	286	255	335	10x25	2T
FS Series FS7.16, 7.17, 7.18, 7.19	6857032	7023	CW/4/2	91-	R	381	227	286	245	335	10x24.5	2T

## VOLVO PSV

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
B10B	1599010	60691	VL/88/2	85-95	F	410	205	282	274	335	10x28	2CS2T
B10B	1599012	60706	VL/89/2	85-95	R	410	229	282	307	335	10x28	2CS2T
B10B	3111116/4	80250	VL/89/2	88-	R	410	237	282	286	335	10x28	2CS2T
B10B	9524103	80316	VL/100/101/1	95-	R	394	250	282	287	335	10x28	2T
B10B	1599014	80856	VL/85/1	85-95	R	410	159	282	236	335	10x28	2T
B10L	9524103	80316	VL/100/101/1	95-98	R	394	250	282	287	335	10x28	2T
B10M	1134817/4	7037	VL/76/77/1	79-	F/R	394	219	282	268	335	10x28	2T
B10M	1577439	80846	VL/72/73/1	79-	R	394	188	282	253	335	10x28	2T
B10M	1590313/1	9686	VL/81/82/1	79-	R	394	265	282	314	335	10x28	2T
B10R	1134817/4	7037	VL/76/77/1	79-	F/R	394	219	282	268	335	10x28	2T
B10R	1577439	80846	VL/72/73/1	79-	R	394	188	282	253	335	10x28	2T



APPLICATION CODES  
 F = Number & Diameter of Stud Holes  
 CS = Countersunk Hole  
 CB = Counterbored Hole  
 T = Threaded for withdrawing

**VOLVO PSV (cont'd)**

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
B10R	1590313/1	9686	VL/81/82/1	79-	R	394	265	282	314	335	10x28	2T
B12	1599010	60691	VL/88/2	85-95	F	410	205	282	274	335	10x28	2CS2T
B12	1599012	60706	VL/89/2	85-95	R	410	229	282	307	335	10x28	2CS2T
B12	1075307	80169	VL/88/2	96-	F	410	210	282	273	335	10x28	2CS2T
B12	1075310	80185	VL/89/2	96-	R	410	229	282	306	335	10x28	2CS2T
B12	1075311	80238	VL/85/1	96-	R	410	143	282	207	335	10x28	2CS2T
B12	1075312	80239	VL/86/1	96-	R	410	171	282	235	335	10x28	2CS2T
B12	3111116/4	80250	VL/89/2	95-00	R	410	237	282	286	335	10x28	2CS2T
B12	1599014	80856	VL/85/1	85-95	R	410	159	282	236	335	10x28	2T
B57	1500537	7035	VL/74/75/1	66-77	F	413	163	245	228	286	10x26.5	2CS2T
B57	335217	80842	VL/70/71/1	66-77	F	413	127	245	216	286	10x27	2CS2T
B58	1584131	7021	VL/76/77/1	70-	R	394	215	282	289	335	10x28	2CS2T
B58	1500537	7035	VL/74/75/1	66-77	F	413	163	245	228	286	10x26.5	2CS2T
B59	1584131	7021	VL/76/77/1	70-	R	394	215	282	289	335	10x28	2CS2T
B59	1500537	7035	VL/74/75/1	70-	F	413	163	245	228	286	10x26.5	2CS2T
B6	6772133	60637	GG/207/208/1	86-88	F/R	360	184	228	248	275	8x21.5	2T
B6	6772133	60637	GG/214/215/1	89-94	F/R	360	184	228	248	275	8x21.5	2T
B6	6772133	60637	GG/235/236/1	95-	F/R	360	184	228	248	275	8x21.5	2T
B6	6896288	7022	CW/4/2	83-91	F/R	381	215	282	230	335	10x28	1CS2T
B6	6857032	7023	CW/4/2	83-91	F/R	381	227	286	245	335	10x24.5	2T
B60	1584131	7021	VL/76/77/1	70-	R	394	215	282	289	335	10x28	2CS2T
B60	1500537	7035	VL/74/75/1	70-	F	413	163	245	228	286	10x26.5	2CS2T
B7	1599010	60691	VL/88/2	87-95	F	410	205	282	274	335	10x28	2CS2T
B7	1134817/4	7037	VL/76/77/1	87-95	F	394	219	282	268	335	10x28	2T
B7	3111104/0	80249	VL/87/2	87-95	F	410	190	282	250	335	10x28	2T
B7	3111116/4	80250	VL/89/2	87-00	R	410	237	282	286	335	10x28	2CS2T
B7	1590313/1	9686	VL/81/82/1	87-95	R	394	265	282	314	335	10x28	2T
B7	9524103	80316	VL/100/101/1	95-00	R	394	250	282	287	335	10x28	2T

## VOLVO PSV (cont'd)

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
B9	1584131	7021	VL/76/77/1	83-	R	394	215	282	289	335	10x28	2CS2T
C10	1134817/4	7037	VL/76/77/1	78-	F	394	219	282	268	335	10x28	2T
C10	1590313/1	9686	VL/81/82/1	78-	R	394	265	282	314	335	10x28	2T
D10	1134817/4	7037	VL/76/77/1	78-	F	394	219	282	268	335	10x28	2T
D10	1590313/1	9686	VL/81/82/1	78-	R	394	265	282	314	335	10x28	2T
Olympian	3111104/0	80249	VL/87/2	88-	F	410	190	282	250	335	10x28	2T
Olympian	3111116/4	80250	VL/89/2	88-	R	410	237	282	286	335	10x28	2CS2T

## YORK (HENDRICKSON)

Application	O.E Ref	TTC	Friction	Year	POS	A	B	C	D	E	F	Extra Holes
311 x 127	504030	60288	MQ/1/2/3	-	T	311	140	178	170	225	10x24	-
311 x 127	500445	80869	MQ/1/2/3	-	T	311	129	222	170	275	8x24	-
311 x 178	501774	7088	MQ/3/4/2	-	T	311	191	178	221	225	10x24	-
311 x 178	501481	80868	MQ/3/4/2	-	T	311	206	222	221	275	8x24	-
311 x 178	501774	80870	MQ/3/4/2	-	T	311	191	178	221	225	10x24	6T
311 x 209	502496	7742	YK/10/11/1	-	T	311	217	178	277	225	10x24	-
335 x 150	786464	61127	YK/13/1	-	T	335	168	178	210	225	10x24	-
335 x 150	786174	80368	YK/13/1	-	T	335	215	222	270	275	8x23.5	-
335 x 210	2008	60287	YK/12/1	-	T	335	229	178	270	225	10x24	6T
394 x 153	500117	80877	GG/83/1	-	T	394	171	283	222	335	10x23	-
394 x 178	500761	7338	YK/6/7/3	-	T	394	194	283	235	335	10x24	-
394 x 203	500770	7339	YK/8/9/3	-	T	394	225	283	251	335	10x24	-
419 x 178	501788	80872	IL/66/67/3	-	T	419	192	283	248	335	10x24	-
419 x 178 H2000 Series	786108	60428	IL/66/67/3	-	T	419	188	281	236	335	10x23	2T
419 x 178 H2000 Series	786449	61121	IL/66/67/3	-	T	419	188	283	236	335	10x23	2T
419 x 219	501786	7089	FU/4/5/3	-	T	419	233	283	268	335	10x24	-
419 x 219 H2000 Series	786450	61122	FU/4/5/3	-	T	419	228	283	276	335	10x23	2T
419 x 219 H2000 Series	786110	80874	FU/4/5/3	-	T	419	228	281	276	335	10x23	2T

# O.E Cross References

## ALEXANDER PSV TTC

595222	60342
1233462	60613
1599010	60691
1599012	60706
6772133	60637
9524103	80316
3111104/0	80249
3111116/4	80250
652800/26	80130
652841/5	80131
656007/55	80480
656995/87	80314
81 50110 0101	80206
81 50110 0144	7057
81 50110 0147	80208

## AWD TTC

2683786	60026
2687944	7652
91024573	7655
A4020760	80387
A4023912	80388
A4030617	80389
A4036093	80390

## BEDFORD TTC

2683786	60026
2687944	7652
91006718	7653
91006721	7654
91024573	7655

## BEDFORD PSV TTC

2687944	7652
91024573	7655
91006718	7653
91006721	7654

## BERKHOF PSV TTC

614216	80141
653187	80477
653188	80472
1334075	80196
1361331	80122
1599010	60691
1599012	60706
1599014	80856
1134817/4	7037
1590313/1	9686
611463/6	80143
650711/8	80251
81 50110 0212	80702
81 50110 0216	80701

## BEULAS PSV TTC

7161879	80546
7172079	80102

## BMC/BMC PSV TTC

5K60512	80399
5K87972	80403
652800/26	80130
652841/5	80131

## BOVA PSV TTC

368829	80120
595222	60342
638165	60025
638170	60340
762000	80462

## BPW TTC

0310546200	0310946400
0310546220	0310546220
0310546270	0310546270
0310546290	0310946490
0310590020	0310590020
0310590040	0310590040
0310590050	0310590050
0310667010	0310667010
0310667620	0310967130
0310677560	0310677560
0310677570	0310977770
0310697170	0310697170
0310946060	0310946060
0310967190	0310967190
0310977170	0310977170
0310977720	0310977720
0310977770	0310977770

## CAETANO PSV TTC

614216	80141
653187	80477
653188	80472
1134817/4	7037
1590313/1	9686
611463/6	80143
650711/8	80251
652800/26	80130
652841/5	80131
81 50110 0144	7057

## COLAERT TTC

6050030	80456
6056097	80457

## DAEWOO TTC

AMPA965	80364
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## DAF TTC

90498	80124
90500	60827
94898	60633
284620	60613
395247	80260
595230	7003
754397	80125
1233462	60613
1325270	80224
0090498	80124
0090500	60827
0094898	60633
0754397	80125
AMPA103	80259
AMPA498	80223
AMPA964	80687
AMPA965	80364
FBU3897	80175
MAK7102	80680

## DAF(cont'd) TTC

NJJ1374	80655
NJJ1398	80657
NJK1686	80658
PAK2660	80688
RAK4499	7692
RAK4552	7693
RAK5412	60335
RAK7085	60715
RAK7501	80671

## DAF PSV TTC

368829	80120
395247	80260
595222	60342
638165	60025
638170	60340
1233462	60613

## DENNIS TTC

614216	80141
611463/6	80143
611849/41	80470
614214/1	80142
652800/26	80130
653992/1	80475
654017/8	80476
654547/5	80479
805250/17	80144

## DENNIS PSV TTC

614216	80141
651436	80264
611463/6	80143
650711/8	80251
652800/26	80130
652841/5	80131
656007/55	80480
656995/87	80288
657340/1	80481

## DUPILLIER TTC

730538	80370
790160	80123
7501109	80486
8406044	80487
8707105	80485
Y00000227	7703
Y00002764	80484

## ERF TTC

96916	80133
303134	80221
132020/8	60692
136327/2	80265
96417/1	7666

## FODEN TTC

2831805	80524
2100070000	80228
FG26234/3	7669
FG26235/3	80529
FG26236/1	7671
FG26237/3	80218
Y03283112	80229
Y07058606	80227

# O.E Cross References

<b>FORD</b>	<b>TTC</b>
1405614	80501
1502024	7682
1502026	80502
1536517	80509
1549126	7677
1780425	80507
1780426	80514
1780427	80515
4078769	80366
4078770	80367
4146930	80365
6060698	80508
6088431	80510
6088432	80519
6116774	80512
6126489	80516
6126495	7683
6126495	7683
6135911	80517

<b>FORD PSV</b>	<b>TTC</b>
1502024	7682

<b>FRUEHAUF</b>	<b>TTC</b>
1014079	7082
1018444	7080
MO03176	80191
MO06166	80165
MO06867	80386
MO65445X	80454

<b>GIGANT</b>	<b>TTC</b>
730538	80370
790160	80123
7501109	80486
8406044	80487
8707105	80485
9380037	80805
Y00000227	7703
Y00002764	80484

<b>GRANNING LYNX</b>	<b>TTC</b>
61029	80533
61240	80532
61535	80531

<b>HINO</b>	<b>TTC</b>
43512-1341	60345
43512-1690	80536
43512-2330	60343
43512-4090	80193
43512-4100	80194

<b>IKARUS PSV</b>	<b>TTC</b>
368829	80120
595222	60342
638170	60340

<b>ISUZU</b>	<b>TTC</b>
897032891	80539
897081219	80540
897102001	80541

<b>IVECO</b>	<b>TTC</b>
2475817	80715
2477358	80716
4459413	80717
7163802	60614
7165379	80544
7165402	80137
7166307	80252
7167613	80253
7172079	80102
7172329	80172
7172788	80548
7173281	80136
7173383	80551
7180996	80550
7183046	80556
7183048	80554
42003218	80530
42102142	80552
42118426	80174
42118427	80173
92942008	80241
7183050 C	80553

<b>IVECO PSV</b>	<b>TTC</b>
7165361	80543
7165564	80542
7172788	80548

<b>KASSBOHRER PSV</b>	<b>TTC</b>
179241111306	80558
179252011107	80831
179252011311	80830

<b>LDV</b>	<b>TTC</b>
BAU4504	80685
BAU4537	80369
DMA7501	80681

<b>LEYLAND</b>	<b>TTC</b>
FBU3897	80175
RAK4499	7692
RAK4552	7693
RAK7085	60715

<b>LEYLAND PSV</b>	<b>TTC</b>
507139	7720
551095	80633
3111104/0	80249
3111116/4	80250
DBK1022	80659
NAK2636	7724
NAK2785	80254
NAK3828	80269
NAK4931	80642
NAK5544	80636
NAK8969	80256
NLK3614	80263
NLK5378	7719
RAK7501	80671
RLK1778	7725
RLK2758	80664

<b>LOHR</b>	<b>TTC</b>
730538	80370
790160	80123
6050030	80456
6056097	80457
0310590050	80412
Y00000227	7703
Y00002764	80484

<b>MAN</b>	<b>TTC</b>
81 50110 0101	80206
81 50110 0144	7057
81 50110 0147	80208
81 50110 0194	80699
81 50110 0195	80700
81 50110 0212	80702
81 50110 0214	60635
81 50110 0216	80701
81 50110 0229	80705
81 50110 0233	80703
81 50110 0237	80704

<b>MAN PSV</b>	<b>TTC</b>
81 50110 0101	80206
81 50110 0144	7057
81 50110 0147	80208
81 50110 0194	80699
81 50110 0195	80700
81 50110 0212	80702
81 50110 0216	80701
81 50110 0233	80703

<b>MCW</b>	<b>TTC</b>
X1811090	80706
X1853672	80709
X1855970	80710
X2052087	80707
X2052205	80315
X2052824	80708

<b>MERCEDES BENZ</b>	<b>TTC</b>
3054230701	80752
301 423 0101	80727
301 423 0801	60824
305 421 0001	7053
305 421 0401	7061
305 423 0401	60622
346 423 0001	7059
346 423 0201	80732
385 423 0301	80723
385 423 0501	80724
385 423 0801	7065
387 421 0001	80730
387 421 0201	80749
611 356 0002	60826
611 356 0002	60826
617 423 0101	80721
617 423 0201	80742
658 421 0001	60621
658 421 0301	80748
668 356 0202	80741
668 356 0302	80377
670 356 0002	60819
670 356 0102	80747

# O.E Cross References

**MERCEDES BENZ** **TTC**  
**(cont'd)**

673 356 0302	60617
675 334 0104	60616
677 421 0301	80750
677 421 0501	60634

**MERCEDES BENZ** **TTC**  
**PSV**

301 423 0801	60824
305 421 0001	7053
668 356 0202	80741
668 356 0302	80377
670 356 0002	60819
673 356 0302	60617
675 334 0104	60616
677 421 0501	60634

**MERITOR** **TTC**

20211966	80779
21006649	80776
21018986	7364
21020448	7070
21021114	7365
21021441	80775
21209159	80778
21209723	7071
21211030	60628
21211966	80782
21220183	60590

**MITSUBISHI** **TTC**

MC838287 C	80755
MT1003	80754
QMK321866	80756

**NEOPLAN** **TTC**  
**(AUWATER)**

632502500	80840
301 423 0801	60824
301 423 1201	80757
305 421 0001	7053
305 421 0401	7061
305 423 0401	60622
34 164 068	80758
4462422/120	80314

**OPTARE PSV** **TTC**

395247	80260
595222	60342
638170	60340
653187	80477
653188	80472
1233462	60613
4078770	80367
291609617	80864
611463/6	80143
650711/8	80251
670 356 0002	60819

**RENAULT** **TTC**

189923	80762
191128	80761
192371	60907

**RENAULT (cont'd)** **TTC**

3457600	80446
38172900	80447
73166269	80445
5000203430	80768
5000396855	80771
5000447774	80379
5000452031	80380
5000716288	80759
5000716598	80763
5000792385	80770
5000792895	60624
5000816929	80773
5010067788	80764
5010098116	80767
5010098949	80213
5010136146	80121
5010136148	60908
5010216437	80765
5430030560	80444
5430031835	80448
5516017937	80769
5516017938	80766

**RENAULT PSV** **TTC**

3457600	80446
38172900	80447
73166269	80445
5000447774	80379
5000716288	80759
5000792895	60624
5010098949	80213
5430030560	80444
5430031835	80448

**SAE/DUPILLIER** **TTC**

730538	80370
790160	80123
7501109	80486
8406044	80487
8707105	80485
Y00000227	7703
Y00002764	80484

**SAF/SAUER** **TTC**

106403611	80821
1064006002	7744
1064010801	7084
1064010901	80820
1064014900	80811
1064015100	80818
1064019700	80179
1064021800	80814
1064022000	80809
1064022100	80810
1064022300	80195
1064023500	80233
1064023600	60230
1064024200	80812
1064025200	80234
1064026001	60777
1064027000	80815
1064027300	80381
1064027700	80817
1064027800	80819
1064028000	80816

**SCANIA** **TTC**

277308	7041
285894	7043
285901	7040
360573	60625
392390	7745
392391	60636
1334075	80196
1361331	80122

**SCANIA PSV** **TTC**

285894	7043
360569	80829
360573	60625
392390	7745
392391	60636
1334075	80196
1361331	80122

**SEDDON ATKINSON** **TTC**

3288503R1	80135
3293233R1	80138
3293245R1	80794
3346525R1	60693
3347805R1	80134
3348775R1	80266
3349241R1	80383
3351400R1	80385
65475S1	7716

**SMB** **TTC**

MO03176	80191
MO06166	80165
MO06867	80386

**TRAILOR** **TTC**

6105000A	80839
6502781X	60754
6502797F	80838
6502807M	80835
6503335C	80836
6503540J	80837

**VAN HOOL PSV** **TTC**

1334075	80196
1361331	80122
1599010	60691
1599012	60706
7161879	80546
1134817/4	7037
137056/2	80841
1590313/1	9686
3111116/4	80250
4462422/120	80314

**VOLVO** **TTC**

352786	80844
352787	80845
352788	80852
1075305	80183
1075306	80167
1075307	80169
1075308	80184
1075309	80168

# O.E Cross References

<b>VOLVO (cont'd)</b>	<b>TTC</b>
1075310	80185
1075311	80238
1075312	80239
1500537	7035
1577439	80846
1584129	80843
1584131	7021
1594502	80858
1599009	7032
1599010	60691
1599011	7033
1599012	60706
1599678	7027
1599679	7028
3094888	80862
6772133	60637
6857032	7023
6896288	7022
107111/2	80186
352788/28	80857
356158/6	80851
6798897/2	60822

<b>VOLVO PSV</b>	<b>TTC</b>
335217	80842
1075307	80169
1075310	80185
1075311	80238
1075312	80239
1500537	7035
1577439	80846
1584131	7021
1599010	60691
1599012	60706
1599014	80856
6772133	60637
6857032	7023
6896288	7022
9524103	80316
1134817/4	7037
1590313/1	9686
3111104/0	80249
3111116/4	80250

<b>YORK (HENDRICKSON)</b>	<b>TTC</b>
2008	60287
500117	80877
500445	80869
500761	7338
500770	7339
501481	80868
501774	7088
501774	80870
501786	7089
501788	80872
502496	7742
504030	60288
786108	60428
786110	80874
786174	80368
786449	61121
786450	61122
786464	61127

# Alternative References

<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>
AW1001	80387	CF1009	7071	ER1016	60693
AW1002	80388	CF1013	7364	ER1022	80141
AW1003	80389	CF1014	7365	ER1034	80221
AW1004	80390	CO1001	80456	FD1002	80501
AW1005	60693	CO1002	7703	FD1003	7682
BE1001	80391	CO1003	80457	FD1004	80502
BE1002	7653	DA1006	80458	FD1005	80503
BE1003	7654	DA1011	60340	FD1006	7677
BE1004	7652	DA1012	60025	FD1009	80506
BE1008	60026	DA1014	7752	FD1009	80506
BE1008	60026	DA1015	7003	FD1010	80507
BE1009	80392	DA1020	60827	FD1011	80508
BE1011	80393	DA1021	80460	FD1012	80509
BE1014	7655	DA1022	80260	FD1014	7683
BE1015	80394	DA1023	80124	FD1015	80510
BE1016	80395	DA1025	60342	FD1020	80514
BE1021	80396	DA1026	80125	FD1021	80515
BP1001	0310667120	DA1028	60633	FD1023	80516
BP1001	0310667430	DA1029	80462	FD1024	80517
BP1002	0310667540	DA1030	60613	FD1028	80518
BP1002	0310967740	DA1035	80314	FD1029	80519
BP1003	0310677040	DA1035	80314	FD1030	80520
BP1004	0310677520	DA1036	80120	FD1031	80521
BP1006	0310546200	DA1037	80224	FD1032	7677
BP1006	0310946400	DA1038	80259	FD1044	80366
BP1007	0310667620	DA1039	80223	FD1045	80365
BP1007	0310667620	DA1042	80364	FO1002	80523
BP1007	0310967130	DE1003	80466	FO1003	80524
BP1007	0310967820	DE1006	80469	FO1004	80525
BP1008	0310677570	DE1007	80470	FO1005	80526
BP1009	0310546290	DE1008	80471	FO1008	7669
BP1011	0310590040	DE1009	80251	FO1009	80529
BP1012	0310590050	DE1011	80474	FO1011	80227
BP1013	0310590020	DE1012	80130	FO1012	80229
BP1014	0310546270	DE1013	80131	FO1013	7671
BP1015	0310546220	DE1015	80475	FO1014	60765
BP1018	0310546130	DE1016	80141	FO1015	80134
BP1019	0310977720	DE1017	80476	FO1017	80218
BP1019	0310977720	DE1018	80477	FO1021	80280
BP1020	0310677560	DE1018	80477	FO1022	80228
BP1023	0310697170	DE1019	80142	FT1005	60614
BP1025	0310967190	DE1021	80144	GN1001	80531
BP1028	0310677110	DE1022	80479	GN1002	80532
BR1001	80428	DE1023	80264	HI1001	60345
BR1002	80271	DE1024	80143	HI1002	80536
BR1003	80429	DE1025	80251	HI1003	60343
BR1004	80267	DE1025	80251	HI1004	80193
CD1005	80434	DE1036	80133	HI1005	80194
CD1008	80436	DE1043	80287	HU1001	80537
CD1010	80438	DE1043	80480	HU1002	80538
CD1011	80439	DE1048	80288	IV1001	80137
CD1012	80440	DR1001	80482	IV1005	80542
CD1013	80441	DR1002	80483	IV1006	60712
CD1017	80442	DU1001	80123	IV1008	80543
CD1018	80443	DU1001	80123	IV1009	60714
CD1019	80444	DU1003	80370	IV1013	60723
CD1022	80445	ER1001	80489	IV1014	60714
CD1023	80446	ER1002	80490	IV1015	80544
CD1028	80447	ER1005	80492	IV1018	80147
CD1029	80448	ER1006	7666	IV1019	80148
CD1030	80449	ER1007	80133	IV1020	80545
CF1001	7082	ER1008	80493	IV1021	60726
CF1003	7080	ER1010	80494	IV1022	80136
CF1006	80386	ER1013	60692	IV1024	80102
CF1007	80165	ER1015	80265	IV1025	80252
CF1008	80191			IV1026	80253

# Alternative References

<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>
IV1028	80172	LE1107	80674	NE1001	80757
IV1029	80173	LE1111	80677	NE1002	80314
IV1035	80546	LE1116	80680	NE1003	80758
IV1035	80546	LE1118	80681	OP1003	80134
IV1037	80174	LE1120	80683	RN1001	80759
IV1038	80548	LE1122	80685	RN1003	80761
IV1041	80241	MAN1001	7057	RN1004	60907
KA1004	80557	MAN1002	80206	RN1005	80762
KA1005	80558	MAN1002	80206	RN1006	80763
LE1002	80607	MAN1004	7061	RN1009	60624
LE1005	7721	MAN1004	80208	RN1010	80764
LE1007	80610	MAN1007	80699	RN1011	80121
LE1013	80613	MAN1007	80699	RN1012	80765
LE1014	80614	MAN1008	80700	RN1014	60908
LE1023	80620	MAN1008	89700	RN1015	80379
LE1024	80621	MAN1009	80701	RN1016	80766
LE1025	80622	MAN1010	80702	RN1017	80767
LE1026	80623	MAN1011	60635	RN1020	80768
LE1027	80624	MAN1014	80703	RN1021	80769
LE1028	80625	MAN1016	80704	RN1022	80770
LE1030	80627	MAN1018	80705	RN1023	80213
LE1032	80628	MCW1001	80706	RN1030	80771
LE1034	80630	MCW1002	80707	RN1033	80772
LE1036	7724	MCW1003	80315	RN1040	80380
LE1038	80269	MCW1004	80708	RO1001	7070
LE1040	80263	MCW1005	80709	RO1002	7365
LE1041	80631	MCW1006	80710	RO1003	80775
LE1042	80632	MG1001	80715	RO1005	80776
LE1043	7720	MG1002	80716	RO1009	7746
LE1044	80633	MNE1002	7058	RO1010	80778
LE1048	80314	MNE1003	7059	RO1012	60628
LE1050	7719	MNE1004	7053	RO1014	60590
LE1051	80639	MNE1005	80720	SA1003	80785
LE1052	80640	MNE1008	80723	SA1005	80786
LE1053	80641	MNE1009	80724	SA1005	80786
LE1054	80642	MNE1012	80725	SA1007	80787
LE1056	80644	MNE1013	80726	SA1008	80788
LE1058	80646	MNE1014	80727	SA1009	7716
LE1061	80648	MNE1016	80728	SA1011	80789
LE1063	80649	MNE1017	80729	SA1012	80790
LE1064	80650	MNE1021	80731	SA1013	60765
LE1066	7692	MNE1023	80732	SA1016	80793
LE1067*	7693	MNE1024	80733	SA1018	80795
LE1068	80653	MNE1026	7065	SA1020	80796
LE1069	7725	MNE1030	60621	SA1021	80138
LE1071	80655	MNE1031	60622	SA1023	80797
LE1072	80656	MNE1034	80736	SA1024	80798
LE1073	80256	MNE1034	80736	SA1026	80800
LE1075	80657	MNE1035	80737	SA1027	80801
LE1076	80658	MNE1037	60634	SA1028	80134
LE1078	80660	MNE1038	60617	SA1031	60692
LE1080	80661	MNE1039	80738	SA1032	80141
LE1081	60715	MNE1040	60616	SA1033	60693
LE1084	80175	MNE1042	80739	SA1037	80140
LE1086	80254	MNE1043	80740	SA1038	80266
LE1089	80664	MNE1044	60709	SA1040	80803
LE1090	80369	MNE1047	80742	SA1041	80383
LE1092	60335	MNE1048	60824	SA1044	80385
LE1092	60335	MNE1049	80743	SAU1001	7744
LE1092	60335	MNE1051	80744	SAU1002	7084
LE1096	80667	MNE1054	60819	SAU1003	60230
LE1097	80668	MNE1058	80230	SAU1004	80809
LE1101	80669	MNE1064	80745	SAU1005	80810
LE1104	80670	MNE1066	80746	SAU1006	80179
LE1105	80672	MNE1074	80747	SAU1007	80195
LE1106	80673	NE1001	80757	SAU1008	80811

# Alternative References

<b>WINNARD</b>	<b>TTC</b>	<b>WINNARD</b>	<b>TTC</b>
SAU1009	60229	VO1033	80249
SAU1011	60777	VO1033	80249
SAU1012	80814	VO1034	80250
SAU1013	60765	VO1034	80250
SAU1014	80234	VO1035	80852
SAU1015	80233	VO1037	80169
SAU1024	80381	VO1038	80185
SC1004	80822	VO1039	80183
SC1006	7041	VO1040	80167
SC1007	80823	VO1041	80184
SC1009	7040	VO1042	80168
SC1010	80825	VO1043	80238
SC1011	7043	VO1044	80239
SC1015	7745	VO1052	80858
SC1016	60636	VO1057	80186
SC1017	60625	VO1062	80316
SC1018	80827	VW1001	80864
SC1019	80828	VW1003	80865
SC1020	80829	YO1001	7338
SC1021	80122	YO1002	7339
SC1022	80196	YO1003	7089
SE1001	80830	YO1006	80869
SE1002	80831	YO1007	7742
TR1001	60754	YO1008	7088
TR1002	80835	YO1010	7740
TR1003	80836	YO1011	60287
TR1004	80837	YO1012	60428
TR1005	80838	YO1013	60288
TR1006	80165	YO1014	80872
TR1008	80191	YO1015	80874
TR1008	80839	YO1019	61121
VH1001	80840	YO1020	61122
VH1003	80141	YO1021	61127
VH1005	80841	YO1022	80368
VO1001	7036	YO1023	80877
VO1002	80842		
VO1003	80843		
VO1004	80844		
VO1005	7021		
VO1006	80845		
VO1007	7035		
VO1008	80846		
VO1009	80847		
VO1010	7023		
VO1011	80849		
VO1012	80850		
VO1014	80851		
VO1015	80852		
VO1016	7022		
VO1017	7037		
VO1018	9686		
VO1019	7027		
VO1020	7033		
VO1021	80853		
VO1022	7032		
VO1024	7028		
VO1025	60706		
VO1026	60637		
VO1027	60691		
VO1030	80855		
VO1031	80856		
VO1032	60822		