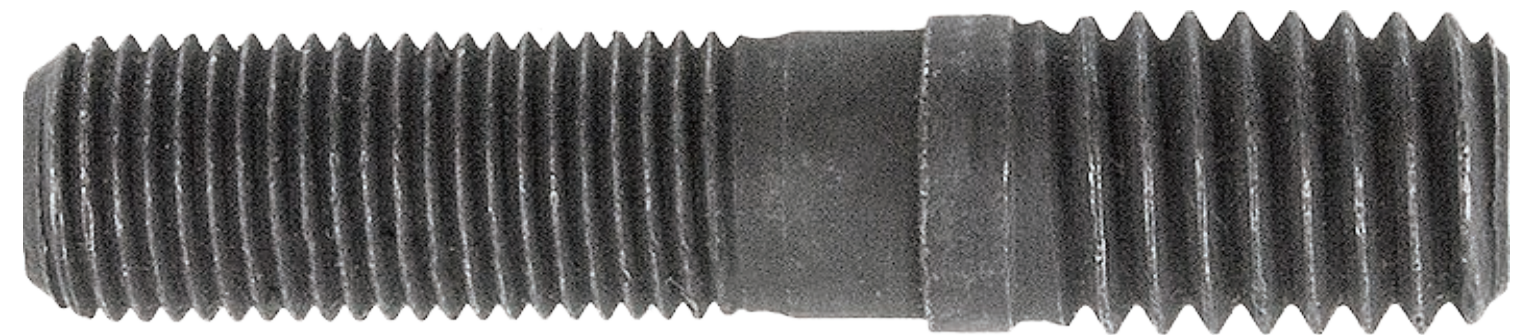


WHEEL STUDS[®]

WORLD AMERICAN





HOW TO ID WHEEL STUDS

Identifying studs is as EZ as 1 -2 - 3



1: Family

2: Diameter/Pitch

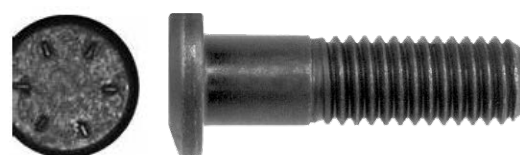
3: Length

Stud Type:

A: Headed



B: Clipped



C: Double Clip



D: Shoulder



E: Drive Flange



F: Wheel Bolt



G: Bus Type



**H: General
Double-End**



Grade markings on head:

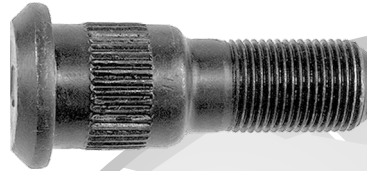
- 3 radial lines: **GRADE 5**
- 6 radial lines: **GRADE 8**
- 10.9 marking (Metric)

Markings:

- "L" or "R" on the bottom of stud:
Left or right hand

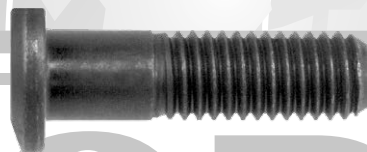
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Headed



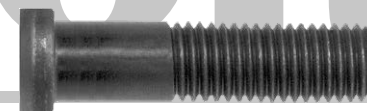
PAGE: 3

Clipped



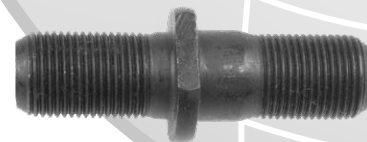
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Double Clip



PAGE: 19

Shoulder



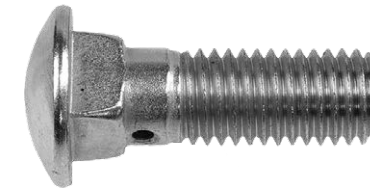
PAGE: 19

Drive Flange



PAGE: 24

Wheel Bolt



PAGE: 24

Bus Type



PAGE: 24

General Double-End



PAGE: 26

Display Rack

PAGE: 29

Stud Installers & Removers

PAGE: 29

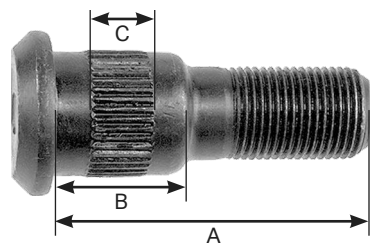
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HEADED WHEEL STUDS

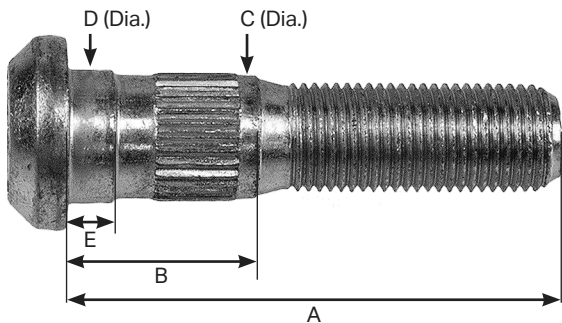
PICTURED: WA07-6151



REPLACEMENT BUDD®, MOTOR WHEEL® 9/16"-18

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6151 RIGHT HAND STUD	EUCLID® E-5701 MW® 81109 NWRA® X-1198	1 5/8"	5/8"	5/8"
WA07-6222 RIGHT HAND STUD	EUCLID® MW® 81118 NWRA® X-1196	2 5/16"	13/16"	5/8"
WA07-6122 RIGHT HAND STUD	BUDD® 31439 EUCLID® E-5724	3 1/4"	1 19/64"	19/32"

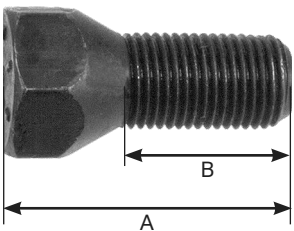
PICTURED: WA07-6031



REPLACEMENT DODGE® 5/8"-18

WORLD AMERICAN #	REPLACES	A	B	C	D	E	USE WA NUT
WA07-6031 RIGHT HAND STUD	BUDD®92176 DODGE® 301123 EUCLID® E-8946R	2 9/16"	15/16"	5/8"	21/32"	1/4"	WA07-7264
WA07-6320 LEFT HAND STUD	BUDD® 92177 DODGE® 301124 EUCLID® E-8946L	2 9/16"	15/16"	5/8"	21/32"	1/4"	WA07-7269
WA07-6304 RIGHT HAND STUD	BUDD® 98348 DODGE® 3637878 EUCLID® E-8946R	2 15/16"	15/16"	5/8"	21/32"	1/4"	WA07-5122
WA07-6229 LEFT HAND STUD	BUDD® 98349 DODGE® 3637879 EUCLID® E-8946L	2 15/16"	15/16"	5/8"	21/32"	1/4"	WA07-7199

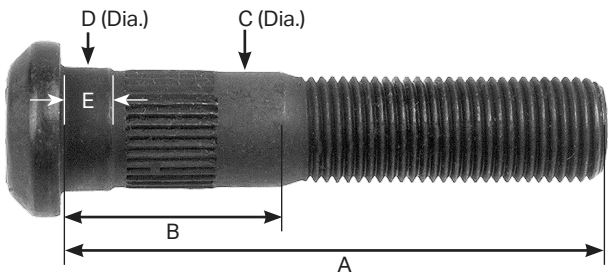
PICTURED: WA07-6133



REPLACEMENT DODGE® 3/4" HEX HEAD

WORLD AMERICAN #	REPLACES	A	B	THREAD
WA07-6133 RIGHT HAND STUD	DODGE® 393984 EUCLID® E-5591R NWRA® X-1064	1 1/2"	7/8"	1/2"20 RH
WA07-6218 LEFT HAND STUD	DODGE® 856981 EUCLID® E-5591L NWRA® X-1065	1 1/2"	7/8"	1/2"-20 LH
WA07-6216 RIGHT HAND STUD	DODGE® 386985 EUCLID® E-5592R NWRA® X-1092	1 1/2"	7/8"	9/16"-18 RH
WA07-7229 LEFT HAND STUD	DODGE® 856982 EUCLID® E-5592L NWRA® X-1093	1 1/2"	7/8"	9/16"-18 RH

PICTURED: WA07-1166

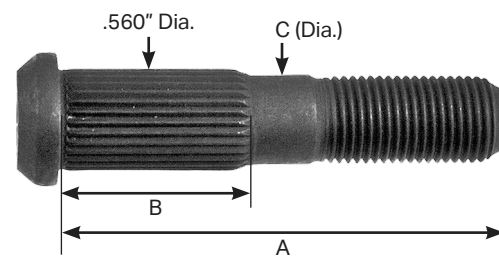


REPLACEMENT FORD® 9/16"-18

WORLD AMERICAN #	REPLACES	A	B	C	D	E	USE WA NUT
WA07-7202 RIGHT HAND STUD	EUCLID® E-8959R FORD® DOTZ1107A	2 13/16"	1 1/8"	19/32"	5/8"	9/32"	WA07-7277
WA07-7203 LEFT HAND STUD	EUCLID® E-8959L FORD® DOTZ1119A	2 13/16"	1 1/8"	19/32"	5/8"	9/32"	WA07-7278

HEADED WHEEL STUDS

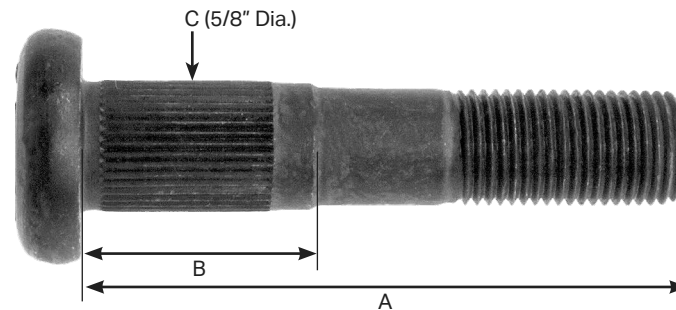
PICTURED: WA07-7228



REPLACEMENT GMC® 1/2" - 20 .560" DIAMETER RIGHT HAND STUDS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7228 RIGHT HAND STUD	EUCLID® E-5621 KELSEY® 43936	2 5/16"	15/16"	9/16"
WA07-6130 RIGHT HAND STUD	EUCLID® E-5622 KELSEY® 43941 NWRA® X-1242	2 1/2"	15/16"	9/16"
WA07-6131 RIGHT HAND STUD	EUCLID® E-5819 GM® 3819780	2 7/8"	15/16"	9/16"

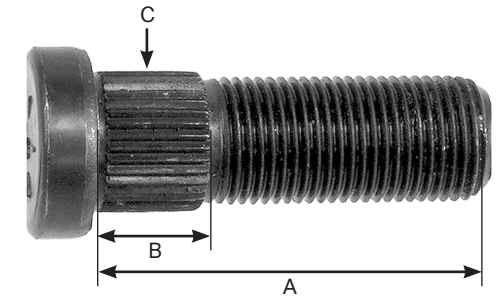
PICTURED: WA07-7204



REPLACEMENT GMC® 9/16" - 18

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7204 RIGHT HAND STUD	CHEVROLET® 3988528 EUCLID® E-8963	3"	1 1/16"	5/8"
WA07-7205 RIGHT HAND STUD	CHEVROLET® 334386 EUCLID® E-8964	3 1/2"	1 1/16"	5/8"
WA07-7206 RIGHT HAND STUD	CHEVROLET® 355815 EUCLID® E-8965	3 9/16"	1 5/16"	5/8"

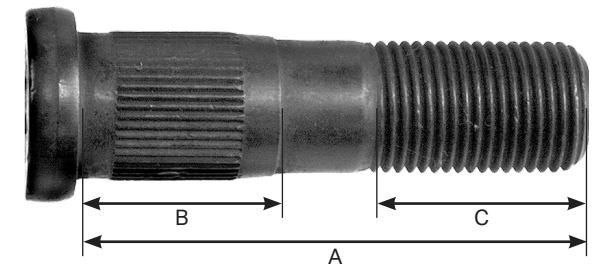
PICTURED: WA07-6205



REPLACEMENT GMC® 5/8"-18

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6205 RIGHT HAND STUD	EUCLID® E-5607 GMC® 3682387	2"	9/16"	11/16"
WA07-6206 RIGHT HAND STUD	EUCLID® E-5938 GMC® 3682389	2 13/16"	7/8"	11/16"
WA07-6209 RIGHT HAND STUD	EUCLID® E-5625 GMC® 3707585	2 27/32"	1"	11/16"
WA07-6123 RIGHT HAND STUD	EUCLID® E-5938 GMC® 3694508	2 15/16"	3/4"	11/16"
WA07-6207 RIGHT HAND STUD	EUCLID® E-5628 GMC® 3682153	3 3/64"	1 7/64"	11/16"
WA07-5160 RIGHT HAND STUD	EUCLID® E-10230 GMC® 3697043	3 3/16"	1"	11/16"

PICTURED: WA07-5161

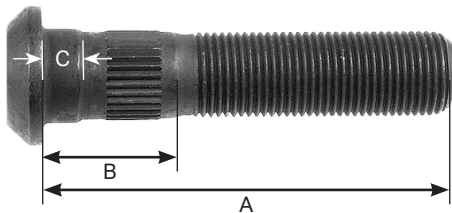


REPLACEMENT GMC® 11/16"-16, BODY DIAMETER: .728" - .732"

WORLD AMERICAN #	REPLACES	A	B	C	USE WA NUT
WA07-5161 RIGHT HAND STUD	BUDD® 82525 EUCLID® E-5682 GMC® 3763619	2 5/8"	1"	1 1/8"	WA07-6149
WA07-5162 RIGHT HAND STUD	BUDD® 82526 EUCLID® E-5683 GMC® 3765876	3 1/4"	1"	1 27/64"	WA07-6149
WA07-6231 RIGHT HAND STUD	BUDD® 83172 EUCLID® E-5816 GMC® 301112-1	3 1/4"	1 21/64"	1 3/8"	WA07-6149

HEADED WHEEL STUDS

PICTURED: WA07-6204



3/4"- 16 THREAD - SERRATED BODY
BODY DIAMETER .783-.786
SERRATED DIAMETER .810-.820
GRADE 8

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6204 RIGHT HAND	BUDD® 59364 EUCLID® E-4964R	2 1/8"	3/4"	1/4"
WA07-6318 LEFT HAND	BUDD® 59365 EUCLID® E-4964L	2 1/8"	3/4"	1/4"
WA07-5163 RIGHT HAND	BUDD® 59191 EUCLID® E-4965R WEBB® 159190	2 3/8"	1"	1/4"
WA07-5164 LEFT HAND	BUDD® 59192 EUCLID® E-4965L WEBB® 159191	2 3/8"	1"	1/4"
WA07-7209 RIGHT HAND	BUDD® DAYTON® 13-1121R WEBB®	2 15/32"	15/16"	5/16"
WA07-7420 LEFT HAND	BUDD® DAYTON® 13-1121L WEBB®	2 15/32"	15/16"	5/16"
WA07-6098 RIGHT HAND	EUCLID® E-10202R GUNITE® W1091R	2 1/2"	3/4"	1/4"
WA07-6311 LEFT HAND	EUCLID® E-10202L GUNITE® W1091L	2 1/2"	3/4"	1/4"
WA07-5096 RIGHT HAND	BUDD® 59263 EUCLID® E-4966R TRAILMOBILE® 50-33A-29	2 5/8"	1 1/4"	5/16"
WA07-5097 LEFT HAND	BUDD® 59264 EUCLID® E-4966L TRAILMOBILE® 50-33A-30	2 5/8"	1 1/4"	5/16"
WA07-6324 RIGHT HAND	EUCLID® E-8983R GUNITE® W1170R	2 11/16"	31/32"	1/4"

CONTINUED>

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7309 LEFT HAND	EUCLID® E-8983L GUNITE® W1170L	2 11/16"	31/32"	1/4"
WA07-6062 RIGHT HAND	CONMET® 102192 EUCLID® WEBB® 102192	2 25/32"	1 1/16"	1/8"
WA07-6063 LEFT HAND	CONMET® 102191 EUCLID® WEBB® 102191	2 25/32"	1 1/16"	1/8"
WA07-5098 RIGHT HAND	BUDD® 61968 EUCLID® E-4967R GM® 3723968 MERITOR® 20X1576	2 7/8"	1 1/2"	1/4"
WA07-5099 LEFT HAND	BUDD® 61969 EUCLID® E-4967L GM® 3723969 MERITOR® 20X1575	2 7/8"	1 1/2"	1/4"
WA07-6208 RIGHT HAND	EUCLID® E-9003R MERITOR® 20X1812	2 29/32"	1 1/16"	1/2"
WA07-6099 LEFT HAND	EUCLID® E-9003L MERITOR® 20X1811	2 29/32"	1 1/16"	1/2"
WA07-6064 RIGHT HAND	BUDD® 100145 EUCLID® E-8947R WEBB® 159184	2 31/32"	1 13/32"	1/2"
WA07-6065 LEFT HAND	BUDD® 100146 EUCLID® E-8947L WEBB® 159183	2 31/32"	1 13/32"	1/2"
WA07-6066 RIGHT HAND	GM® 15580830 GUNITE® W-981R EUCLID® E-8969R	2 15/16"	1 5/16"	1/4"
WA07-6067 LEFT HAND	GM® 15580833 GUNITE® W-981L EUCLID® E-8969L	2 15/16"	1 5/16"	1/4"
WA07-6100 RIGHT HAND	EUCLID® E-10206R GUNITE® W1064R	3"	1 21/32"	1/4"
WA07-6101 LEFT HAND	EUCLID® E-10206L GUNITE® W1064L	3"	1 21/32"	1/4"
WA07-6068 RIGHT HAND	EUCLID® E-8982R GUNITE® W-1166R	3 1/8"	1 11/32"	1/4"

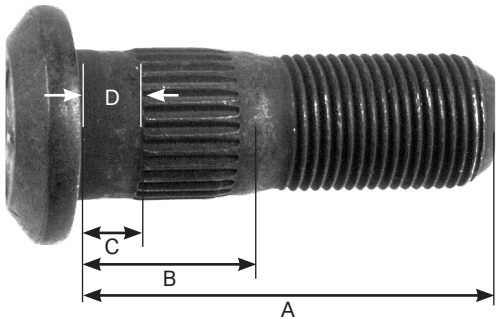
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HEADED WHEEL STUDS

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6069 LEFT HAND	EUCLID® E-8982L GUNITE® W-1166L	3 1/8"	1 11/32"	1/4"
WA07-5502 RIGHT HAND	CONMET® 102278 EUCLID® E-10209R WEBB® 102278	3 5/32"	1 7/16"	1/8"
WA07-5503 LEFT HAND	CONMET® 102277 EUCLID® E-10209L WEBB® 102277	3 5/32"	1 7/16"	1/8"
WA07-6070 RIGHT HAND	EUCLID® E-8968R GUNITE® W-980R	3 3/16"	1 13/32"	1/4"
WA07-6071 LEFT HAND	EUCLID® E-8968L GUNITE® W-980L	3 3/16"	1 13/32"	1/4"
WA07-5165 RIGHT HAND	EUCLID® E-8979R GUNITE® W-992R GUNITE® W-1133R	3 11/32"	1 9/32"	1/4"
WA07-5166 LEFT HAND	EUCLID® E-8979L GUNITE® W-992L GUNITE® W-1133L	3 11/32"	1 9/32"	1/4"
WA07-6072 RIGHT HAND	EUCLID® E-9008R WEBB® 100164	3 3/8"	1 13/32"	1/2"
WA07-6073 LEFT HAND	EUCLID® E-9008L WEBB® 100163	3 3/8"	1 13/32"	1/2"
WA07-5167 RIGHT HAND	CONMET® 102280 EUCLID® E-10208R WEBB® 102280	3 13/32"	1 7/16"	1/8"
WA07-5353 LEFT HAND	CONMET® 102279 EUCLID® E-10208L WEBB® 102279	3 13/32"	1 7/16"	1/8"
WA07-5504 RIGHT HAND	CONMET® 102282 EUCLID® E-10210R WEBB® 102282	3 25/32"	1 7/16"	1/8"
WA07-5505 LEFT HAND	CONMET® 102281 EUCLID® E-10210L WEBB® 102281	3 25/32"	1 7/16"	1/8"

PICTURED: WA07-6154



3/4"-16 THREAD - SERRATED BODY
WITH RAISED SHOULDER
BODY DIAMETER .783-.786
SERRATED DIAMETER .810-.820
RAISED SHOULDER DIAMETER .798-.808
GRADE 8

HEADED DISC WHEEL STUDS (Serrated Body with Raised Shoulder)

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6154 RIGHT HAND	BWP® M-1206 BUDD® 90554 DAYTON® 13-1111R EUCLID® E-5764R	2 3/8"	1"	3/8"	3/16"
WA07-6155 LEFT HAND	BWP® M-1207 BUDD® 90554 DAYTON® 13-1111L EUCLID® E-5764L	2 3/8"	1"	3/8"	3/16"
WA07-6156 RIGHT HAND	BWP® M-1208 BUDD® 90513 DAYTON® 13-1112R EUCLID® E-5870R	2 5/8"	1 1/4"	7/16"	3/16"
WA07-6157 LEFT HAND	BWP® M-1209 BUDD® 90514 DAYTON® 13-1112L EUCLID® E-5870L	2 5/8"	1 1/4"	7/16"	3/16"
WA07-6219 RIGHT HAND	BWP® M-1151 BUDD® 85108 DAYTON® 13-1150 EUCLID® E-5775 FORD® C3T2-1118A	2 3/4"	1 3/8"	1/2"	1/4"
WA07-5100 RIGHT HAND	BWP® M-80 BUDD® 49851 DAYTON® 13-1104R EUCLID® E-4968R MERITOR® 20X996 WEBB® 198510	2 7/8"	1 1/2"	1/2"	5/16"
WA07-5101 LEFT HAND	BWP® M-81 BUDD® 49852 DAYTON® 13-1104L EUCLID® E-4968L MERITOR® 20X997 WEBB® 198511	2 7/8"	1 1/2"	1/2"	5/16"
WA07-7207 RIGHT HAND	BWP® M-1284 BUDD® 85141 DAYTON® 13-1152 EUCLID® E-5776 FORD® CTZ-1119A	3"	1 9/16"	1/2"	5/16"

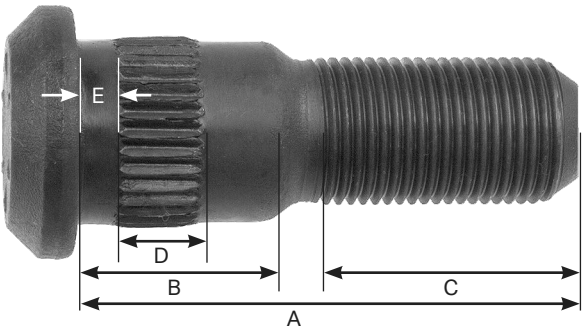
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HEADED WHEEL STUDS

HEADED DISC WHEEL STUDS (Serrated Body with Raised Shoulder)

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-5102 RIGHT HAND	BWP® M-82 BUDD® 59183 DAYTON® 13-1105R EUCLID® E-4969R FRUEHAUF® 582886	3 1/8"	1 3/4"	9/16"	5/16"
WA07-5103 LEFT HAND	BWP® M-83 BUDD® 59184 DAYTON® 13-1105L EUCLID® E-4969L FRUEHAUF® 582887	3 1/8"	1 3/4"	9/16"	5/16"
WA07-6220 RIGHT HAND	BWP® M-1152 BUDD® 85106 DAYTON® 13-1151 EUCLID® E-5703 FORD® CTZ-1119A	3 3/8"	1 13/16"	1/2"	5/16"
WA07-5169 RIGHT HAND	BWP® M-1120 BUDD® 84097 DAYTON® 13-1108R EUCLID® E-5765R	3 3/8"	2"	3/8"	3/16"
WA07-5355 LEFT HAND	BWP® M-1121 BUDD® 84097 DAYTON® 13-1108L EUCLID® E-5765L	3 3/8"	2"	3/8"	3/16"
WA07-6140 RIGHT HAND	BWP® M-1110 BUDD® 59066 DAYTON® 13-1113R EUCLID® E-5756R	3 3/8"	2"	9/16"	5/16"
WA07-6141 LEFT HAND	BWP® M-1111 BUDD® 59067 DAYTON® 13-1113L EUCLID® E-5756L	3 3/8"	2"	9/16"	5/16"
WA07-6142 RIGHT HAND	BWP® M-1112 BUDD® 59375 DAYTON® 13-1106R EUCLID® E-5757R	3 5/8"	2 1/4"	9/16"	5/16"
WA07-6143 LEFT HAND	BWP® M-1113 BUDD® 59376 DAYTON® 13-1106L EUCLID® E-5757L	3 5/8"	2 1/4"	9/16"	5/16"
WA07-6152 RIGHT HAND	BWP® M-1176 BUDD® 59373 DAYTON® 13-1110R EUCLID® E-5766R	3 7/8"	2 1/2"	9/16"	5/16"
WA07-6153 LEFT HAND	BWP® M-1177 BUDD® 59373 DAYTON® 13-1110L EUCLID® E-5766L	3 7/8"	2 1/2"	9/16"	5/16"
WA07-6158 RIGHT HAND	BWP® M-1210 BUDD® 59371 DAYTON® 13-1114R EUCLID® E-5869R	4 1/8"	2 3/4"	9/16"	5/16"
WA07-6302 LEFT HAND	BWP® M-1211 BUDD® 59372 DAYTON® 13-1114L EUCLID® E-5869L	4 1/8"	2 3/4"	9/16"	5/16"

PICTURED: WA07-5171

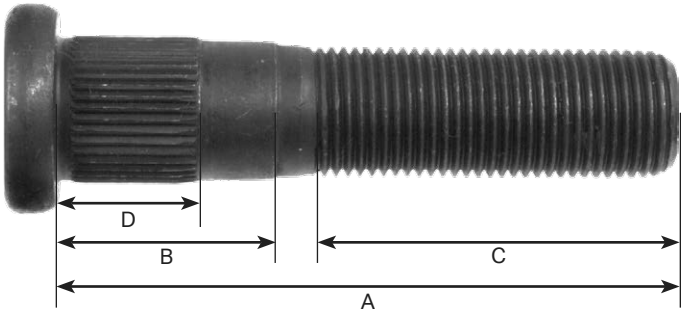


3/4"-16 THREAD - SERRATED BODY
BODY DIAMETER .900-.906
SERRATED DIAMETER .935-.942
GRADE 8

REPLACEMENT BUDD® UNIMOUNT WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D	E
WA07-5171 RIGHT HAND STUD	BUDD® 106201 EUCLID® E-8949R	2 19/32"	1"	1 1/4"	13/32"	3/16"
WA07-5172 LEFT HAND STUD	BUDD® 106202 EUCLID® E-8949L	2 19/32"	1"	1 1/4"	13/32"	3/16"

PICTURED: WA07-6102



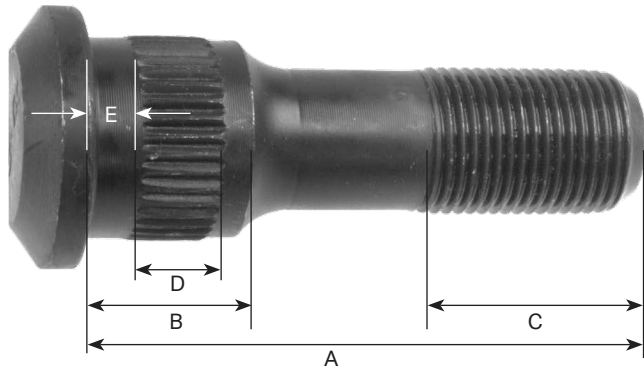
11/16"-16 THREAD - SERRATED BODY
BODY DIAMETER .747-.749
SERRATED DIAMETER .761-.767

REPLACEMENT BUDD® UNIMOUNT WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6102 RIGHT HAND STUD	GMC® 3874369 EUCLID® E-8962	3 1/4"	1 1/8"	1 27/32"	5/8"
WA07-6315 LEFT HAND STUD	GMC® 704173 EUCLID® E-8961	3 5/8"	1 5/16"	1 31/32"	1/2"

HEADED WHEEL STUDS

PICTURED: WA07-6121

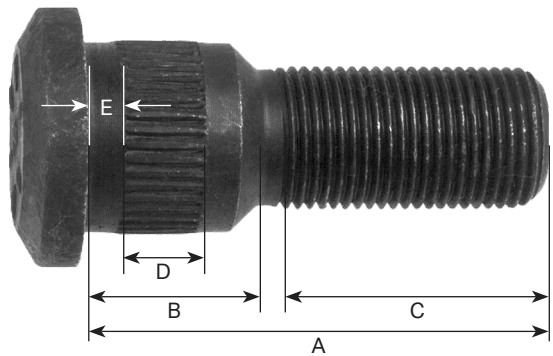


3/4"-16 THREAD - SERRATED BODY
BODY DIAMETER .971-.975
SERRATED DIAMETER .998-.1006
GRADE 8

REPLACEMENT BUDD® UNIMOUNT WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D	E
WA07-6121 RIGHT HAND STUD	EUCLID® E-9010R WEBB® 101172	2 7/8"	13/16"	1 1/8"	3/8"	1/4"
WA07-6193 LEFT HAND STUD	EUCLID® E-9010L WEBB® 101173	2 7/8"	13/16"	1 1/8"	3/8"	1/4"
WA07-6194 RIGHT HAND STUD	EUCLID® E-8984R GUNITE® W-1199R	3 3/8"	1 3/8"	1 13/16"	1/2"	1/4"
WA07-6195 LEFT HAND STUD	EUCLID® E-8984L GUNITE® W-1199L	3 3/8"	1 3/8"	1 13/16"	1/2"	1/4"
WA07-6196 RIGHT HAND STUD	EUCLID® MERITOR® 20X348	3 5/8"	13/16"	1 1/8"	7/16"	1/8"
WA07-6307 LEFT HAND STUD	EUCLID® MERITOR® 20X349	3 5/8"	13/16"	1 1/8"	7/16"	1/8"
WA07-6198 RIGHT HAND STUD	EUCLID® E-8971R GUNITE® W985R	3 7/16"	1 15/16"	1 5/16"	3/4"	1"
WA07-6308 LEFT HAND STUD	EUCLID® E-8971L GUNITE® W-985L	3 7/16"	1 15/16"	1 5/16"	3/4"	1"

PICTURED: WA07-6032



3/4"-16 THREAD - SERRATED BODY
BODY DIAMETER .973-.977
SERRATED DIAMETER .998-.1006
GRADE 8

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C	D	E
WA07-6032 RIGHT HAND	BUDD® 63625-2 EUCLID® E-5718R MERITOR® 20X208	2 3/8"	13/16"	1 5/32"	7/16"	1/8"
WA07-6033 LEFT HAND	BUDD® 63626-2 EUCLID® E-5718L MERITOR® 20X209	2 3/8"	13/16"	1 5/32"	7/16"	1/8"
WA07-6034 RIGHT HAND	BUDD® 63625-3 EUCLID® E-5719R MERITOR® 20X210	2 9/16"	13/16"	1 5/32"	5/8"	1/8"
WA07-6035 LEFT HAND	BUDD® 63626-3 EUCLID® E-5719L MERITOR® 20X211	2 9/16"	13/16"	1 5/32"	5/8"	1/8"
WA07-6120 RIGHT HAND	BUDD® 63625-1 EUCLID® E-5720R MERITOR® 20X206	2 23/32"	13/16"	1 5/32"	7/16"	1/8"
WA07-6037 LEFT HAND	BUDD® 63626-1 EUCLID® E-5720L MERITOR® 20X207	2 23/32"	13/16"	1 5/32"	7/16"	1/8"
WA07-6170 RIGHT HAND	EUCLID® E-5911R MERITOR® 20X402	2 9/16"	15/16"	1 1/4"	7/16"	9/32"
WA07-6171 LEFT HAND	EUCLID® E-5911L MERITOR® 20X403	2 9/16"	15/16"	1 1/4"	7/16"	9/32"

CONTINUED>

HEADED WHEEL STUDS

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C	D	E
WA07-6172 RIGHT HAND	EUCLID® E-5900R MERITOR® 20X831	2 11/16"	13/16"	1 7/16"	7/16"	1/8"
WA07-6173 LEFT HAND	EUCLID® E-5900L MERITOR® 20X832	2 11/16"	13/16"	1 7/16"	7/16"	1/8"
WA07-6138 RIGHT HAND	BUDD® 82578 EUCLID® E-5721R MERITOR® 20X404	2 13/16"	1 3/16"	1 3/16"	1/2"	3/8"
WA07-6139 LEFT HAND	BUDD® 82579 EUCLID® E-5721L MERITOR® 20X405	2 13/16"	1 3/16"	1 3/16"	1/2"	3/8"
WA07-6232 RIGHT HAND	EUCLID® E-5987R NW® 86797 NAVISTAR® 472008C	2 15/16"	1 1/4"	1 1/4"	1"	1/16"
WA07-6233 LEFT HAND	EUCLID® E-5987L NW® 86798 NAVISTAR® 472007C1	2 15/16"	1 1/4"	1 1/4"	1"	1/16"
WA07-5173 RIGHT HAND	EUCLID® E-5910R MERITOR® 20X344	3 1/16"	13/16"	1 1/2"	7/16"	1/8"
WA07-5141 LEFT HAND	EUCLID® E-5910L MERITOR® 20X345	3 1/16"	13/16"	1 1/2"	7/16"	1/8"
WA07-5175 RIGHT HAND	EUCLID® E-5871R MERITOR® 20X481	3 3/32"	1 3/8"	1 1/4"	1 1/8"	3/16"
WA07-5176 LEFT HAND	EUCLID® E-5871L MERITOR® 20X482	3 3/32"	1 3/8"	1 1/4"	1 1/8"	3/16"
WA07-6106 RIGHT HAND	EUCLID® E-9524R WEBB® 101174	3 3/16"	25/32"	1 19/32"	1/2"	3/8"
WA07-6313 LEFT HAND	EUCLID® E-9524L WEBB® 101175	3 3/16"	25/32"	1 19/32"	1/2"	3/8"

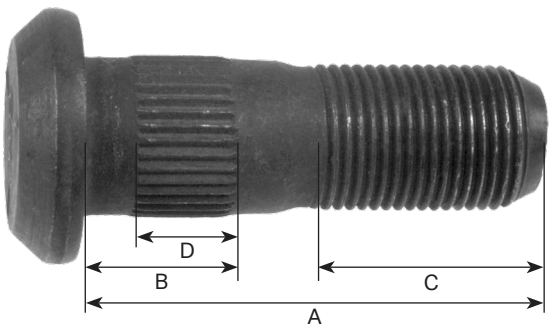
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HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C	D	E
WA07-6074 RIGHT HAND	EUCLID® E-6057R MW® 90801	3 3/16"	1 3/16"	1 5/32"	1"	1/16"
WA07-6075 LEFT HAND	EUCLID® E-6057L MW® 90801	3 3/16"	1 3/16"	1 5/32"	1"	1/16"
WA07-5104 RIGHT HAND	EUCLID® E-5896R KENWORTH® 233-2871R PETERBILT® 03-02207	3 5/16"	1 7/16"	1 3/32"	1"	5/16"
WA07-5105 LEFT HAND	EUCLID® E-5896L KENWORTH® 233-2871L PETERBILT® 03-02208	3 5/16"	1 7/16"	1 3/32"	1"	5/16"
WA07-6108 RIGHT HAND	EUCLID® E-9525R WEBB® 101178	3 11/32"	25/32"	1 27/32"	1/2"	3/8'
WA07-6314 LEFT HAND	EUCLID® E-9525L WEBB® 101178	3 11/32"	25/32"	1 27/32"	1/2"	3/8"
WA07-6234 RIGHT HAND	EUCLID® E-5909R MERITOR® 20X852	3 11/32"	1 27/32"	1 1/4"	1/2"	3/8"
WA07-6235 LEFT HAND	EUCLID® E-5909L MERITOR® 20X1853	3 11/32"	1 27/32"	1 1/4"	1/2"	3/8"
WA07-7210 RIGHT HAND	EUCLID® E-5803R MERITOR® 20X1284	3 21/32"	2 7/32"	1 1/16"	1"	13/32"
WA07-7211 LEFT HAND	EUCLID® E-5803L MERITOR® 20X1285	3 21/32"	2 7/32"	1 1/16"	1"	13/32"
WA07-5177 RIGHT HAND	EUCLID® E-5983R KENWORTH® 12452-001R PETERBILT® 03-02852	3 3/4"	1 3/8"	1 7/8"	1 1/16"	3/16"
WA07-5178 LEFT HAND	EUCLID® E-5983L KENWORTH® 122452-001L PETERBILT® 03-02853	3 3/4"	1 3/8"	1 7/8"	1 1/16"	3/16"

HEADED WHEEL STUDS

PICTURED: WA07-7411

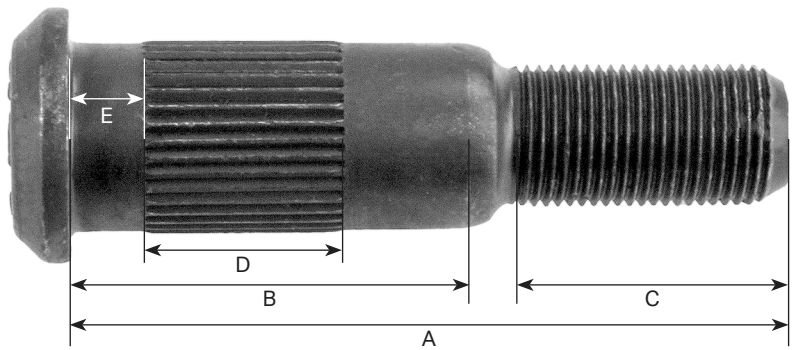


3/4"-16 THREAD - SERRATED BODY
BODY DIAMETER .772-.784

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7411 RIGHT HAND	EUCLID® E-9011R WEBB® 159190	2 3/8"	7/8"	1 1/16"	1/2"
WA07-6326 LEFT HAND	EUCLID® E-9011L WEBB® 159191	2 3/8"	7/8"	1 1/16"	1/2"
WA07-7311 RIGHT HAND	EUCLID® E-8958R	2 7/8"	1 1/2"	1 3/16"	1/2"
WA07-6327 LEFT HAND	EUCLID® E-8958L	2 7/8"	1 1/2"	1 3/16"	1/2"
WA07-7312 RIGHT HAND	EUCLID® E-8955R	3 3/8"	1 9/32"	1 15/16"	1/2"
WA07-6328 LEFT HAND	EUCLID® E-8955L	3 3/8"	1 9/32"	1 15/16"	1/2"
WA07-6312 RIGHT HAND	EUCLID® E-8957R	3 1/2"	1 25/32"	1 9/32"	1/2"
WA07-5304 LEFT HAND	EUCLID® E-8957L	3 1/2"	1 25/32"	1 9/32"	1/2"
WA07-7294 RIGHT HAND	EUCLID® E-8977R GUNITE® W1061R	3 7/8"	2 1/16"	1 11/16"	1/2"
WA07-6329 LEFT HAND	EUCLID® E-8977L GUNITE® W1061L	3 7/8"	2 1/16"	1 11/16"	1/2"

PICTURED: WA07-7252



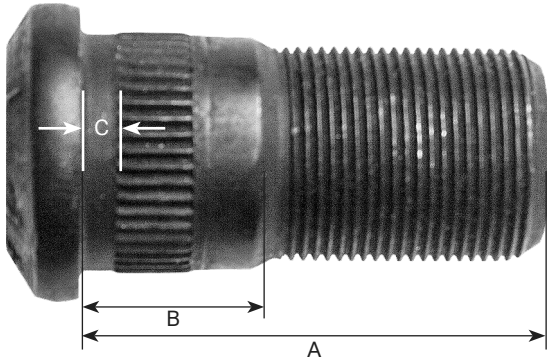
3/4"-16 THREAD - SERRATED BODY
BODY DIAMETER .973-.977
SERRATED BODY DIAMETER .988-1.006
GRADE 8

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C	D	E
WA07-7252 RIGHT HAND	EUCLID® E-8999R MERITOR® 20X780	3 3/4"	2"	---	1"	7/16"
WA07-7253 LEFT HAND	EUCLID® E-8999L MERITOR® 20X780	3 3/4"	2"	---	1"	7/16"
WA07-7187 RIGHT HAND	EUCLID® E-5803R MERITOR® 20X488	3 25/32"	2 7/32"	1 1/16"	1"	5/16"
WA07-7188 LEFT HAND	EUCLID® E-5803L MERITOR® 20X488	3 25/32"	2 7/32"	1 1/16"	1"	5/16"
WA07-7212 RIGHT HAND	EUCLID® E-5907R MERITOR® 20X1282	3 7/8"	2 7/16"	1 1/16"	1 1/16"	5/8"
WA07-7213 LEFT HAND	EUCLID® E-5907L MERITOR® 20X1283	3 7/8"	2 7/16"	1 1/16"	1 1/16"	5/8"
WA07-7167 RIGHT HAND	BUDD® 83851 EUCLID® E-5722R	4"	2 7/16"	1 3/16"	1"	5/8"
WA07-7168 LEFT HAND	BUDD® 83852 EUCLID® E-5722L	4"	2 7/16"	1 3/16"	1"	5/8"
WA07-6330 RIGHT HAND	EUCLID® MERITOR® 20X408	4 3/16"	2 11/16"	1 1/4"	1/2"	3/8"
WA07-6331 LEFT HAND	EUCLID® MERITOR® 20X409	4 3/16"	2 11/16"	1 1/4"	1/2"	3/8"

HEADED WHEEL STUDS

PICTURED: WA07-7170



1 1/8"-16 THREAD - SERRATED BODY
BODY DIAMETER 1.218-1.222
SERRATED BODY DIAMETER 1.244-1.252
GRADE 8

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7170 RIGHT HAND	BUDD® 82573 EUCLID® E-5748R MERITOR® 20X370	2 13/32"	7/8"	3/16"
WA07-7171 LEFT HAND	BUDD® 82574 EUCLID® E-5748L MERITOR® 20X369	2 13/32"	7/8"	3/16"
WA07-6332 RIGHT HAND	BUDD® 83814 EUCLID® E-5690R MERITOR® 20X368	2 19/32"	7/8"	3/16"
WA07-7395 LEFT HAND	BUDD® 83815 EUCLID® E-5690L	2 19/32"	7/8"	3/16"
WA07-6144 RIGHT HAND	BUDD® 82575 EUCLID® E-5749R MERITOR® 20X372	2 13/16"	7/8"	3/16"
WA07-6145 LEFT HAND	BUDD® 82576 EUCLID® E-5749L MERITOR® 20X371	2 13/16"	7/8"	3/16"
WA07-6334 RIGHT HAND	EUCLID® MERITOR® 20X676	2 27/32"	1 5/16"	9/16"
WA07-7262 LEFT HAND	EUCLID® MERITOR® 20X675	2 27/32"	1 5/16"	9/16"
WA07-6335 RIGHT HAND	EUCLID® E-10224R MERITOR® 20X582	2 29/32"	1 3/8"	1/4"
WA07-7263 LEFT HAND	EUCLID® E-10224L MERITOR® 20X583	2 29/32"	1 3/8"	1/4"

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HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6076 RIGHT HAND	EUCLID® E-5986R MW® 88108 WEBB® 188108	2 31/32"	3/4"	1/8"
WA07-6309 LEFT HAND	EUCLID® E-5986L MW® 88109 WEBB® 188109	2 31/32"	3/4"	1/8"
WA07-7172 RIGHT HAND	BUDD® 83853 EUCLID® E-5750R MERITOR® 20X584	3"	1 3/8"	1/4"
WA07-7173 LEFT HAND	BUDD® 83854 EUCLID® 13-5750L MERITOR® 20X585	3"	1 3/8"	1/4"
WA07-7196 RIGHT HAND	EUCLID® E-5898R GUNITE® W-1148R MERITOR® 20X588	3 3/16"	1 3/8"	1/4"
WA07-7197 LEFT HAND	EUCLID® E-5898L GUNITE® W-1148L MERITOR® 20X589	3 3/16"	1 3/8"	1/4"
WA07-3236 RIGHT HAND	EUCLID® E-8996R MW® 88291	3 1/4"	3/4"	1/8"
WA07-6237 LEFT HAND	EUCLID® E-8996L MW® 88292	3 1/4"	3/4"	1/8"
WA07-6238 RIGHT HAND	EUCLID® E-9001R MERITOR® 20X1356	3 15/32"	7/8"	1/8"
WA07-6239 LEFT HAND	EUCLID® E-9001L MERITOR® 20X1357	3 15/32"	7/8"	1/8"
WA07-5179 RIGHT HAND	EUCLID® E-8972R GUNITE® W-988R GUNITE® W-1118R NAVISTAR® 593096C1	3 1/2"	1 3/16"	1/4"
WA07-5180 LEFT HAND	EUCLID® E-8972L GUNITE® W-988L GUNITE® W-1118L NAVISTAR® 593097C1	3 1/2"	1 3/16"	1/4"
WA07-6240 RIGHT HAND	EUCLID® E-8995R MW® 87142	3 1/2"	1 1/2"	5/16"
WA07-6241 LEFT HAND	EUCLID® E-8995L MW® 87143	3 1/2"	1 1/2"	5/16"

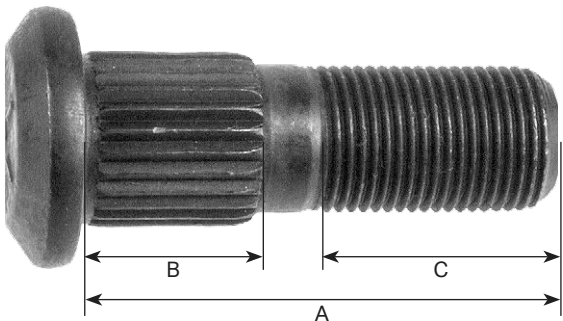
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HEADED WHEEL STUDS

HEADED DISC WHEEL STUDS (Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6110 RIGHT HAND	EUCLID® E-8985R GUNITE® W1203R	3 13/16"	1 3/16"	3/16"
WA07-6111 LEFT HAND	EUCLID® E-8985L GUNITE® W1203L	3 13/16"	1 3/16"	3/16"
WA07-7305 RIGHT HAND	EUCLID® E-6033R WEBB® 100170	3 5/8"	1 3/4"	3/16"
WA07-7306 LEFT HAND	EUCLID® E-6033L WEBB® 100181	3 5/8"	1 3/4"	3/16"
WA07-5104 RIGHT HAND	BUDD® 85381 BUDD® 99616 EUCLID® E-5868R PETERBILT® 02-00573 WEBB® 133610	3 5/8"	1 13/16"	9/16"
WA07-6169 LEFT HAND	BUDD® 85382 BUDD® 99617 EUCLID® E-5868L PETERBILT® 02-00572 WEBB® 133609	3 5/8"	1 13/16"	9/16"
WA07-5106 RIGHT HAND	EUCLID® E-5982R KENWORTH® 233B359R PETERBILT® 02-00772	3 3/4"	1 7/32"	1/8"
WA07-5107 LEFT HAND	EUCLID® E-5982L KENWORTH® 233B359L PETERBILT® 02-00771	3 3/4"	1 7/32"	1/8"
WA07-6242 RIGHT HAND	EUCLID® E-10249R MERITOR® 20X1476	3 3/4"	1 3/8"	5/8"
WA07-6243 LEFT HAND	EUCLID® E-10249L MERITOR® 20X1475	3 3/4"	1 3/8"	5/8"
WA07-6244 RIGHT HAND	EUCLID® E-5985R MERITOR® 20X586	3 25/32"	1 3/8"	7/32"
WA07-6245 LEFT HAND	EUCLID® E-5985L MERITOR® 20X587	3 25/32"	1 3/8"	7/32"

PICTURED: WA7-6211



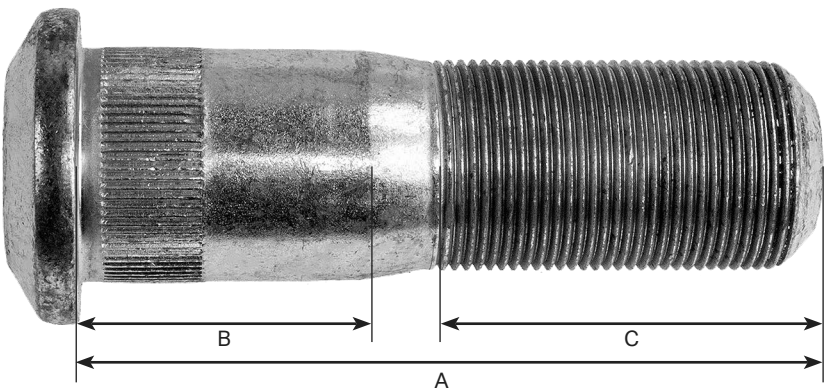
3/4"-16 THREAD - FULLY SERRATED BODY
BODY DIAMETER .742-.749
SERRATED BODY .875

HEADED DISC WHEEL STUDS (Fully Serrated Body)

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6211 RIGHT HAND STUD	EUCLID® E-8994R MOTORWHEEL® 82017	2 15/32"	29/32"	1 5/32"
WA07-6212 LEFT HAND STUD	EUCLID® E-8994L MOTORWHEEL® 82018	2 15/32"	29/32"	1 5/32"
WA07-6213 RIGHT HAND STUD	EUCLID® MOTORWHEEL® 84155	2 5/8"	29/32"	1 5/32"
WA07-6305 LEFT HAND STUD	EUCLID® MOTORWHEEL® 84156	2 5/8"	29/32"	1 5/32"
WA07-6215 RIGHT HAND STUD	EUCLID® MOTORWHEEL® 84986	2 13/16"	29/32"	1 5/32"
WA07-6214 LEFT HAND STUD	EUCLID® MOTORWHEEL® 84987	2 13/16"	29/32"	1 5/32"
WA07-7222 RIGHT HAND STUD	EUCLID® E-8992R MOTORWHEEL® 82095	2 31/32"	15/16"	1 5/32"
WA07-7223 LEFT HAND STUD	EUCLID® E-8992L MOTORWHEEL® 82096	2 31/32"	15/16"	1 5/32"
WA07-7221 RIGHT HAND STUD	EUCLID® MOTORWHEEL® 84935	3 1/8"	1 1/8"	1 3/4"
WA07-7224 LEFT HAND STUD	EUCLID® E-8993R MOTORWHEEL® 82842	3 1/4"	1 1/8"	1 5/32"
WA07-7225 RIGHT HAND STUD	EUCLID® E-8993L MOTORWHEEL® 82843	3 1/4"	1 1/8"	1 5/32"
WA07-7220 LEFT HAND STUD	EUCLID® MOTORWHEEL® 8003	3 1/2"	1 1/32"	1 1/2"
WA07-7219 RIGHT HAND STUD	EUCLID® MOTORWHEEL® 7778	3 9/16"	27/32"	1 1/2"

HEADED WHEEL STUDS

PICTURED: WA07-7307

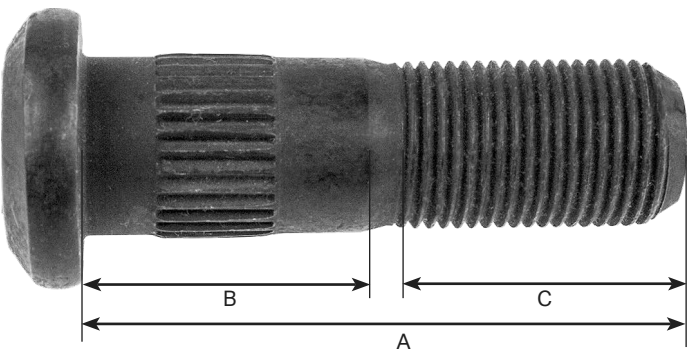


1 1/8"-16 THREAD
BODY DIAMETER 1.220

FRONT WHEEL STUDS FOR ALUMINUM DISC WHEELS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7307 RIGHT HAND STUD	CONMET® 101874 EUCLID® E-10225R	3 7/8"	1 17/32"	1 29/32"
WA07-7308 LEFT HAND STUD	CONMET® 101873 EUCLID® E-10225L	3 7/8"	1 17/32"	1 29/32"

PICTURED: WA07-7404

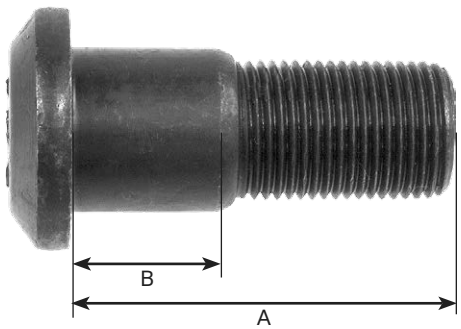


3/4"-16 THREAD
BODY DIAMETER: .910

CLIPPED HEAD WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7404 RIGHT HAND STUD	CONMET® 101774 EUCLID® E-8952R	3 5/32"	1 3/16"	1 1/4"
WA07-7392 LEFT HAND STUD	CONMET® 101773 EUCLID® E-8952L	3 5/32"	1 3/16"	1 1/4"

PICTURED: WA07-5182



3/4"16 THREAD
BODY DIAMETER .875-.879

REPLACEMENT BUDD® WHEEL STUDS

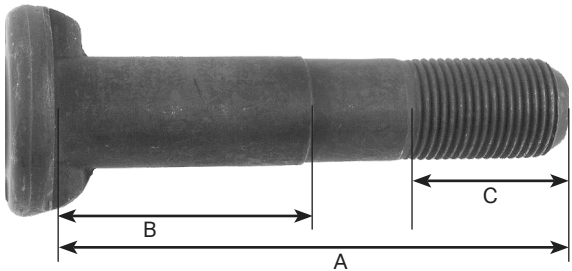
WORLD AMERICAN #	REPLACES	A	B
WA07-5182 RIGHT HAND STUD	BUDD® 35786 EUCLID® E-5587R	2"	3/4"
WA07-5181 LEFT HAND STUD	BUDD® 35787 EUCLID® E-5587L	2"	3/4"
WA07-5183 RIGHT HAND STUD	BUDD® 40336 EUCLID® E-4988R	2 1/4"	1 3/64"
WA07-5184 LEFT HAND STUD	BUDD® 40337 EUCLID® E-4988L	2 1/4"	1 3/64"
WA07-5370 RIGHT HAND STUD	BUDD® 40338 EUCLID® E-5588R	2 3/8"	1 3/16"
WA07-5371 LEFT HAND STUD	BUDD® 40339 EUCLID® E-5588L	2 3/8"	1 3/16"
WA07-5187 RIGHT HAND STUD	BUDD® 59536 EUCLID® E-5618R	2 39/64"	1 9/32"
WA07-5188 LEFT HAND STUD	BUDD® 59537 EUCLID® E-5618L	2 39/64"	1 9/32"

USE THE FOLLOWING WA NUTS FOR THE ABOVE STUDS

	Right Hand	Left Hand
SINGLE WHEEL	WA07-5020	WA07-5021
DUAL WHEEL INNER NUTS	WA07-5024	WA07-5025
DUAL WHEEL OUTER NUTS	WA07-5022	WA07-5023

HEADED WHEEL STUDS

PICTURED: WA07-7295

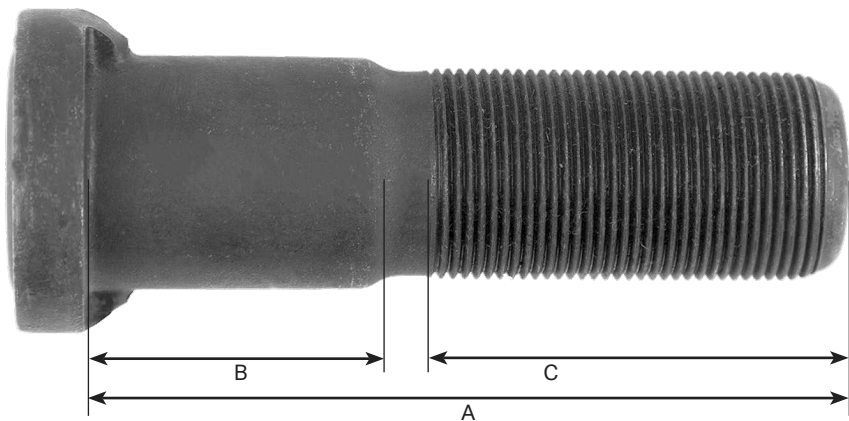


3/4"-16 THREAD
BODY DIAMETER .786-.789
UNDERHEAD DIAMETER .790-.795
GRADE 8

REPLACEMENT MERITOR® STUDS FOR ALUMINUM HUBS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7295 RIGHT HAND STUD	EUCLID® E-9005R MERITOR® 20X2089	2 5/8"	15/16"	1 9/32"
WA07-6341 LEFT HAND STUD	EUCLID® E-9005L MERITOR® 20X2088	2 5/8"	15/16"	1 9/32"
WA07-6078 RIGHT HAND STUD	EUCLID® E-9004R MERITOR® 20X1980	3 1/8"	1 13/32"	1 3/8"
WA07-6310 LEFT HAND STUD	EUCLID® E-9004L MERITOR® 20X1979	3 1/8"	1 13/32"	1 3/8"
WA07-6166 RIGHT HAND STUD	EUCLID® E-5924R MERITOR® 20X1335 MERITOR® 20X1464	3 3/8"	1 13/32"	1 3/32"
WA07-6167 LEFT HAND STUD	EUCLID® E-5924L MERITOR® 20X1334 MERITOR® 20X1463	3 3/8"	1 13/32"	1 3/32"
WA07-7245 RIGHT HAND STUD	EUCLID® E-5916R MERITOR® 20X1312 MERITOR® 20X1460	3 17/32"	1 3/4"	1 3/32"
WA07-7246 LEFT HAND STUD	EUCLID® E-5916L MERITOR® 20X1311 MERITOR® 20X1459	3 17/32"	1 3/4"	1 3/32"
WA07-7296 RIGHT HAND STUD	EUCLID® E-9002R MERITOR® 20X1472	3 3/4"	1 7/16"	1 11/16"
WA07-7297 LEFT HAND STUD	EUCLID® E-9002L MERITOR® 20X1471	3 3/4"	1 7/16"	1 11/16"
WA07-7247 RIGHT HAND STUD	EUCLID® E-5923R MERITOR® 20X1310 MERITOR® 20X1458	3 3/4"	1 13/16"	1 3/32"
WA07-7248 LEFT HAND STUD	EUCLID® E-5923L MERITOR® 20X1309 MERITOR® 20X1457	3 3/4"	1 13/16"	1 3/32"

PICTURED: WA07-7249

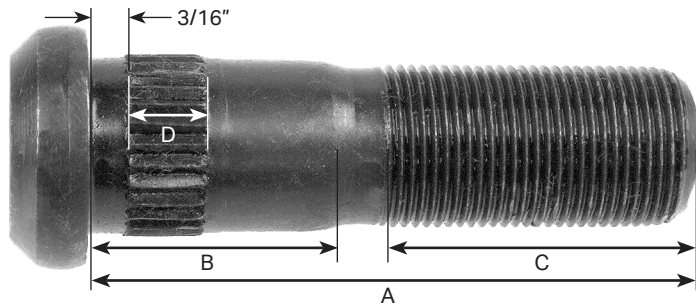


1 1/8"-16 THREAD
BODY DIAMETER 1.226-1.229
UNDERHEAD DIAMETER 1.231-1.234
GRADE 8

WEDGE HEAD WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7249 RIGHT HAND STUD	EUCLID® E-5984R MERITOR® 20X1380	4"	1 7/16"	2 1/4"
WA07-7250 LEFT HAND STUD	EUCLID® E-5984L MERITOR® 20X1381	4"	1 7/16"	2 1/4"

PICTURED: WA07-6188



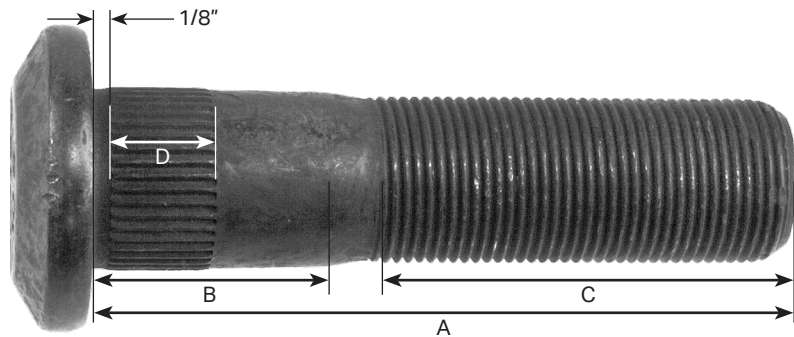
METRIC M22X1.5 THREAD
HEADED STUD - SERRATED BODY
BODY DIAMETER .900-.903
SERRATED DIAMETER .935-.944
GRADE 10.9
USES WA METRIC NUT WA07-5035

REPLACEMENT BUDD® UNIMOUNT SYSTEM

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6188	BUDD® 106377 EUCLID® E-5998	3 5/32"	1 7/32"	1 5/8"	13/32"
WA07-5200	BUDD® 106216 EUCLID® E-5997	3 21/32"	1 7/32"	2 1/8"	13/32"
WA07-5201	BUDD® 106397 EUCLID® E-5999	4 29/64"	1 7/32"	2 29/32"	13/32"

HEADED WHEEL STUDS

PICTURED: WA07-6114

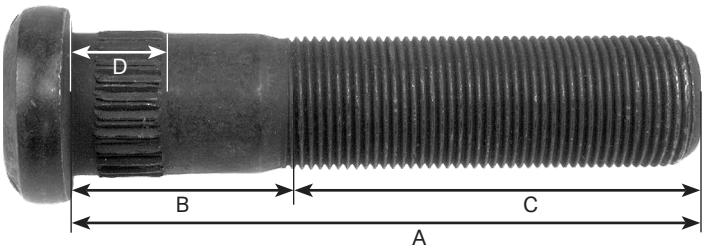


METRIC M22X1.5 THREAD
HEADED STUD
SERRATED BODY
BODY DIAMETER .908-.912
SERRATED DIAMETER .929-.937
GRADE 10.9

REPLACEMENT CON-MET® ALUMINUM HUB

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6114	CON-MET® 103193 EUCLID® E-10222	3 21/32"	1 7/32"	2 3/32"	1/2"
WA07-7405	CON-MET® 102033 EUCLID® E-10218	3 31/32"	1 9/16"	2 1/16"	1/2"
WA07-5506	CON-MET® 102188 EUCLID® E-10215	4 3/32"	1 1/16"	2 11/32"	1/2"
WA07-7406	CON-MET® 103431 EUCLID® E-10223	4 5/32"	1 9/16"	2 1/4"	1/2"
WA07-6083	CON-MET® 102290 EUCLID® E-10219	4 1/2"	1 9/16"	2 19/32"	1/2"
WA07-5507	CON-MET® 102189 EUCLID® E-10216	4 9/16"	1 1/16"	2 13/16"	1/2"
WA07-5508	CON-MET® 102190 EUCLID® E-10217	4 15/16"	1 1/16"	3 3/16"	1/2"
WA07-5509	CON-MET® 102291 EUCLID® E-10221	5"	1 9/16"	3 3/32"	1/2"
WA07-5202	CON-MET® 102292 EUCLID® E-1022	5 5/16"	1 9/16"	3 13/32"	1/2"

PICTURED: WA07-7290

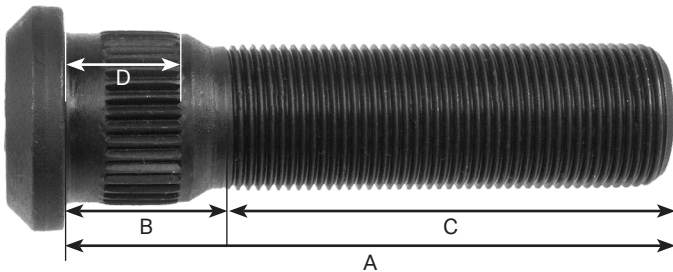


METRIC M22X1.5 THREAD
HEADED STUD - SERRATED BODY
BODY DIAMETER .887" - .890"
SERRATED DIA. .0904" - .908"
GRADE 10.9

REPLACEMENT DAYTON® METRIC WHEEL STUDS (STEEL/ALUMINUM WHEELS)

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7290 USED WITH STEEL WHEELS	DAYTON® 09-001740 EUCLID® E-9837	3 5/8"	7/8"	3 3/4"	3/8"
WA07-7291 USED WITH ALUMINUM WHEELS	DAYTON® 09-001862	4 7/8"	7/8"	3 3/4"	3/8"

PICTURED: WA07-5203



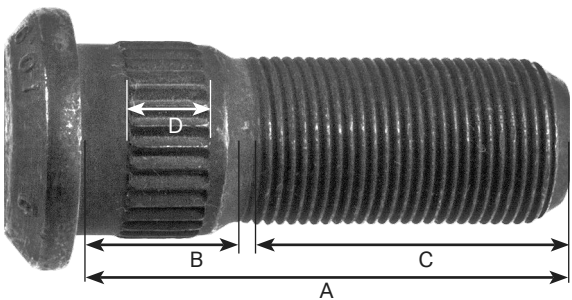
METRIC M22X1.5 THREAD
HEADED STUD - SERRATED BODY
BODY DIAMETER .971" - .975"
SERRATED DIA. 1.001" - 1.005"
GRADE 10.9

REPLACEMENT DAYTON® METRIC WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-5203	EUCLID® E-10675 GUNITE® W-1324	3 1/2"	21/32"	2 5/8"	1/2"
WA07-6085	EUCLID® E-8988 GUNITE® W-1246	3 11/16"	7/8"	2 11/32"	1/2"
WA07-5204	EUCLID® E-8981 GUNITE® W-1164	4"	3/4"	2 7/8"	1/2"
WA07-6087	EUCLID® E-8989 GUNITE® W-1249	4 1/4"	1 1/16"	2 7/8"	1/2"
WA07-6088	EUCLID® E-10676 GUNITE® W-1327	4 1/4"	21/32"	3 1/4"	1/2"
WA07-6116	EUCLID® E-10241 GUNITE® K233-468	4 3/8"	1 3/8"	2 3/8"	1"
WA07-5205	EUCLID® E-8980 GUNITE® W-1160	5 3/32"	7/8"	3 3/4"	1/2"
WA07-5114	EUCLID® E-8987 GUNITE® W-1211	5 3/16"	1 1/16"	3 23/32"	1/2"

HEADED WHEEL STUDS

PICTURED: WA07-6089

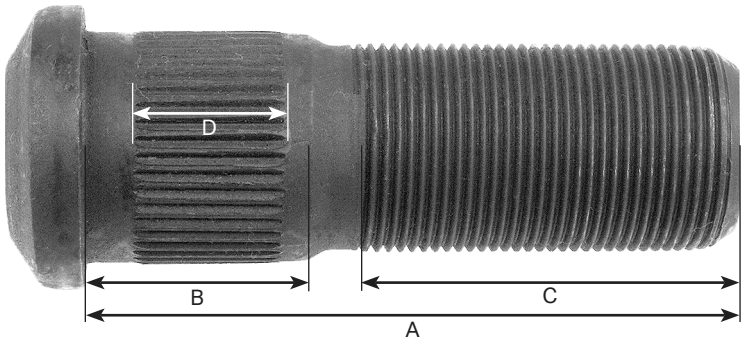


METRIC M22X1.5 THREAD
HEADED STUD - SERRATED BODY
BODY DIAMETER .973-.977
SERRATED BODY DIAMETER 1.000-1.015
GRADE 10.9
USE METRIC NUT: WA07-5036

REPLACEMENT WEBB® METRIC WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6089	EUCLID® E-9009 WEBB® 101166	2 9/16"	23/32"	1 11/16"	3/8"
WA07-5374	EUCLID® E-6036 WEBB® 101164	3 1/2"	23/32"	2 1/4"	3/8"
WA07-5038	EUCLID® E-6035 WEBB® 101162	3 15/16"	23/32"	2 11/16"	3/8"
WA07-6090	EUCLID® E-9526 WEBB® 101161	4 5/16"	23/32"	3 1/16"	3/8"
WA07-5039	EUCLID® E-6034 WEBB® 101160	4 25/32"	23/32"	3 17/32"	3/8"

PICTURED: WA07-6351

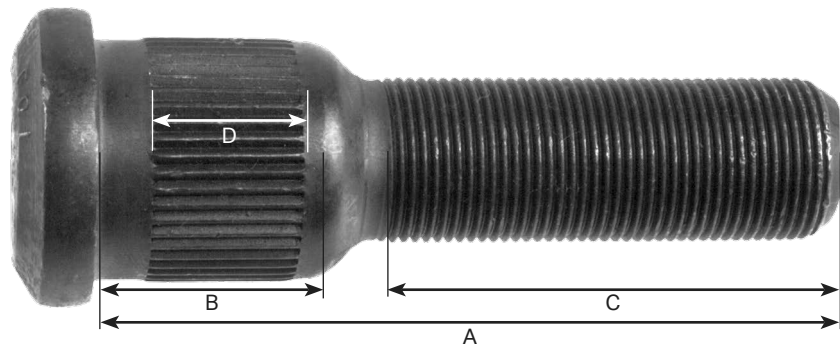


METRIC M22X1.5 THREAD
HEADED STUD - SERRATED BODY
BODY DIAMETER .982
SERRATED BODY DIAMETER 1.001
GRADE 10.9

METRIC WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6351	EUCLID® E-8960 FORD® EHZ1107A	3 7/16"	2"	1"	1/2"
WA07-6352	EUCLID® E-8991 MACK® 5000-438684	3 15/32"	1 13/16"	1 3/32"	11/32"

PICTURED: WA07-6091



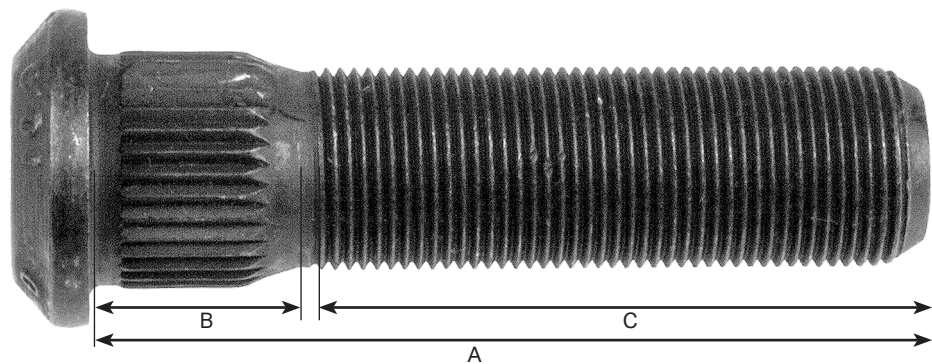
METRIC M22X1.5 THREAD
HEADED STUD - SERRATED BODY
BODY DIAMETER 1.218-1.222
SERRATED BODY DIAMETER 1.244-1.252
GRADE 10.9

REPLACEMENT GUNITE® METRIC WHEEL STUDS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6091	EUCLID® N/A GUNITE® W-1202	3 7/8"	1 3/16"	2 11/32"	3/4"
WA07-7301	EUCLID® N/A PACCAR® 12452-106	3 7/8"	2 5/16"	2 1/16"	1/2"
WA07-6350	EUCLID® N/A PACCAR® 02-02145	4"	1 3/16"	2 1/4"	1/2"
WA07-7302	EUCLID® N/A MOTORWHEEL® 90092	4 1/8"	1 7/8"	2 1/8"	1"
WA07-6093	EUCLID® E-8986 GUNITE® W-1205	4 13/32"	1 3/16"	2 7/8"	3/4"
WA07-7303	EUCLID® N/A PACCAR® 12452-102	4 9/16"	1 5/16"	3"	1/2"

HEADED WHEEL STUDS

PICTURED: WA07-5303



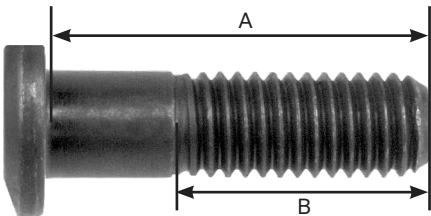
M22X1.5 THREAD
BODY DIAMETER .908"-.912"
GRADE 10.9

METRIC CLIPPED HEAD STUDS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-5303	CONMET® 101151 EUCLID® E-6029A WEBB® 89983	4 3/8"	1 19/64"	2 1/2"
WA07-6094	EUCLID® E-8997 MOTORWHEEL® 89620	4 25/32"	5/8"	3 3/4"
WA07-7287	CONMET® 101171 EUCLID® E-6001A MOTORWHEEL® 89774	4 31/32"	1 19/64"	3 1/4"
WA07-7304	CONMET® 101150 EUCLID® E-6030A	5 1/4"	1 19/64"	3 11/32"

CLIPPED WHEEL STUDS

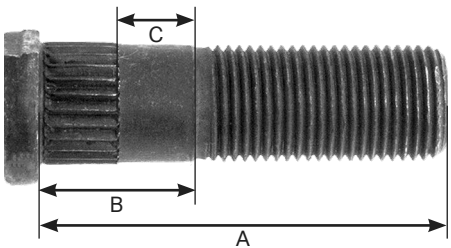
PICTURED: WA07-5357



REPLACEMENT ERIE® WHEEL BOLTS

WORLD AMERICAN #	REPLACES	DIA./ THREAD	A	B	USE TW NUT
WA07-5357	EUCLID® E-5095 ERIE® 4989	5/8"-11	2"	1 5/16"	WA-2021
WA07-6052	EUCLID® E-5761 ERIE® 5247	3/4"-10	2 1/4"	1 3/8"	WA-2020

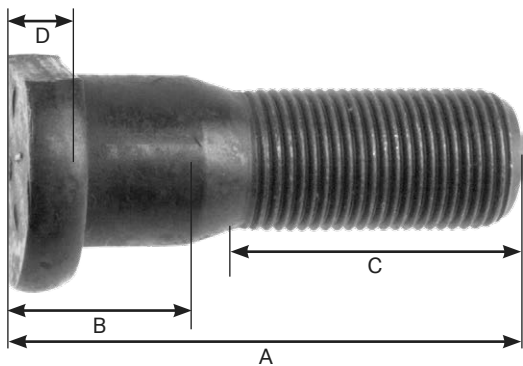
PICTURED: WA07-7328



REPLACEMENT BUDD®, KELSEY® 5/8" - 18, CLIPPED HEAD STUDS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7328 RIGHT HAND STUD	BUDD® 67458 EUCLID® E-5610R KELSEY® 36733	2 1/8"	13/16"	5/8"
WA07-7332 LEFT HAND STUD	BUDD® 67459 EUCLID® E-5610L KELSEY® 36734	2 1/8"	13/16"	5/8"

PICTURED: WA07-6104



3/4"-16 THREAD
BODY DIAMETER .888

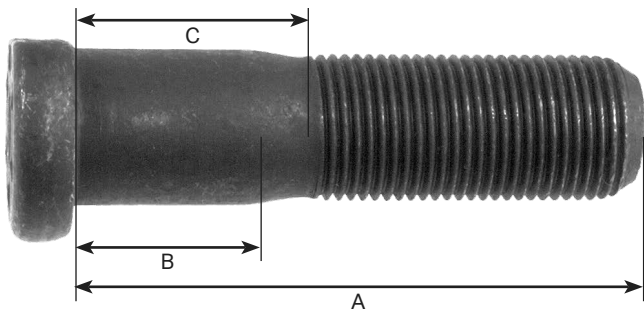
"D" HEAD STUDS FOR DURA-LIGHT HUBS

WORLD AMERICAN	REPLACES	A	B	C	D
WA07-6104 RIGHT HAND STUD	EUCLID® E-10259R	2 11/32"	5/8"	1 3/8"	5/16"
WA07-6316 LEFT HAND STUD	EUCLID® E-10259L	2 11/32"	5/8"	1 3/8"	5/16"

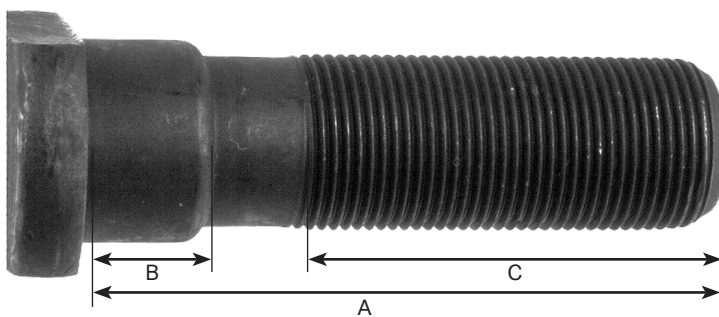


CLIPPED WHEEL STUDS

PICTURED: WA07-6096



PICTURED: WA07-6190



3/4"-16 THREAD
BODY DIAMETER .783-.786
GRADE 8

TRAILER STUDS FOR ALUMINUM HUBS

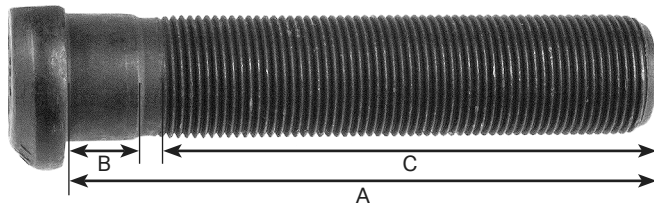
WORLD AMERICAN #	REPLACES	A	B	C
WA07-6096 RIGHT HAND STUD	EUCLID® E-10213R	2 15/16"	1 1/8"	15/16"
WA07-6338 LEFT HAND STUD	EUCLID® E-10213L PACCAR® K04	2 15/16"	1 1/8"	15/16"
WA07-6054 RIGHT HAND STUD	EUCLID® E-6026R	3 5/32"	1 13/32"	1 23/32"
WA07-7282 LEFT HAND STUD	CONMET® 100012 EUCLID® E-6026L	3 5/32"	1 13/32"	1 23/32"
WA07-7283 RIGHT HAND STUD	CONMET® 100369 EUCLID® E-6058R	3 1/4"	1 17/32"	1 7/8"
WA07-7284 LEFT HAND STUD	CONMET® 100368 EUCLID® E-6058L	3 1/4"	1 17/32"	1 7/8"
WA07-6339 RIGHT HAND STUD	EUCLID® E-10214R PACCAR® K05	3 5/16"	1 3/4"	15/16"
WA07-6340 LEFT HAND STUD	EUCLID® E-10214L PACCAR® K06	3 5/16"	1 3/4"	15/16"
WA07-6056 RIGHT HAND STUD	EUCLID® E-6027R	3 13/32"	1 13/32"	1 3/4"
WA07-6057 LEFT HAND STUD	EUCLID® E-6027L	3 13/32"	1 13/32"	1 3/4"
WA07-6058 RIGHT HAND STUD	EUCLID® E-6059R	3 17/32"	1 9/16"	1 29/32"
WA07-6059 LEFT HAND STUD	EUCLID® E-6059L	3 17/32"	1 9/16"	1 29/32"
WA07-6060 RIGHT HAND STUD	EUCLID® E-6028R	3 25/32"	1 9/16"	1 3/4"
WA07-6061 LEFT HAND STUD	EUCLID® E-6028L	3 25/32"	1 9/16"	1 3/4"

M22X1.5 THREAD
BODY DIAMETER .980-.983
GRADE 10.9

REPLACEMENT MOTORWHEEL® - CLIPPED HEAD STUDS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6190	EUCLID® E-5994 MOTORWHEEL® 88808	3 1/4"	43/64"	2 1/4"
WA07-7279	EUCLID® E-5992A MOTORWHEEL® 88836 TRAILMOBILE® 7007-267	3 7/16"	23/32"	2 7/16"
WA07-6192	EUCLID® E-5993 MOTORWHEEL® 88799	4 1/8"	23/32"	3 1/16"

PICTURED: WA07-6353



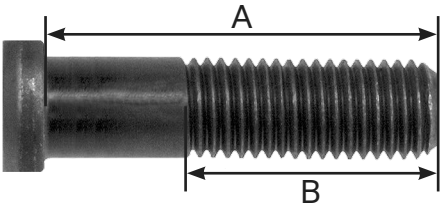
M22X1.5 THREAD
BODY DIAMETER .888
GRADE 10.9

METRIC "D" HEAD CLIPPED STUD

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6353	EUCLID® E-10256	3 3/8"	1/2"	2 1/2"
WA07-6319	EUCLID® E-10257	4 3/16"	1/2"	3 5/16"

DOUBLE CLIPPED

PICTURED: WA07-7313

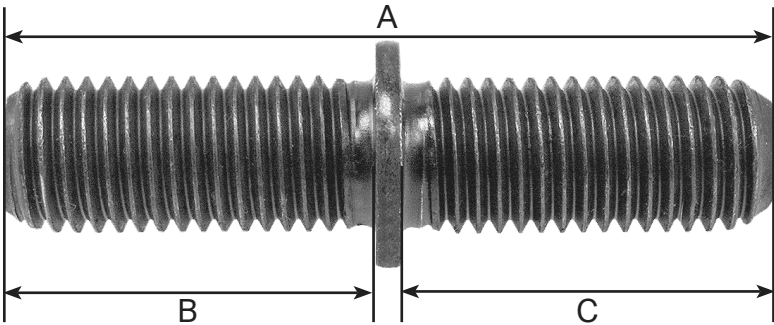


REPLACEMENT GUNITE® WHEEL BOLTS

WORLD AMERICAN #	REPLACES	DIA./ THREAD	A	B	USE WA NUT
WA07-7313	EUCLID® E-4990 GUNITE® WP-1	5/8"-11	2 1/16"	1 3/16"	WA07-5152
WA07-7166	EUCLID® E-5005	3/4"-10	2 1/8"	1 3/16"	WA07-5018
WA07-7293	EUCLID® E-5654 GUNITE® WP-165	9/16"-12	2 1/8"	11/16"	-----

SHOULDER

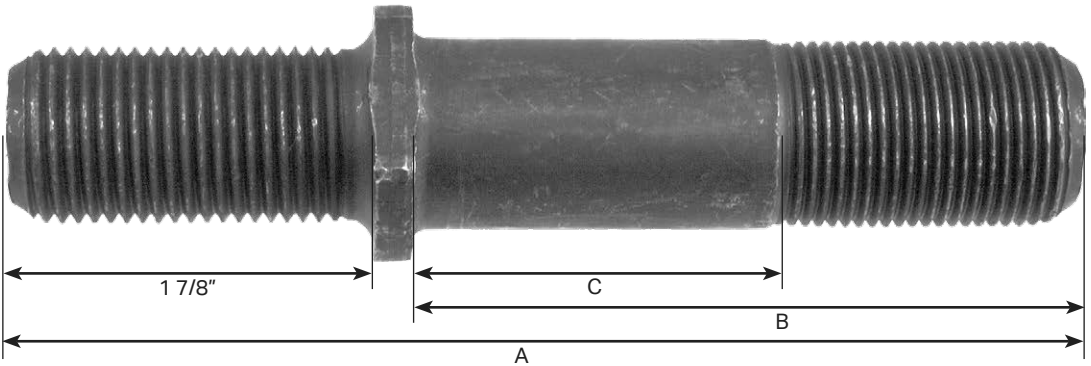
PICTURED: WA07-7201



ALUMINUM WHEEL STUD

WORLD AMERICAN #	REPLACES	DIA./ THREAD	A	B	C
WA07-7201	ALCOA® B5795 EUCLID® E-5010 GUNITE® WP-395	3/4"-10	3 21/32"	1 3/4"	1 3/4"

PICTURED: WA07-6160



1"-14 THREAD HUB END
15/16"-12 THREAD WHEEL END
BODY DIAMETER 1.010-1.013
GRADE 8

OFF-HIGHWAY SHOULDER STUDS WITH FLATS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6160 RIGHT HAND STUD	BUDD® 63341 EUCLID® E-5876R	5 5/8"	3 1/2"	1 7/8"
WA07-6303 LEFT HAND STUD	BUDD® 63342 EUCLID® E-5876L	5 5/8"	3 1/2"	1 7/8"
WA07-7265 RIGHT HAND STUD	EUCLID® MERITOR® 20X460	5 7/8"	3 11/16"	2 3/8"
WA07-6443 LEFT HAND STUD	EUCLID® MERITOR® 20X461	5 7/8"	3 11/16"	2 3/8"
WA07-7266 RIGHT HAND STUD	EUCLID® E-10231R MERITOR® 20X468	7"	4 7/8"	3 5/32"
WA07-7267 LEFT HAND STUD	EUCLID® E-10231L MERITOR® 20X469	7"	4 7/8"	3 5/32"

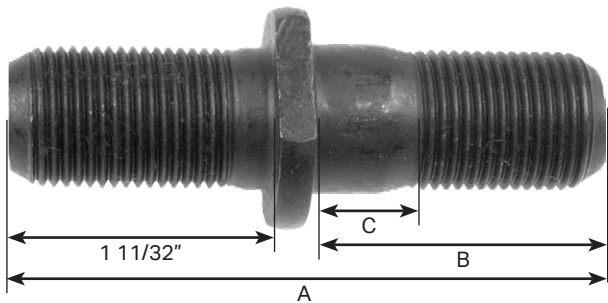


WORLD AMERICAN

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SHOULDER

PICTURED: WA07-6038



3/4"-16 THREAD BOTH ENDS
FLATS ON SHOULDER
BODY DIAMETER .783-.786
GRADE 8

SHOULDER STUDS FOR DISC WHEELS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-6038 RIGHT HAND	BUDD® 12247 EUCLID® E-5558R	3 1/8"	1 19/32"	5/8"
WA07-6039 LEFT HAND	BUDD® 12248 EUCLID® E-5558L	3 1/8"	1 19/32"	5/8"
WA07-5189 RIGHT HAND	BUDD® 13096 EUCLID® E-5556R	3 19/32"	2 1/16"	7/8"
WA07-5190 LEFT HAND	BUDD® 13097 EUCLID® E-5556L	3 19/32"	2 1/16"	7/8"
WA07-5191 RIGHT HAND	BUDD® 13988 EUCLID® E-5559R	3 23/32"	2 3/16"	1 1/16"
WA07-5192 LEFT HAND	BUDD® 13989 EUCLID® E-5559L	3 23/32"	2 3/16"	1 1/16"
WA07-5193 RIGHT HAND	BUDD® 13990 EUCLID® E-5559R	3 31/32"	2 7/16"	1 5/32"
WA07-5194 LEFT HAND	BUDD® 13991 EUCLID® E-5561L	3 31/32"	2 7/16"	1 5/32"
WA07-5195 RIGHT HAND	BUDD® 19004 EUCLID® E-5560R	4 1/32"	2 1/2"	1 9/32"
WA07-5196 LEFT HAND	BUDD® 19005 EUCLID® E-5560L	4 1/32"	2 1/2"	1 9/32"
WA07-6044 RIGHT HAND	BUDD® 17123 EUCLID® E-5551R	4 7/32"	2 11/16"	1 7/16"
WA07-6045 LEFT HAND	BUDD® 17124 EUCLID® E-5551L	4 7/32"	2 11/16"	1 7/16"
WA07-7314 RIGHT HAND	BUDD® 22005 EUCLID® E-5585R	4 11/32"	2 13/16"	1 25/32"
WA07-7315 LEFT HAND	BUDD® 22006 EUCLID® E-5585L	4 11/32"	2 13/16"	1 25/32"

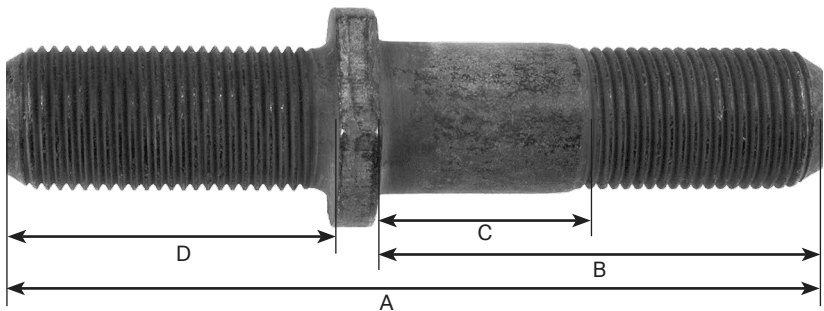
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SHOULDER STUDS FOR DISC WHEELS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7421 RIGHT HAND	CONMET® 100329 EUCLID® E-10200R	4 17/32"	3"	1 9/16"
WA07-7422 LEFT HAND	CONMET® 100330 EUCLID® E-10200L	4 17/32"	3"	1 9/16"
WA07-5197 RIGHT HAND	BUDD® 16271 EUCLID® E-5553R	4 17/32"	3"	1 29/32"
WA07-5198 LEFT HAND	BUDD® 16272 EUCLID® E-5553L	4 17/32"	3"	1 29/32"
WA07-7298 RIGHT HAND	BUDD® 21942 CONMET® 100118 EUCLID® E-6023R	4 27/32"	3 5/16"	1 11/16"
WA07-7427 LEFT HAND	BUDD® 21943 CONMET® 100119 EUCLID® E-6023L	4 27/32"	3 5/16"	1 11/16"
WA07-6080 RIGHT HAND	CONMET® 100525 EUCLID® E-5989R	4 29/32"	3 3/8"	2 1/32"
WA07-6081 LEFT HAND	CONMET® 100524 EUCLID® E-5989L	4 29/32"	3 3/8"	2 1/32"
WA07-6048 RIGHT HAND	BUDD® 16003 EUCLID® E-5557R	5 1/32"	3 1/2"	2 15/32"
WA07-6317 LEFT HAND	BUDD® 16004 EUCLID® E-5557L	5 1/32"	3 1/2"	2 15/32"
WA07-7316 RIGHT HAND	BUDD® 16856 EUCLID® E-5562R	5 7/32"	3 11/16"	2 21/32"
WA07-7317 LEFT HAND	BUDD® 16857 EUCLID® E-5562L	5 7/32"	3 11/16"	2 21/32"
WA07-7425 RIGHT HAND	CONMET® 100256 EUCLID® E-6024R	5 1/4"	3 5/16"	1 21/32"
WA07-7426 LEFT HAND	CONMET® 100257 EUCLID® E-6024L	5 1/4"	3 5/16"	1 21/32"
WA07-7318 RIGHT HAND	BUDD® 33792 EUCLID® E-5563R	5 17/32"	4"	3"
WA07-7319 LEFT HAND	BUDD® 33793 EUCLID® E-5563L	5 17/32"	4"	3"
WA07-7320 RIGHT HAND	BUDD® 24100 EUCLID® E-5565R	6 1/32"	4 1/2"	3 13/32"
WA07-7321 LEFT HAND	BUDD® 24101 EUCLID® E-5565L	6 1/32"	4 1/2"	3 13/32"

SHOULDER

PICTURED: WA07-6162

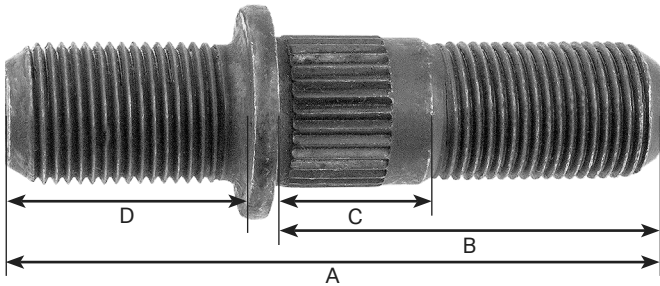


3/4"-16 THREAD - BOTH ENDS
FLATS ON SHOULDER
BODY DIAMETER .783-.786

LONGER CAP NUT END FOR ALUMINUM WHEELS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6162 RIGHT HAND	BUDD® 95693 EUCLID® E-5932R FREIGHTLINER® 11-9714-3	4 1/4"	2 3/8"	1 1/16"	1 5/8"
WA07-6163 LEFT HAND	BUDD® 95694 EUCLID® E-5932L FREIGHTLINER® 11-9714-2	4 1/4"	2 3/8"	1 1/16"	1 5/8"
WA07-6164 RIGHT HAND	BUDD® X-2053 EUCLID® E-5931R FREIGHTLINER® 11-9714-12	4 1/2"	2 3/8"	1 1/32"	1 15/16"
WA07-6165 LEFT HAND	BUDD® X-2054 EUCLID® E-5931L FREIGHTLINER® 11-9714-11	4 1/2"	2 3/8"	1 1/32"	1 15/16"
WA07-7382 RIGHT HAND	WEBB® 183102	4 29/32"	3 3/8"	1 55/64"	1 23/64"
WA07-6345 LEFT HAND	WEBB® 183101	4 29/32"	3 3/8"	1 55/64"	1 23/64"
WA07-7231 RIGHT HAND	BUDD® X-2055 EUCLID® E-5929R FREIGHTLINER® 11-9714-16	5 3/16"	3"	1 5/16"	2"
WA07-7232 LEFT HAND	BUDD® X-2056 EUCLID® E-5929L FREIGHTLINER® 11-9714-15	5 3/16"	3"	1 5/16"	2"
WA07-7233 RIGHT HAND	BUDD® X-1592 BUDD® 95691 EUCLID® E-5933R FREIGHTLINER® 11-9714-1	5 1/4"	2 7/8"	1 3/8"	2 1/4"
WA07-7234 LEFT HAND	BUDD® X-1593 BUDD® 95692 EUCLID® E-5933L FREIGHTLINER® 11-9714-0	5 1/4"	2 7/8"	1 3/8"	2 1/4"
WA07-7235 RIGHT HAND	BUDD® X-2057 EUCLID® E-5930R FREIGHTLINER® 11-9714-14	5 9/16"	3 3/8"	1 3/4"	2"
WA07-7236 LEFT HAND	BUDD® X-2058 EUCLID® E-5930L FREIGHTLINER® 11-9714-13	5 9/16"	3 3/8"	1 3/4"	2"
WA07-7237 RIGHT HAND	BUDD® X-2061 EUCLID® E-5934R FREIGHTLINER® 11-9714-18	5 11/16"	2 3/4"	1 11/16"	2 3/4"
WA07-7238 LEFT HAND	BUDD® X-2062 EUCLID® E-5934L FREIGHTLINER® 11-9714-17	5 11/16"	2 3/4"	1 11/16"	2 3/4"

PICTURED: WA07-7179



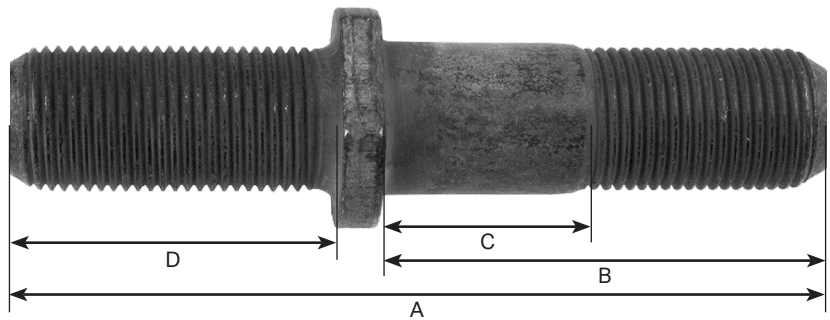
3/4"-16 THREAD - BOTH ENDS
SERRATIONS UNDER SHOULDER
ROUND SHOULDER
BODY DIAMETER .783-.786

SHOULDER STUDS FOR DISC WHEELS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7179 RIGHT HAND	BUDD® 75931 EUCLID® E-5713R	3 13/32"	2 1/16"	27/32"
WA07-6041 LEFT HAND	BUDD® 75932 EUCLID® E-5713L	3 13/32"	2 1/16"	27/32"
WA07-6042 RIGHT HAND	BUDD® 82581 EUCLID® E-5714R	3 5/8"	2 9/32"	1 1/16"
WA07-6300 LEFT HAND	BUDD® 82582 EUCLID® E-5714L	3 5/8"	2 9/32"	1 1/16"
WA07-7272 RIGHT HAND	BUDD® 63385 EUCLID® E-5715R	4"	2 9/16"	1 5/16"
WA07-7273 LEFT HAND	BUDD® 63386 EUCLID® E-5715L	4"	2 9/16"	1 5/16"
WA07-7181 RIGHT HAND	BUDD® 80697 EUCLID® E-5716R	4 11/32"	3"	1 29/32"
WA07-7182 LEFT HAND	BUDD® 80698 EUCLID® E-5716L	4 11/32"	3"	1 29/32"
WA07-7274 RIGHT HAND	BUDD® 69205 EUCLID® E-5717R	4 17/32"	3"	1 15/16"
WA07-7275 LEFT HAND	BUDD® 69206 EUCLID® E-5717L	4 17/32"	3"	1 15/16"
WA07-6046 RIGHT HAND	BUDD® 83812 EUCLID® E-5589R	4 5/8"	3 9/32"	2"
WA07-6301 LEFT HAND	BUDD® 83813 EUCLID® E-5589L	4 5/8"	3 9/32"	2"
WA07-6246 RIGHT HAND	BUDD® 101321 EUCLID® E-8948R	4 7/8"	3 17/32"	2"
WA07-6247 LEFT HAND	BUDD® 101322 EUCLID® E-8948L	4 7/8"	3 17/32"	2"

SHOULDER

PICTURED: WA07-6162



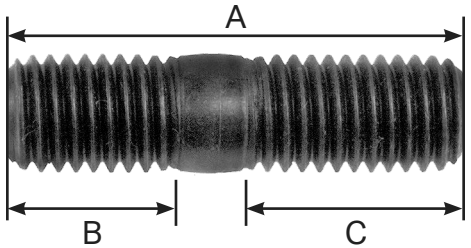
3/4"-16 THREAD - BOTH ENDS
SERRATIONS UNDER
SHOULDER FOR MACK®
BODY DIAMETER .783-.786

SHOULDER STUDS FOR DISC WHEELS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-6162 RIGHT HAND	MACK® 18AX926	4 1/16"	2 9/16"	1"	1 11/32"
WA07-6163 LEFT HAND	MACK® 18AX927	4 1/16"	2 9/16"	1"	1 11/32"

DRIVE FLANGE

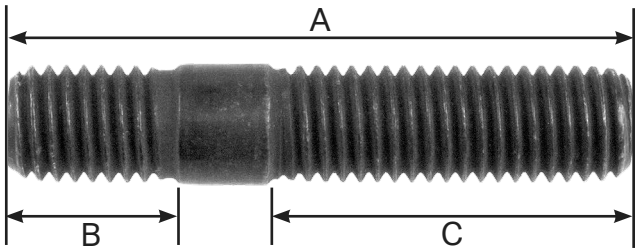
PICTURED: WA07-6049



REPLACEMENT DAYTON® WHEEL STUDS

WORLD AMERICAN #	REPLACES	DIA./ THREAD	A	B	C	USE WA NUT
WA07-6049	EUCLID® E-4955	5/8"-11	2 3/8"	7/8"	1 3/8"	WA07-5152
WA07-5150	EUCLID® E-4958	5/8"-11	2 3/4"	1"	1 1/2"	WA07-5152
WA07-5004	EUCLID® E-4956A	3/4"-10	2 13/16"	1 1/16"	1 11/16"	WA07-5018
WA07-5005	EUCLID® E-5706	3/4"-10	3 1/8"	1"	1 7/8"	WA07-5018
WA07-5151	EUCLID® E-4957	3/4"-10	3 9/16"	1 5/8"	1 5/8"	WA07-5018

PICTURED: WA07-6225



REPLACEMENT GOODYEAR® WHEEL STUDS

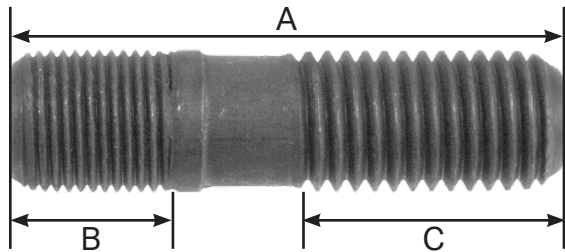
WORLD AMERICAN #	REPLACES	DIA./ THREAD	A	B	C	USE WA NUT
WA07-6225	EUCLID® E-5726 GOODYEAR® ST-178	5/8"-11	3 1/4"	7/8"	1 7/8"	WA07-5152
WA07-6226	EUCLID® E-5728 GOODYEAR® ST-770	3/4"-10	3 5/8"	1 1/16"	2 3/8"	WA07-5018
WA07-6227	EUCLID® E-5729 GOODYEAR® ST-570	3/4"-10	4"	1 1/16"	2 3/4"	WA07-5018

WORLD AMERICAN®

WORLDAMERICAN.COM
(800) 934-2727

DRIVE FLANGE

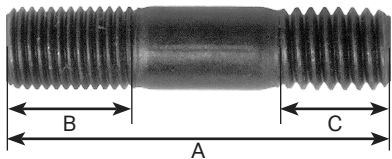
PICTURED: WA07-6051



REPLACEMENT MACK® WHEEL STUDS

WORLD AMERICAN #	REPLACES	DIA./THREAD	A	B	C
WA07-6051	EUCLID® E-4987A MACK® 18-AX-405	3/4"-10 3/4"-16"	2 7/8"	7/8"	1 3/8"
WA07-6178	EUCLID® E-5731 MACK® 18-AX-970	5/8"-18	3"	1 3/16"	13/16"
WA07-6181	EUCLID® E-5751 MACK® 18-AX-971	5/8"-18	3 1/2"	1 7/16"	13/16"

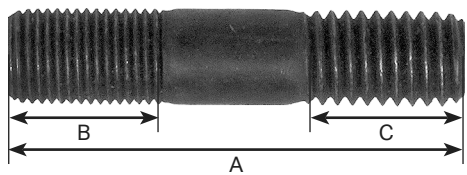
PICTURED: WA07-6179



7/16" DRIVE FLANGE STUDS

WORLD AMERICAN #	REPLACES	A	B	B LENGTH	C	C LENGTH
WA07-6179	BUDD® 18560 EUCLID® E-5792	2"	7/16"-20	5/8"	7/16"-14	1/2"
WA07-6180	BUDD® 42793 EUCLID® E-5796 KELSEY® WP-28 MERITOR® SC-718	2 3/16"	7/16"-20	15/16"	7/16"-14	9/16"

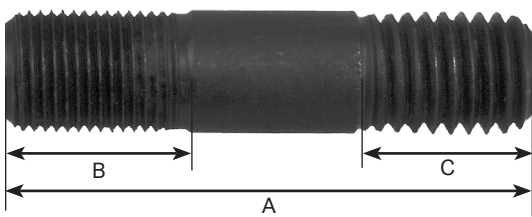
PICTURED: WA07-6182



1/2" DRIVE FLANGE STUDS

WORLD AMERICAN #	REPLACES	A	B	B LENGTH	C	C LENGTH
WA07-6182	BUDD® 37181 BUDD® 44577 EUCLID® E-5798 MERITOR® SC-819	2 3/8"	1/2"-20	13/16"	1/2"-13	13/16"
WA07-6183	EUCLID® E-5799 KELSEY® WP-81 WEBB® 152026	2 9/16"	1/2"-20	15/16"	1/2"-13	1 1/16"
WA07-5206	EUCLID® N/A GMC® 2216914 MW® 85521	2 7/8"	1/2"-20	15/16"	1/2"-13	7/8"

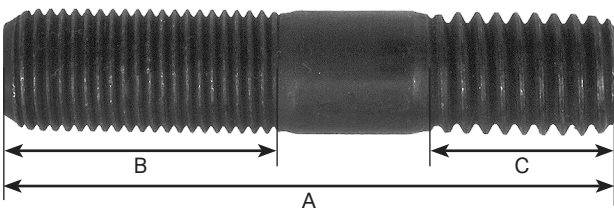
PICTURED: WA07-5207



5/8" DRIVE FLANGE STUDS

WORLD AMERICAN #	REPLACES	A	B	B LENGTH	C	C LENGTH
WA07-5207	BUDD® 63606 EUCLID® E-5800 IHC® 119345H KELSEY® WP-174	2 3/4"	5/8"-18	1"	5/8"-11	1"
WA07-6178	EUCLID® E-5731 MACK® 18AX970	3"	5/8"-18	7/8"	5/8"-18	1 1/2"
WA07-5208	BUDD® 48966 EUCLID® E-5801	3 1/16"	5/8"-18	1 1/16"	5/8"-11	1 1/8"
WA07-6181	EUCLID® E-5751 MACK® 18AX971	3 1/2"	5/8"-18	7/8"	5/8"-18	1 7/16"
WA07-5209	EUCLID® E-5872 MW® 86478 MERITOR® 4X1027	3 11/16"	5/8"-18	1 1/8"	5/8"-11	1 9/16"

PICTURED: WA07-6185

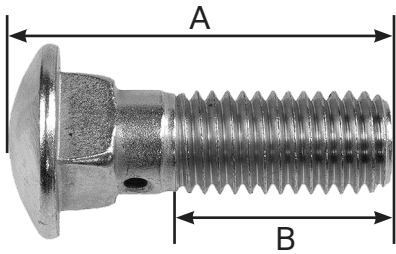


3/4" DRIVE FLANGE STUDS

WORLD AMERICAN #	REPLACES	A	B	B LENGTH	C	C LENGTH
WA07-6185	EUCLID® E-5955 IHC® 61142H	3 3/16"	3/4"-16	1 1/8"	3/4"-10	1"
WA07-6186	BUDD® 37179 BUDD® 49321 EUCLID® E-4960 IHC® 55585H KELSEY® WP-39 MERITOR® 4X1207	3 3/4"	3/4"-16	1 9/16"	3/4"-10	1 1/8"

WHEEL BOLT

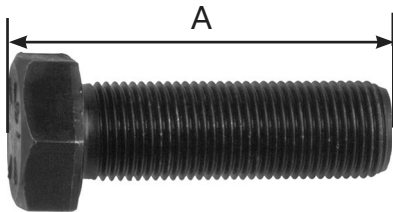
PICTURED: WA07-6200



REPLACEMENT NAVISTAR® WHEEL BOLTS

WORLD AMERICAN #	REPLACES	DIA./THREAD	A	B	USE WA NUT
WA07-6200	EUCLID® E-5712 IHC® 68333H	5/8"-11	2"	1 3/16"	WA07-5152
WA07-7448	EUCLID® IHC® 17052R1, 172746RI	5/8"-18	2"	1"	WA07-6199
WA07-7292	EUCLID® E-5012 IHC® 75887H	5/8"-11	2"	1 1/8"	WA07-5152

PICTURED: WA07-6006

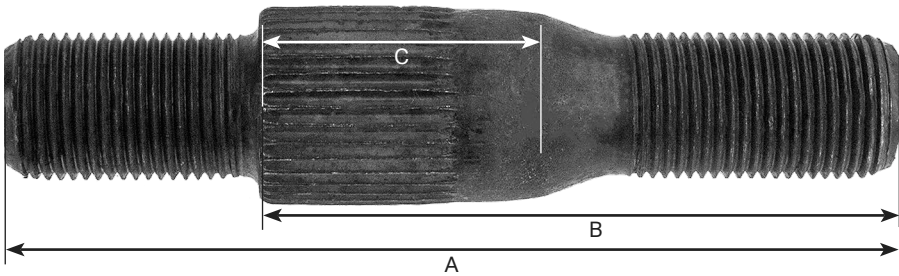


STANDARD DRUM BOLTS

WORLD AMERICAN #	REPLACES	DIA./ THREAD	A	USE WA NUT
WA07-6006	EUCLID® E-5966 GUNITE® WP-185	5/8"-18	2"	WA07-6010
WA07-6008	EUCLID® E-5968 GUNITE® W-845	3/4"-16	2"	WA07-5040

BUS

PICTURED: WA07-7191

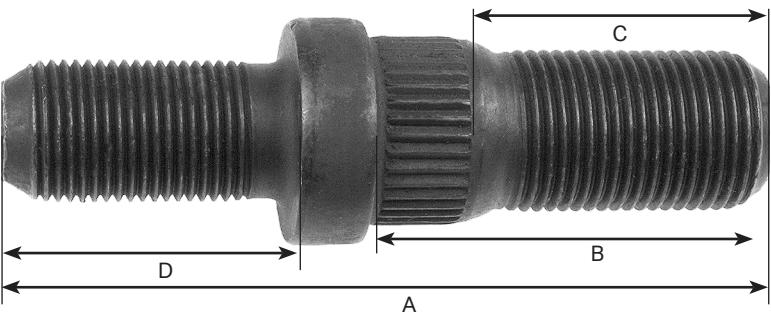


3/4" - 16 THREAD BOTH ENDS
BODY DIA. .971 - .975

SERRATED STUDS FOR ALUMINUM HUBS

WORLD AMERICAN #	REPLACES	A	B	C
WA07-7191 RIGHT HAND	EUCLID® E-5758R MERITOR® 20X244	4 21/32"	3 5/16"	1 15/32"
WA07-7192 LEFT HAND	EUCLID® E-5758L MERITOR® 20X245	4 21/32"	3 5/16"	1 15/32"
WA07-7193 RIGHT HAND	EUCLID® E-5763R MERITOR® 20X242	4 13/16"	3 15/32"	1 15/32"
WA07-7194 LEFT HAND	EUCLID® E-5763L MERITOR® 20X243	4 13/16"	3 15/32"	1 15/32"
WA07-7195 RIGHT HAND	EUCLID® MERITOR® 20X234	5 5/16"	3 31/32"	1 15/16"
WA07-6346 LEFT HAND	EUCLID® MERITOR® 20X235	5 5/16"	3 31/32"	1 15/16"

PICTURED: WA07-7258

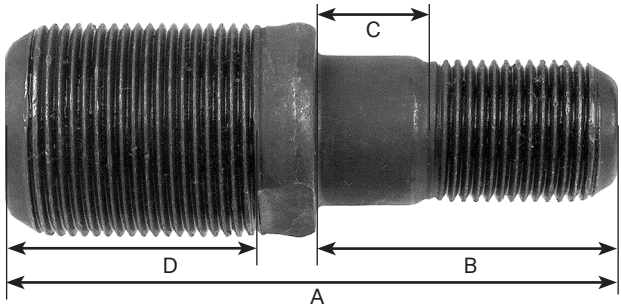


3/4" - 16 THREAD WHEEL END
7/8" THREAD HUB END
BODY DIA. .971 - .975

SERRATED STUDS FOR BUS AND FRONT END

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7258 RIGHT HAND	EUCLID® E-5920R MERITOR® 20X1228	4"	2 3/32"	1 1/4"	1 7/16"
WA07-6177 LEFT HAND	EUCLID® E-5920L MERITOR® 20X1227	4"	2 3/32"	1 1/4"	1 7/16"
WA07-7259 RIGHT HAND	EUCLID® E-5919R MERITOR® 20X436	4 1/4"	2 13/32"	1 9/16"	1 7/16"
WA07-7260 LEFT HAND	EUCLID® E-5919R MERITOR® 20X243	4 1/4"	2 13/32"	1 9/16"	1 7/16"

PICTURED: WA07-7163



1 1/8" - 16 THREAD WHEEL END
3/4" - 16 THREAD HUB END
BODY DIA. .783" - .786"
GRADE: 8

BUS TYPE SHOULDER STUDS WITH FLATS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7163 RIGHT HAND	BUDD® 32309 EUCLID® E-3723R MACK® 11AX1130	3 3/16"	1 9/32"	17/32"	1 13/32"
WA07-6118 LEFT HAND	BUDD® 32310 EUCLID® E-3723L MACK® 11AX1131	3 3/16"	1 9/32"	17/32"	1 13/32"
WA07-7176 RIGHT HAND	BUDD® 31703 EUCLID® E-3725R	3 21/32"	2 1/16"	31/32"	1 13/32"
WA07-7183 LEFT HAND	BUDD® 31704 EUCLID® E-3725L	3 21/32"	2 1/16"	31/32"	1 13/32"
WA07-7239 RIGHT HAND	BUDD® 95711 EUCLID® E-5935R	3 3/4"	1 7/8"	25/32"	1 11/16"
WA07-7240 LEFT HAND	BUDD® 95712 EUCLID® E-5935L	3 3/4"	1 7/8"	25/32"	1 11/16"
WA07-7241 RIGHT HAND	BUDD® 95707 EUCLID® E-5936R	3 15/16"	2 1/16"	31/32"	1 11/16"
WA07-7242 LEFT HAND	BUDD® 95708 EUCLID® E-5936L	3 15/16"	2 1/16"	31/32"	1 11/16"

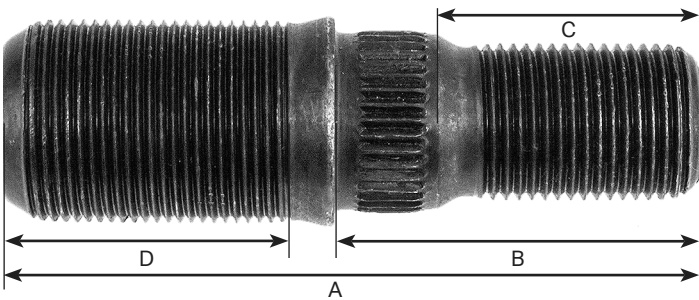
CONTINUED>

BUS TYPE SHOULDER STUDS WITH FLATS

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7174 RIGHT HAND	BUDD® 45631 EUCLID® E-3727R	4 1/32"	2 7/16"	1 5/16"	1 13/32"
WA07-7175 LEFT HAND	BUDD® 45632 EUCLID® E-3727L	4 1/32"	2 7/16"	1 5/16"	1 13/32"
WA07-7243 RIGHT HAND	BUDD® 90217 EUCLID® E-5937R	4 1/4"	2 7/16"	1 7/32"	1 5/8"
WA07-7244 LEFT HAND	BUDD® 90218 EUCLID® E-5937L	4 1/4"	2 7/16"	1 7/32"	1 5/8"
WA07-7165 RIGHT HAND	BUDD® 35089 EUCLID® E-3728R	4 11/32"	2 3/4"	1 23/32"	1 13/32"
WA07-7169 LEFT HAND	BUDD® 35090 EUCLID® E-3728L	4 11/32"	2 3/4"	1 23/32"	1 13/32"
WA07-7288 RIGHT HAND	EUCLID® E-5990R FREIGHTLINER® 10-9607-0	4 9/16"	2 3/4"	1 37/64"	1 1/2"
WA07-7289 LEFT HAND	EUCLID® E-5937L FREIGHTLINER® 10-9607-1	4 9/16"	2 3/4"	1 37/64"	1 1/2"
WA07-7184 RIGHT HAND	BUDD® 36757 EUCLID®	5 15/32"	3 7/8"	2 7/8"	1 13/32"
WA07-7185 LEFT HAND	BUDD® 36758 EUCLID®	5 15/32"	3 7/8"	2 7/8"	1 13/32"

BUS

PICTURED: WA07-7254

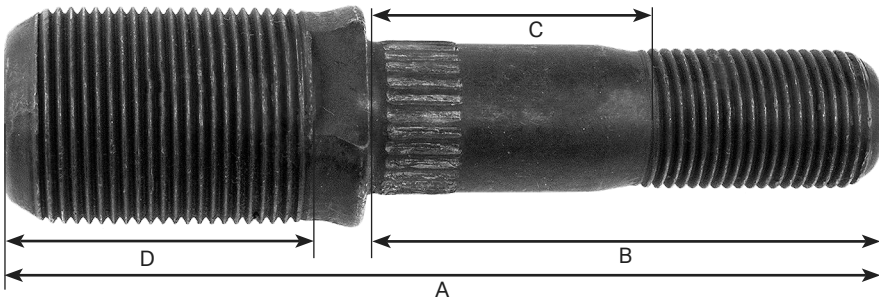


1 1/8" - 16 THREAD WHEEL END
7/8" - 14 THREAD HUB END
BODY DIA. .971 - .975

SERRATED STUDS FOR BUS AND FRONT END

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7254 RIGHT HAND	EUCLID® E-5921R MERITOR® 20X1240	3 5/8"	1 7/8"	1 1/16"	1 15/32"
WA07-7255 LEFT HAND	EUCLID® E-5921L MERITOR® 20X1239	3 5/8"	1 7/8"	1 1/16"	1 15/32"
WA07-7256 RIGHT HAND	EUCLID® E-5922R MERITOR® 20X1242	4"	2"	1 3/16"	1 3/4"
WA07-7257 LEFT HAND	EUCLID® E-5922L MERITOR® 20X1241	4"	2"	1 3/16"	1 3/4"

PICTURED: WA07-7299



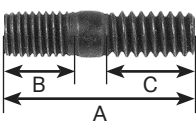
1 1/8" - 16 THREAD WHEEL END
3/4" - 16 THREAD HUB END
BODY DIA. .783 - .786
SERRATED DIA. .810" -.820"

BUS TYPE SHOULDER STUDS WITH FLATS AND SERRATIONS ON BODY

WORLD AMERICAN #	REPLACES	A	B	C	D
WA07-7299 RIGHT HAND	COMMET® 100344 EUCLID® E-8951R	4 9/16"	2 3/4"	1 7/32"	1 13/16"
WA07-7300 LEFT HAND	CONMET® 100343 EUCLID® E-8951L	4 9/16"	2 3/4"	1 7/32"	1 13/16"

GENERAL DOUBLE END

PICTURED: WA07-7322

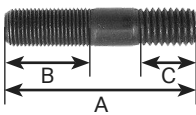


USE THESE DIMENSIONS FOR MEASURING STUDS.

1/4" X 1/4" DIA. GENERAL PURPOSE HIGH TENSILE STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7322		1"	1/4"-28	3/8"	1/4"-20	7/16"
WA07-7323		1 1/4"	3/4"-16	1 7/8"	1/4"-20	1/2"
WA07-7430		2 1/2"	1/4"-28	1 7/8"	1/4"-20	3/8"

PICTURED: WA07-7324



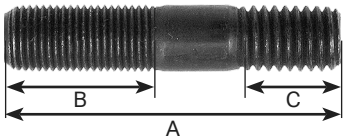
USE THESE DIMENSIONS FOR MEASURING STUDS.

5/16" X 5/16" DIA. GENERAL PURPOSE HIGH TENSILE STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7324		1"	5/16"-24	7/16"	5/16"-18	3/8"
WA07-7325		1 1/4"	5/16"-24	3/4"	5/16"-18	9/16"
WA07-7327		1 1/2"	5/16"-24	7/8"	5/16"-18	7/16"
WA07-7326		2"	5/16"-24	1"	5/16"-18	9/16"

GENERAL DOUBLE END

PICTURED: WA07-7330

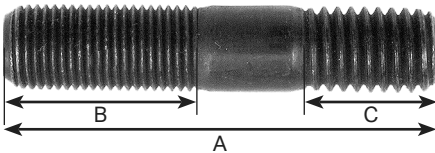


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FOR MEASURING STUDS.

3/8" X 3/8" DIA. GENERAL PURPOSE HIGH TENSILE STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7330		1 3/4"	3/8"-16	7/8"	3/8"-16	5/8"
WA07-7331		2"	3/8"-16	1"	3/8"-16	3/4"
WA07-7329		2 3/4"	3/8"-24	1 11/16"	3/8"-16	5/8"

PICTURED: WA07-7333



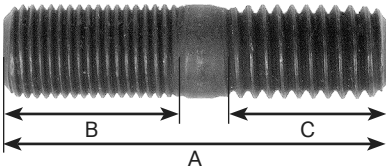
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FOR MEASURING STUDS.

7/16" X 7/16" DIA. STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7333	EUCLID®	2 1/4"	7/16"-20	1 1/16"	7/16"-14	13/16"

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PICTURED: WA07-7334

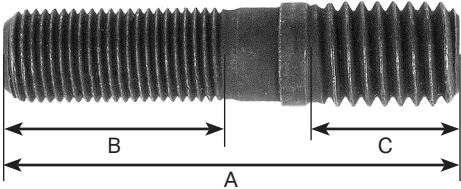


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FOR MEASURING STUDS.

1/2" X 1/2" DIA. STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7334	EUCLID®	2"	1/2"-20	15/16"	1/2"-13	13/16"
WA07-7335	EUCLID®	2 1/4"	1/2"-20	1"	1/2"-13	3/4"
WA07-7336	EUCLID®	2 1/4"	1/2"-20	1 5/16"	1/2"-13	11/16"
WA07-6018	EUCLID® E-4944	2 1/2"	1/2"-20	1 1/8"	1/2"-13	3/4"
WA07-7337	EUCLID®	2 3/4"	1/2"-20	1 5/8"	1/2"-13	3/4"
WA07-7338	EUCLID®	3"	1/2"-20	2"	1/2"-13	13/16"
WA07-7339	EUCLID®	3"	1/2"-20	1 7/8"	1/2"-13	5/8"
WA07-7340	EUCLID®	3 1/2"	1/2"-20	2 1/4"	1/2"-13	15/16"

PICTURED: WA07-7341



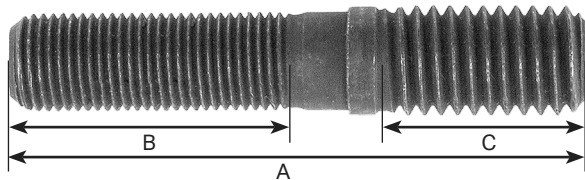
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1/2" X 9/16" DIA. STUDS

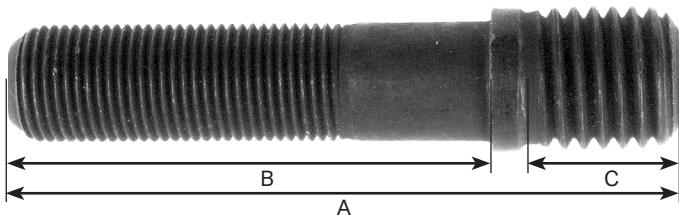
WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7341		2 3/8"	1/2"-20	1 1/16"	9/16"-12	7/16"
WA07-7342		3"	1/2"-20	1 7/8"	9/16"-12	5/8"

GENERAL DOUBLE END

PICTURED: WA07-7343



PICTURED: WA07-7352

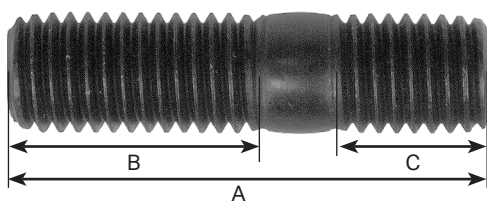


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1/2" X 5/8" DIA. STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7343	EUCLID®	3"	1/2"-20	1 5/8"	5/8"-11	1"
WA07-7344	EUCLID®	2 1/2"	9/16"-18	1 3/8"	9/16"-12	15/16"
WA07-7345	EUCLID®	2 3/4"	9/16"-18	1 9/16"	9/16"-12	13/16"
WA07-7346	EUCLID®	3 1/4"	9/16"-18	2"	9/16"-12	7/8"

PICTURED: WA07-7347



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5/8" X 5/8" DIA. STUDS

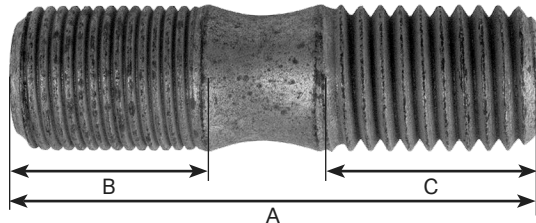
WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7347		2 1/2"	5/8"-11	1 1/4"	5/8"-11	3/4"
WA07-7348		2 5/8"	5/8"-18	1 3/16"	5/8"-11	1"
WA07-7349		2 3/4"	5/8"-18	1 1/2"	5/8"-11	15/16"
WA07-7350		3"	5/8"-18	1 3/4"	5/8"-11	15/16"
WA07-7351		3 1/2"	5/8"-18	1 11/16"	5/8"-11	1"

USE THESE DIMENSIONS FOR MEASURING STUDS.

5/8" X 3/4" DIA. STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7352		3 1/2"	5/8"-18	1 11/16"	3/4"-10	7/8"

PICTURED: WA07-7353



USE THESE DIMENSIONS FOR MEASURING STUDS.

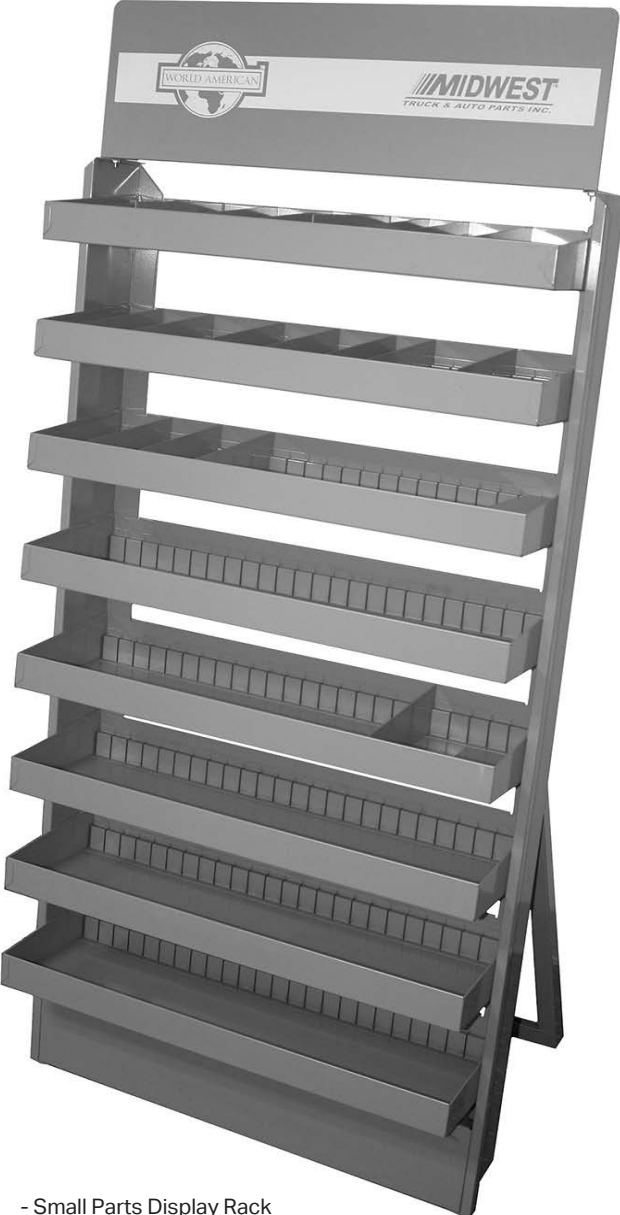
3/4" X 3/4" DIA. STUDS

WORLD AMERICAN #	REPLACES	A LENGTH	B THREAD	B LENGTH	C THREAD	C LENGTH
WA07-7353		2 3/4"	3/4"-16	1 1/2"	3/4"-10	1"
WA07-6136		3 1/4"	3/4"-16	1 7/8"	3/4"-10	1"

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Display Rack



- Small Parts Display Rack
WORLD AMERICAN #: WA07-RACK



STUD INSTALLERS

WORLD AMERICAN #	DESCRIPTION
WA13-SI5811	5/8"-11, STUD INSTALLER
WA13-SI5818	5/8"-18, STUD INSTALLER
WA13-SI3410	3/4"-10, STUD INSTALLER
WA13-SI3416	3/4"-16, STUD INSTALLER



STUD REMOVERS

WORLD AMERICAN #	DESCRIPTION
WA13-SR58	5/8", STUD REMOVER
WA13-SR34	3/4", STUD REMOVER
WA13-SR112	1 1/2", STUD REMOVER



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