

CLEARANCES

Bearing clearances are dictated primarily by the bearing, not by the housing bore of the connecting rods. The connecting rod bore determines crush. Bearing clearances vary as to the application, diameter of the journal and bearing design. An approximate factor would be .001 per 1.000" diameter of crankshaft pin measured at the crown of the bearing surface.

Wrist pin to bushing clearance is variable per diameter as well. The following is a reference scale:

WRIST PIN DIAMETER	.500 to 0.750"
CLEARANCE	.0010"
MAXIMUM CLEARANCE	.0016"

WRIST PIN DIAMETER	.751 to 1.094"
CLEARANCE	.0012"
MAXIMUM CLEARANCE	.0020"

Prior to disassembly of the connecting rod, number the connecting rod and matching cap. DO NOT use a metal stamp!

For information on our Material Safety Data Sheets Scan our QR code



GUARANTEE

We guarantee the quality of the steel, the forging, the heat treat process, and the dimensional sizes. We have no control over the assembly or customer modification of the connecting rod in the engine. There are no further guarantees either expressed or implied by CP-CARRILLO or any of their agents or representatives.

DISCLAIMER/WARRANTY

Due to the nature of high performance applications, CP-Carrillo products are sold without any warranty of merchantability or fitness or purpose, expressly understood and agreed between CP-Carrillo and purchasers that as part of the bargain between CP-Carrillo and purchasers, consideration of doing business with each other, all purchasers take, select and purchase said products and services from CP-Carrillo "as is" and "with faults" and CP-Carrillo shall provide purchaser with a full and complete opportunity to examine parts, inventory or services when purchasing from CP-Carrillo. CP-Carrillo shall not under any circumstances, be liable for any special, incidental, or consequential damages, including, but not limited to, damages or loss of other property of equipment, loss of profits or revenue, cost of purchased or replacement goods, or claims of customers of the purchaser which may arise and/or result from sales, installation or use of these parts.

www.cp-carrillo.com
1902 McGaw Irvine, CA 92614
Tel: 949.567.9000 Fax: 949.567.9010
Member of Pankl Racing Systems



BOLT INSTRUCTION SHEET



CP-CARRILLO FASTENER ASSEMBLY LUBRICANT

The CARRILLO connecting rod is a precision, high strength, quality connecting rod, which when properly installed and maintained, will perform flawlessly in today's racing and high performance internal combustion engines. We would like to offer some suggestions and specifications that should be helpful in your installation.

HOW TO APPLY

Spread an adequate amount of the paste on the threads and underhead to obtain a good seal. Paste must not be mixed with grease or oils.

Before handling, read product and safety data sheets for safe use, physical and health hazard information. The material safety data sheet is available at www.cp-carrillo.com. You can also obtain a copy from your sales representative by calling our office.



BOLTS

All bolts should be lubricated under the heads as well as on the threads. We recommend the bolt lube included, or as an alternative, molybdenum base paste mixed with engine oil.

The preferred method to torque the bolt is by using the stretch figure listed in the table below. In order to check bolt stretch, simply fixture one rod, leaving the cap portion free from clamping load. Measure both bolt lengths loose, then progressively tighten the bolt until the measured increase in length correlates with the figures below. Use the indicated torque reading to tighten all the connecting rods in final assembly.

THREAD	TYPE	HEAD MARKING	STRETCH RECOMMENDED ENGLISH	STRETCH RECOMMENDED Metric	TORQUE NOT TO EXCEED English	TORQUE NOT TO EXCEED METRIC
1/4	CARR	S4	0.0040 in to 0.0060 in	0.100 to 0.150	215inlb	24 NM
5/16	WMC	H5	0.0040 in to 0.0060 in	0.100 to 0.150	30 ftlb	41 NM
5/16	CARR	S5	0.0050 in to 0.0070 in	0.130 to 0.180	40 ftlb	54 NM
3/8	WMC	H6	0.0050 in to 0.0065 in	0.130 to 0.160	40 ftlb	54 NM
3/8	CARR	S6	0.0050 in to 0.0070 in	0.130 to 0.180	58 ftlb	79 NM
7/16	WMC	H7	0.0050 in to 0.0070 in	0.130 to 0.180	75 ftlb	102 NM
7/16-1	WMC	H71	0.0050 in to 0.0070 in	0.130 to 0.180	75 ftlb	102 NM
7/16	CARR	S7	0.0050 in to 0.0070 in	0.130 to 0.180	100 ftlb	136 NM
M8	WMC	HM8	0.0040 in to 0.0055 in	0.100 to 0.140	20 ftlb	27 NM
M8-1	CARR	SM81	0.0040 in to 0.0055 in	0.100 to 0.150	32 ftlb	43 NM
M8	CARR	SM8	0.0045 in to 0.0060 in	0.110 to 0.150	32 ftlb	43 NM
M9	WMC	HM9	0.0045 in to 0.0060 in	0.110 to 0.150	40 ftlb	54 NM
M9	CARR	SM9	0.0045 in to 0.0060 in	0.110 to 0.150	40 ftlb	54 NM
M10	WMC	HM10	0.0045 in to 0.0060 in	0.110 to 0.150	62 ftlb	84 NM
M10	CARR	SM10	0.0050 in to 0.0070 in	0.130 to 0.180	72 ftlb	98 NM
CARR6PS	CARR	S6-A-xxx-PS	0.0040 in to 0.0060 in	0.100 to 0.150	58 ftlb	79 NM
H7AL	WMC	H7AL	0.0050 in to 0.0070 in	0.130 to 0.180	96 ftlb	130 NM

DO NOT MAGNAFLUX CARRILLO CONNECTING RODS WITH BOLTS INSTALLED

CP-CARRILLO reserves the right to alter the design or initiate product changes without incurring liability or obligation with respect to similar products previously manufactured by this concern.