## Prices shown are current as of January 16, 2019.

## Stock and Custom-Made Steering Racks

Whether you choose a stock rack off the shelf or a custom rack made to your specifications, you will get a top-quality unit engineered for smooth operation and long life. Unlike most racks which bend the rack towards the pinion to achieve optimum backlash, our design moves the pinion towards the rack in an eccentric housing. This has the obvious advantage of a much freer running rack and longer bearing life. Soft felt seals further enhance bearing life without adding friction. A safety backup buffer, positioned just clear of the rack, maintains tooth engagement under extreme loading without adding friction under normal operation. The housing is aluminum alloy. The pinion shaft has a  $\frac{9}{16}$  x 36 tooth spline to accept many standard universal joints or our rigid coupler listed below.

 Stock Steering Rack
 Part No. 1802
 \$979.00

 Our stock rack is based on the most commonly ordered custom rack dimensions.
 A=18" B=13" C=10" D=1.5" T=1/2 -20 (See drawing below.)

## **Steering Rack End Joints**

Please Note: The following rack end joints do not fit our stock steering racks. Custom racks can be ordered to accept either the Renault or Dallara-style joints.

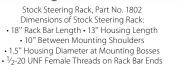
Renault-Style Rack End Joint, M12 x 1.5		
Renault-Style Rack End Joint, <sup>3</sup> / <sub>8</sub> -24 UNF	Part No. 1804-3/8	\$119.99
Many British formula cars were originally built with steering racks which use these Renault-Style joints. Requires 22 x 1.5mm male threads on the steering rack.		
Replacement Nylon Cup for Renault End Join	ntPart No. 1804-Cup	\$11.99
Replacement Spring for Renault End Joint Replacement M12 Ball Stud for Renault Joint		

Dallara-Style Rack End Joint,  $\frac{5}{16}$ -24 Male.....Part No. 1804- $\frac{5}{16}$ -Compact . \$109.99 These joints were designed for Dallara cars, but their compact, low-profile design makes them adaptable to other chassis. Requires  $\frac{3}{4}$ -20 female threads on the steering rack.

**Van Diemen Tie Rod End Inner Joint.....Part No. 3065TSH-4-R**.......**\$39.99** This special rod end has a  ${}^{1}4$ " bore and a  ${}^{5}/_{16}$ -24 male threaded shank. The small head ( ${}^{5}/_{16}$ " wide ball x  ${}^{3}4$ " OD head) fits into the steering rack clevis on late-model Van Diemen formula cars. Right-hand thread only.



Above: Rigid Coupler for <sup>3</sup>⁄<sub>4</sub> Inch Steering Shaft Part No. 1805-.75



22mm x 1.5mm female thread for rack end

Available with right-hand threads only

Renault-Style Rack End Joint Assembly Part No. 1804-xx

Left: Replacement Parts for Renault-Style Rack End Joints Part No. 1804-Cup and Part No. 1804-Spring



Right: Dallara-Style Compact Rack End Joints Part No. 1804-5/16-Compact Sold individually (two shown for illustration)

<sup>3</sup>⁄4-20 UNF male thread for \_\_\_\_ rack end

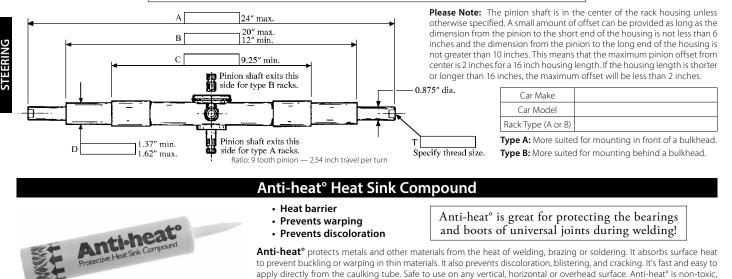
Sold individually



Left: Van Diemen Tie Rod Inner Joint Part No. 3065TSH-4-R

## Custom-Made Steering Rack Worksheet

Use this worksheet to order your custom steering rack. You can also visit our website for an interactive order form to guide you through the ordering process.



harmless to the skin and odorless. Cleanup is easy - just wipe off the excess and wash with water.

Anti-heat° Protective Compound, 12 ounce caulking gun tube ......Part No. 3389-12 oz .... \$25.49