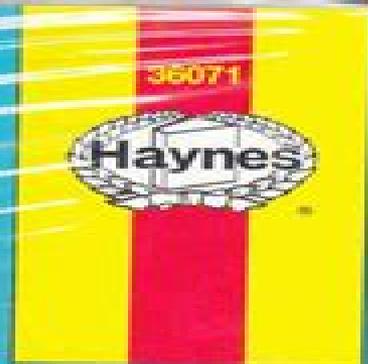


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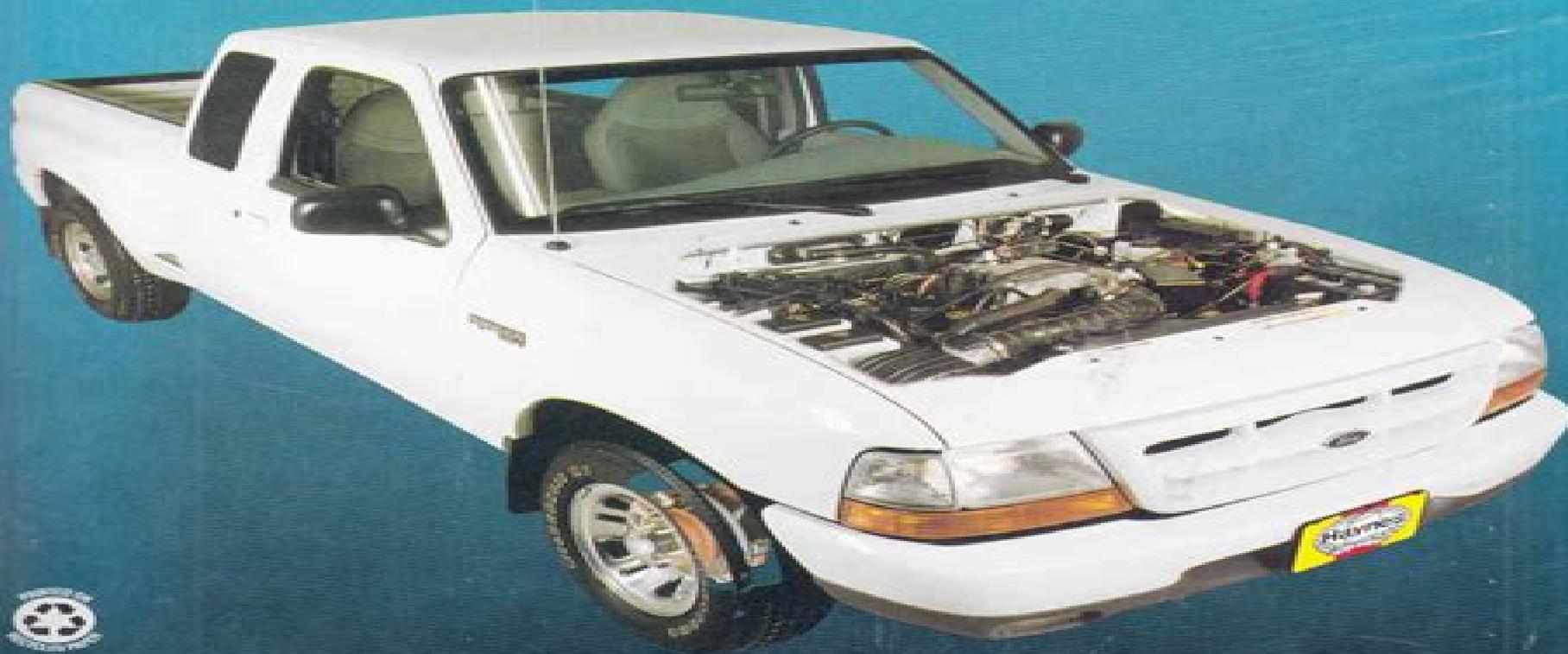
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**Michael Hoelscher**



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web 1 turn off power turn off the main electrical cutoff switch remove the snaps on the outboard motor upper case and take off the cowl cover

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web 8 2 1 1 hexagonal nut the upper corners of this nut are rounded off or chamfered the chamfering is generally conical the angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is formed on the top surface of the nut

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web proximate joint and bolt stiffness is outlined in paragraph 5 0 the slope of the force angle of turn relationship can be represented by the following equation where  $k_b$  bolt spring rate lb/in  $k_c$  joint spring rate lb/in

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web formulas for nut dimensions nuts appendix ii nut type square hex flat hex flat jam hex and hex slotted hex jam hex thick and hex thick slotted heavy square heavy hex flat heavy hex flat jam heavy hex and heavy hex slotted heavy hex jam see notes nut size 1 4 thru 5 8 3 4 thru 1 1 2 1 1 8 thru 1 1 2 1 1 8 1 1 4 thru 1 1 2 1 4

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the distance measured perpendicular to the axis of nut overall between two opposite sides of the nut in accordance with the notes on respective dimensional tables

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web me 423 machine design instructor rameshsingh thread nomenclature 12 bolt specification shigley s mechanical engineering design nominal diameter  $\frac{1}{4}$  20 x  $\frac{3}{4}$  in unc 2 grade 5 hex head bolt threads per inch length thread series class fit material grade head type m12 x 1 75 iso 4 8 hex head bolt metric nominal diameter pitch

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