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VEHICLE TECHNOLOGY M4X00394

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④ (ii) cont.

$$F_m = P \times A_m$$

$$4.783 \times 10^6$$

$$F_m = \cancel{37497 \times 10^6} \times \pi \left( \frac{0.015875}{2} \right)^2$$

$$F_m = 946.712 \text{ N}$$

$$F_m = F_p \times PR$$

$$\therefore F_p = \frac{F_m}{PR} = \frac{946.712}{4}$$

$$= \underline{\underline{236.68 \text{ N}}}$$