

tandn = to (tigure 10.7) $=\frac{P-(2P)}{d-dr}$ = P-P 1.5mm/0 = 1.5mm/0 = 10 8.16mm $=\frac{1}{2} \quad fandn = 0.407$ $=\frac{1}{4.11} \quad dn \approx 66$ 17 - LCOS Ly 7 1.5 mm x 0.406 > 0.021 (from egly - T= 40. 41 Nm of toight to fail at Outs = considering failure due to may stripping Froit = 4 (0.7d) Sy Fint ~ T(d(0.75t)(0.5855) -> t=0.47d (19th 10.45) ~ T(d(0.3525d)(0.5855) ~ 0.325 Ted (0.5855) MS COM Lowidering SAE day: 4 d e [1.1,31] ma = 12 mm + 5 = 1100 MPa Front = T (0.9 (10mm)) (1100 Mrd) = 61.98 = 70 bN Fru = 0.325 TL (10mm) 2 (0.58) (1100 MPa) = 65.1412 65.16N 1 = 0 Tran + Losda That = 32 73 Nr Trut = 30.47 Nm 7mm A4

consider failure soon after instal tightening: Fit = Ki. At. Sp (egta 10.11) 0 considering SAEnclass Volt: d = 10 mg ($\in [1.6,36]$) $K_1 = 0.9$ $S_p = 970 \text{ Mpg}$ $A_1 = 58 \text{ mm}^2$ (strust arres) — fable 10.2: Fit = 0.9 x 970 MPa x 58.0 ma2 -> Tit = 0.2 Fit of = 0.2 (50634 W) = 50634 N (10×10-3) = 50.63 bN = 101.27 Nm hince different failure conditions: -7 UTS: F = 86.4 kN -> 7=40.41 Nm

-> thread stripping (bolt). F = 70 kN -> T=32.73 Nm

-> thread stripping (und): F = 65.1 kN -> 1=30.47 Nm

-> initial tightening ? F = 50.63 kN -> T=101.27 Nm A stresses est uTS: 6 * stresses due to torrion: T = 167 (43, 44 pg 425) : Turs = 16x 40.41 pm = 205506440 Pa = 205.8 mpa Trs, Ball = 16x 32.73 Mm = 166692521. Pq = 166.7 Miller Trs, Nex = 16 × 30.47 WA = 155182436 Pa = 155.2 MPa Til. = 16×101.27 Nm = 515763874, Pa = 515.8, MPa 7mm A4 7((10×103 m)3

	to strong due to 11 in 1 in	
	to street due to thread leaving compression	1
		0
	$= \pi(J^2 - d_i^2) +$	
		6
	P= 70 kH (Volt) / 65.1 kN (nut)	
	p = 1.5 mm	
	d = 10 mn	
	di = 9.23 mm	
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	: 5 mg	- L.
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	7mm A4	and a