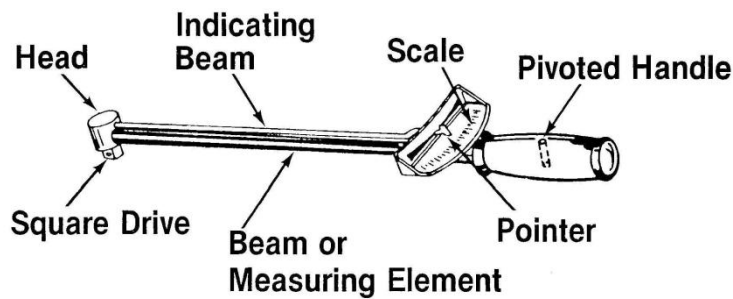
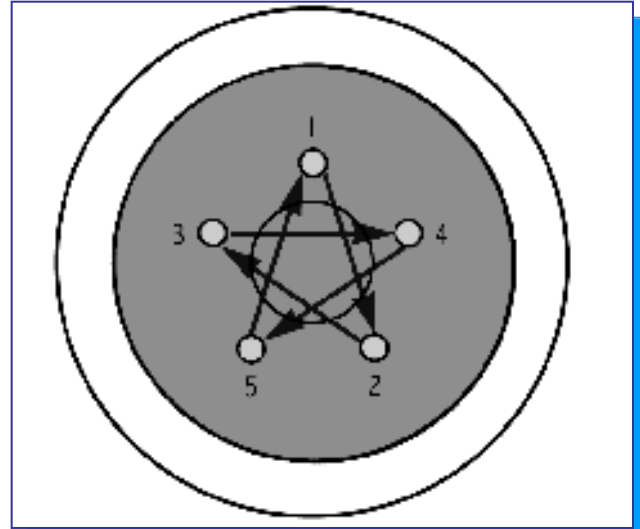
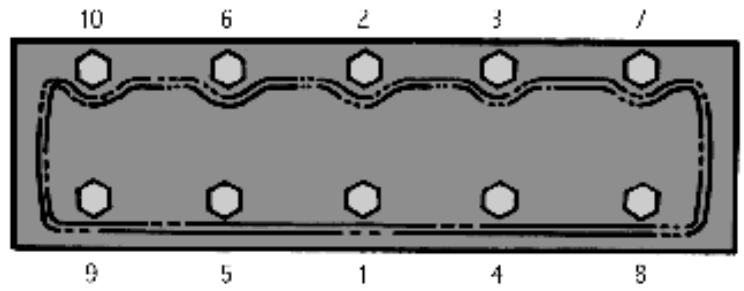


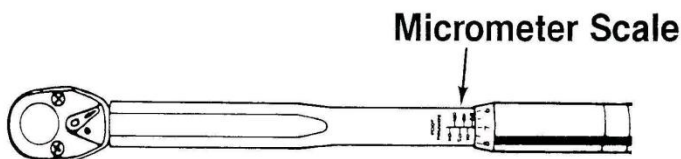
Caution
The torque specifications listed below are approximate guidelines only and may vary depending on conditions when used such as amount and type of lubricant, type of plating on bolt, etc.

SAE Standard / Foot-pounds						
Grade of bolt	SAE 1 & 2	SAE 5	SAE 6	SAE 8		
Min. tensile strength	64,000 PS.I.	105,000 PS.I.	133,000 PS.I.	150,000 PS.I.		
Markings on head					Size of socket or wrench opening	
U.S. standard					U.S. regular	
Bolt diameter	Foot-pounds				Bolt head	Nut
1/4	5	7	10	10.5	3/8	7/16
5/16	9	14	19	22	1/2	9/16
3/8	15	25	34	37	9/16	5/8
7/16	24	40	55	60	5/8	3/4
1/2	37	60	85	92	3/4	13/16
9/16	53	88	120	132	7/8	7/8
5/8	74	120	167	180	15/16	1.
3/4	120	200	280	296	1-1/8	1-1/8

Metric Standard							
Grade of bolt	5D	8G	10K	12K			
Min. tensile strength	71,160 PS.I.	113,800 PS.I.	142,200 PS.I.	170,679 PS.I.			
Grade markings on head					Size of socket or wrench opening		
Metric	Foot-pounds				Metric		
Bolt dia.	U.S. dec equiv.	Foot-pounds				Bolt head	
6mm	.2362	5	6	8	10	10mm	
8mm	.3150	10	16	22	27	14mm	
10mm	.3937	19	31	40	49	17mm	
12mm	.4720	34	54	70	86	19mm	
14mm	.5512	55	89	117	137	22mm	
16mm	.6299	83	132	175	208	24mm	
18mm	.709	111	182	236	283	27mm	
22mm	.8661	182	284	394	464	32mm	



Direct Reading



Signaling