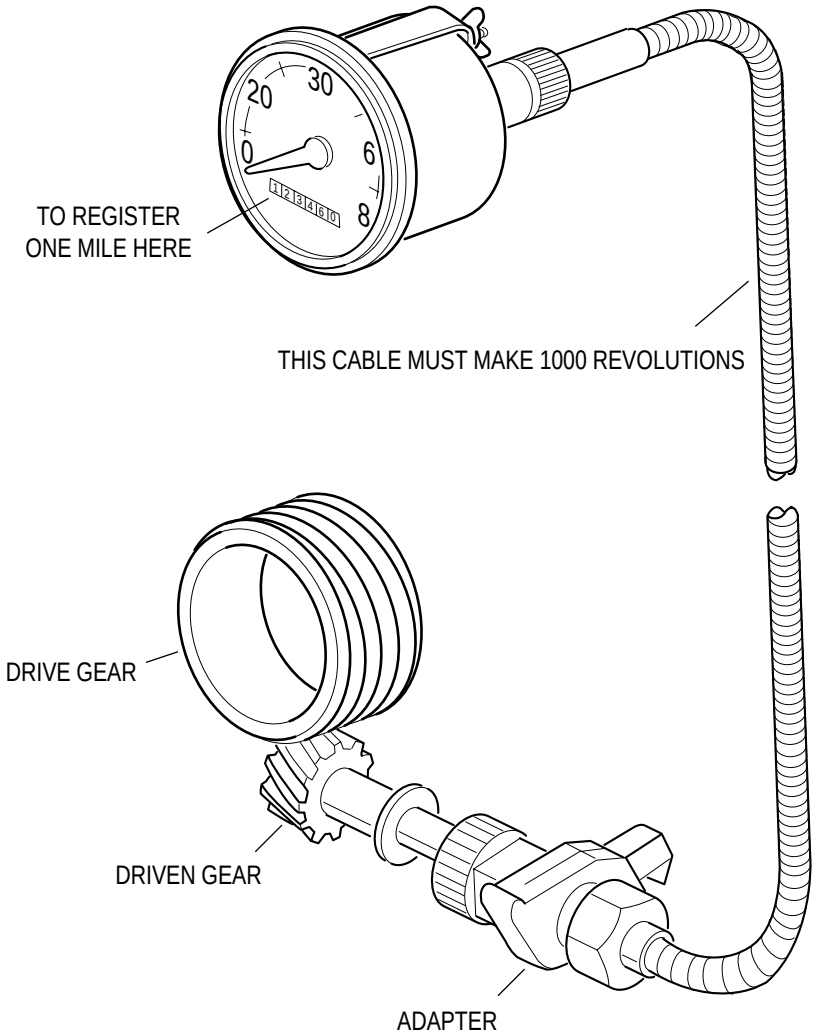
Speedometer Layout Schematic



1. The speedometer head must turn 1000 revolutions to register one mile.
2. Select speedometer drive gear set from Speedometer Gear Chart No. 847-S for particular transmission.
3. The number of teeth in the speedometer driven gear divided by the number of teeth in the speedometer drive gear form a ratio.
4. To correct for various tire sizes and axle ratios, a speedometer adapter built to a specified ratio is required.
5. Calculate the adapter ratio required and select the nearest ratio from Stewart-Warner chart for 666 series drive joint.

Speedometer Driven Gear

$$\text{Speedometer Adapter Ratio} = \frac{(1000) \times \text{Speedometer Drive Gear}}{(\text{Tire revs per mile}) \times (\text{rear axle ratio})}$$

Example

Transmission:	Model RT-11609A
Tire Size:	10.00 x 20
Axle Ratio:	3.90
Speedometer Ratio:	13/6 = 2.167
Tire Revs Per Mile:	494

$$\text{Speedometer Adapter Ratio} = \frac{(1000) \times (2.167)}{494 \times 3.90} = 1.1248$$

Therefore use nearest adapter ratio selected from chart of 1.1250

Models	Drive Gear				Driven Gear	
	Number Teeth	Part Number	Ratio	Drive Type	Number Teeth	Part Number
FS-3005 FS-3205 FS-4005 FS-4205	5	86301	3.000	E	15	3314433
			3.000	H	15	5501501
			3.200	E	16	3315575
			3.200	H	16	5501502
			3.400	E	17	3313714
			3.400	K	17	3314545
			3.400	H	17	5501504
	6	3314448	2.833	H	17	5501503
			2.833	E	17	3314449
FS-5005 FS-5205	6	3314685	2.667	J	16	5501529
	5	86305	2.400	A	12	86308
			2.600	A	13	86311
FS-6106	5	86138	3.000	E	15	86139
			3.000	D	15	86144
FS-6005 FS-6105 FS-6205 FS-6305 FS-5106 FS-5306 FS-6206 FS-6306 FS-7206	6	3316283	2.667	J	16	5501529
	5	86302	3.000	D	15	86303
			3.000	E	15	86304
	5	86306	2.400	A	12	86309
			2.600	A	13	86316
	6	86310	2.000	A	12	86309
	7	86307	1.714	A	12	86309

Models		Drive Gear				Driven Gear	
		Number Teeth	Part Number	Ratio	Drive Type	Number Teeth	Part Number
FS-8206 FSO-8206		6	86313	2.167	A	13	86314
				2.333	A	14	86315
		8	86312	1.625	A	13	86314
		8	5510520	1.825	A	15	5501517
				2.000	A	16	5501518
				2.125	A	17	5501519
		5	5501508	2.400	A	12	5501505
				2.600	A	13	5501506
				2.800	A	14	5501507
		6	5501516	2.500	A	15	5501513
				2.667	A	16	5501514
				2.833	A	17	5501515
		4	5501512	3.000	A	12	5501509
				3.250	A	13	5501510
				3.500	A	14	5501511
RT-6609 RT-8609 RT-610 RT-6610	Right Hand	6	86063	2.000	A	12	86142
				2.167	A	13	86137
				2.333	A	14	86143
				2.333	E	14	86145
	Left Hand	6	86099	2.167	A	13	86100
				2.333	E	14	86149
T-905 T-11605 2-A-92		3	86028	4.667	A	14	86029
				5.333	A	16	86069
		3	86038	4.333	A	13	86070
		4	86045	3.000	A	12	86079
				3.250	A	13	86077
		6	86030	2.333	A	14	86031
		6	86063	2.167	A	13	86092

Models	Drive Gear				Driven Gear	
	Number Teeth	Part Number	Ratio	Drive Type	Number Teeth	Part Number
T-955AL T-955ALL TA-4510 T-1056 T-11606 T-11607 T-14607	4	86067	3.500	A	14	86086
	6	86068	2.000	A	12	86128
			2.167	A	13	86087
			2.333	A	14	86111
T-8607	4	86140	3.500	A	14	86086
	6	86141	2.000	A	12	86128
			2.167	A	13	86087
			2.333	A	14	86111
RT-906 RT-11610 RTO-958LL RTLO-11610B RT-7608LL RT-11710 RT-8608LL RT-12610 RT-9508 RTLO-12610B RT-11608 RT-12710 RT-11608LL RTLO-13610B RT-11708LL RT-13610 RT-9509 RT-6613 RT-11509 RT-9513 RT-11609 RT-11613 RT-11709 RTO-11813 RT-12609 RTLO-12613B RT-12709 RTLO-12713A RT-13609 RT-613 RT-13709 RT-915 RT-910 RT-11615 RT-1110 RT-11715	4	86067	3.500	A	14	86086
	5	5501534	2.800	A	14	5501532
	6	86068	2.000	A	12	86128
			2.167	A	13	86087
			2.167	F	13	86148
			2.333	A	14	86111
			2.333	E	14	86146
	6	86127	2.333	C	14	86123
			2.333	A	14	5501527
			2.500	C	15	86126
			2.500	A	15	5501528
			2.667	A	16	5501526

Models		Drive Gear				Driven Gear	
AT-1202		Number Teeth	Part Number	Ratio	Drive Type	Number Teeth	Part Number
RTO-1157	RT-14710	3	86114	4.000	B	12	86115
RTO-11607L	RTLO-15610B	4	86118	3.500	C	14	86119
RTO-11607LL	RTX-15710	6	86104	2.333	A	14	86108
RTO-11707LL	RTLO-16610B			2.333	B	14	86105
RTO-11707DLL	RTX-16710	6	86122	2.333	A	14	5501527
RTO-13707LL	RT-12513			2.333	C	14	86123
RTO-13707MLL	RT-14613			2.500	C	15	86126
RTO-13707DLL	RTLO-14613B			2.500	A	15	5501528
RTO-1258LL	RTLO-14713A			2.667	A	16	5501526
RT-14608	RTO-14813	6	5501521	2.167	F	13	86148
RTO-14608LL	RT-15613			2.333	E	14	86146
RTO-14708LL	RTO-15813	7	86120	2.429	C	17	86121
RTO-11109-ATE	RTLO-16713A						
RTO-11109-AT	RT-12515						
RTO-11709MLL	RT-14615						
RT-12509	RT-14715						
RTO-13109-ATE	RT-15615						
RTO-13109-AT	RT-15715						
RTO-14109-ATE	RTLO-9118A-MT						
RTO-14109-AT	RTLO-11118A-MT						
RT-14609	RTLO-13118A-MT						
RT-14709	RTO-14618						
RTO-14709MLL	RTLO-14618A						
RTX-16709	RTLO-14718B						
RT-12510	RT-15618						
RT-14610	RTLO-16618						
RTLO-14610A	RTLO-16718B						
RTLO-14610B	RTLO-18718B						

Speedometer - Magnetic

Models	Number Teeth	Rotor Part Number
FS-8206 FSO-8206	6 16	4301984 4300675*
RT-610 RT-6609 RT-6610 RT-8609	6 16	4301545 20783*
T-905 T-11605 2-A-92	6 16	4301545 20783*
FS-3005 FS-3205 FS-4005 FS-4205	16	21555*
FS-5005 FS-5205	1.75” 16 1.96” 16	23485 21558
FS-6106	16	20971*
FS-6005 FS-6105 FS-6205 FS-6305 FS-5106 FS-5306 FS-6206 FS-6306 FS-7206	6 16	4300003 3316160*

* Standard

Models		Number Teeth	Rotor Part Number
T-955AL	T-1056	16	20192*
T-955ALL	T-11606		
TA-4510	T-11607		
	T-14607		
T-8607		16	21130*
RT-906	RT-1110	11 16	20190 20192*
RTO-958LL	RT-11610		
RT-7608LL	RTLO-11610B		
RT-8608LL	RT-11710		
RT-9508	RTLO-12610B		
RT-11608	RT-12710		
RT-11608LL	RTLO-13610B		
RT-11708LL	RT-13610		
RT-9509	RT-9513		
RT-11509	RT-613		
RT-11609	RT-6613		
RT-11709	RT-11613		
RT-12609	RTO-11813		
RT-12709	RTLO-12613B		
RT-13609	RTLO-12713A		
RT-13709	RT-915		
RT-910	RT-11615		
	RT-11715		

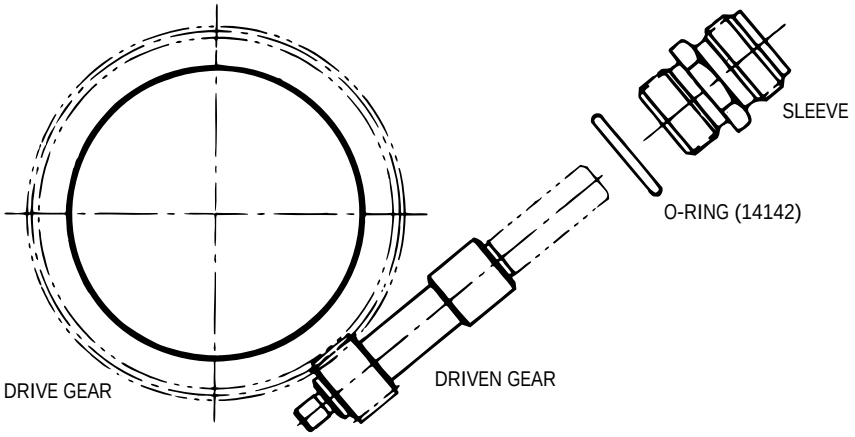
* Standard

Speedometer - Magnetic

Models		Number Teeth	Rotor Part Number
AT-1202		11	20189
RTO-1157	RT-14710		
RTO-11607L	RTLO-15610B		
RTO-11607LL	RTX-15710	16	20191*
RTO-11707LL	RTLO-16610B		
RTO-11707DLL	RTX-16710		
RTO-13707LL	RT-12513		
RTO-13707MLL	RT-14613		
RTO-13707DLL	RTLO-14613B		
RTO-1258LL	RTLO-14713A		
RT-14608	RTO-14813		
RTO-14608LL	RT-15613		
RTO-14708LL	RTO-15813		
RTO-11109-ATE	RTLO-16713A		
RTO-11109-AT	RT-12515		
RTO-11709MLL	RT-14615		
RT-12509	RT-14715		
RTO-13109-ATE	RT-15615		
RTO-13109-AT	RT-15715		
RTO-14109-ATE	RTLO-91118A-MT		
RTO-14109-AT	RTLO-11118A-MT		
RT-14609	RTLO-13118A-MT		
RT-14709	RTO-14618		
RTO-14709MLL	RTLO-14618A		
RTX-16709	RTLO-14718B		
RT-12510	RT-15618		
RT-14610	RTLO-16618		
RTLO-14610A	RTLO-16718B		
RTLO-14610B	RTLO-18718B		

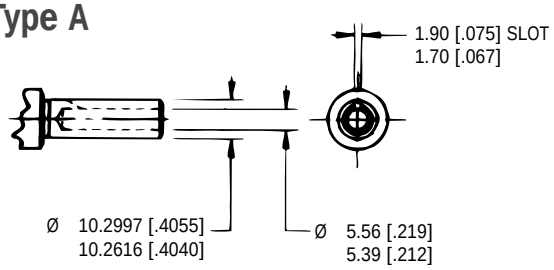
* Standard

Mechanical System



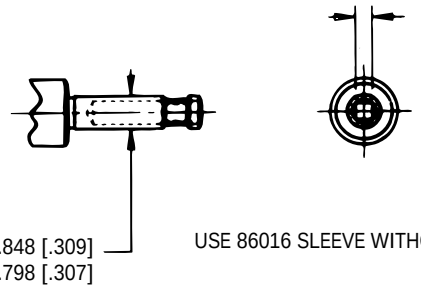
Mechanical Speedometer Drive End Types

Type A



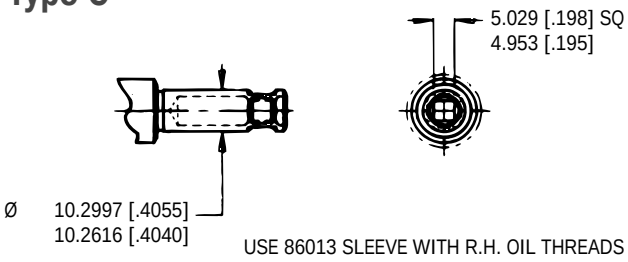
USE 86013 OR 86147 SLEEVE WITH R.H. OIL THREADS
OR A-6425 SLEEVE ASSY WITH OIL SEAL
OR 5501523 DRIVE KEY AND A-6426 SLEEVE ASSY WITH OIL SEAL

Type B



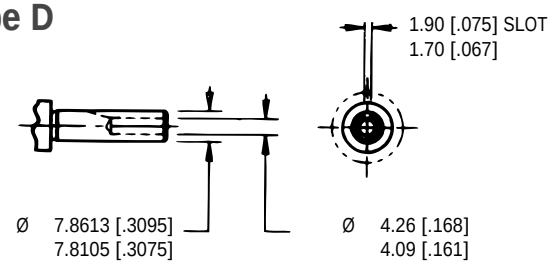
USE 86016 SLEEVE WITHOUT OIL THREADS

Type C



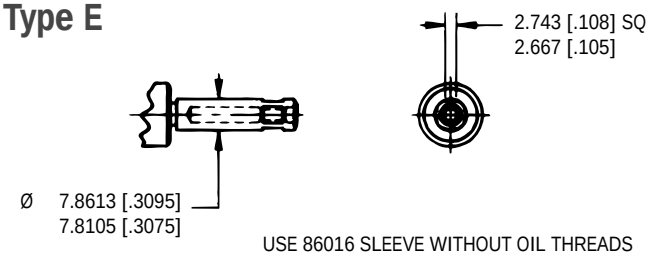
USE 86013 SLEEVE WITH R.H. OIL THREADS

Type D



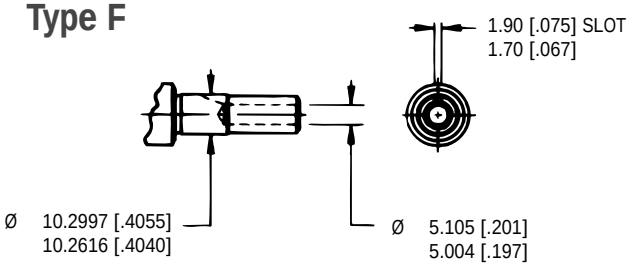
USE 86016 SLEEVE WITHOUT OIL THREADS

Type E



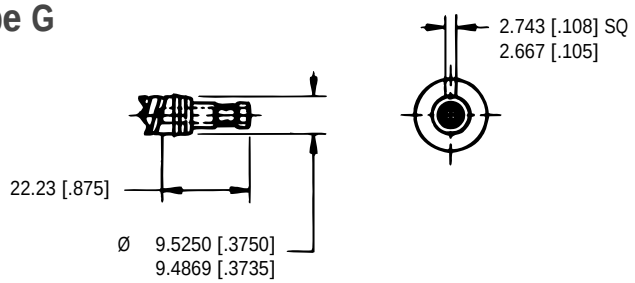
USE 86016 SLEEVE WITHOUT OIL THREADS

Type F



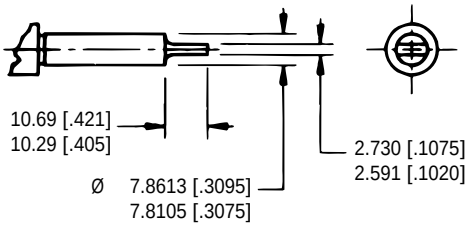
USE 86013 OR 86147 SLEEVE WITH R.H. OIL THREADS

Type G



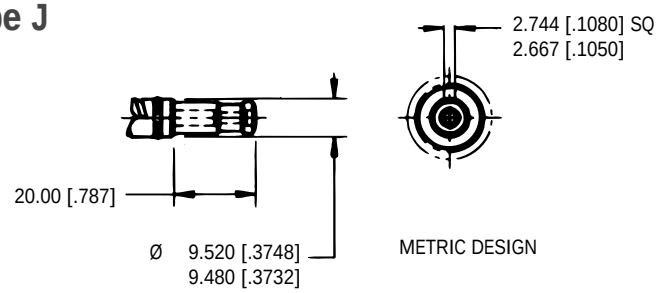
USE 86016 SLEEVE WITHOUT OIL THREADS

Type H



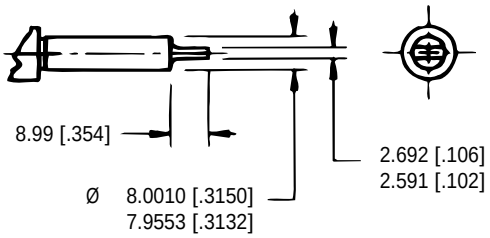
USE 86016 SLEEVE WITHOUT OIL THREADS

Type J



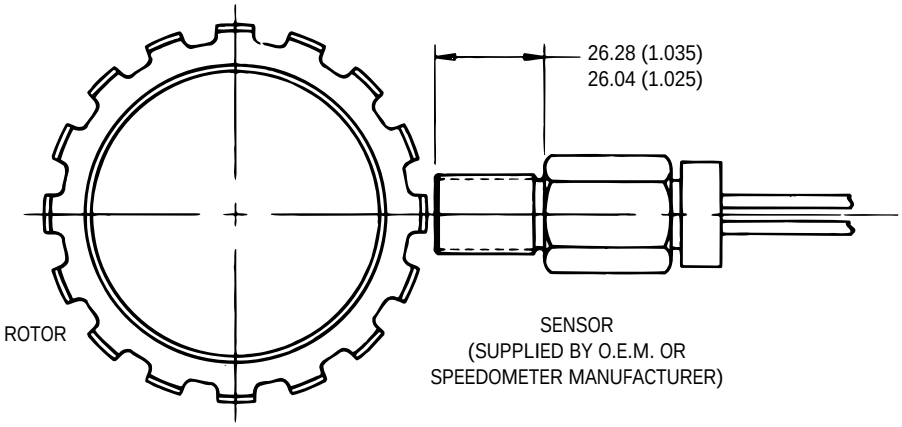
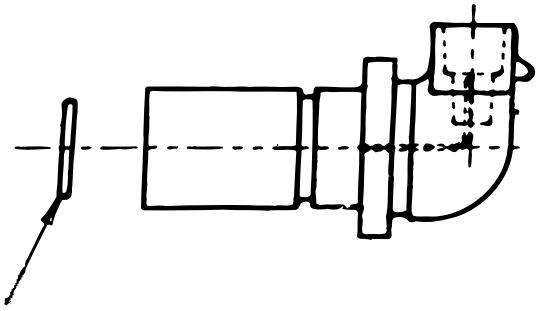
USE 86016 SLEEVE WITHOUT OIL THREADS

Type K



USE 86016 SLEEVE WITHOUT OIL THREADS

Magnetic System



Push-In Type Sensor