

Fastener Tightening Specifications

Application	Specifications	
	Metric	English
Bearing and Shim Retainer Screws	23 N·m	17 lb ft
Control Box to Case Bolts	17 N·m	13 lb ft
Detent Spring Retaining Bolts	25 N·m	18 lb ft
Input/Output Shaft Retaining Nuts	128 N·m	94 lb ft
Rear Cover Bolts	17 N·m	13 lb ft
Reverse Idle Shaft Bolt	38 N·m	28 lb ft
Reverse Shift Bracket Retaining Bolts	17 N·m	13 lb ft
Transaxle Case To Clutch Housing Bolts	38 N·m	28 lb ft
Backup Light Switch	33 N·m	24 lb ft
Clutch Housing Cover Bolt	10 N·m	89 lb in
Shift Cable Cover Bolt	1.4 N·m	12 lb in
Shift Control Box Bolt	17 N·m	13 lb ft
Shift Control Box Nut	24 N·m	18 lb ft
Shift Linkage Retainer Nut	23 N·m	17 lb ft
Shift Retainer Nut	10 N·m	89 lb in
Speedometer/Vehicle Speed Sensor Housing Bolt	9 N·m	80 lb in
Transaxle-to-Engine Mounting Bolts and Stud	90 N·m	66 lb ft
Transaxle Mount Bolt	75 N·m	55 lb ft
Transaxle Mount Through Bolt	60 N·m	44 lb ft
Transaxle Shift Cable Bracket Nut	10 N·m	89 lb in
Transaxle Shift Lever Nut	10 N·m	89 lb in

TRANSLS INFO
MISC.

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Document ID: 106417

Lubrication Specifications

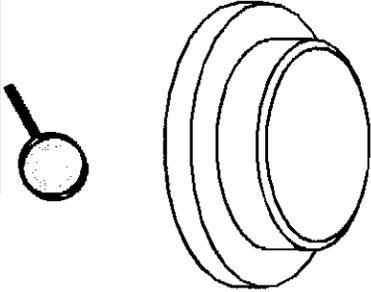
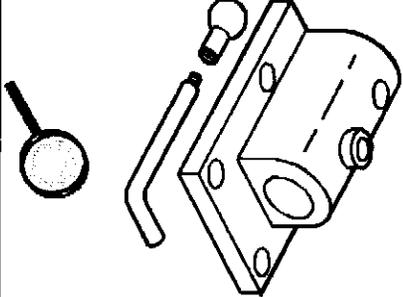
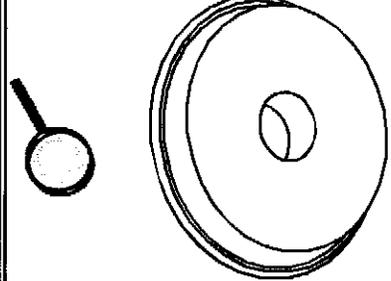
Application	Specification	
	Metric	English
Lube Capacity	1.9 liters	2.01 quarts
Lube Recommended	Manual Transaxle Oil GM P/N 12345349 or Equivalent	

Shim Size Specifications

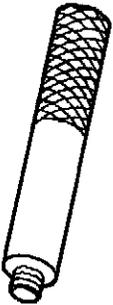
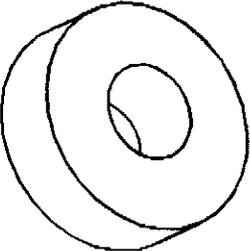
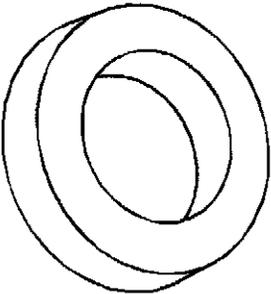
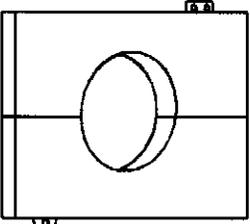
Shim Thickness (mm)	Shim Thickness (in)
1.00	0.0394
1.04	0.0410
1.08	0.0426
1.12	0.0441
1.16	0.0457
1.20	0.0473
1.24	0.0489
1.28	0.0504
1.32	0.0520
1.36	0.0536
1.40	0.0552
1.44	0.0567
1.48	0.0583
1.52	0.0599
1.56	0.0615
1.60	0.0630
1.64	0.0646
1.68	0.0662
1.72	0.0678
1.76	0.0693
1.80	0.0709
1.84	0.0725
1.88	0.0741
1.92	0.0756
1.96	0.0772
2.00	0.0788
2.04	0.0804
2.08	0.0820
2.12	0.0835
2.16	0.0851
2.20	0.0867
2.24	0.0883
2.28	0.0899
2.32	0.0914
2.36	0.0930
2.40	0.0946
2.44	0.0951
2.48	0.0977

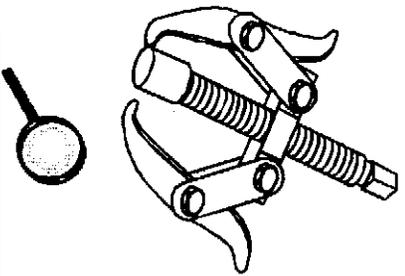
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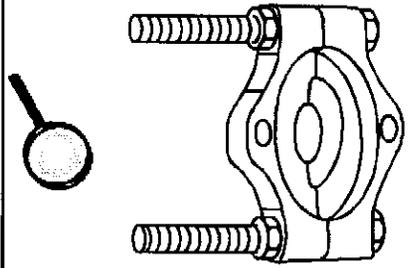
Special Tools

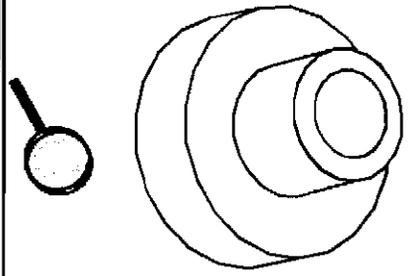
Illustration	Tool Number / Description
	<p>J 2241-11 Pilot</p>
	<p>J 3289-20 Base Plate</p>
	<p>J 7817 Bearing Installer</p>

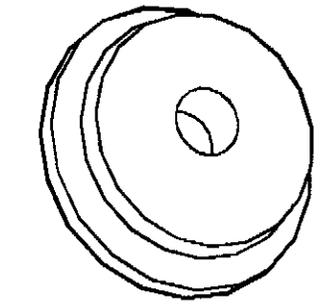
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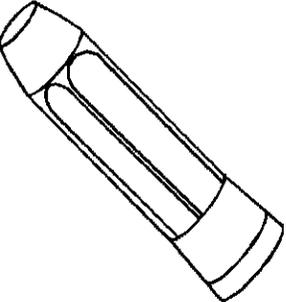
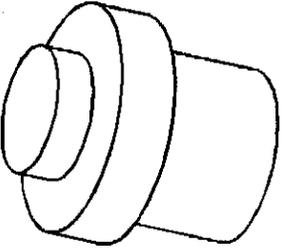
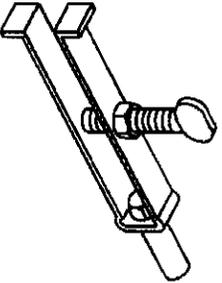
 A cylindrical tool with a threaded end and a knurled grip section.	<p>Driver Handle</p>
 A circular tool with a central hole and a magnifying glass icon.	<p>J 8611-01 Bearing Race Installer</p>
 A circular tool with a central hole and a magnifying glass icon.	<p>J 8853-01 Collar Installer</p>
 A rectangular tool with a central hole and a magnifying glass icon.	<p>J 22227-A Bearing Remover</p>

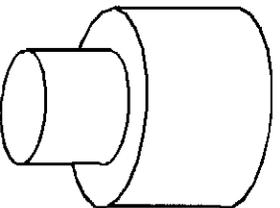
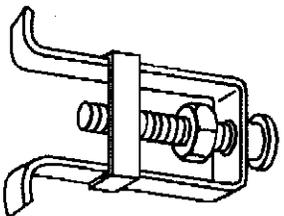
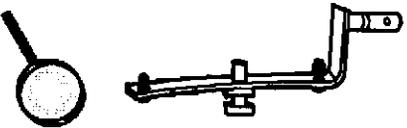
	<p>J 22288 Puller</p>
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	<p>J 22912-01 Split Plate</p>
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	<p>J 22919 Bearing Installer</p>
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	<p>J 24256-A Bearing Race Remover</p>
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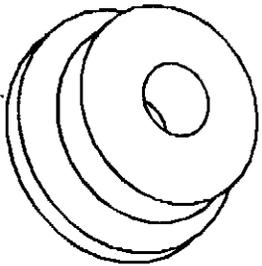
	
 	<p>J 26540 Input Shaft Seal Installer</p>
 	<p>J 26938 Drive Axle Oil Seal Installer</p>
 	<p>J 26941 Puller</p>
	<p>J 33366 Holding Fixture</p>



J 33367
Puller Bridge

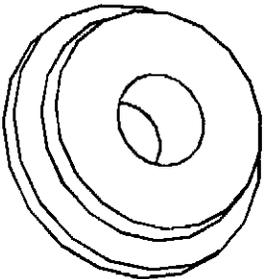
J 33368
Bearing Installer

J 33369
Pilot



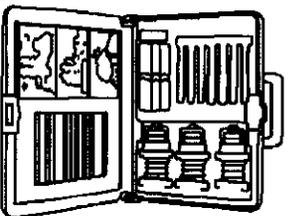
J 33370

Bearing Race Remover



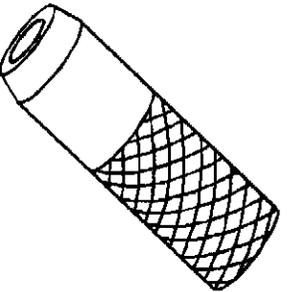
J 33371

Bearing Race Installer

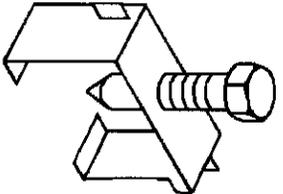
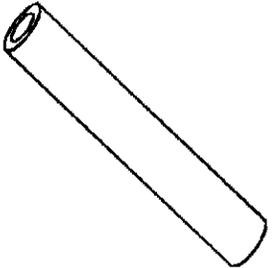
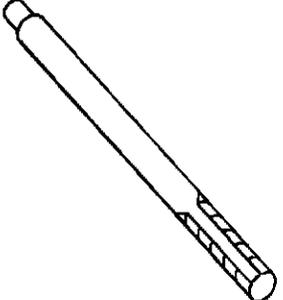
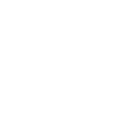


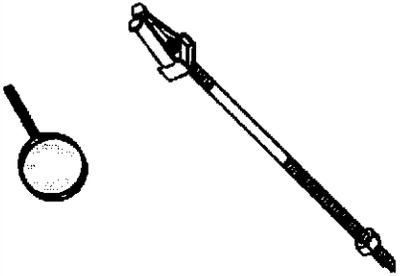
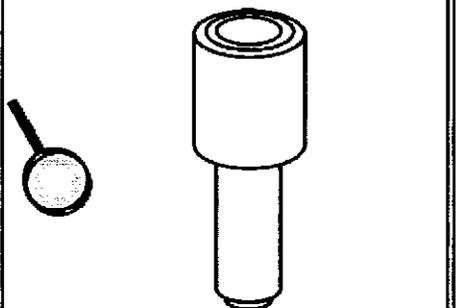
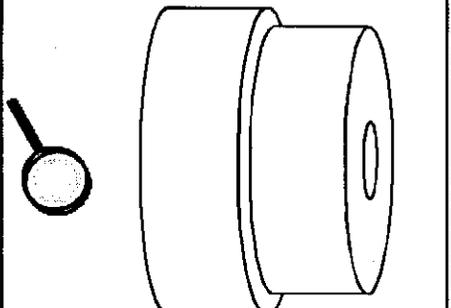
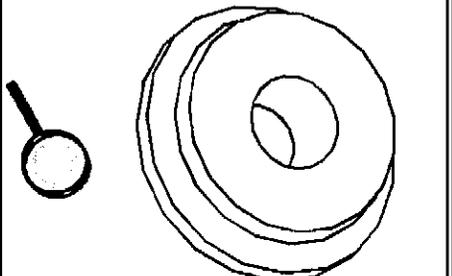
J 33373

Shim Selector



J 33374 Bearing Installer

	
 	<p>J 35274 Gear Puller</p>
 	<p>J 36037 Outer Bushing Installer</p>
 	<p>J 36190 Driver Handle</p>
	<p>J 37158 Bearing Remover</p>

	
	<p>J 37159 Inner Bearing Installer</p>
	<p>J 37245 Bushings Remover</p>
	<p>J 41679 Bearing Race Installer</p>