

***Jaguar  
JT5  
5 Speed  
Installation  
Manual  
for  
Mark II Sedan***

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### ***Shifter Mounting***

The shifter stub supplied allows for direct welding of the factory stick or welding of a bracket to accept the factory stick. Our adapter shifter w/ stick does this. JT5 shifter knobs and sticks are also available.

### ***Speedometer Cable Installation***

The JT5 speedo gear set can be calibrated to match any rear end gear. The fitting supplied can must be re machined to accept the Jaguar right angle gear drive thread. You will also have to grind the square drive to fit into the JT5 speedo gear. The other alternative is to purchase our right angle adapter that solves this problem. The choice is yours.

### ***Drive shaft Installation***

The slip yoke supplied with the JT5 utilizes a standard 13-10 Spicer universal joint. Making a drive shaft with this yoke is an advantage because you make a solid shaft with no slip spline. Calculate the drive shaft length by pushing the slip yoke in the JT5 until it stops and pull it out 3/4". Measure the distance from yoke and rear axle universal joint center lines to determine the length of the drive shaft. You install the JT5 by slipping it on to the shaft in the tunnel rather than trying to bolt flanges together. Average driveshaft center to center U-Joint lengths are 43.5".

### ***Crossmember Notes***

While supporting the engine and transmission with a jack or other device bolt the rubber mount supplied to the transmission then bolt th crossmember to the mount. Jack the transmission up until the crossmember hits the floor. Drill holes thru the floor so that you can bolt the crossmember to the floor with the bolts and plates supplied. You can shim the crossmember lower if you feel it is necessary.

### ***Lubrication***

We recommend DEXTRON II or III oils. Do not use conventional 80w-90w gear lube. Use of any gear lube will ruin the synchro rings and cause lubrication problems.

### ***Backup Light Switch***

The JT5 comes with an integral back up light switch. An adapter harness is supplied to make the hook up easy.

### ***Important Clutch Notes***

Mark II transmissions are supplied with 9.5" clutch discs using a 1" diameter by 23 spline hub or a 1 1/16 diameter 10 spline hub.

The JT5 is fully synchronized in all 5 forward gears. It has a non synchronized reverse gear. All mainshaft gears are on needle bearings and all blocking rings except for 5th gear are of fiber composition with a dual cone design on 1st and 2nd gear. The weight of a JT5 is 75 lbs. These gear sets are rated at 330 Ft. Lbs. static torque.

### ***Gear Ratio Comparison Chart***

<b>Popular JT5 Gear Ratios</b>					<b>Standard Jaguar 4 Speed Ratios</b>				
<i>1st</i>	<i>2nd</i>	<i>3rd</i>	<i>4th</i>	<i>5th</i>	<i>1st</i>	<i>2nd</i>	<i>3rd</i>	<i>4th</i>	<i>OD</i>
3.35	1.99	1.33	1.00	.73	3.37	1.86	1.28	1.00	.78
.40	.33	.24	.27		.45	.31	.22	(percentage drop)	
2.95	1.94	1.34	1.00	.80	2.94	1.90	1.39	1.00	
.34	.30	.25	.20		.35	.27	.28	(percentage drop)	
<i>Other overdrive ratios available</i>									

#### ***Other JT5 Products***

- Heavy Duty Billet Shifter.
- Rebuild Kit ( includes all wearable parts).
- Heavy Duty 10" clutch disc.
- Custom shift knobs and handles.

### ***JT5 for the 6 Cylinder E Type***

Medatronics also manufactures a JT5 for 6 cylinder E Type Jaguars. This 5 speed incorporates the same features as the above transmission but is shorter to fit the 6 cylinder floor. We have noticed that the majority of 5 speed conversion kits require extensive floor modifications. Ours does not. Because this transmission is very short, an electronic speedometer conversion is necessary.

***Thank you for choosing Medatronics and the JT5!***

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Serial Number

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Model Number