

# TRANSMISSIONS MANUAL

**DMR-5023** Stick shift pilot bearing. Knurled for sure fit, self aligning for perfect fit and smooth running and shift. Fits ant GM manual stick transmission crank. Allows GM transmission in Ford cars.



**DMR-5023**

**DMR-5022** Stick shift crankshaft adapter bearing. Adapts any GM automatic crank to a manual stick transmission crank. Knurled for sure fit, self aligning for perfect fit and smooth running and shift. Requires modest shortening of input shaft with common tools or rough drilling of the crank.

**ALL-38070** Solid steel transmission mount. Will fit GM Turbo 350-400 or Powerglide. Use with DMR-5300-SM or DMR-5400-SM when using a full roll cage. Not recommended for street use.

**ENE-3-1108-G** Polyurethane transmission mount for street use. Will fit GM Turbo 350-400 or Powerglide.



**DMR-5022**

**VIC-RG-1660** Ring gear replacement for automatic flexplate or stick flywheel. Is your engine externally balanced with the flywheel or flexplate attached? No need to rebalance. Replace those worn starter ring gears with a new one. Welding required. OD=13.88". ID=12.90". .438" thick. 166 teeth. Fits 330-455 Oldsmobile engines.

**VIC-CF8010** GM clutch release fork service kit. Fits most GM applications 66 to 91 except the following: 85-86 6 cylinder, Diesel and 305-454 C-K pick-ups, 87-92 R and V models with 6 cylinder, Diesel and 305-454 models, 84-92 Firebird & Camaro. Replaces GM part number GM-340278 and GM-4066245.



**ALL-38070**

**VIC-TM297** 1963-1965 Muncie rebuild kit complete, for casting #, 3821704 and 3851325. All M20-M21-M22 with 1.00" diameter cluster pin. Kit includes late style synchronizer rings, small parts kit, all ball & needle bearings, small & large rear seals & bushings, all gaskets, side seals, synchronizer keys with energizer springs & Loctite.

**VIC-TM297A** Same as VIC-TM-297 except fits 1966-1974 Muncie rebuild kit complete, for casting #, 3885010,3925660, and 3925661. All M20-M21-M22 with 1.00" diameter cluster pin.

**DMR-M-22** Muncie 4 speed transmission wide ratio.

**DMR-M-21** Muncie 4 speed transmission close ratio.

**DMR-M-20** Muncie 4 speed transmission "Rock Crusher".

*The following illustration numbers can be locate in the 4-speed drawing.*

<b>VIC-M20-5050</b>	Item 1	.091 Thrust washer use small parts kit
<b>VIC-M20-5051</b>	Item 1A	1.00 Thrust washer use small parts kit
<b>VIC-M20-5050</b>	Item 2	.891 Thrust washer use small parts kit
<b>VIC-M20-5051</b>	Item 2A	1.00 Thrust washer use small parts kit
<b>VIC-M20-5050</b>	Item 3	.891 Thrust washer use small parts kit
<b>VIC-M20-5051</b>	Item 3A	1.00 Needle bearings use small parts kit
<b>VIC-M20-5050</b>	Item 4	.891 Thrust washer use small parts kit
<b>VIC-M20-5051</b>	Item 4A	1.00 Thrust washer use small parts kit

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<b>VIC-M21-8000</b>	Item 5	2.20 Close Cluster gear .875" pin, 27 tooth
<b>VIC-M20-8010</b>	Item 5A	2.56 Wide Cluster gear .875" pin, 29 tooth
<b>VIC-M20-8020</b>	Item 5B	2.52 Wide Cluster gear 1.0" pin, 25 tooth
<b>VIC-M21-8001</b>	Item 5C	2.20 Close Cluster gear 1.0 pin, 27 tooth
<b>VIC-M20-1030</b>	Item 7	Cluster pin .875" diameter 63-65
<b>VIC-M20-1010</b>	Item 7A	Cluster pin 1.0" diameter 66-74
<b>VIC-M20-7000</b>	Item 8	Bolt, retainer 63-67 w/thin casting 5/16-18th-.750 under head
<b>VIC-M20-7001</b>	Item 8A	Bolt, retainer 67-74 w/thick casting 5/15-18th-.875 under head
<b>VIC-M20-7002</b>	Item 9	Lock plate kit-contains 1 ea right & left hand stamped lock
<b>VIC-M20-7003</b>	Item 9A	Lock plate kit w/.750 bolts included
<b>VIC-M20-7004</b>	Item 9B	Lock plate kit w/.875 bolts included
<b>VIC-M20-6000</b>	Item 10	Front retainer, thick design. use .875 long bolt with this retainer
<b>VIC-M20-9055</b>	Item 11	Retainer gasket-use master gasket kit, not sold as individuals
<b>VIC-M20-9090-1</b>	Item 12	M-drive gear nut, 1.375-12L.H. thread
<b>VIC-M20-9080</b>	Item 14	Frnt. bearing std
<b>VIC-M20-9081</b>	Item 14A	Frnt. bearing HD
<b>VIC-M20-2410</b>	Item 17	Main drive gear, 24 tooth, 10 spline 2.56 wide ratio 63-65
<b>VIC-M20-2110</b>	Item 17A	Main drive gear, 21 tooth, 10 spline 2.52 wide ratio 66-71
<b>VIC-M20-2126</b>	Item 17B	Main drive gear, 21 tooth, 26 spline 2.52 wide ratio, 71-74
<b>VIC-M21-2610</b>	Item 17C	Main drive gear, 26 tooth, 10 spline 2.20 close ratio, 63-71
<b>VIC-M21-2626</b>	Item 17D	Main drive gear, 26 tooth, 26 spline 2.20 close ratio 71-74
<b>VIC-M22-2626</b>	Item 17E	Main drive gear, M22, 26 tooth, 26 spline 2.20 close ratio 65-74
<b>VIC-M20-1500</b>	Item 20	Outer synchronizer collar
<b>VIC-M20-1400</b>	Item 21	Synchronizer rings-63-65 first design-thin without step
<b>VIC-M20-1410</b>	Item 21A	Synchronizer rings-66-74 second design-w/thick step
<b>VIC-M20-5000</b>	Item 23	Inner synchronizer hub
<b>VIC-M20-2500</b>	Item 25	3-4 synchronizer assy. 1963-74-replaces 63-65 as a complete assy.
<b>VIC-M20-3000</b>	Item 27	Third gear 27T
<b>VIC-M20-2000</b>	Item 28A	Second gear 30T,M20-M21 Model
<b>VIC-M20-1200</b>	Item 35	1-2 synchronizer assy.
<b>VIC-M20-1001</b>	Item 37	First gear 29T 63 first design 1.656 bore diameter
<b>VIC-M20-1000</b>	Item 37A	First gear 29T-64-67 second design 1.938 bore diameter
<b>VIC-M20-1902</b>	Item 38	Bushing, first gear
<b>VIC-M20-1900</b>	Item 38A	Bushing, first gear, 1.938 id-1.969 OD
<b>VIC-M20-1901</b>	Item 38B	Bushing, first gear

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<b>VIC-M20-9082</b>	Item 40	RR bearing std
<b>VIC-M20-9083</b>	Item 40A	RR bearing HD
<b>VIC-M20-3500</b>	Item 43	Rev. slide gear
<b>VIC-M20-9083</b>	Item 44	Speedo drive gear 8 tooth steel
<b>VIC-M20-1300</b>	Item 45A	Synchronizer key kit contains 3 keys & 2 springs will repair one synchronizer
<b>VIC-M20-2027</b>	Item 46	Mainshaft 63 21.125" long w/27 spline .625" speedometer gear width
<b>VIC-M20-2127</b>	Item 46A	Mainshaft 64-71 21.125" long w/27 spline 1.125 speedometer gear wide
<b>VIC-M20-2727</b>	Item 46B	Mainshaft 65-68 Pont & Olds full size car w/27.5" long & 27 spline
<b>VIC-M22-2232</b>	Item 46C	Mainshaft 21.75" long w/32 spline, M22 & 71-74 H.D. Muncie
<b>VIC-M20-1800</b>	Item 49	18T front reverse idler gear
<b>VIC-M20-1700</b>	Item 50	Rear reverse idler gear
<b>VIC-M20-3505</b>	Item 52	Reverse idler shaft
<b>VIC-M20-9084</b>	Item 55	Bushing ext. housing with 27 spline output shaft-small seal
<b>VIC-M20-9085</b>	Item 55A	Bushing and seal kit with 27 spline output shaft-small seal
<b>VIC-M20-9086</b>	Item 55B	Bushing ext. housing with 32 spline output shaft-large seal
<b>VIC-M20-9087</b>	Item 55C	Bushing and seal kit with 32 spline output shaft-large seal
<b>VIC-M20-9088</b>	Item 56	Seal with 27 spline output shaft-small seal
<b>VIC-M20-9089</b>	Item 56A	Seal with 32 spline output shaft-large seal
<b>VIC-M20-9090</b>	Item 57	Bolt ext. housing to case 7/16-14 1.875 under head
<b>DMR-9091</b>	Item 58A	Speedometer gear plastic 18 tooth brown
<b>DMR-9092</b>	Item 58B	Speedometer gear plastic 19 tooth natural
<b>DMR-9093</b>	Item 58C	Speedometer gear plastic 20 tooth blue
<b>DMR-9094</b>	Item 58D	Speedometer gear plastic 21 tooth red
<b>DMR-9095</b>	Item 58E	Speedometer gear plastic 22 tooth green
<b>DMR-9096</b>	Item 58F	Speedometer gear plastic 23 tooth black
<b>DMR-9097</b>	Item 58G	Speedometer gear plastic 24 tooth yellow
<b>DMR-9098</b>	Item 58H	Speedometer gear plastic 25 tooth orange
<b>VIC-M20-9106</b>	Item 64	Lock washer 5/16, shift lever to shaft: sold in qty's of 10
<b>DMR-9099</b>	Item 65	Seal speedometer drive o-ring 11/16: sold in qty's of 10
<b>VIC-M20-9100</b>	Item 66	Nut 5/16-18 lock: sold in qty's of 10
<b>VIC-M20-9101</b>	Item 67	Washer 11/32x11/16
<b>VIC-M20-9102</b>	Item 68	Seal shift rod also see items 83 & 87
<b>VIC-M20-9103</b>	Item 69	Pin reverse lever 5/32x1/4
<b>VIC-M20-9104</b>	Item 71	Detent ball 3/8
<b>VIC-M20-2200</b>	Item 74	Forks

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<b>VIC-M20-8700</b>	Item 76	Detent cam
<b>VIC-M20-9105</b>	Item 78	Bolt shifter cover to main case 5/16-18x.750 under head
<b>VIC-M20-9101</b>	Item 79	Washer shift lever 11/32x11/16, sold in qty's of 10
<b>VIC-M20-9100</b>	Item 80	Nut shift lever 63-68 5/16-18, also see item 66, sold in qty's of 10
<b>VIC-M20-9105</b>	Item 80A	Bolt shift lever 69-74 5/16-18x.750 under head
<b>VIC-M20-9106</b>	Item 81	Lock washer sold in qty's of 10
<b>VIC-M20-9102</b>	Item 83	Seal shifter rod
<b>VIC-M20-9102</b>	Item 87	Seal shifter rod also see items 83-68

**VIC-M20-9091-1** Muncie transmission input shaft nut adjuster. Heat treated, plated, and closer fit than original.

**VIC-M20-5050** Small parts kit fits 63-65 early Muncie with .875 diameter cluster pin for casting #'s, 3821704 and 3851325. Kit includes: 5 main shaft selective fit snap rings, 2 main drive gear front snap rings, rear bearing to adapter snap ring, mainshaft 3-4 synchronizer to mainshaft snap ring, mainshaft output yoke stop snap ring, 2 countershaft gear front & rear thrust washers, 6 countershaft gear roller bearing thrust washers, 2 reverse idler lock pins (solid & tension), reverse idler front and rear thrust washer, c-shaft cluster pin needle beading & mainshaft needle pilot bearings.

**VIC-M20-5051** Same as VIC-M20-5050 except fits Muncie with 1.00 diameter cluster pin for casting #s 3885010,3925660, and 3925661.

**VIC-FW-70-400** Inertia style flywheel. Fits 330-425 bolt pattern.

**VIC-FW-70-455** Inertia style flywheel. Fits 350-455 bolt pattern.

**DMR-FL-8020** 15# aluminum flywheel to fit 425 bolt pattern with 166 teeth. SFI certified under SPEC 1.1. Internal balanced. Manufactured for high RPM applications from certified billet material. Fits Oldsmobile 330-early400-425.

**DMR-FL-8001** Same as DMR-FL-8020 except 30# steel flywheel.

**DMR-FL-8002** Same as DMR-FL-8001 except 40#. May require bellhousing spacing.

**DMR-FL-8003** Same as DMR-FL-8001 except external balanced.

**DMR-FL-8004** Same as DMR-FL-8002 except external balanced.

**DMR-FL-8021** 15# aluminum flywheel to fit 455 bolt pattern with 166 teeth. SFI certified under SPEC 1.1. Neutral balanced. Manufactured for high RPM applications from certified billet material. Fits Oldsmobile 350-455.

**DMR-FL-8005** Same as DMR-FL-8021 except 30# steel flywheel.

**DMR-FL-8006** Same as DMR-FL-8005 except 40#. May require bellhousing spacing.

**DMR-FL-8007** Same as DMR-FL-8005 except external balanced.

**DMR-FL-8008** Same as DMR-FL-8006 except external balanced.



**DMR-FL-8005**

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