





# FORD CD4E and Mazda LA4AEL (FWD 4 Speed)

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
---	<b>TMCD4E</b>		Technical Manual .....	1993-On
<b>REBUILDER BOX KITS</b>				
---	<b>MRK5400B-S</b> <sup>1,2</sup>		Master Rebuilder Kit (w/o Steels) .....	1993-00
---	<b>MRK5400H-S</b> <sup>2,4</sup>		Master Rebuilder Kit (w/o Steels) ..... <b>High Energy</b> .....	2001-On
---	<b>K5400B-S</b> <sup>1,2</sup>		Master Kit (w/o Steels) .....	1993-00
---	<b>K5400H-S</b> <sup>2,4</sup>		Master Kit (w/o Steels) ..... <b>High Energy</b> .....	2001-On
<b>Steel Plate Sub-Kits:</b>				
---	<b>K5400-9</b> <sup>3</sup>		Steel Plate Kit ..... <b>All</b> .....	1993-On
<sup>1</sup> All Kits are built with "High Energy" direct and coast frictions and the wide 2-4 band. <sup>2</sup> Kits <b>do not</b> include molded rubber pistons or servos, see piston section for more information. <sup>3</sup> Some 1995-On 2.0 Litre units use .118" direct steels, please order <b>(3) 54303A</b> separately. <sup>4</sup> <b>For 2003-On units</b> , please order a Molded Rubber Side Cover Gasket <b>(54172J)</b> separately. <b>2001-On 4WD units</b> utilize a different right axle seal, please order <b>54553H</b> separately.				
<b>OVERHAUL KITS, GASKET SETS AND SEAL KITS</b>				
---	<b>K54900</b> <sup>2,4</sup>		Overhaul Kit .....	1993-On
---	<b>K54900-1</b> <sup>2,4</sup>		Gasket and Rubber Kit .....	1993-On
---	<b>K54900-8</b> <sup>4</sup>		External Seal-Up Kit.....	1993-On
---	<b>K54900-3</b>		Valve Body Gasket Set .....	1993-On
<b>GASKET AND RUBBER COMPONENTS</b>				
1E	<b>54172</b>	1	Side Cover Gasket ..... <b>Duraprene</b> .....	1993-02
1E	<b>54172J</b>	1	Side Cover Gasket ..... <b>Molded Rubber</b> .....	2003-On
2A	<b>54106</b>	1	Case Half Gasket .....	1993-On
3E	<b>54100</b>	1	Pump Lathe Cut Seal .....	1993-On
4E	<b>54101</b>	1	Pump Gasket <b>(1st Design)</b> .....	1993-10/96
4E	<b>54101D</b>	1	Pump Gasket <b>(2nd Design / White Stripe, Use w/2nd Design Pump Plate)</b> .....	11/96-On
5E	<b>54120A</b>	1	Oil Filter Seal (Small) .....	1993-On
6E	<b>54120</b>	1	Oil Filter Seal (Large) .....	1993-On
7E	<b>44141</b>	1	Oil Filler Tube Seal .....	1993-On
---	<b>54125</b>	1	Lube Tube Seal.....	1993-On
<b>METAL CLAD SEALS</b>				
10A	<b>54526</b>	1	Front Pump .....	1993-On
11A/F	<b>53551</b>	1-2	Left and Right Axle ..... <b>2WD</b> .....	1993-On
11A/F	<b>54553H</b>	1	Right Axle ..... <b>4WD</b> .....	2001-On
12E	<b>54507</b>	1	Manual Lever <b>(Top)</b> .....	1993-On
---	<b>54508</b>	1	Manual Lever <b>(Side)</b> .....	1993-On
<b>SEALING RINGS</b>				
---	<b>K54901</b>	1	Sealing Ring Kit .....	1993-On
<b>CLUTCH PLATES</b>				
20C	<b>54321</b>	3-4	Low/Reverse Friction ..... <b>32T, .065" - 8.60" O.D.</b> .....	1993-00
20C	<b>54321H</b>	3	Low/Reverse Friction <b>(High Energy)</b> ..... <b>32T, .065" - 8.60" O.D.</b> .....	2001-On
21C	<b>54322</b>	3-4	Low/Reverse Steel ..... <b>18T, .069" - 7.80" I.D.</b> .....	1993-On
21C	<b>54322A</b>	AR	Low/Reverse Steel ..... <b>18T, .083" - 7.80" I.D.</b> .....	1993-On
21C	<b>54322B</b>	AR	Low/Reverse Steel ..... <b>18T, .091" - 7.80" I.D.</b> .....	1993-On
21C	<b>54322C</b>	AR	Low/Reverse Steel ..... <b>18T, .098" - 7.80" I.D.</b> .....	1993-On
21C	<b>54322D</b>	AR	Low/Reverse Steel ..... <b>18T, .106" - 7.80" I.D.</b> .....	1993-On

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<b>CLUTCH PLATES - Cont'd.</b>				
25C	<b>54304</b>	3	Forward Friction ..... 32T, .065" - 5.27" O.D. ....	1993-00
25C	<b>54304H</b>	3	Forward Friction ( <b>High Energy</b> ) ..... 32T, .065" - 5.27" O.D. ....	2001-On
26C	<b>54305</b>	2-3	Forward Steel ..... 32T, .069" - 4.25" I.D. ....	1993-On
---	<b>54331E</b>	1	Forward Cushion ( <b>Waved</b> ) ..... <b>No Teeth</b> .....	1/9/98-On
28C	<b>54312</b>	1	Forward Clutch Pressure Plate ..... 32T, .156" - 4.25" I.D. ....	1993-1/8/98
28C	<b>54312E</b>	1	Forward Clutch Pressure Plate (Stepped) 32T, .156" - 4.25" I.D. ....	1/9/98-On
30C	<b>54308D</b>	2	Coast Friction ( <b>High Energy</b> ) ..... 24T, .065" - 4.84" O.D. ....	1993-On
31C	<b>54309</b>	2	Coast Steel ..... 20T, .069" - 3.74" I.D. ....	1993-On
32C	<b>54316</b>	1	Coast Pressure Plate ..... 32T, .359" - 5.54" O.D. ....	1993-1/8/98
32C	<b>54316E</b>	1	Coast Pressure Plate ..... 32T, .187" - 5.54" O.D. ....	1/9/98-On
34D	<b>54302C</b>	3-4	Direct Friction ( <b>High Energy</b> ) ..... 24T, .065" - 5.27" O.D. ....	1993-On
35D	<b>54303</b>	3-4	Direct Steel ( <b>4 Cyl. &amp; V6</b> ) ..... 32T, .079" - 4.10" I.D. ....	1993-On
35D	<b>54303A</b>	3	Direct Steel ( <b>Some 4 Cyl.</b> ) ..... 32T, .118" - 4.10" I.D. ....	1995-98
38D	<b>54306</b>	2	Reverse Input Friction ..... 36T, .065" - 6.07" O.D. ....	1993-On
39D	<b>54307</b>	2	Reverse Input Steel ..... 32T, .069" - 4.75" I.D. ....	1993-On
40D	<b>54317</b>	1	Reverse Input Pressure Plate ..... 32T, .157" - 4.75" I.D. ....	1993-On
40D	<b>54317A</b>	1	Reverse Input Pressure Plate ..... 32T, .227" - 4.75" I.D. ....	1993-On
<b>BANDS</b>				
43D	<b>54714B</b>	1	2-4 Band ( <b>2.05" Wide, Replaces 1.65"</b> ) .....	1993-00
43D	<b>54714H</b>	1	2-4 Band ( <b>2.05" Wide</b> ) ..... <b>High Energy</b> .....	2001-On
<b>BUSHINGS</b>				
---	<b>K54980</b>	1	Bushing Assortment Kit ( <b>* Not Included</b> ) .....	1993-On
---	<b>54005*</b>	1	Converter Hub ( <b>Part of Converter</b> ) ..... 1.894" O.D. ....	1993-On
45A	<b>54001</b>	1	Converter Support ..... 1.059" O.D. ....	1993-On
---	<b>54016</b>	1	Differential ( <b>Right</b> ) ..... 1.744" O.D. ....	1993-On
46A	<b>54017</b>	1	Differential ( <b>Left</b> ) ..... 2.185" O.D. ....	1993-On
47A	<b>54015</b>	1	Driven Sprocket ..... 1.302" O.D. ....	1993-On
49A	<b>54002</b>	1	Reverse/Overdrive Planetary ..... 1.886" O.D. ....	1993-On
50C	<b>54006</b>	1	Sun Shell ..... 2.246" O.D. ....	1993-On
51C	<b>54007</b>	1	Forward (Low/Inter.) Planetary ..... 1.815" O.D. ....	1993-On
52C	<b>54009</b>	1	Forward (Low/Inter.) Sun Gear ..... 2.183" O.D. ....	1993-On
53C	<b>54010</b>	1	Turbine Shaft ..... .909" O.D. ....	1993-On
54D	<b>54011</b>	1	Forward / Coast / Direct Drum ..... 1.602" O.D. ....	1993-On
55D	<b>54012</b>	1	Direct Hub/Shell ..... 2.554" O.D. ....	1993-On
56D	<b>54013</b>	1	Reverse Drum ( <b>Front</b> ) ..... 2.177" O.D. ....	1993-On
57D	<b>54014</b>	1	Reverse Drum ( <b>Rear-Flanged</b> ) ..... 2.370" O.D. ....	1993-On
58E	<b>54000</b>	1	Pump Gear ( <b>Inner</b> ) ..... 1.482" O.D. ....	1993-On
---	<b>53003</b>	1	Converter Housing / Case Half ..... 1.549" O.D. ....	1993-On
<b>THRUST WASHERS AND BEARINGS</b>				
---	<b>K54440</b>	1	End-Play Shims ( <b>Adjusts Planet, Drum and Differential Endplay</b> ) .....	1993-On
---	<b>K54941</b>	1	Thrust Bearing Kit ( <b>* Not Included</b> ) .....	1993-On
60A	<b>54403</b>	AR	Differential Bearing Shim ..... .041" .....	1993-On
60A	<b>54403B</b>	AR	Differential Bearing Shim ..... .064" .....	1993-On
60A	<b>54403D</b>	AR	Differential Bearing Shim ..... .087" .....	1993-On
61A	<b>54402</b>	AR	Driven Sprocket Shim ..... .050" .....	1993-On
61A	<b>54402B</b>	AR	Driven Sprocket Shim ..... .064" .....	1993-On
61A	<b>54402D</b>	AR	Driven Sprocket Shim ..... .078" .....	1993-On
61A	<b>54402E</b>	AR	Driven Sprocket Shim ..... .085" .....	1993-On

CD4E

# FORD CD4E and Mazda LA4AEL - Cont'd.

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>THRUST WASHERS AND BEARINGS - Cont'd.</b>				
62B	<b>54401</b>	AR	Drive Sprocket ..... <b>Blue - .058"</b> .....	1993-On
62B	<b>54401A</b>	AR	Drive Sprocket ..... <b>Black - .068"</b> .....	1993-On
62B	<b>54401B</b>	AR	Drive Sprocket ..... <b>Gray - .078"</b> .....	1993-On
62B	<b>54401C</b>	AR	Drive Sprocket ..... <b>Green - .088"</b> .....	1993-On
63D	<b>54400</b>	1	Direct Clutch ..... <b>4 Tabs - 2.750" O.D.</b> .....	1993-On
<b>Bearings :</b>				
70A	<b>54430</b>	1	Differential Carrier to Case .....	1993-On
71A	<b>54429</b>	1	Driven Sprocket to Differential .....	1993-On
72A	<b>54428</b>	1	Driven Sprocket Shim to Driven Sprocket ..... <b>3.120" O.D.</b> .....	1993-On
73A	<b>54433*</b>	1	Driven Sprocket ( <b>Caged</b> ) .....	1993-On
74B	<b>54432*</b>	1	Drive Sprocket ( <b>Caged</b> ) ..... <b>Front - 1.458" O.D.</b> .....	1993-On
75B	<b>54431*</b>	1	Drive Sprocket ( <b>Caged</b> ) ..... <b>Rear</b> .....	1993-On
76B	<b>54427</b>	1	Reverse/Overdrive Carrier to Rev./Overdrive Ring Gear .....	1993-On
---	<b>NSS*</b>	1	Reverse/Overdrive Carrier ( <b>Captured</b> ) .....	1993-On
77C	<b>54425</b>	1	Low/Intermediate Ring Gear to Rev./Overdrive Sun Gear <b>3.022" O.D.</b> .....	1993-On
78C	<b>54424</b>	1	Low/Intermediate Carrier to Ring Gear ..... <b>2.609" O.D.</b> .....	1993-On
79C	<b>54423</b>	1	Low/Intermediate Sun Gear to Carrier ..... <b>2.00" O.D.</b> .....	1993-On
80C	<b>54422</b>	1	Turbine Shaft to Low/Inter. Sun Gear ..... <b>1.75" O.D.</b> .....	1993-On
81E	<b>54420</b>	1	Pump Support to Reverse Drum .....	1993-On
<b>TRANSMISSION OIL FILTERS</b>				
85E	<b>54600</b>	1	Oil Filter ..... <b>Disassembly Required</b> .....	1993-On
<b>PISTONS</b>				
90D	<b>54846</b>	1	Coast Clutch Piston ..... <b>Molded Rubber</b> .....	1993-1/8/98
90D	<b>54846E</b>	1	Coast Clutch Piston ..... <b>Molded Rubber</b> .....	1/9/98-On
91D	<b>54841</b>	1	Forward Clutch Piston ..... <b>Aluminum</b> .....	1993-1/9/98
91D	<b>54841E</b>	1	Forward Clutch Piston ..... <b>Aluminum</b> .....	1/9/98-On
92D	<b>54840</b>	1	Reverse Input Clutch Piston ..... <b>Molded Rubber</b> .....	1993-On
95F	<b>54828</b>	1	2-4 Servo Piston ( <b>Molded Rubber</b> ) ..... <b>2 Grooves, 4.16" - w/Spring</b> .....	1993-On
95F	<b>54828A</b>	1	2-4 Servo Piston ( <b>Molded Rubber</b> ) ..... <b>1 Groove, 4.22" - w/Spring</b> .....	1993-On
95F	<b>54828B</b>	1	2-4 Servo Piston ( <b>Molded Rubber</b> ) ..... <b>No Grooves, 4.26" - w/Spring</b> .....	1993-On
95F	<b>54828D</b>	1	2-4 Servo Piston ( <b>Molded Rubber</b> ) ..... <b>2 Grooves, 4.00" - w/o Spring</b> .....	1/97-4/98
95F	<b>54828DA</b>	1	2-4 Servo Piston ( <b>Molded Rubber</b> ) ..... <b>1 Groove, 4.05" - w/o Spring</b> .....	1/97-4/98
95F	<b>54828DB</b>	1	2-4 Servo Piston ( <b>Molded Rubber</b> ) ..... <b>No Grooves, 4.10" - w/o Spring</b> .....	1/97-4/98
96F	<b>54829</b>	1	2-4 Servo Cover ..... <b>Molded Rubber</b> .....	1993-On
<b>SPRAGS AND ROLLER CLUTCHES</b>				
100B	<b>54813</b>	1	Low Roller Clutch .....	1993-On
100B	<b>K54813</b>	1	Low Roller Clutch (w/Races) .....	1993-On
101C	<b>54814</b>	1	Input (Forward) Sprag ..... <b>.593" Wide</b> .....	1993-1/8/98
101C	<b>54814E</b>	1	Input (Forward) Sprag ..... <b>.543" Wide</b> .....	1/9/98-On
<b>DRIVE CHAINS</b>				
105A	<b>54888</b>	1	Drive Chain (1.4 & Various 2.0 Litre) ..... <b>.750" Wide - 45 Links</b> .....	1993-On
105A	<b>54888A</b>	1	Drive Chain (Various 2.0 and 2.5 Litre) ..... <b>.750" Wide - 46 Links</b> .....	1993-On
105A	<b>54888B</b>	1	Drive Chain (2.5 & 3.0 Litre) ..... <b>1.00" Wide - 46 Links</b> .....	1993-On

# FORD CD4E and Mazda LA4AEL - Cont'd.

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>SHIFT ENHANCEMENTS AND VALVES</b>				
---	<b>K54943</b> <sup>5</sup>	1	Shift Kit ..... <b>TransGo</b> .....	1993-On
---	<b>ST54944</b> <sup>5</sup>	1	Shift Correction Package ..... <b>Superior</b> ..... <sup>5</sup> <b>Corrects/Reduces/Prevents High Line, Broken Parts and Lube Failure.</b>	1993-On
---	<b>K54887</b> <sup>6</sup>	1	Bypass Clutch Control Sleeve and Plunger Valve Kit ( <b>Oversized</b> ) ..... <sup>6</sup> <b>This kit improves TCC apply pressure, reduces planet/bushing failure and addresses Codes 628, 1744 and 1740. It must be used with K54587 Tool Kit.</b>	1993-On
---	<b>K54886</b> <sup>7</sup>	1	Pressure Regulator and Converter Regulator Valve Kit ( <b>Oversized</b> ) ..... <sup>7</sup> <b>This kit eliminates high line pressure (Drum Breakage), increases cooler flow and lube and lowers extremely high converter charge pressure as well as addressing codes 628, 1744 and 1740. It must be used with K54586 Tool Kit.</b>	1993-On
---	<b>K54883</b> <sup>8</sup>	1	Line Modulator Valve Kit ( <b>Oversized</b> ) ..... <sup>8</sup> <b>This kit addresses erratic shift quality, harsh or long 1-2 shift, high line pressure or poor line rise. It must be used with K54583 Tool Kit.</b>	1993-On
<b>ELECTRONIC COMPONENTS</b>				
110E	<b>54879C</b>	1	Solenoid Assembly .... (Includes EPC, TCC, Coast Clutch and Both Shift Solenoids).	1993-On
111E	<b>K54875A</b>	1	Turbine Speed Sensor Kit (TISS) ... <b>White Plastic w/Green Connector.</b> .....	1993-97
			<b>Fits: Ford Probe and Mazda 626</b>	
111E	<b>K54875H</b>	1	Turbine Speed Sensor Kit (TISS) .... <b>White Plastic w/Black Connector.</b> .....	1995-On
			<b>Fits: Contour/Mystique 1995-00, Mazda 626 / MX6 1998-02, Cougar 1999-02, Escape / Tribute / Mariner 2001-On.</b>	
112E	<b>54877</b>	1	Manual Lever Position Sensor ( <b>MLPS</b> ).....	1993-On
113A	<b>54876A</b>	1	Vehicle Speed Sensor (Ford Probe w/2.0 Litre) .....	1994-97
113A	<b>54876B</b>	1	Vehicle Speed Sensor (Ford 2.0 w/o Speedo-Cable Provision, Except Probe) .....	2/95-On
113A	<b>54876C</b>	1	Vehicle Speed Sensor (Ford w/2.5L) .....	2/95-On
---	<b>54876F</b>	1	Output Shaft Speed Sensor ( <b>TOSS</b> ).....	1999-On
<b>MISCELLANEOUS</b>				
114E	<b>M123</b>	2	Cooler Line Case Fitting ( <b>Quick Connect - 5/16" Tube</b> ) .....	1993-11/23/97
115E	<b>54774W</b>	1	Servo Return Spring (Sonnax, Addresses 2-3 Upshift Flare, Soft 1-2 & 2-3) .....	1993-On
---	<b>54701</b>	1	Wiring Harness Bracket ( <b>Sonnax</b> ) .....	1993-On
117F	<b>K54780</b> <sup>9</sup>	1	O-Ringed <b>Low/Reverse</b> Accumulator Piston and Spring Kit .....	1993-On
117F	<b>K54781</b> <sup>9</sup>	1	O-Ringed <b>Forward</b> Accumulator Piston and Spring Kit .....	1993-On
117F	<b>K54782</b> <sup>9</sup>	1	O-Ringed <b>2-4 Clutch</b> Accumulator Piston and Spring Kit .....	1993-On
			<sup>9</sup> <b>Reduces Soft or Harsh Shifts Caused By Accumulator Bore Wear Piston Sticking.</b>	
<b>HARD PARTS</b>				
<b>Note : When ordering Hard Parts, please add the appropriate suffix : (-R) Reman, (-U) Used, (-A) Aftermarket.</b>				
119B	<b>54816</b>	1	Pump Shaft ( <b>14 1/8" Long</b> ) ..... <b>4-Cyl.</b> .....	1993-On
119B	<b>54816B</b>	1	Pump Shaft ( <b>14 7/8" Long</b> ) ..... <b>6-Cyl.</b> .....	1993-On
120B	<b>54831</b>	1	Reverse/Overdrive Planetary .....	1993-On
123C	<b>54810</b>	1	Reverse/Overdrive Sun Shell and Gear .....	1993-On
124C	<b>54859</b>	1	Low/Intermediate Ring Gear .....	1993-On
125C	<b>54833F</b>	1	Low/Intermediate Planetary .....	1993-On
126C	<b>K54814E</b>	1	Input (Forward) Sprag and Sun Gear Kit ( <b>Late Style, Will Retrofit to 1993.</b> ) .....	1/9/98-On
132D	<b>K54761E</b>	1	Forward Clutch Return Spring Assembly .....	1/9/98-On

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<b>HARD PARTS -Cont'd.</b>				
<b>Note : When ordering Hard Parts, please add the appropriate suffix : (-R) Reman, (-U) Used, (-A) Aftermarket.</b>				
133D	<b>54801C</b>	<sup>10, 11</sup> 1	Forward/Coast/Direct Housing (w/4-Cylinder & .118" Thick Direct Steels) .....	1993-1/8/98
133D	<b>54801D</b>	<sup>10</sup> 1	Forward/Coast/Direct Housing (w/V6 & 4 Pack Direct) .....	1993-1/8/98
133D	<b>54801E</b>	<sup>10</sup> 1	Forward/Coast/Direct Housing (w/4-Cylinder ) .....	1/9/98-On
133D	<b>54801F</b>	<sup>10</sup> 1	Forward/Coast/Direct Housing (w/V6) .....	1/9/98-On
<sup>10</sup> If the Drum is broken, always address the high line pressure condition with any or all of the following components: Late Pump/Plate, Valves and/or Shift Kits. <sup>11</sup> If your unit has .079" Direct Steels, please order [3] 54303A Thick Direct Steels.				
137D	<b>54803</b>	1	Direct Clutch Hub/Shell .....	1993-On
138D	<b>54806</b>	1	Reverse Drum .....	1993-On
140E	<b>54812F</b>	1	Stator Support .....	1997-On
141E	<b>K54895</b>	1	Complete Pump Assembly (2nd Design) .....	1993-On
142E	<b>54998E</b>	<sup>12</sup> 1	Pump Plate (2nd Design / Must Use w/2nd Design Pump Gasket - 54101D) .....	1997-On
<sup>12</sup> Will Retrofit to 1993 When Used Together.				
143E	<b>K54965</b>	1	Pump Gear Set (.603") .....	1993-On
150E	<b>15-144</b>	1	Valve Body (Reman) .....	<b>F3 Casting #</b> ..... 1993-96
150E	<b>15-145</b>	1	Valve Body (Reman) .....	<b>F7 Casting #</b> ..... 1997-On

**Notes:**