





# JATCO JF506E / Mazda 5F31J (FWD 5-Speed)

VEHICLE MODEL	YEARS	ENGINE	TRANS. TYPE
Jaguar X-Type	2002-10	2.5 & 3.0 Litre	JF506E
Mazda MPV (Van)	2002-06	3.0 Litre	5F31J / JF506E / JA5A-EL
Mazda 6	2003-05	3.0 Litre	5F31J / JF506E / JA5A-EL
Land Rover Freelander	2002-05	2.5 Litre	JF506E
Rover 75 (Overseas)	2002-On	2.5 Litre	JF506E
VW Jetta	2002-05	1.8 & 2.8 Litre	09A / JF506E
VW GTi	2002-06	1.8 Litre	09A / JF506E
VW Golf	2004-06	1.8 & 2.8 Litre	09A / JF506E

  

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
---	TMJF506E		Technical Manual	2002-On
---	TMJF506EG		Technical Manual (Update)	2002-On
---	TMJF506ER		Technical Manual (Assembly Procedures)	2002-On

  

### MASTER BOX KITS

---	K9300A-S <sup>1</sup>		Master Kit (w/o Steel Plates) ..... Mazda	2002-06
---	K9300B-S <sup>1</sup>		Master Kit (w/o Steel Plates) ..... Volkswagen	2002-06
---	K9300C-S <sup>1</sup>		Master Kit (w/o Steel Plates) ..... Jaguar, Rover, Freelander	2002-On
<b>Steel Plate Sub-Kits:</b>				
---	K9300-9		Steel Plate Kit	2002-On

<sup>1</sup> Kits do not include the molded rubber high clutch retainer, please order **93847** separately.

  

### OVERHAUL KITS, GASKET SETS, SEAL KITS AND COMPONENTS

---	K93900A <sup>1</sup>		Overhaul Kit ..... Mazda	2002-06
---	K93900B <sup>1</sup>		Overhaul Kit ..... Volkswagen	2002-06
---	K93900C <sup>1</sup>		Overhaul Kit ..... Jaguar, Rover, Freelander	2002-On
---	K93900-1 <sup>1</sup>		Gasket and Rubber Kit ..... All	2002-On
---	K93900-3		Valve Body Gasket Set ..... All	2002-On
---	93172	1	Side Cover Gasket ..... Duraprene	2002-On

  

### METAL CLAD SEALS

10C	93526	1	Converter	2002-On
11B	93551	2	Axle ( <b>Mazda</b> )	2002-06
11B	93551A	2	Axle ( <b>Freelander</b> )	2002-05
11B	93551B	2	Axle ( <b>Volkswagen</b> )	2002-06
11B	93551C	1-2	Axle ( <b>Rover 75 and Jaguar w/2WD/AWD, Left Side</b> )	2002-On
11B	93551D	1	Right Axle ( <b>Rover 75 and Jaguar w/AWD, Right Side</b> )	2002-On
12D	85507	1	Manual Lever Seal	2002-On
12D	68504	1	Manual Lever Seal ..... Freelander Lower	2002-On

  

### SEALING RINGS

---	K93901	1	Sealing Ring Kit	2002-On
13A	93203P	2	Direct Clutch ( <b>Plastic</b> )	2002-On
14C	93201T	3	Input Shaft ( <b>Teflon</b> )	2002-On
15C	93200P	2	Low Clutch Support ( <b>Plastic</b> )	2002-On

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ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>SEALING RINGS - Cont'd.</b>				
16B/D	<b>93204T</b>	6	Accumulator Piston (Teflon) .....	2002-On
17E	<b>93202T</b>	3	High/Reverse Clutch (Teflon) .....	2002-On
<b>CLUTCH PLATES</b>				
20A	<b>93308</b>	4	Direct (Countergear) Friction ..... <b>24T, .068" - 4.026" O.D.</b> .....	2002-On
21A	<b>93309</b>	4	Direct (Countergear) Steel ..... <b>24T, .079" - 3.380" I.D.</b> .....	2002-On
23B	<b>87321C</b>	6	Low/Reverse Friction ..... <b>32T, .071" - 5.455" O.D.</b> .....	2002-On
24B	<b>93322</b>	6	Low/Reverse Steel ..... <b>10T, .055" - 5.908" I.D.</b> .....	2002-On
26C	<b>93310</b>	3	2-4 Brake Friction ..... <b>32T, .063" - 7.534" O.D.</b> .....	2002-On
27C	<b>93311</b>	2	2-4 Brake Steel ..... <b>7T, .118" - 6.663" I.D.</b> .....	2002-On
29C	<b>74304E</b>	7	Low (Forward) Friction ..... <b>30T, .068" - 5.426" O.D.</b> .....	2002-On
30C	<b>93305</b>	7	Low (Forward) Steel ..... <b>32T, .055" - 4.814" I.D.</b> .....	2002-On
33D	<b>93306</b>	2	Reverse Friction ..... <b>32T, .060" - 6.141" O.D.</b> .....	2002-On
34D	<b>93307</b>	2	Reverse Steel ..... <b>36T, .078" - 5.614" I.D.</b> .....	2002-On
35D	<b>93315</b>	1	Reverse Pressure Plate ..... <b>36T, .163" - 5.614" I.D.</b> .....	2002-On
35D	<b>93315A</b>	1	Reverse Pressure Plate ..... <b>36T, .140" - 5.614" I.D.</b> .....	2002-On
36E	<b>87302D</b>	5	High Friction ..... <b>24T, .063" - 4.416" O.D.</b> .....	2002-On
37E	<b>93303</b>	4	High Steel ..... <b>18T, .095" - 3.596" I.D.</b> .....	2002-On
37E	<b>93303A</b>	1	High Steel ..... <b>18T, .063" - 3.596" I.D.</b> .....	2002-On
<b>BANDS</b>				
40A	<b>93714</b>	1	Reduction Brake Band .....	2002-On
<b>BUSHINGS</b>				
---	<b>K93980</b>	1	Bushing Assortment Kit .....	2002-On
43C	<b>65010</b>	1	Pump Bushing .....	2002-On
<b>THRUST WASHERS AND BEARINGS</b>				
---	<b>K93941</b>	1	Thrust Bearing Kit .....	2002-On
<b>TRANSMISSION OIL FILTERS</b>				
50B	<b>93600</b> <sup>2</sup>	1	Oil Filter (Disassembly Required) ..... <b>Mazda, Jaguar, Freelander</b> .....	2002-On
50B	<b>93600B</b> <sup>2</sup>	1	Oil Filter (Disassembly Required) ..... <b>Volkswagen</b> .....	2002-06
50B	<b>93600C</b> <sup>2</sup>	1	Oil Filter (Disassembly Required) ..... <b>Rover 75</b> .....	2002-On
<sup>2</sup> Please See Filter Pictures on Page 6.9-2 for Visual Identification.				
<b>MOLDED RUBBER PISTONS</b>				
68E	<b>93847</b>	1	High Clutch Retainer ( <b>Molded Rubber</b> ) .....	2002-On
<b>SPRAGS AND ROLLER CLUTCHES</b>				
70A	<b>93814</b>	1	Reduction Clutch Sprag .....	2002-On
71B	<b>93813</b>	1	Low Roller Clutch .....	2002-On

Jatco JF506E

# JATCO JF506E / 5F31J / JA5A-EL (FWD 5-Speed)

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>SHIFT ENHANCEMENTS AND VALVES</b>				
---	<b>K93887</b>	1	TCC Control Plunger Valve Assembly ( <b>Sonnax</b> ) ..... <b>Addresses: Excessive TCC Slip, Converter Codes, Converter Overheat and Cooler Circuit Oil Loss.</b>	2002-On
---	<b>K93987</b>	1	TCC Regulator Valve and Sleeve Kit ( <b>Sonnax, Oversized</b> ) ..... <b>Addresses: Converter-Related Codes and Complaints, Damaged TCC Lining and Lube Failures. Use w/K93587 Reamer Kit.</b>	2002-On
---	<b>K93989</b>	1	Pressure Regulator Valve Kit ( <b>Sonnax, Oversized</b> ) ..... <b>Addresses: Erratic Line Pressure, Delayed Engagements, Loss of Lockup, Low Line in Drive Range and High Pressure In Reverse. Use w/K93589 Reamer Kit.</b>	2002-On
---	<b>K93884</b>	1	TCC Control Valve and Plunger Assembly ( <b>Sonnax</b> ) ..... <b>This Assembly has been Modified to Create a Shorter and Firmer TCC Apply than the OEM Version. Prevents Premature, Shuttle or Loss of Lockup and Overheating.</b>	2002-On
<b>ELECTRONIC COMPONENTS</b>				
<b><u>Mazda:</u></b>				
---	<b>K93879A</b>	1	Solenoid Kit .....	2002-06
80D	<b>93871</b>	1	Shift Solenoid "A" .....	2002-06
81D	<b>93871A</b>	1	Shift Solenoid "B" .....	2002-06
82D	<b>93871B</b>	1	Shift Solenoid "C" .....	2002-06
83D	<b>93872</b>	1	Reduction Timing Solenoid .....	2002-06
84D	<b>93879</b>	1	Line Pressure Control Solenoid .....	2002-06
85D	<b>93874</b>	1	2-4 Brake Duty Solenoid .....	2002-06
86D	<b>93870</b>	1	T.C.C. Solenoid .....	2002-06
87D	<b>93874</b>	1	High Clutch Timing Solenoid .....	2002-06
88D	<b>93872A</b>	1	Neutral Shift Solenoid .....	2002-06
89D	<b>K93869</b>	1	Internal Wiring Harnesses w/TOT .....	2002-06
---	<b>93875</b>	1	Turbine Speed Sensor ( <b>Internal</b> ) .....	2002-06
---	<b>93875</b>	1	Intermediate Speed Sensor ( <b>Internal</b> ) .....	2002-06
---	<b>93875</b>	1	Output Speed Sensor ( <b>Internal</b> ) .....	2002-06
<b><u>Volkswagen, Jaguar, Freelander &amp; Rover:</u></b>				
---	<b>K93879B</b>	1	Solenoid Kit .....	2002-On
80D	<b>93871J</b>	1	Shift Solenoid "A" .....	2002-On
81D	<b>93871A</b>	1	Shift Solenoid "B" .....	2002-On
82D	<b>93871BJ</b>	1	Shift Solenoid "C" .....	2002-On
83D	<b>93872J</b>	1	Reduction Timing Solenoid .....	2002-On
84D	<b>93879</b>	1	Line Pressure Control Solenoid .....	2002-On
85D	<b>93874B</b>	1	2-4 Brake Duty Solenoid .....	2002-On
86D	<b>93870B</b>	1	T.C.C. Solenoid .....	2002-On
87D	<b>93873B</b>	1	Low Clutch Timing Solenoid .....	2002-On
88D	<b>93872B</b>	1	2-4 Brake Timing Solenoid .....	2002-On
89D	<b>K93869B</b>	1	Internal Wiring Harnesses w/TOT .....	2002-On
---	<b>93875</b>	1	Turbine Speed Sensor ( <b>Internal</b> ) ..... <b>w/2-Pin Connector</b> .....	2002-On
---	<b>93875B</b>	1	Turbine Speed Sensor ( <b>Internal</b> ) ..... <b>w/3-Pin Connector</b> .....	2002-On
---	<b>93875</b>	1	Intermediate Speed Sensor ( <b>Internal</b> ) .....	2002-On
---	<b>93875</b>	1	Output Speed Sensor ( <b>Internal</b> ) .....	2002-On

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ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>HARD PARTS AND MISCELLANEOUS</b>				
<b>Note : When ordering Hard Parts, please add the appropriate suffix : (-R) Reman, (-U) Used, (-A) Aftermarket.</b>				
120C	<b>K93895</b>	1	Front Pump Assembly .....	2002-On
140D	<b>93285</b>	1	Reverse Clutch Snap Ring ( <b>Large</b> ) .....	2002-On
145E	<b>93840</b>	1	Reverse Piston ( <b>Aluminum Updated Design, Commonly Broken</b> ) .....	2002-On
150D	<b>95-110A</b>	1	Reman Valve Body ..... <b>Volkswagen, Jaguar, Rover &amp; Freelander</b> .....	2002-On
150D	<b>30-112</b>	1	Reman Valve Body ..... <b>Mazda MPV</b> .....	2002-06
150D	<b>30-112A</b>	1	Reman Valve Body ..... <b>Mazda 6</b> .....	2003-05

**Notes:**

Jatco JF506E