





**ZF4HP24A** iss 1



iss16/10/00

Please quote the full transmission code when ordering parts

4 speed four wheel drive with lock up.

Audi

**ZF 4HP24A****1043 040**

Illus	Description	Part No.	Illus	Description	Part No
	<b>KITS</b>				
	Overhaul	204 02 02	56	B clutch end steel 144mm x 2.10 x 12T sel (1)	137 12 05
	<b>GASKETS</b>		56	B clutch wavy 1.20mm	178 12 05
	Pan	178 25 01	57	B clutch pressure	183 13 01
2	Converter housing to main case	204 25 02	59	C1 & C clutch friction 148mm x 1.6 x 24T (4)	137 11 03
3	Main case to 1st flange case	204 25 03	60	C1 & C clutch steel 144mm x 2.10 x 12T std (2)	137 12 05
4	1st flange case to 2nd flange case	204 25 01	60	C1 & C clutch steel 144mm x 1.74 x 12T sel (4)	137 12 03
5	2nd flange case to extension housing	204 25 04	61	C clutch pressure (1)	137 13 01
6	Extension housing to rear cover	204 25 05	62	D clutch friction 142mm x 1.60 x 58T (5)	178 11 02
	Valve body seperater	178 25 12	63	D clutch steel sel 144mm x 1.20 x 12T (5)	204 12 02
	<b>RUBBER COMPONENTS</b>		64	D clutch end steel sel 1.50mm selective (1)	204 12 03
7	Pump "O" ring	157 16 05	64	D clutch end steel sel 1.80mm selective (1)	204 12 04
8	Input shaft "O" ring	137 16 02	64	D clutch end steel sel 2.10mm selective (1)	204 12 05
9	"A" clutch outer "O" ring	137 16 07	65	E clutch friction (40 teeth) (4)	178 11 01
10	"A" clutch inner "O" ring	180 16 17	66	E clutch steel 128mm o/d x 1.5 x 24T (5)	178 12 03
11	"B" clutch outer "O" ring	137 16 06	67	E clutch press (flat with inner serations)	178 13 01
12	"B" clutch inner "O" ring	137 16 04	68	E clutch pressure - shaped	178 29 24
13	"B" clutch drum "O" ring	137 16 02	69	F clutch friction (40 teeth) (4)	178 11 01
14	"C1" clutch drum "O" ring	137 16 07	70	F clutch steel 128mm o/d x 2.0 x 24T (4)	178 12 01
15	"C1" clutch inner "O" ring	137 16 08	71	F clutch pressure	178 13 02
16	"C" clutch outer "O" ring	137 16 07		<b>FILTER</b>	
17	"C" clutch inner "O" ring	137 16 08	NI	Pick up	204 27 01
18	"D" clutch outer "O" ring	137 16 07		<b>BUSHES &amp; BEARINGS</b>	
19	"D" clutch inner "O" ring	137 16 09	NI	Front pump body	178 21 01
20	"E" clutch outer "O" ring	137 16 06		<b>THRUST WASHERS</b>	
21	"E" clutch inner "O" ring	178 16 07	76	Input selective thrust kit	178 10 03
22	"F" clutch inner "O" ring	178 16 09	76	Input selective thrust 54.5/32/0.80mm	178 22 03
23	"F" clutch outer "O" ring	178 16 10	76	Input selective thrust 54.5/32/1.00mm	137 22 01
24	Output shaft "O" ring	178 16 14	76	Input selective thrust 54.5/32/1.20mm	178 22 04
25	Output shaft	137 16 02	76	Input selective thrust 54.5/32/1.40mm	178 22 05
26	Differential cover "O" ring	204 16 01	76	Input selective thrust 54.5/32/1.60mm	178 22 06
27	Pinion "O" ring	204 16 02	76	Input selective thrust 54.5/32/1.80mm	178 22 07
28	Diff lock "O" ring	180 16 12	76	Input selective thrust 54.5/32/2.00mm	178 22 08
29	Diff lock "O" ring	213 16 02	76	Input selective thrust 54.5/32/2.20mm	178 22 09
30	Diff lock "O" ring (2)	204 16 03	76	Input selective thrust 54.5/32/2.40mm	178 22 10
NI	Valve body seals (6)	137 20 01	76	Input selective thrust 54.5/32/2.60mm	178 22 11
NI	Valve body seals (Angled) (1)	178 20 01	76	Input selective thrust 54.5/32/2.80mm	
NI	Filter "O" ring	178 16 05	77	Input shaft needle bearing 55/43/2/38 needles )	178 23 05
NI	Electronic harness to case "O" ring	178 16 36		Input shaft race 57.5/40/1 cupped )	
NI	Breather "O" ring	173 16 14	78	A clutch front race 42/22/1 cupped )	
	<b>METAL CLAD SEALS</b>			A clutch needle 37/14/2/26 needles )	178 23 06
31	Pump	137 15 01		A clutch rear plain race 36/14/0.6 flat )	
32	Rear axle output ext seal	213 15 02	79	F clutch front thrust 64/36/0.6 cupped )	
34	Front axle external drive shaft	204 15 01		F clutch brass thrust65/60.5/0.5 cupped )	178 23 07
35	Left hand drive shaft inner	204 15 02		F clutch front needle )	
36	Left hand drive shaft outer	213 15 07		F clutch rear thrust 51.5/34/1 flat )	
37	Differential seal	204 15 03	80	Intermediate shaft front needle )	
38	Right hand output flange seal	213 15 06		Intermediate shaft front race )	178 23 08
39	C&P pinion seal	204 15 04	81	Intermediate shaft rear race )	
NI	Control shaft	137 15 04		Intermediate shaft rear needle )	178 23 09
	<b>SHAFT SEALING RINGS</b>			Intermediate shaft rear race )	
40	Input shaft (2)	157 26 03	82	Spider shaft rear cupped race 54/34/1 cupped )	
42	Sun gear to centre (2)	178 26 02		Spider shaft rear needle49/32/2/38 needles )	178 23 10
43	F clutch cyl to "E" clutch cyl (2)	204 26 01		Spider shaft rear cupped race 48/32.5/1 flat )	
45	Gearset (1)	178 26 06	83	Rear gearset to output shaft race 42/22/1 cupped )	
	<b>CLUTCH PLATES</b>			Rear g/set to o/put shaft 42.5/22.5/2/26 needles )	178 23 11
51	A clutch friction grooved (40 teeth) (6)	178 11 01		Rear gearset to output shaft race 42/22.5/1 flat )	
51	A clutch friction smooth (40 teeth) Alt (6)	204 11 01	84	Rear axle output race	180 22 28
52	A clutch steel 128mm x 2.1 x 24T (6)	178 12 01	85	Rear axle output needle	180 23 02
52	A clutch steel 128mm x 1.5 x 24T (1)	178 12 03			
53	A clutch steel (wavy) (2)	204 12 01			
55	B clutch friction 148mm x 1.6 x 24T (5)	137 11 02			
56	B clutch steel 144mm x 1.74 x 12T std (5)	137 12 03			
56	B clutch end steel 144mm x 1.52 x 12T sel (1)	137 12 04			
56	B clutch end steel 144mm x 1.74 x 12T sel (1)	137 12 03			

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Illus	Description	Part No.	Illus	Description	Part No
86	Differential needle	204 23 01	151	Sun gear & flange	204 65 02
87	Differential race	204 22 01	152	3rd gearset	204 66 04
NI	Gearset planets small	178 22 21	153	3rd ring gear	178 29 21
NI	Gearset planets large	178 22 20	154	3rd ring gear hub & OWC inner	204 44 02
<b>SPRINGS</b>			155	One way clutch assembly inc outer	204 44 03
100	A clutch diaphragm	204 24 01	156	Carrier rear sprag OWC	178 29 50
101	B clutch diaphragm (102mm/44mm)	137 24 02	157	E clutch cylinder	204 29 08
102	C1 clutch diaphragm (103mm/49mm)	137 24 04	158	E clutch piston	178 29 25
103	C clutch diaphragm	137 24 04	159	F clutch cylinder	204 29 10
104	D clutch diaphragm (92mm/52mm)	137 24 05	160	F clutch piston	178 45 05
105	E clutch diaphragm	178 24 01	161	F clutch screws (10)	178 37 03
106	F clutch diaphragm	178 24 05	165	Output shaft 1043 214 091	
NI	Valve body to clutch 29mm long (4)	137 24 07	170	Output speed sensor hub	204 29 11
NI	Valve body to clutch 42mm long (3)	178 24 02	183	Front & rear axle output & pinion race (9)	183 21 12
<b>CIRCLIPS</b>			186	Front & rear axle output & pinion roller bearing (9)	183 21 13
107	A clutch retainer	204 32 01	187	Front & rear axle shim 0.25mm	183 36 58
107A	B clutch retainer sel 1.50mm	132 32 01	187	Front & rear axle shim 0.35mm	183 36 59
107A	B clutch retainer sel 2.00mm	204 32 02	187	Front & rear axle shim 0.35mm	183 36 77
107A	B clutch retainer sel 2.50mm	204 32 03	187	Front & rear axle shim 0.40mm	183 36 78
108	B clutch spring retainer	137 32 02	187	Front & rear axle shim 0.45mm	183 36 79
109	B clutch spring retainer lock tag (4 sided)	137 32 12	187	Front & rear axle shim 0.50mm	183 36 36
110	C1 piston carrier to "B" clutch	137 32 03	187	Front & rear axle shim 0.55mm	183 36 37
111	C1 clutch retainer	137 32 11	187	Front & rear axle shim 0.60mm	183 36 38
112	C1 spring retainer (2 halves)	137 32 09	187	Front & rear axle shim 0.65mm	183 36 39
113	C spring retainer (2 halves)	137 32 09	187	Front & rear axle shim 0.70mm	183 36 40
114	D clutch spring retainer	137 32 05	187	Front & rear axle shim 0.75mm	183 36 41
115	D clutch retainer	137 32 06	187	Front & rear axle shim 0.80mm	183 36 42
116	Forward planet to hollow gear	137 32 07	187	Front & rear axle shim 0.85mm	183 36 43
117	Intermediate planet	178 32 04	187	Front & rear axle shim 0.90mm	183 36 44
118	Rear planetary to hollow gear	137 32 07	187	Front & rear axle shim 0.95mm	183 36 45
119	Intermediate to output shaft	137 32 08	187	Front & rear axle shim 1.00mm	183 36 46
120	3rd gearset snap ring	178 32 05	187	Front & rear axle shim 1.05mm	183 36 47
121	E carrier snap ring	178 32 06	187	Front & rear axle shim 1.10mm	183 36 48
122	Output snap ring	178 32 07	187	Front & rear axle shim 1.15mm	183 36 49
123	E clutch snap ring	178 32 08	187	Front & rear axle shim 1.20mm	183 36 50
124	E clutch retaining collets (2)	178 32 09	187	Front & rear axle shim 1.25mm	183 36 51
125	F clutch snap ring	178 32 08	187	Front & rear axle shim 1.30mm	183 36 52
126	F clutch spring retaining collets (2)	178 32 01	187	Front & rear axle shim 1.35mm	183 36 53
NI	Valve body seal & spring retainer (8)	137 32 10	187	Front & rear axle shim 1.40mm	183 36 54
<b>HARD PARTS</b>			187	Front & rear axle shim 1.45mm	183 36 55
127	Pump assembly without stator support	204 38 02	187	Front & rear axle shim 1.50mm	183 36 56
128	Stator support		187	Front & rear axle shim 1.55mm	183 36 57
129	Input shaft	204 64 02	188	Rear axle output shaft	
130	A clutch cylinder	204 29 01	189	Rear axle spur gears	
131	A clutch piston	204 45 01	190	Rear axle output flange	
132	A clutch hub	204 29 02	191	Rear axle needle bush	
133	A clutch pressure & B clutch hub	204 29 03	192	Front axle spur gear set	
134	B clutch piston	204 45 02	193	Front axle external drive shaft	
135	B clutch cylinder	204 29 04	194	Front axle external drive shaft tube	
136	B clutch support ring	137 29 35	195	Left hand drive shaft bearing	213 21 02
137	C1 centring plate	204 29 05	196	Magnetic ring	183 29 49
138	C1 clutch piston	178 29 12	197	Left hand drive shaft nut	137 34 01
139	C clutch one way clutch assembly	204 44 04	198	Left hand drive shaft tab washer	113 34 01
140	C clutch piston	204 45 03	199	Left hand drive shaft	
141	Centre support	204 29 06	200	Diff outer sel shim 1.60	183 22 43A
NI	Centre support feather keys	137 29 31	200	Diff outer sel shim 1.55	183 22 43B
142	D clutch piston	204 45 04	200	Diff outer sel shim 1.50	183 22 43C
143	D clutch support ring	178 29 10	200	Diff outer sel shim 1.45	183 22 43D
144	Sun shaft	204 65 01	200	Diff outer sel shim 1.40	183 22 43E
145	1st gearset & one way clutch assembly	204 66 01	200	Diff outer sel shim 1.35	183 22 43F
146	1st ring gear	178 29 16	200	Diff outer sel shim 1.30	183 22 43G
147	2nd gearset	204 66 02	200	Diff outer sel shim 1.25	183 22 43H
148	2nd ring gear	137 29 22	200	Diff outer sel shim 1.20	183 22 43J
149	Intermediate shaft	204 29 07	200	Diff outer sel shim 1.15	183 22 43K
150	Spider shaft	178 29 54			



