				Hyper's Rebuild on BimmerForums for 1997 BMW 840ci ZF 8054 991 128										Barry's e9 Order								Suggested Basic Order							
				Inches				Millimeters							Millimeters									Millimeters							
					Radial		Axial		Radial		Axial					Radial		Axial							Radial		Axial			
Item	Qty	Location of Use	Material	ID	Width	OD	Thickness	ID	Width	OD	Thickness	BMW Part Number	Parts Book Page	#	Qty	ID	Width	OD	Thickness					Qty	ID	Width	OD	Thickness			
	1	Protection Cap	NBR									32 13 1 104 838	32 | 4	11		Reused								Reused						
Radial Seal	1	Input Shaft Seal	NBR	0.709	0.236	1.181	0.276	18.00	6.00	30.00	7.00	32 13 1 104 834	32 | 4	7	1	18.00	6.00	30.00	7.00					1	18.00	6.00	30.00	7.00			
Radial Band	1	Input Shaft**	White	1.012	0.068	1.148	0.074	25.70	1.73	29.16	1.88																				
O Ring	3	Input Shaft	NBR	1.770	0.056	1.882	0.056	44.96	1.42	47.80	1.42	32 13 1 104 790	32 | 4	1		Reused								Reused						
Radial Band	3	Input Shaft	White	1.928	0.047	2.022	0.074	48.97	1.19	51.36	1.88	32 13 1 104 789	32 | 4	2		Reused								Reused						
O Ring	1	Output Cover	NBR	2.849	0.118	3.085	0.118	72.36	3.00	78.36	3.00	32 13 1 104 785	32 | 5	6	1	72.69	2.62	77.93	2.62					1	70.00	2.62	75.24	2.62			
Radial Seal		Upper Rack Shaft*		0.669	0.217	1.102	0.276	17.00	5.50	28.00	7.00	32 13 1 104 783	32 | 5	5	1	17.00	5.50	28.00	7.00					1	17.00	5.50	28.00	7.00			
Radial Seal		Lower Rack Shaft		1.102	0.197	1.575	0.276	28.00	5.00	40.00	7.00	32 13 1 104 784	32 | 5	4	1	28.00	5.00	40.00	7.00					1	28.00	5.00	40.00	7.00			
Radial Band	1	Intermediate Housing, Inside	White	2.028	0.068	2.164	0.074	51.51	1.73	54.97	1.88	32 13 1 104 865	32 | 6	12		Reused								Reused						
O Ring	1	Intermediate Housing, Inside	NBR	2.168	0.056	2.28	0.056	55.07	1.42	57.91	1.42	32 13 1 104 864	32 | 6	13	1	66.35	2.62	71.59	2.62					1	64.00	2.62	69.24	2.62			
O Ring	4	Intermediate Housing	NBR	0.298	0.056	0.41	0.056	7.57	1.42	10.41	1.42	32 13 1 104 838	32 | 6	8	4	7.00	1.50	10.00	1.50					4	7.00	1.50	10.00	1.50			
O Ring	2	Input Shaft Check Valve Cover**	NBR	0.659	0.04	0.739	0.040	16.74	1.02	18.77	1.02	32 13 1 104 839	32 | 6	16	2	10.00	1.50	13.00	1.50					2	10.00	1.50	13.00	1.50			
O Ring	2	Intermediate Housing Outside	NBR	2.352	0.078	2.508	0.078	59.74	1.98	63.70	1.98	32 13 1 104 840	32 | 6	10	1	67.95	2.62	73.19	2.62					1	65.00	2.62	70.24	2.62			
O Ring	1	Rack	NBR	2.168	0.056	2.28	0.056	55.07	1.42	57.91	1.42	32 13 1 104 804	32 | 7	7	1	64.77	2.62	70.01						1	62.00	2.62	67.24	62.00			
Radial Band	1	Rack	White	2.362	0.128	2.618	0.068	59.99	3.25	66.50	1.73	32 13 1 104 803	32 | 7	8		Reused								Reused						
Radial Band	1	Ball Recirculation Cap	White	1.513	0.046	1.605	0.091	38.43	1.17	40.77	2.31	32 13 1 104 262	32 | 7	9		Reused								Reused						

*Profiled

** Not seen on Early ZF's In Notch just above Spiral?

***Later design is different here