



ENGINE VALVE ROTOCOIL

The function of a rotocoil is to rotate the valve on each open and close cycle. By rotating the valve, it prevents excessive carbon build up and the valve wears uniformly preventing loss of compression.

Rotocoil rotating the valves result in:

- Uniform heat distribution
- Uniform wear of the valves and seats
- Cleans deposits out from between the valve and seat
- Helps keep the valve from overheating

When valves stop rotating it can result in:

- Deposits being trapped between the valve and seat
- Overheating, weakening, and failure of the valve
- Creates hot spots on the valve face
- Loss of compression
- Accelerated guide and valve wear
- Valves sticking in the guides
- Broken Valves

Most OE manufacturers do not recommend reusing rotocoils. Turning a rotocoil by hand is no indication of its functionality. Most new rotocoils will not turn freely or smoothly when turned by hand. Rotocoils should be replaced when an engine is overhauled.

ROTOCOIL

Engine Model	Part No.	Description	Lock Keeper	Application
3204	9N0187	ROTOCOIL ASSEM.	2A4429	943
3304, 3304B, 3306	1W5300	ROTOCOIL AS	2A4429	120B, 120G, 12G, 12H, 12H ES, 12H NA, 130G, 140B, 140G, 140H, 140H ES, 140H NA, 143H, 14G, 14H NA, 160G, 160H, 160H ES, 160H NA, 163H NA, 1673C, 215, 215B, 215C, 235, 235B, 330, 330 L,
3304, 3304B, 3306, 3306B, G3306	8N7782	ROTOCOIL AS	2A4429	120G, 12G, 130G, 140B, 140G, 14G, 225, 235, 330 L, 330B, 518, 528, 572G, 637D, 815B, 920, 930, 936F, 950, 950B, 951B, 955L, 963, 966C, 966D, 966R, 977L, D4E, D4E SR, D5B, D5H
3304, 3306C	1031800	ROTOCOIL AS	2A4429	3304, 3306C
3406, 3406B, 3406C, 3408, 3408B, 3408C, 3408E, 3412, 3412C, 3412E	6N7154	ROTOCOIL AS	2A4429	16G, 245, 24H, 5110B, 589, 621, 621B, 621F, 623E, 623F, 627B, 627E, 627F, 631D, 631E, 631G, 633E II, 637D, 637E, 637G, 651E, 657E
3406B, 3406C	4W2474	ROTOCOIL AS	2A4429	16G, 16H NA, 375, 375 L, 5080, 578, 583R, 587R, 621E, 621F, 623E, 623F, 627E, 627F, 814B, 824G, 825G, 826G, 980C, 980F, 980G, D350E, D400E, D8N, D8R, D8R II, HT400, PM-465, RM-250C
3406B, 3406C	9Y3329	ROTOCOIL AS	2A4429	3406B, 3406C

* Other part no. not included in the list are available. Please contact your sales representative if you have any questions. Part Numbers are used for reference purposes only.

ROTOCOIL - CONT.

Engine Model	Part No.	Description	Lock Keeper	Application
3406E, 3456, C-15, C-16	4P4962	ROTOCOIL AS	2A4429	D350E II, D400E II, R2900
3408, 3408B, 3408C, 3412, 3412C, 3412D, 3516B, G3406, G3408, G3408B, G3412, G3412C	6N7175	ROTOCOIL ASSEMBLY	2A4429	589, 631E, 637D, 637E, 651E, 657E, 769C, 771C, 773B, 775B, 834B, 988B, 988F, 990, 992C, 992D, D10N, D9N, D9R, PM-565
3408E, 3412E	1376500	ROTOCOIL AS	2A4429	24H, 5110B, 631D, 631E, 631G, 633E II, 637E, 637G, 651E, 657E, 69D, 769C, 769D, 771D, 773B, 773D, 773E, 775B, 775D, 775E, 834B, 836, 844, 988B, 988F II, 990, 990 II, 992C, AD40, AD45
3508, 3508B, 3508C, 3512, 3512B, 3512C, 3516, 3516B, 3516C	1977062	ROTOCOIL AS	2A4429	5130B, 5230, 5230B, 776C, 776D, 777, 777B, 777C, 777D, 784C, 785, 785B, 785C, 785D, 789B, 789C, 793B, 793C, 793D, 797, 797B, 854G, 992G, 994
3508, 3508B, 3508C, 3512, 3512B, 3512C, 3516, 3516B, 3516C	1977063	ROTOCOIL AS	1977055	5130B, 5230, 5230B, 776C, 776D, 777, 777B, 777C, 777D, 784C, 785, 785B, 785C, 785D, 789B, 789C, 793B, 793C, 793D, 797, 797B, 854G, 992G, 994
3508, 3508B, 3508C, 3512, 3512B, 3512C, 3516, 3516B, 3516C	3165978	ROTOCOIL AS	2A4429	5130B, 5230, 5230B, 776C, 776D, 777, 777B, 777C, 777D, 784C, 785, 785B, 785C, 785D, 789, 789B, 789C, 789D, 793B, 793C, 793D, 797, 797B, 854G
3508, 3508B, 3508C, 3512, 3512B, 3512C, 3516, 3516B, 3516C	3165979	ROTOCOIL AS	1977055	5130B, 5230, 5230B, 776C, 776D, 777, 777B, 777C, 777D, 784C, 785, 785B, 785C, 785D, 789, 789B, 789C, 789D, 793B, 793C, 793D, 797, 797B, 854G
3508, 3508B, 3508C, 3512, 3512B, 3516, 3516B, G3508, G3508B, G3512	1976999	ROTOCOIL AS	2A4429	5130B, 5230, 5230B, 776C, 776D, 777, 777D, 784C, 785, 785B, 785C, 789B, 789C, 793B, 793C, 797, 797B, 854G, 992G, 994, 994D, D11R
3508, 3508B, 3512, 3512B, 3516, 3516B, 5130, 5130B, 5230, 5230B	1333814	ROTOCOIL AS	2A4429	776C, 776D, 777, 777D, 784B, 785, 785B, 785C, 789B, 789C, 793B, 793C, 854G, 992G, 994, 994D, D11N, D11R, G3508, G3512, G3516, G3516B
C10, 3176, 3176B, 3176C, 3196,	6I2663	ROTOCOIL AS	2A4429	140H, 143H, 14H, 160H, 163H, 16H, 345B, 345B II, 345B II MH, 345B L, 365B, 365B II, 365B L, 480, 572R II, 65E, 725, 730, 75C, 75D, 75E, 814F, 815F, 816F, 85C, 85D, 85E, 95E
C15, C18	1862001	ROTOCOIL AS	2A4429	24M, 3406E, 3456, 365C, 365C L, 365C L MH, 374D L, 374F L, 385B, 385C, 385C FS, 385C L, 385C L MH, 390D, 390D L, 390F L, 5090B, 583T, 587T, 621B, 621G, 621H, 621K, 623G, 627F, 627G, 631D, 631E, 631G, 633E II, 637
D333B, G3306	3S0461	ROTOCOIL	2A4429	12E, 1673B, 951B, 955H, 955K, 977H, 977K, D320A, D4D
D342, D342C, D353C, D364, D375D, D379, D379A, D397D, D398, D398A, G353D, G379, G398	7F7666	ROTOCAP	3B1143	D8H, D9E, D9G,
D343, G343	4N6761	ROTOCOIL ASSEM.	2A4429	16, 1693, 631C, 657B, 666, 768B, 769, 824B, 825B, 826B, 834, 983
D346, D348, D349	2S2813	ROTOCOIL ASSEM.	2A4429	641B, 650B, 772, 777, 992, D10
D379B, D398B, D399, G342C, G379, G398, G399	7N7639	ROTATOR	3B1142	D8K, D9H
G3512E, G3516C, G3516E, G3520C, G3520E	2182935	ROTOCOIL AS	2A4429	PMG3516

OIL SHIELDS

Engine Model	Part No.	Description	Application
3408E, 3412E	1376501	SHIELD-OIL	24H, 5110B, 631D, 631E, 631G, 633E II, 637E, 637G, 651E, 657E, 769C, 769D, 771D, 773B, 773D, 773E, 775B, 775D, 775E, 834B, 836, 844, 988B, 988F II, 990, 990 II, 992C, C30, C32, D10N
3508, 3508B, 3508C, 3512, 3512B, 3512C, 3516, 3516B, 3516C	2348776	SHIELD-OIL	3508, 3508B, 3508C, 3512, 3512B, 3512C, 3516, 3516B, 3516C
3176B, 3176C, 3196,	6I2662	SHIELD	140H, 143H, 14H, 160H, 163H, 16H, 345B, 345B II, 345B II MH, 345B L, 365B, 365B II, 365B L, 480, 572R II, 65E, 725, 730, 75C, 75D, 75E, 814F, 815F, 816F, 85C, 85D, 85E, 95E, 966G I
3304, 3304B, 3306, 3306B	6N7174	SHIELD-OIL	120B, 120G, 12G, 12H, 12H ES, 12H NA, 130G, 140B, 140G, 140H, 140H ES, 140H NA, 143H, 14G, 14H NA, 160G, 160H, 160H ES, 160H NA, 163H NA, 1673C, 215C, 235, 235B, 330, 330 L
3176, 3176C	7E7978	SHIELD	14M, 16M, 345C, 345C L, 345C MH, 345D, 345D L, 345D L VG, 349D, 349D L, 349E, 349E L, 349E L HVG, 349E L VG, 349F L, 621H, 621K, 623H, 623K, 623K LRC, 627H, 627K, 627K LRC, 725, 730, 730C
D379B, G399	8N7780	SHIELD-OIL	12G, 920, 941, D4E, D5B

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