

BRP-Powertrain
MAINTENANCE MANUAL

Points of Inspection	Interval Operating hours		Chapter Reference	Signature
	as indicated	100 hr.		
8.) Checking the carburetor				
Checking the idle speed.		X	12-20-00 sec. 12.3.1)	
Checking the ventilation of the float chambers. Any trouble with the float chamber ventilation impairs engine and carburetor function and must therefore be avoided. Check that the passage of the ventilation lines is free and that no kinks can arise.	every 200 hr.			
Check for free movement of the carburetor actuation (throttle lever and starting carburetor). Check that the bowden cable allows the full travel of the throttle lever from stop to stop.		X	12-20-00 sec. 12.6)	
Removal/assembly of the two carburetors and carburetor inspection.	every 200 hr.		Heavy MM 73-00-00 sec. 3)	
Check carburetor synchronization. Mechanical or pneumatic synchronization.		X	12-20-00 sec. 12.1)	
Inspect the float weight	every 200 h (and/or annual inspection)		12-20-00 sec. 12.4.1)	
9.) Inspecting carburetor sockets and drip tray				
Inspect the carburetor sockets for damage and abnormalities, checking for cracks, wear and good condition. Take note of changes caused by temperature influence. (¹ See SB-914-019 - latest edition.	every 200 hr. (¹)		Heavy MM 73-00-00 sec. 3.4.3)	
10.) Spark plug connectors				
Check that resistance spark plug connectors fit tightly on the spark plugs. Minimum pull-off force is 30 N (7 lb).	every 200 hr.			
11.) Spark plugs				
Remove all spark plugs, check the heat range designation, clean, check electrode gap and adjust if necessary. Check electrode gap and adjust as necessary. Replace as required.		X	12-20-00 sec. 16.2)	
Replace spark plugs.	every 200 h	X(¹)	12-20-00 sec. 16.2)	
(¹ use of leaded fuel more than 30% of operation.				

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Engine Type description	engine affected engine S/N	TBO Time Between Overhaul	SB to be carried out to increase TBO ⁽¹⁾
914 F	from 4,420.001 to 4,420.313	1000 hr. or 10 years, whichever comes first ⁽¹⁾	SB-914-027 1000 hr. to 1200 hr. i.e. 10 to 12 years, whichever comes first ⁽¹⁾
914 F	from 4,420.314 up to and incl. 4,420.908	1200 hr. or 12 years, whichever comes first ⁽¹⁾	SB-914-039 1200 hr. to 2000 hr. i.e. 12 to 15 years, whichever comes first ⁽¹⁾
914 F	from 4,420.909	2000 hr. or 15 years, whichever comes first ⁽¹⁾	None
914 UL	from 4,417.501 up to and incl. 4,418.103	1000 hr. or 10 years, whichever comes first ⁽¹⁾	SB-914-027UL 1000 hr. to 1200 hr. i.e. 10 to 12 years, whichever comes first ⁽¹⁾
914 UL	from 4,418.104 up to and incl. 6,773.778	1200 hr. or 12 years, whichever comes first ⁽¹⁾	SB-914-039UL 1200 hr. to 2000 hr. i.e. 12 to 15 years, whichever comes first ⁽¹⁾
914 UL	from 6,773.779	2000 hr. or 15 years, whichever comes first ⁽¹⁾	None

For the TBO of the specific engine type/version refer to the table below.

⁽¹⁾ Extension of the TBO is possible and will be specified by a Service Bulletin (SB) for the respective engine type. For extensions already effective refer to the engine log book or release certificate.

BRP-Rotax

Maintenance Manual

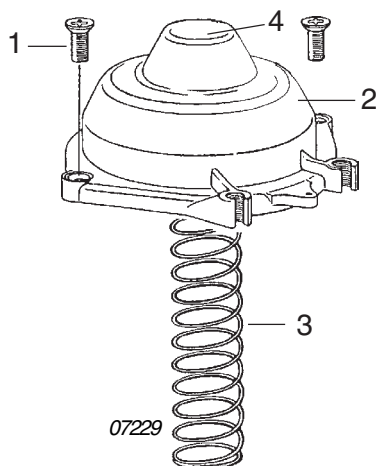


Fig. 73-15

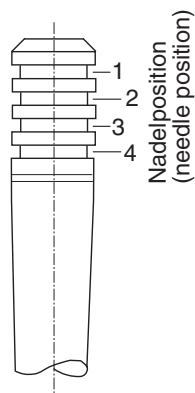


Fig. 73-15/1

Carburetor calibration		
912 A/F/UL	Target	
	Carburetor 1/3	Carburetor 2/4
Needle	2,72	2,72
Idle jet	35	35
Main jet ⁴⁾	155 or 158	155 or 158
Start jet ¹⁾	85	85
Needle position ³⁾	3	3
912 S/ULS/ULSFR	Target	
	Carburetor 1/3	Carburetor 2/4
Needle	2,70	2,70
Idle jet	35	35
Main jet	155	155
Start jet ¹⁾	85	85
Needle position ³⁾	3	3
914 F/UL	Target	
	Carburetor 1/3	Carburetor 2/4
Needle	2,72	2,72
Idle jet	35	35
Main jet ²⁾	156 or 160	158 or 164
Start jet ¹⁾	85	85
Needle position ³⁾	1 or 2	2

Fig. 73-15/2

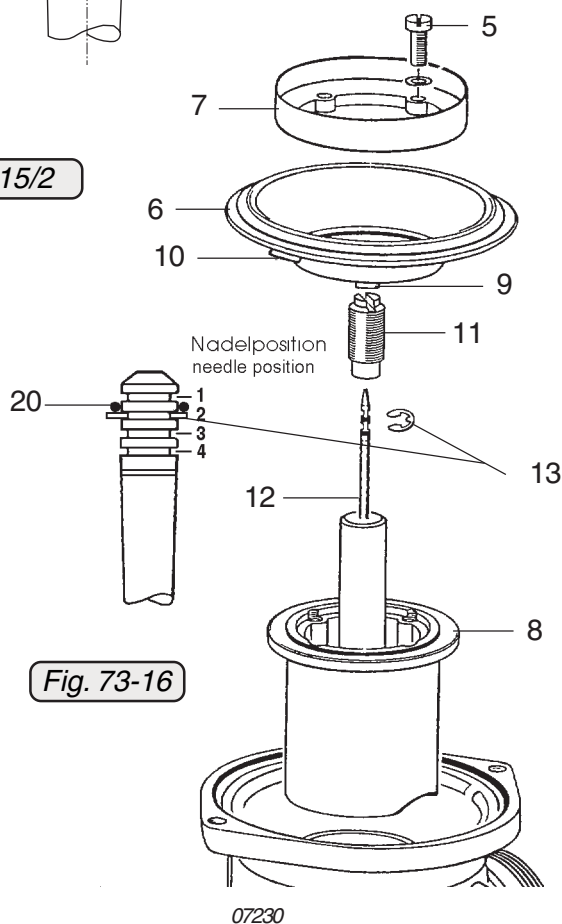


Fig. 73-16

- 1) See SI-03-1998, latest version.
- 2) Depending on the airbox version. See SI-914-013 and SI-914-015, latest version.
- 3) Depending on CO measurement value and specific fuel consumption. See SI-914-013 and SI-914-015, latest version.
- 4) On configuration with air filter. See SB-912-044, latest version.

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