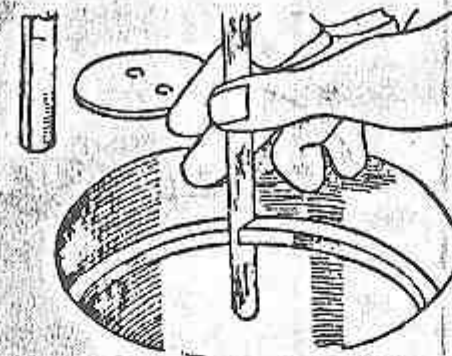


CLEARANCE STANDARDS

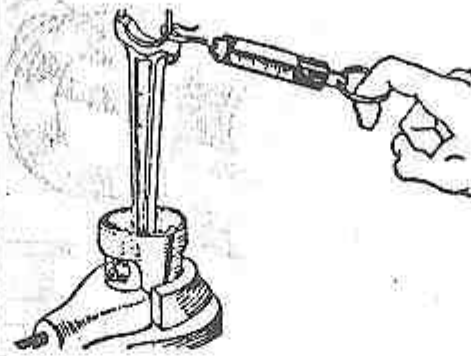
These tolerances are for general use only when the specific instructions of the manufacturer are not available.
Measurements in inches unless otherwise specified.



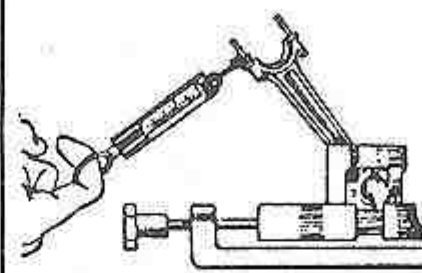
Measure clearance of piston rings in grooves with feeler gage.
Desirable001-.0015
Serviceable0025
Repair or replace004



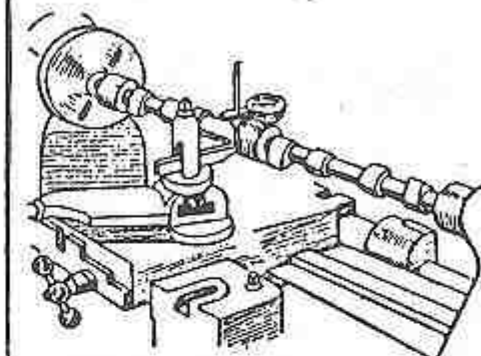
Measure clearance between ends of rings in cylinders (clearance per inch of piston diameter).
Desirable003
Serviceable004
Repair or replace006



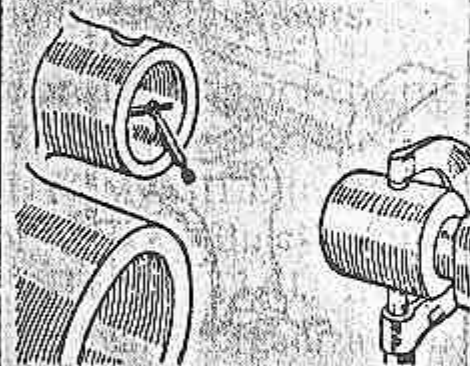
Measure fit of floating pin in alloy piston with spring scale.
Desirable .5-7 lb. pull when cold
Serviceable when worn001
Repair or replace when worn .002



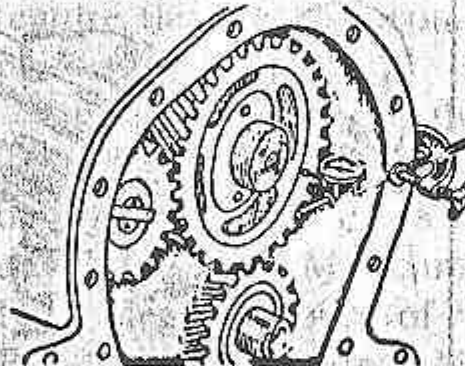
Measure fit of pin using bronze bushings with spring scale.
Desirable .3-5 lb. pull when cold
Serviceable when worn001
Repair or replace when worn .002



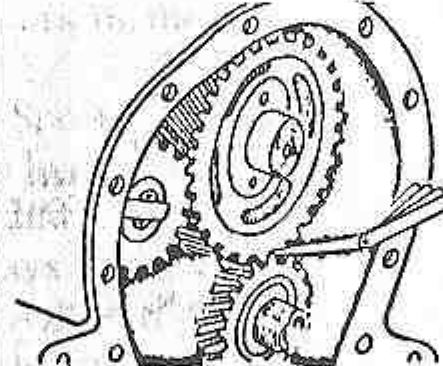
Measure straightness of camshaft with dial gage.
Desirable0005-.001
Serviceable002
Repair or replace004



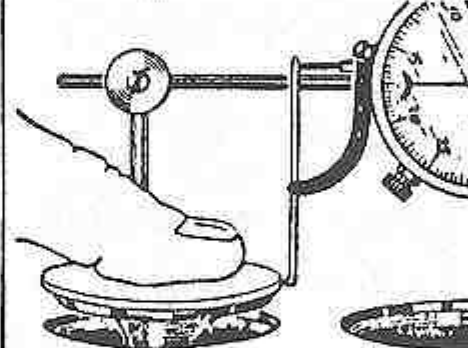
Measure camshaft bearing to journal clearance with micrometer calipers and telescoping gage.
Desirable001-.002
Serviceable003
Repair or replace005



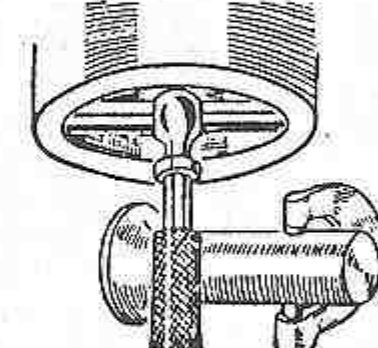
Measure lateral trueness of camshaft timing gear with dial gage.
Desirable001-.002
Serviceable003
Repair or replace005



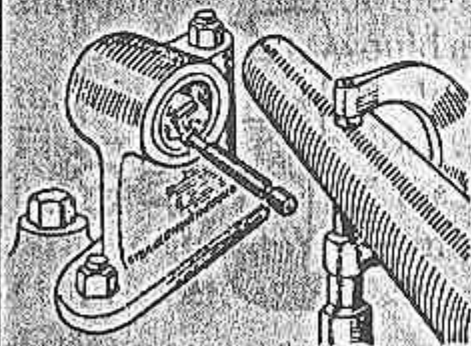
Measure clearance between teeth on camshaft and crankshaft timing gears with feeler gage.
Desirable001-.002
Serviceable004
Repair or replace006



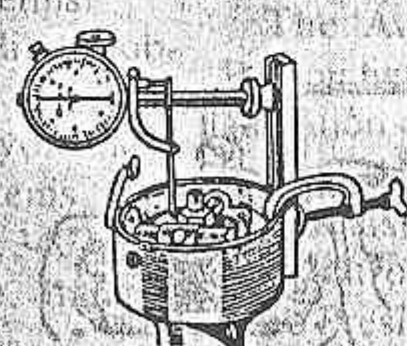
Measure clearance between valve stem and valve guide with dial gage.
Desirable002-.004
Serviceable005
Repair or replace006



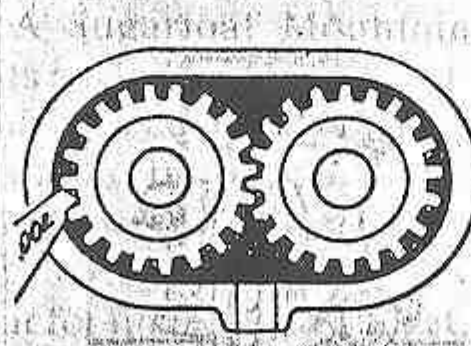
Measure clearance between valve lifter and lifter guide with micrometer calipers and telescoping gage.
Desirable001-.002
Serviceable003
Repair or replace005



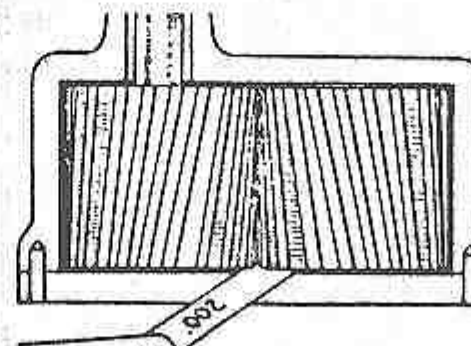
Measure clearance between rocker arm shaft and bushings with micrometer calipers and telescoping gage.
Desirable001-.002
Serviceable003
Repair or replace005



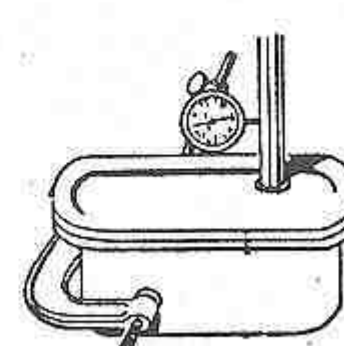
Measure sidewise movement of ignition distributor cam with dial gage.
Desirable001-.002
Serviceable004
Repair or replace006



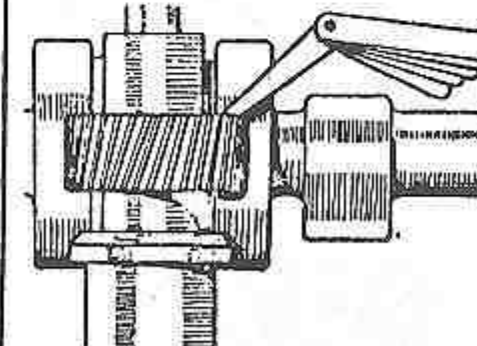
Measure clearance between oil pump gear teeth and housing with feeler gage.
Desirable001-.002
Serviceable004
Repair or replace006



Measure clearance between oil pump housing cover and face of gears with feeler gage.
Desirable001-.002
Serviceable004
Repair or replace006



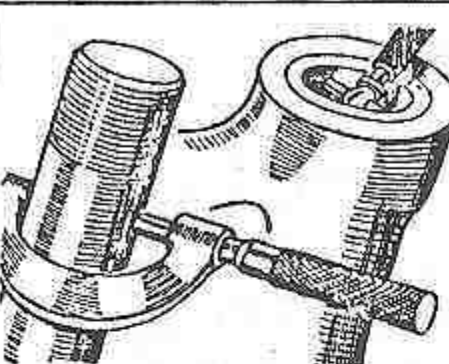
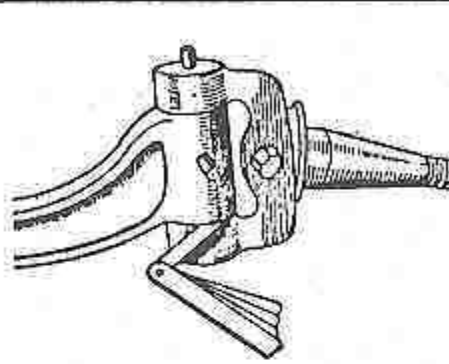
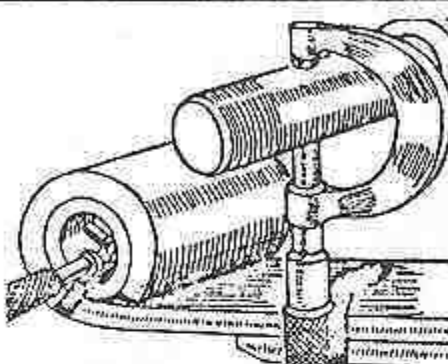
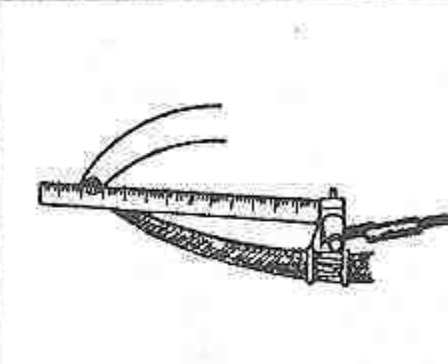
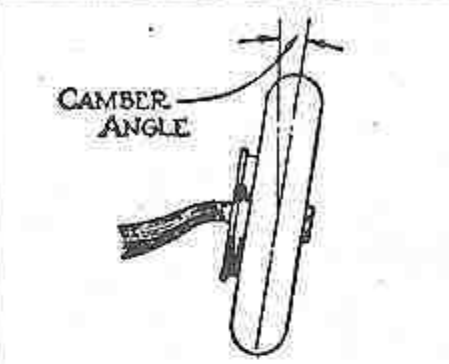
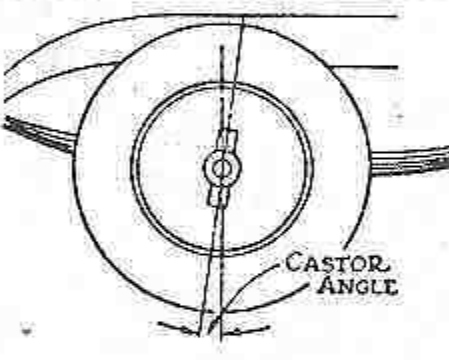
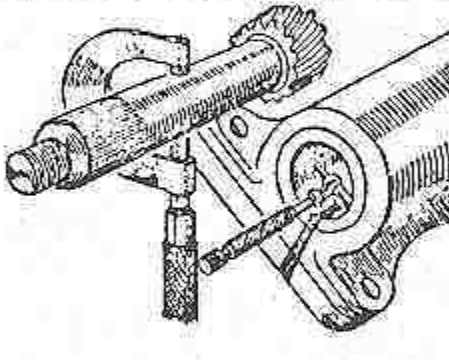
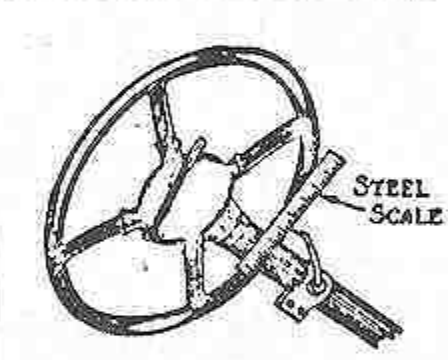
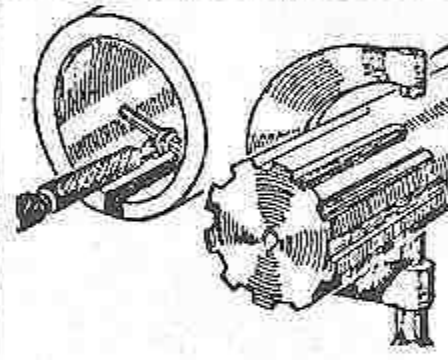
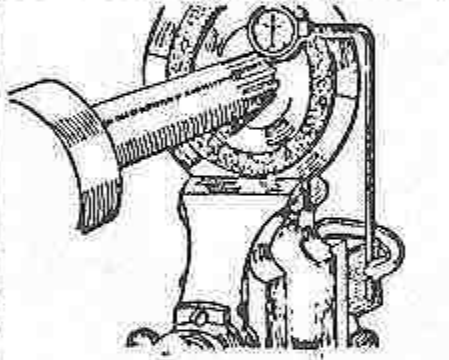
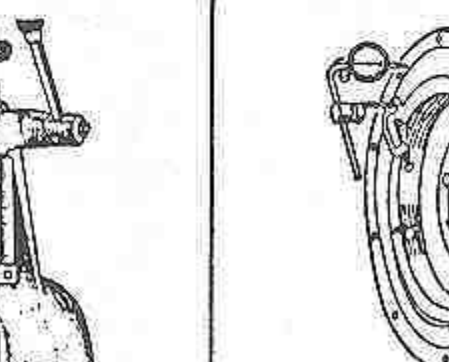
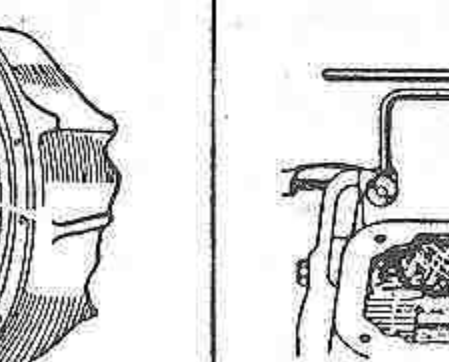
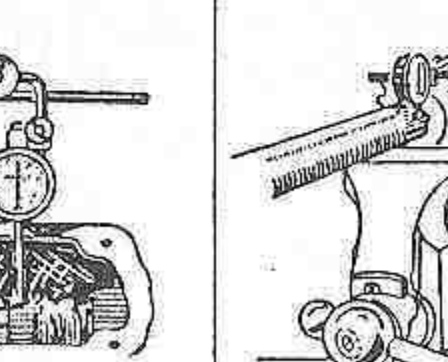
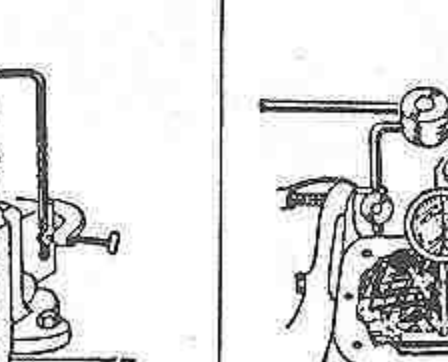
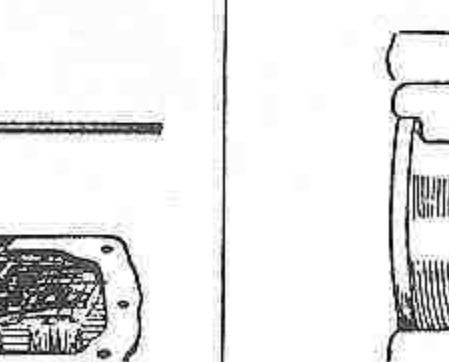
Measure clearance between oil pump shaft and bushings with dial gage.
Desirable001-.002
Serviceable004
Repair or replace006



Measure clearance between oil pump drive gear and camshaft gear teeth with feeler gage.
Desirable003-.005
Serviceable007
Repair or replace010

CLEARANCE STANDARDS

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Measurements in inches unless otherwise specified.

 Measure king pin clearance in bushing with micrometer calipers and telescoping gage. <table><tr><td>Desirable</td><td>.001-.002</td></tr><tr><td>Serviceable</td><td>.005</td></tr><tr><td>Repair or replace</td><td>.007</td></tr></table>	Desirable	.001-.002	Serviceable	.005	Repair or replace	.007	 Measure end clearance of spindle thrust bearings with feeler gage. <table><tr><td>Desirable</td><td>.010</td></tr><tr><td>Serviceable</td><td>.015-.025</td></tr><tr><td>Repair or replace</td><td>.030</td></tr></table>	Desirable	.010	Serviceable	.015-.025	Repair or replace	.030	 Measure clearance between spring eye bolt and bushing with micrometer calipers and telescoping gage. <table><tr><td>Desirable</td><td>.001-.002</td></tr><tr><td>Serviceable</td><td>.010</td></tr><tr><td>Repair or replace</td><td>.015</td></tr></table>	Desirable	.001-.002	Serviceable	.010	Repair or replace	.015	 Measure variation in distance between spring eye bolt and axle on each side with steel scale. <table><tr><td>Desirable</td><td>1/64</td></tr><tr><td>Serviceable</td><td>1/32</td></tr><tr><td>Repair</td><td>1/16</td></tr></table>	Desirable	1/64	Serviceable	1/32	Repair	1/16	 Measure variation in camber of front wheels on each side with camber gage. <table><tr><th></th><th>DEGREES</th><th>INCHES</th></tr><tr><td>Desirable</td><td>0</td><td>1/32</td></tr><tr><td>Serviceable</td><td>1/4</td><td>1/16</td></tr><tr><td>Repair</td><td>1/2</td><td>1/8</td></tr></table>		DEGREES	INCHES	Desirable	0	1/32	Serviceable	1/4	1/16	Repair	1/2	1/8	
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Repair	1/2	1/8																																							
 Measure castor of front axle with castor gage, (variation from specifications). <table><tr><th colspan="2">DEGREES</th></tr><tr><td>Desirable</td><td>0</td></tr><tr><td>Serviceable</td><td>1/4</td></tr><tr><td>Repair</td><td>1/2</td></tr></table>	DEGREES		Desirable	0	Serviceable	1/4	Repair	1/2	 Measure clearance between pitman arm shaft and bushing with micrometer calipers and telescoping gage. <table><tr><td>Desirable</td><td>.001-.002</td></tr><tr><td>Serviceable</td><td>.004</td></tr><tr><td>Repair or replace</td><td>.006</td></tr></table>	Desirable	.001-.002	Serviceable	.004	Repair or replace	.006	 Measure looseness of steering gear at rim of wheel with pointer and steel scale. <table><tr><td>Desirable</td><td>1/4-1 in.</td></tr><tr><td>Serviceable</td><td>2 in.</td></tr><tr><td>Repair</td><td>3 in.</td></tr></table>	Desirable	1/4-1 in.	Serviceable	2 in.	Repair	3 in.	 Measure clearance between sliding sleeve and clutch shaft with micrometer calipers and telescoping gage. <table><tr><td>Desirable</td><td>.001-.002</td></tr><tr><td>Serviceable</td><td>.005</td></tr><tr><td>Repair or replace</td><td>.007</td></tr></table>	Desirable	.001-.002	Serviceable	.005	Repair or replace	.007	 Measure clearance between clutch hub and clutch shaft splines with dial gage. <table><tr><td>Desirable</td><td>.002-.003</td></tr><tr><td>Serviceable</td><td>.006</td></tr><tr><td>Repair or replace</td><td>.010</td></tr></table>	Desirable	.002-.003	Serviceable	.006	Repair or replace	.010					
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Serviceable	.006																																								
Repair or replace	.010																																								
 Measure difference in pressure between clutch springs with spring pressure testing gage. <table><tr><td>Desirable</td><td>1-2 lb.</td></tr><tr><td>Serviceable</td><td>3 lb.</td></tr><tr><td>Repair</td><td>5 lb.</td></tr></table>	Desirable	1-2 lb.	Serviceable	3 lb.	Repair	5 lb.	 Measure alignment of clutch bell housing with flywheel face, using dial gage. <table><tr><td>Desirable</td><td>.002-.003</td></tr><tr><td>Serviceable</td><td>.005</td></tr><tr><td>Repair or replace</td><td>.010</td></tr></table>	Desirable	.002-.003	Serviceable	.005	Repair or replace	.010	 Measure clearance between transmission gear teeth with dial gage. <table><tr><td>Desirable</td><td>.003-.005</td></tr><tr><td>Serviceable</td><td>.012</td></tr><tr><td>Repair or replace</td><td>.015</td></tr></table>	Desirable	.003-.005	Serviceable	.012	Repair or replace	.015	 Measure clearance between gear hub and splines of shaft with dial gage. <table><tr><td>Desirable</td><td>.001-.002</td></tr><tr><td>Serviceable</td><td>.004</td></tr><tr><td>Repair or replace</td><td>.005</td></tr></table>	Desirable	.001-.002	Serviceable	.004	Repair or replace	.005	 Measure diametral clearance of transmission bearings with dial gage. <table><tr><td>Desirable</td><td>.0005-.001</td></tr><tr><td>Serviceable</td><td>.004</td></tr><tr><td>Repair or replace</td><td>.005</td></tr></table>	Desirable	.0005-.001	Serviceable	.004	Repair or replace	.005	 Measure end clearance of transmission bearings with dial gage. <table><tr><td>Desirable</td><td>.001-.003</td></tr><tr><td>Serviceable</td><td>.005</td></tr><tr><td>Repair or replace</td><td>.010</td></tr></table>	Desirable	.001-.003	Serviceable	.005	Repair or replace	.010
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