PIPER AIRCRAFT CORPORATION INSPECTION REPORT

THIS FORM MEETS REQUIREMENTS OF FAR PART 43

Make PIPER SEMINOLE	Mode	:1	PA-44-180				/180T	Serial No.	Registration										
Circle Type of Inspection (See Notes 1, 2 and 3) 50 100 500 1000 Annua	1	2001	200	000	1000	spector		Perform all inspections or operation inspection intervals as indicated by		50	100	500	1000	spector					
DESCRIPTION		-	1	1		Ē		DESCRIPTION						Ä					
 A. PROPELLER GROUP Inspect spinner and back plate for cracks Inspect blades for nicks and cracks Inspect for grease and oil leaks Lubricate propeller per lubrication chart in Maintenance Manual Inspect spinner mounting brackets for cracks (See Note 20) Inspect propeller mounting bolts and safety (Check torque if safety is broken) Inspect hub parts for cracks and corrosion Rotate blades of constant speed propeller and check for tightness in hub pilot tube (See Note 20) Remove constant speed propeller, remove slufrom propeller and crankshaft Inspect complete propeller and spinner assem for security, chafing, cracks, deterioration, we and correct installation Check propeller air pressure (at least once a month) Overhaul propeller (See Note 15) Inspect electric tachometer pickups for security (PA-44-180T only) 	d idge nbly ear						14. (6 15. I (16. I F NOTE 17. I 18. (6 19. I 20. I 21. I 22. (2 23. (2 24. F 25. I 26. F	nspect spark plug cable leads and or corrosion and deposits	ence of oil leaks over screws ve Inspection hours of lattors for high clearance D6)	0 0 0	000000000000	00 0 0 000 00 00 0	00 0 0 000 000 00 0						
B. ENGINE GROUP							27. [Orain carburetor and clean inlet	line fuel		0	0	0						
		-					28. I	nspect condition of carburetor hox (PA-44-180 only) (See Note 1	eat air door and	0	0	0	0						
inspection group.							29. I	nspect intake seals for leaks and ightness	d clamps for		0	0	0						
CAUTION: Ground Magneto Primary Circuit before working on engine. 1. Remove engine cowl	on,	0 0			0		30. l 31. c	nspect all air inlet duct hoses (R equired) (PA-44-180 only) On 180T installation inspect turb pressor inlet and outlet ducts and	eplace asocharger com- d mating flange		0	0	0						
Drain oil sump (See Note 6) Drain while enging is warm	ne				0		32. I	it carburetornspect condition of flexible fuel	lines		0	0	0						
4. Clean suction oil strainer at oil change (Inspestrainer for foreign particles)	ct (0		34. l 35. l	nspect primer lines	security eakage	0	000	0 0 0	0 0						
or element for foreign particles)	and				0		37. 0 38. F	ecurity Clean screens in electric fuel pur Remove, drain, and clean fuel filt	mp (180 only) ter bowl	0	0	0	0						
 Inspect oil lines and fitting for leaks, security chafing, dents and cracks (See Note 8) 					0		е	and screen (Drain and clean at leg every 90 days)		0	0	0	0						
Clean and inspect oil radiator cooling fins Remove and flush oil radiators	(O			0		40. li	Replace flexible fuel lines nspect fuel system for leaks			0	0	0						
 Fill engine with oil per information on cowl of lubrication chart in Maintenance Manual 	r						d	nspect fuel pumps for operation lriven and electric)			0	0	0						
(See Note 6)	um just	0			0		43. C	Overhaul or replace fuel pumps (Iriven and electric) (See Note 7). Check vacuum pumps and lines. Overhaul or replace vacuum pum ION: The only dry air pump mauthorized and approved Airborne dry air pump is gasket B3-1-2, Piper part 751 859. Use of any other result in oil seepage or lemounting surface.	nps (See Note 7) ounting gasket for use on the the Airborne t number er gasket may		Ο	0	0 0 0						
Owner			1				<u></u>												

8. ENGINE GROUP (cont) 45. Inspect throttile, carburetor heat, mixture and propeller governor controls for security. 46. Inspect debugs states, controls for security. 47. Inspect debugs states, controls for security. 48. Inspect dubocating in submitted for controls and gaskets (Replace gaskets as required) (Refer to latest Fiper Sarves Latter No. 80). 49. Inspect dubocating in submitted for controls and security (PA.44-1807 only). 40. Inspect dubocating in submitted for controls and security (PA.44-1807 only). 40. Inspect dubocating in submitted for controls and security (PA.44-1807 only). 41. Inspect mobiles are for cracks, leaks and security of seam bolls. 42. Inspect trather two for obstructions and security of seam bolls. 43. Inspect mobiles for cracks and loose mounting in the search of the search		Circle Type of Inspection (See Notes 1, 2 and 3) 50 100 500 1000 Annual DESCRIPTION	50	100	500	1000	Inspector		Perform all inspections or operations at each of the inspection intervals as indicated by a circle (O). DESCRIPTION	50	100	500	1000	Inchanton
45. Inspect throttle, carburetor heat, mixture and propeller governor controls for security, and inspect chemical stacks, connections and gaskets (Replace gaskets as required) (Refer to latest (Replace gaskets as required)) (Refer to latest (Refer to latest (Replace gaskets as required)) (Refer to latest (Refer to latest (Replace gaskets as required)) (Refer to latest (Refer to Refer Set)) (Refer to Refer Set) (Refer Set) (Re	 		\vdash	\vdash	+	-				+	\vdash	\vdash		-
travel and operating condition. 16. Inspect defaults attacks, connections and gaskets (Replace gaskets as required) (Refer to latest (Refer to Refer		Inspect throttle, carburetor heat, mixture and							Perform pitot-static test if appropriate (Refer					
Pipper Service Letter No. 800) 18. Inspect condition of heater controls and ducts 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46.	travel and operating condition		0	0	0			Inspect altimeter (Calibrate altimeter system in accordance with FAR 91.170, if appropriate)					
48. Inspect unbording and any Asserting PA-44-180T only fill of the second through the second fill of the second through the se	47.	Piper Service Letter No. 860)						18. 19.	Inspect operation of fuel drains		0	0	0	
1. Inspect printing hat works and sourity of seam bolts. 1. Inspect printing hat works and loose mountings or cracks, leaks and loose mountings or cracks with a crack some loop or cracks with a crack some loop or crack some loop or crack some loop or cracks with a crack some loop or crack some loop or cracks with a crack some loop or crack some loop o		Inspect turbocharger insulation for condition and security (PA-44-180T only)			-	-			•					
52. Inspect trather tubes for obstructions and security of seam boits. 53. Inspect crankcase for cracks, leaks and security of seam boits. 54. Inspect grank mounts for cracks and loose mountings befile for cracks and loose mountings. 55. Inspect rankcase files for cracks and loose mountings. 56. Inspect and selfies for cracks and loose mountings. 57. Inspect fire wall seals. 58. Inspect rubber engine mount bushings for deterioration (Replace as required). 58. Inspect rubber engine mount bushings for deterioration (Replace as required). 59. Inspect fire wall seals. 60. Check fluid in brake reservoir (Fill as security of mounting mount for mounting mounts for security, proper routing, chafing, cracks, deterioration and correct installation. 60. Check fluid in brake reservoir (Fill as lines, air ducks, electrical leads and engine attachments for security, proper routing, chafing, cracks, deterioration and correct installation. 61. Camplete overhaul of engine or replace with factory rebuit [see Note 7]. 62. Carbin GROUP 11. Inspect addition and density of alternation and condition of alternator and starter and security of replace propeller governor (Refer to Latest Hartzell Service Letter No. 61). 63. Camplete overhaul of engine or replace with face Note 7]. 64. Camplete overhaul of engine or replace with face Note 7]. 65. Reinstall engine covid. 66. Reinstall engine covid. 67. Camplete overhaul of engine or replace with face Note 7]. 68. Replace fluid in brake source of the service o	50.	Check operation of alternate air doors		0	0	0		1.	Remove inspection plates and panels					
so resembolts such as a seasand security of a largest engine mounts for cracks and loose mountings. 5. Inspect engine baffles for gracks and loose mountings. 5. Inspect engine baffles for gracks and loose mountings. 5. Inspect tubber engine mount bushings for deterioration (Replace as required). 5. Inspect free well seals . 5. Inspect tubber engine mount bushings for deterioration (Replace as required). 5. Inspect free well seals . 5. Inspect cubbre engine mount bushings for deterioration (Replace as required). 6. Check fluid in brake reservoir (Fill as required) for mounting . 6. Check fluid in brake reservoir (Fill as required) in spect and lines, air ducts, electrical leads and engine attachments for security, proper routing, chaffing, cracks, deterioration and correct installation . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Check fluid in brake reservoir (Refer to latest Hartzell Service Letter No. 61) . 6. Chapter 1.2 of Maintenance Manual 6. Complete overhaul of engine or replace with factory rebuilt (See Note 7) . 8. Rejucted fluid in brake valve and toe brakes for damage and operation . 9. Inspect tabliation surfaces for damage and peration . 9. Inspect tabliation surfaces for damage and operation . 9. Inspect date in and rudder pedals . 1. Inspect tabliation and condition of rudder pedals . 1. Inspect tabliation and condition of rudder pedals .	52.	Inspect breather tubes for obstructions and security				-			Inspect battery, box and cables (Inspect at least		0	0	0	
55. Inspect engine baffles for cracks and loose mountings. 56. Inspect number angine mount bushings for destrict outside and tension of alternation (Replace as required). 57. Inspect condition and tension of alternator and starter and security of mounting. 58. Inspect condition and tension of alternator and security of mounting. 59. Inspect condition and tension of alternator and security of mounting. 59. Inspect condition and tension of alternator and security of mounting. 59. Inspect condition and tension of alternator and security of mounting. 59. Inspect claim inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect tuel lines, valves and gauges for damage and operation. 59. Inspect tuel lines, valves and gauges for damage and operation. 59. Inspect all inspect fuel lines, valves and gauges for damage and operation. 59. Inspect all inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect claim full inspect fuel lines, valves and gauges for damage and operation. 59. Inspect vertical flat and runder surfaces for damage. 50. On O O O O O O O O O O O O O O O O O O		of seam bolts		_					battery per instructions on box)	0	0	0	0	
66. Inspect rubber engine mount bushings for deterioration (Replace as required) 57. Inspect fire wall seals 58. Inspect condition and tension of alternator drive belt 59. Inspect condition of alternator and starter and security of mounting 50. Check fluid in brake reservoir (Fill as required) 51. Inspect all lines, air ducts, electrical leads and engine attachments for security, proper routing, chaffing, cracks, deterioration and correct installation 62. Lubricate all controls per lubrication chart in Chapter 12 of Maintenance Manual 63. Overhaul or replace propeller governor (Refer to Note 19) 64. Complete verhaul of engine or replace with factory rebuilt (See Note 21) 65. Reinstall engine cowl 66. CaBlin GROUP 70. Cablin Group 70. Check operation of emergency exit window (See Note 21) 71. Inspect cabin entrance, doors and windows for damage and operation 72. Check operation of emergency exit window (See Note 21) 73. Inspect upholistery for tears 74. Inspect seats, seat belts, security brackets and bolts 75. Inspect provides and pulsey so a seat belts, security brackets and bolts 75. Inspect control wheels, column, pulleys and cables 75. Inspect provider installation and condition of rudder pedals (Properation and		Inspect engine baffles for cracks and loose mountings				_		6.	Inspect antenna mounts and electric wiring Inspect hydraulic pump motor brushes		0	0	0	
Sample to condition and tension of alternator drive belt Sample to condition of alternator and starter and security of mounting		Inspect rubber engine mount bushings for deterioration (Replace as required)				_		l	Check hydraulic pump fluid level (Fill as required)	0		-		
security of mounting. 60. Check fluid in brake reservoir (Fill as required). 61. Inspect all lines, air ducts, electrical leads and engine attachments for security, proper routing, chafing, cracks, deterioration and correct installation and condition of battery and antenna (see latest Piper S./ No. 820) 62. Lubricate all controls per lubrication chart in Chapter 12 of Maintenance Manual 63. Overhaul or replace propeller governor (Refer to Latest Hartzell Service Letter No. 61) 64. Complete overhaul of engine or replace with factory rebuilt (See Note 7) 65. Reinstall engine cowl 65. Reinstall engine cowl 66. Reinstall engine cowl 67. CABIN GROUP 67. CABIN GROUP 68. Inspect cabin entrance, doors and windows for damage and operation 69. Correct probable (See Note 21) 69. Check operation of emergency exit window (See Note 21) 69. Check operation of emergency exit window (See Note 21) 69. Check operation of emergency exit window (See Note 21) 60. Inspect sablilator, rabilatior, stabilator, stabilator	58.	Inspect condition and tension of alternator drive belt		_		_		l	leaks		0	-		
61. Inspect all lines, air ducts, electrical leads and engine attachments for security, proper routing, chafing, cracks, deterioration and correct installation. 62. Lubricate all controls per lubrication chart in Chapter 12 of Maintenance Manual. 63. Overhaul or replace propeller governor (Refer to latest Harzell Service Letter No. 61). 64. Complete overhaul of engine or replace with factory rebuilt (See Note 7). 65. Reinstall engine cowl. 66. Reinstall engine cowl. 67. CABIN GROUP 18. Inspect seating engine cowl. 19. Inspect seating engine cowl. 10. Inspect seatilator, and operation. 10. Chapter 12 of Maintenance, doors and windows for damage and operation. 10. Check operation of emergency exit window (See Note 21). 11. Inspect seats, seat belts, security brackets and bolts. 12. Inspect sublider standard table in the security brackets and bolts. 13. Inspect volume the security of all lines. 14. Inspect seatist Piper S/L No. 82O). 15. Inspect seatist Piper S/L No. 82O). 16. Inspect seatist Piper S/L No. 82O). 17. Inspect sequired). 18. Inspect sequired). 19. Inspect stabilator surfaces for damage. 19. Inspect stabilator, tab hinge bolts and bearings for excess wear (Replace as required). 21. Inspect stabilator attachments. 22. Inspect stabilator ratin mechanism. 23. Inspect volume the sequired instruments and electric for poperation and condition of rudder pedals inspect seats, seat belts, security brackets and bolts. 18. Inspect condition of flap control cables attachments. 19. Inspect stabilator ratin mechanism. 20. O O O O O O O O O O O O O O O O O O O		security of mounting							damage and operation					
correct installation and correct installation 0 0 0 0 0 0 0 0 0	61.	Inspect all lines, air ducts, electrical leads and engine attachments for security, proper	0	0	0	0			Inspect security of all lines		0	0	0	
in Chapter 12 of Maintenance Manual	62.	correct installation	0	0	0	0			Inspect rudder hinges, horn and attachments for damage and operation		0	0	0	
64. Complete overhaul of engine or replace with factory rebuilt (See Note 7) 65. Reinstall engine cowl 1. Inspect cabin entrance, doors and windows for damage and operation 2. Check operation of emergency exit window (See Note 21) 3. Inspect upholstery for tears 4. Inspect seats, seat belts, security brackets and bolts 6. Inspect operation and condition of rudder pedals 7. Inspect parking brake valve and toe brakes for operation and cylinder leaks 8. Inspect condition of flap control cable attachment bolt 10. Check landing, navigation, cabin and instrument lights 11. Inspect simple over the large filter turn and bank (Overhaul or replace as required). 12. Inspect stabilator surfaces for damage and operation 13. Inspect upholstery for tears 14. Inspect seats, seat belts, security brackets and bots 15. Inspect price in operation 16. Inspect operation and condition of rudder pedals 7. Inspect parking brake valve and toe brakes for operation and cylinder leaks 16. Inspect condition of flap control cable attachment bolt 17. Inspect stabilator surfaces for damage. 18. Inspect stabilator, tab hinges, horn and attachments for damage and operation. 19. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 12. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 12. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 12. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 12. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 18. Inspect stabilator surfaces for damage. 19. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 12. Inspect stabilator and tab hinge bolts and bearings for excess wear (Replace as required). 18. Inspect stabilator stabilator stabilator turin mechanism. 10. Clean and lubricate stabilator stabilator stabilator stabilator stabilator stabilato		in Chapter 12 of Maintenance Manual Overhaul or replace propeller governor (Refer	0	0	0	0		16.	Inspect ELT installation and condition of battery and antenna (See latest Piper S/L No. 820)					
C. CABIN GROUP 1. Inspect cabin entrance, doors and windows for damage and operation		Complete overhaul of engine or replace with factory rebuilt (See Note 7)						l	wear (Replace as required)					
1. Inspect cabin entrance, doors and windows for damage and operation			0	O	O	O		19.	Inspect stabilator surfaces for damage Inspect stabilator, tab hinges, horn and		0	0	0	
damage and operation									Inspect stabilator attachments					
3. Inspect upholstery for tears		damage and operation						23.	required)	0				
S. Inspect trim operation 6. Inspect peration and condition of rudder pedals 7. Inspect parking brake valve and toe brakes for operation and cylinder leaks 8. Inspect control wheels, column, pulleys and cables 9. Inspect condition of flap control cable attachment bolt 10. Check landing, navigation, cabin and instrument lights 11. Inspect instruments, lines and attachments 12. Inspect gyro operated instruments and electric turn and bank (Overhaul or replace as required) 13. Replace filters on gyro horizon and directional gyro or replace central air filter		Inspect upholstery for tears		0	0	0	i	1	trim cables, stabilator actuator tube, bellcrank,					
security, routing, chafing, deterioration, wear and correct installation		Inspect trim operation		0	0	0			condition of bearings, damage and operation Inspect all control cables, air ducts,		0	0	0	
cables		operation and cylinder leaks		0	o	0		l	security, routing, chafing, deterioration, wear and correct installation		0	- 1		
10. Check landing, navigation, cabin and instrument lights		cables		-		-		27.	Clean and lubricate all exterior needle bearings . Lubricate per lubrication chart in Maintenance			0		
12. Inspect instruments, lines and attachments 12. Inspect gyro operated instruments and electric turn and bank (Overhaul or replace as required) . 13. Replace filters on gyro horizon and directional gyro or replace central air filter.		Check landing, navigation, cabin and instrument lights	o	0	0	0		1	Manual Inspect rotating beacon for security and	0				
myc or replace central air filter		Inspect gyro operated instruments and electric		-	-			l	Inspect security of Autopilot bridle cable clamps					
	13.			0	0	О		1	Chapter 35)		- 1	- 1	0	

	Circle Type of Inspection (See Notes 1, 2 and 3) 50 100 500 1000 Annua1 DESCRIPTION	50	100	200	1000	Inspector		Perform all inspections or operations at each of the inspection intervals as indicated by a circle (O). DESCRIPTION	1000	Inspector
	DESCRIPTION .	1		-			╫		+	-
2. 3. 4. 5.	Remove inspection plates and fairings		0 00 0	0 0	0 0			22. Retract gear - inspect doors for clearance and operation		
7.	Lubricate per lubrication chart in Maintenance							G. OPERATIONAL INSPECTION		
9. 10. 11. 12. 13. 14. 15. F. 1.	Manual. Inspect wing attachment bolts and brackets Inspect all control cables, air ducts, electrical leads, lines, and attaching parts for security, routing, chafing, deterioration, wear and correct installation Inspect fuel tanks and lines for leaks and water (See Note 16) Fuel tanks marked for capacity Fuel tanks marked for minimum octane rating Inspect fuel tank vents (See Note 17) Inspect fuel tank nipple fittings for damage and proper torque (Refer to Chapter 28, Maintenance Manual) Reinstall inspection plates and fairings LANDING GEAR GROUP Inspect oleo struts for proper extension (N-2.70 M-2.60) (Check for proper fluid level as required) Inspect nose gear steering control and travel	0	00 00 00 00	0 00 00 00	00 00 00 00			1. Check fuel pump and fuel tank selector and crossfeed operation	000000000000000000000000000000000000000	
3. 4	Inspect wheel alignment		0	0	0		I			
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	Inspect wheel alignment. Put airplane on jacks (Refer to Maintenance Manual) Inspect tires for cuts, uneven or excessive wear and slippage Remove wheels, clean, check and repack bearings. Inspect wheels for cracks, corrosion and broken bolts Check tire pressure (N-31 psi/M-53 psi) Inspect brake lining and disc. Inspect brake lines and retaining clamps. Inspect ondition of centering spring Inspect gear forks for damage. Inspect gear struts for fluid leaks and scoring. Inspect gear struts, attachments, torque links, retraction links and bolts for condition and security Inspect downlocks for operation and adjustment. Inspect drag end side brace link bolts (Replace as required). Inspect gear doors and attachments Inspect gear warning horn and light for operation. Retract gear - check operation	0	0 0 0 0 0000000 0 00 0 00	0 0 0 0000000 0 00 0 0	0 0 0 0 0000000 0 00 0 00 00			H. GENERAL 1. Aircraft conforms to FAA Specifications	0	

NOTES:

- Refer to the last card of the Piper Parts Price List Aerofiche, for a check list of current revision dates to Piper Inspection Reports and Manuals.
- 2. All inspections or operations are required at each of the inspection intervals as indicated by a (O). Both the annual and 100 hour inspections are complete inspections of the airplane, identical in scope, while both the 500 and 1000 hour inspections are extensions of the annual or 100 hour inspection, which require a more detailed examination of the airplane, and overhaul or replacement of some major components. Inspections must be accomplished by persons authorized by the FAA.
- 3. Piper Service Bulletins are of special importance and must be complied with promptly.
- Piper Service Letters are product improvements and service hints pertaining to servicing the airplane and should be given careful attention.
- 5. Inspections given for the power plant are based on the engine manufacturer's operator's manual (Lycoming Part Number 60297-12) for this airplane. Any changes issued to the engine manufacturer's operator's manual after this date shall supersede or supplement the inspections outlined in this report. Occasionally, service bulletins or service instructions are issued by Avco Lycoming Division that require inspection procedures that are not listed in this manual. Such publications usually are limited to specific models and become obsolete after corrective steps have been accomplished. All such publications are available from Avco Lycoming distributors, or from the factory by subscription. Consult Lycoming Service Letter No. L114 for subscription information. Maintenance facilities should have an up-to-date file of these publications available at all times.
- 6. Intervals between oil changes can be increased as much as 100% on engines equipped with full flow (cartridge type) oil filters provided the element is replaced each 50 hours of operation. As required by Lycoming Service Bulletin No. 446, oil additive LW-16702 must be added at each 50 hour oil change. The additive can be purchased through Lycoming and Piper Distribution Systems.
- Replace or overhaul as required or at engine overhaul. (For engine overhaul, refer to latest Lycoming Service Instructions No. 1009.)
- 8. Replace flexible oil lines at Engine T.B.O. per latest Lycoming Service Bulletin No. 240.
- 9. Torque all attachment nuts to 135-150 inch-pounds; seat "Pal" nuts fingertight against plain nuts, and then tighten an additional 1/3 to 1/2 turn.
- 10. Deleted.
- 11. Check cylinders for evidence of excessive heat which is indicated by burned paint on the cylinders. This condition is indicative of internal damage to the cylinder and, if found, its cause must be determined and corrected before the aircraft is returned to service.

Heavy discoloration and appearance of seepage at the cylinder head and barrel attachment area is usually due to emission of thread lubricant used during assembly of the barrel at the factory, or by slight gas leakage which stops after the cylinder has been in service for awhile. This condition is neither harmful nor detrimental to engine performance and operation. If it can be proven that leakage exceeds these conditions, the cylinder should be replaced.

- 12. At every 400 hours of engine operation, remove the rocker box covers and check for freedom of valve rockers when valves are closed. Look for evidence of abnormal wear or broken parts in the area of the valve tips, valve keeper, springs and spring seat. If any indications are found, the cylinder and all of its components should be removed (including the piston and connecting rod assembly) and inspected for further damage. Replace any parts that do not conform with limits shown in the latest revision for Lycoming Special Service Publication No. SSP-2070.
- Check carburetor throttle body attaching screws for tightness; the correct torque for these screws is 40 to 50 inch-pounds.
- Check landing gear system in accordance with instructions given in Chapter 32 of Maintenance Manual.
- Inspect and service in accordance with latest Hartzell Service Bulletin No. 110 and Service Letter No. 61.
- 16. Replace flexible fuel tank supply hoses at time of engine overhaul.
- Replace fuel tank vent line flexible connections as required, but no later than 1000 hours of service.
- When using alternate fuels, refer to latest Lycoming Service Letter No. L185 for additional information and service procedures.
- Inspect brushes every 100 hours if airplane is used for training or every 500 hours if used for normal service. (Refer to Maintenance Manual, Chapter 29.)
- For information on changing propeller spinner dome attaching locknuts, refer to latest Hartzell Service Instruction No. 118.
- Check at each annual or 100 hour inspection, whichever comes first. Refer to Maintenance Manual, Chapter 52 for test procedures.