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# TO MAINTENANCE

BY: PIET FOURIE 2017

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- Maintenance Responsibilities
- Maintenance by Pilots
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#### MAINTENANCE RESPONSIBILITIES

No owner, operator or pilot of an aircraft shall operate the aircraft unless such aircraft is maintained and released to service in accordance with the provisions of **Part 24** or **Part 43**, as applicable to the aircraft.

#### SOUTH AFRICAN

## **MAINTENANCE** by Pilots



CAR 43.02.2

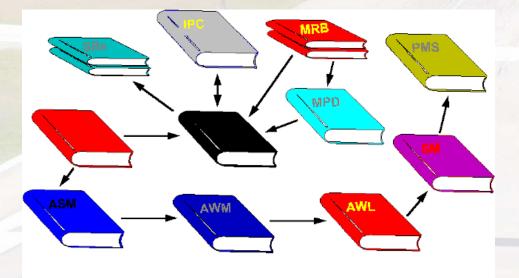
- (2) The holder of a pilot license with an appropriate type rating issued in terms of part 61 or part 62 may carry out the maintenance as prescribed in Document SA-CATS 43 if—
- (a) such holder is the owner or operator of the aircraft; and
- (b) the aircraft is used for non-commercial operations.
- (3) The routine maintenance, scheduled inspections, structural integrity inspections, overhaul, modification, major repairs and structural repairs on aeroplanes with a MCM in excess of 5 700 kg or on helicopters with a MCM in excess of 3 175 kg shall be undertaken and certified by an appropriately rated approved AMO only.

#### MAINTENANCE REQUIREMENTS

POH available



#### Maintenance Manuals Available



# PILOT MAY PERFORM THE FOLLOWING ROUTINE MAINTENANCE

SOUTH AFRICAN

#### LANDING GEAR



Landing gear tires and tubes, and puncture repairs.

Servicing struts with air

Replacing tail wheel and tail-wheel springs

Correcting locking wire and split pins

Lubrication, not requiring disassembly

# Fuselage& Interior

Replenishing hydraulic fluid

Replacing side windows

Repairing upholstery

Replacing safety belts

Replacing seats or seat parts if work does not involve dismantling or interfering with primary structure.

# Fuselage & Interior continued

Simple fabric patches
Refinishing decorative coatings
Applying preservative or protective
materials

Making simple repairs to fairings, nonstructural items

Replacing & servicing batteries

# Powerplant

Replacing pre-fabricated fuel and oil lines, provided fuel flow checks are carried out in accordance with TS 43.02.8

Replace and clean Spark plugs

Clean fuel and oil strainers

Change engine oil

## **Electrical**

Trouble shooting and repair broken circuits in landing light wiring

Replacing bulbs, reflectors, & lenses or position or landing lights

# Sample Log Entries CAR Part 43 Appendix A

# MAINTENANCE SCENARIO CAR 43.03.1, CAR 91.09.3

Aircraft Make: Cessna ZS-ABC

Date: 21/01/2017

Model: 172M

TAT: 4,625 Hrs.

Serial No. 18454

Eng.: SMOH: 962 Hrs.

Eng. TT: 2,762 Hrs.\_\_\_\_

Prop: TT. 962 Hrs.

Cessna 172 Service Manual is Available.

Make a Typical log book entry indicating the replacement of the Right main landing gear Tire and typical return to service.

You are a **Private Pilot**,
Or AME
License # 123456789

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<sup>\*</sup> A Signature in this column will be taken as a certificate that the maintenance specified and all the requirements prescribed in the applicable Civil Aviation Regulations, have been complied with.

\* 'n Handtekening in hierdie kolom word geag te sertifiseer dat die betrokke onderhoud en alle bepalings en vereistes van die toepaslike Burgerlugvaartregulasies, nagekom is.

N.B. See inside of front cover for instructions / L.W. sien binnekant van voorste blad vir aanwysings.

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N.B. See inside of front cover for instructions / L.W. sien binnekant van voorste blad vir aanwysings.

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				í.a.w Cessna Maint Manual Ima B. Good					
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All Maintenance entries to be completed in Logbook within 48 hours in accordance with Regulation 43.01.3 (2)(b)

# Maintenance Scenario CAR 43.9, & CAR 91.417

Aircraft Make: Cessna Date: 21/01/2017

Model: 172M TAT: 4,625 Hrs

Serial No. 18454 Eng: SMOH: 962 Hrs

Eng TT: 2,762 Hrs\_\_\_\_\_\_ Prop: TT. 962 Hrs

Cessna 172, and Lycoming Service Manual is Available, and AC 43.13-1A, .

Make a Typical log book entry indicating the replacement of the Spark Plugs, and typical return to service.

You are a Certificated Pilot, or AME License #123456789

AIRCRAFT MAINTENANCE RECORD	
DESCRIPTION OF WORK PERFORMED	SIGNATURE
	AIRCRAFT MAINTENANCE RECORD DESCRIPTION OF WORK PERFORMED

#### **POWERPLANT MAINTENANCE LOG BOOK**

>			
	DATE	ENGINE MAINTENANCE RECORD  DESCRIPTION OF WORK PERFORMED	SIGNATURE
	21/01/201	Removed and Replaced all spark	olugs,
	Eng: TT:2,762H		
	SMOH:962 H	in accordance with Lycoming serving se	ace
	<b>Tach</b> : 962 H		
	(optional)	torqued to specifications as stated in manual, Eng run and Mag check O	
			na B. Good
		DDI #	Ima B. Good
		PPL#1	23456789

#### **POWERPLANT MAINTENANCE LOG BOOK**

	ENGINE MAINTENANCE RECORD	
DATE	DESCRIPTION OF WORK PERFORMED	SIGNATURE
21/01/20	17 Changed oil Added 8 Quarts of Aeroshell	
Engine TT	50 compounded Oil	
2,762 Hrs.	Removed & Inspected oil screen and re-installe	d
SMOH	in accordance with service manual	
962 Hrs.		
		Ima B. Good
		Ima B. Good
		PPL # 123456789



