#### Daf 95 Xf Electrical Wiring Diagram

Full download: http://manualplace.com/download/daf-95-xf-electrical-wiring-diagram/

5 CONTENTS
95XF series
TECHNICAL DATA
DIAGNOSIS
COMPONENTS
BATTERIES
MASTER SWITCHES
CONNECTING ACCESSORIES
READING DIAGRAMS
LOCATION OF COMPONENTS
LOCATION OF CONNECTORS
ELECTRICAL INSTALLATION
MODIFICATIONS TO THE ELECTRICAL INSTALLATION
ELECTRICAL SYSTEM: OPTIONS AND SPECIAL APPLICATIONS

This is the cut pages sample. Download all 605 page(s) at: ManualPlace.com

#### 95XF series

### CONTENTS

		Page	Date
1.	COMPONENTS	1-1 1-1	9811 9811



**TECHNICAL DATA** 

Contents

# 0

## **TECHNICAL DATA**

Contents



95XF series

#### **TECHNICAL DATA**

Components

### 1. COMPONENTS

#### 1.1 GENERAL

Bulbs
-------

Headlights	75/70 W
Parking light	5 W
Tail light	10 W
Rear fog light	21 W
Back-up light	21 W
Stop light	21 W
Direction indicator	21 W
Side light	3 W
Instrument panel lighting	2 W
Tachograph	2 W
Cab lighting	21 W
Bunk reading lamp	10 W
Warning lamps on instrument panel	1.2 W
Stepwell lighting	5 W
Marker light	5 W

#### **REVOLUTION SENSOR**

Air gap between tooth and sensor

0.3 - 0.7 mm

Max. current and wire cross sectional area (mm <sup>2</sup> )				
Wire diameter	< 2 m	2 - 4 m	4 - 8 m	> 8 m
1	9	5	4	
1.5	22.5	13.5	7.5	6
2.5	37.5	22.5	12.5	10
4	60	36	20	16
6	90	54	30	24
10	150	90	50	40
16	240	144	80	64
25	375	225	125	100
35	525	315	175	140
50	750	450	250	200
70	1050	630	350	280
95	1425	855	475	380
120	1800	1080	600	480

### **TECHNICAL DATA**

### Components

#### Microrelay

Maximum making current	
between points 3 and 5:	
Maximum breaking current	
between points 3 and 4:	

10A

5A





#### Minirelay

Maximum making current	
between points 30 and 87:	20A
Maximum breaking current	
between points 30 and 87a:	10A



0

Contents

#### CONTENTS

		Page	Date
1.	BATTERIES	1-1 1-1	9711 9711
2.	<b>TROUBLESHOOTING</b> 2.1Short circuits2.2Open circuits2.3Earthing problems	2-1 2-2 2-3 2-4	9711 9711 9711 9711 9711



Contents

5

#### 1. BATTERIES

#### 1.1 FAULT-FINDING TABLE

FAULT: NEW BATTERY GETS QUITE HOT DURING CHARGING		
Possible cause	Remedy	
Inadequate formation because of bad conservation or long-term (moist) storage	Allow battery to cool down Charge properly Check density	

FAULT: ELECTROLYTE LEVEL TOO LOW		
Possible cause	Remedy	
Leaking battery box	Replace battery	
Excessive gas production caused by overcharging	Check/repair charger	

FAULT: BATTERY ACID SPILLS FROM THE PLUG HOLES		
Possible cause	Remedy	
Battery level exceeds capacity	Siphon off liquid	
Overcharging	Check charger and repair, if necessary	

FAULT: DENSITY IS TOO LOW (<1,240) BAD STARTING		
Possible cause Remedy		
Power user left on	Charge battery	
Insufficient charge	Check/repair charger	
Short circuit in the charging circuit	Check charging circuit	

FAULT: DENSITY IS TOO HIGH (<1,290)		
Possible cause	Remedy	
Topped up with acid instead of distilled water	Siphon off liquid and top up with distilled water If necessary, repeat after mixing (charging)	



5

Batteries

	FAULT: BAD STARTING BAD STARTING TEST POWER FAILS UNDER LOAD		
	Possible cause	Remedy	
-	Discharged battery	Charge battery	
-	Worn battery (corroded plates)	Replace battery	
-	Defective battery ("dead cell")	Replace battery	
-	Battery too small	Install battery with a larger capacity	
-	Sulphated battery (plates are hard)	Replace battery	

	FAULT: BURNT-IN BATTERY TERMINALS		
Possible cause		Remedy	
-	Wire clamps not securely fitted or bad contact	Have battery terminals repaired, securely fit wire clamps, and replace clamps, if necessary	

	FAULT: EXCESSIVE BUBBLING IN 1 OR 2 CELLS DURING HIGH LOADS (STARTING OR STARTING TEST)		
	Possible cause	Remedy	
-	Defective cells	Replace battery	
-	Leaking partition	Replace battery	

	FAULT: BATTERY DISCHARGES QUICKLY (CANNOT CONTAIN ITS CHARGE)		
	Possible cause	Remedy	
-	Insufficient charge	Check charge, is charging time (driving time) sufficient?	
-	Short circuit in the charging circuit	Check charging circuit	
-	Major self-discharging, e.g. because of contamination	Clean battery	
-	Battery sulphated (on inspection, plates prove hard and possibly have white appearance)	Replace battery	



Batteries

	FAULT: SHORT BATTERY LIFE		
	Possible cause	Remedy	
-	Wrong type of battery (e.g. in case of tailboards)	Install Super Heavy Duty or semi-traction battery	
-	Too many deep discharges	Intermediate additional charging with battery charger	
-	No recharging after deep discharge (white deposition)	Always recharge battery after deep discharge	

	FAULT: BATTERY GETS HOT DURING OPERATION AND USES A LOT OF WATER			
	Possible cause Remedy			
-	Overcharging or charging voltage too high	Check charger (voltage regulator)		

	FAULT: BATTERY HAS EXPLODED		
	Possible cause	Remedy	
-	Fire or spark during or immediately after charging	Ensure proper ventilation and be careful with fire and sparks	
-	Short-circuiting tools	Be careful where you put tools	
-	Internal fault (loose connection)	Replace battery	

	FAULT: DEFECTIVE ALTERNATOR AND/OR DIODES (RADIO AND OTHER POLARITY-SENSITIVE EQUIPMENT DO NOT WORK)		
	Possible cause	Remedy	
-	Reversed battery polarity or incorrect charging	Discharge battery and recharge in the proper direction Replace battery, if necessary	

	FAULT: BATTERY IS INACTIVE (NO VOLTAGE)		
	Possible cause	Remedy	
-	Internal open circuit	Replace battery	
-	Battery extremely deeply discharged	Charge and test battery, replace if necessary	



Batteries



### DIAGNOSIS Troubleshooting

### 2. TROUBLESHOOTING

The following test equipment and tools can be used to localise faults.

- 1. The best instrument for this purpose is a digital multimeter. This instrument enables voltages, currents and resistances to be measured without reading errors, and it can trace virtually all faults.
- Many but not all faults can be traced in a simple way by using warning lamps. However, faults which are caused by a poor earth connection can in general not be traced via a warning lamp or a buzzer.

The most frequently occurring faults are:

- a. short circuit
- b. open circuit
- c. earthing problems (poor earth connection caused by corrosion).



Troubleshooting

#### 2.1 SHORT CIRCUITS

A short circuit is caused by a positive wire shorting somewhere to earth. In most cases this will cause a fuse to blow.

70W is then used to trace this fault. First check the diagram to see which consumers are protected by the fuse and then switch them all off.

Remove the fuse and replace it with a test lamp. Then, one by one, switch the consumers on and off. If the test lamp starts burning very brightly when a consumer is switched on, it is almost certain that the fault is in the wiring of that particular consumer. Check the diagram to see which connector is used to connect this consumer. Remove the first wiring connection (looking from the fuse).

If the test lamp continues to burn brightly, the fault is between the fuse and this wiring connection.

However, if the test lamp stops burning, the fault is somewhere further on in the wiring. Restore the wiring connection and disconnect the next one. If the test lamp continues to burn brightly, the fault is between these two wiring connections.

However, if the lamp stops burning again, the fault tracing procedure must be continued. In this way the faulty section of the wiring can be found.



W 5 03 013

5



Troubleshooting

#### 2.2 OPEN CIRCUITS

Suppose a consumer is not functioning. The fault may then be in the consumer itself, or the wiring may be interrupted.

First switch on the consumer and check for voltage with the test lamp. If no voltage is present, first check whether the fuse is still intact.

If there is voltage at the fuse, the wiring must be checked again from the fuse to the consumer. Every wiring connection must be checked. If there is no voltage at one of these wiring connections, the interruption is between this connection and the connection checked second-last.

If voltage was found at the consumer, there is still the possibility of an interruption in the wiring from the negative terminal of the consumer to earth. This can be checked with a test lamp. Make sure the circuit concerned is connected up.

Connect one end of the test lamp to earth and the other end to the negative (-) terminal of the component to be checked.

If the test lamp starts burning, the earth connection of the component is interrupted. If the test lamp does **not** come on, the earth connection of the component will in most cases be in good order.

If the positive and negative connections are both in good order, the consumer is defective and must be replaced.





W 5 03 016



Troubleshooting

#### 2.3 EARTHING PROBLEMS

Problems with the earth connections are mostly caused by corrosion on the contact surfaces of electrical connections.

Earthing problems can only be traced with a (preferably digital) multimeter. Digital, because this kind of problem usually involves only a few volts and the readings of an analog meter are not precise enough for this purpose.

To establish whether a certain earthing point has a good earth connection, measure with a voltmeter between the battery negative pole and

the earthing point in question. Now switch on as many consumers as possible. If there is a correct earth connection, **no** voltage should be found.

In practice, however, a loss of approx. 0,5V will often be measured.

If the reading is higher, the earth connection must be checked carefully.

In this way the earth connections of all the consumers can be checked and measured.







### CONTENTS

			Page	Date
1.	<b>GEN</b> 1.1 1.2	ERAL Multimeter Measuring signals with the multimeter	1-1 1-1 1-4	9811 9811 9811
2.	<b>DES</b> 2.1 2.2 2.3 2.4 2.5	CRIPTION OF COMPONENTS   Engine speed and vehicle speed sensors   Temperature sensors   Fluid-level sensors   Pressure sensors   Proximity sensors	2-1 2-1 2-3 2-4 2-5 2-6	9811 9811 9811 9811 9811 9811
3.	INSP		3-1	9811
	3.1		3-1	9811
4.	REM	OVAL AND INSTALLATION	4-1	9811
	4.1	Removing and installing contacts from connectors	4-1	9811
	4.2	Installing contact units on electrical wires	4-3	9811
	4.3	Removal and installation of contact units of 39-pin floor connector	4-5	9811
	4.4	Removal and installation of contact units of connectors		
		with single contact lock	4-7	9811
	4.5	Removal and installation of contact units of connectors		
		with additional contact lock	4-7	9811

DAF

#### **COMPONENTS**

Contents

Date

### COMPONENTS

Contents

COMPONENTS

General

95XF series

5

#### 1. GENERAL

#### 1.1 MULTIMETER

Multimeters are available in two different versions:

- analog meter
- digital meter

An analog meter has an indicating needle (pointer) which can move over a graduated scale.

A digital meter indicates the measured values by means of digits in a read-out window.

#### Analog meter

#### Disadvantages:

- Difficult to read due to the various graduated scales.
- Not capable of giving precision readings (depending on the scale arrangement/measuring range).
- If the meter is connected up incorrectly, there is a real risk of electrical defects in the meter.
- The indicating needle (pointer) is not resistant to powerful mechanical vibrations.
- The meter must usually be used in a certain position.

Advantages:

- Useful, for example, when measuring a potentiometer with a minor interruption.

#### **Digital meter**

Disadvantages:

- Meter is slow. With a fluctuating voltage all you can see are flashing digits.

Advantages:

- It indicates the correct value without the risk of misinterpretation.
- Gives more accurate readings.
- It is protected against faulty connection.
- It is resistant to powerful mechanical
- vibrations.It can be used in any position.

#### © 9811



#### Daf 95 Xf Electrical Wiring Diagram

Full download: http://manualplace.com/download/daf-95-xf-electrical-wiring-diagram/



- 1. Moving-coil meter with permanent magnet.
- 2. Moving-coil meter with rectifier cell.
- 3. Electromagnetic or soft-iron meter.
- 4. With rectifier cell.

1-2

- 5. Suitable for direct current.
- 6. Suitable for alternating current.
- 7. Suitable for direct current and alternating current.
- 8. Meter with zero adjustment.
- 9. Meter may only be used in the vertical position.
- 10. Meter may only be used in the horizontal position.
- 11. Test voltage is 2 kilovolts (without a digit it is 0.5 kilovolt).
- 12. Meter may only be used at the angle indicated.
- 13. Suitable for direct current, class 1.5 (inaccuracy 1.5% of full scale).
- 14. Suitable for direct current and alternating current, classes 1 and 0.5 (see item 13 for explanation).

DAF