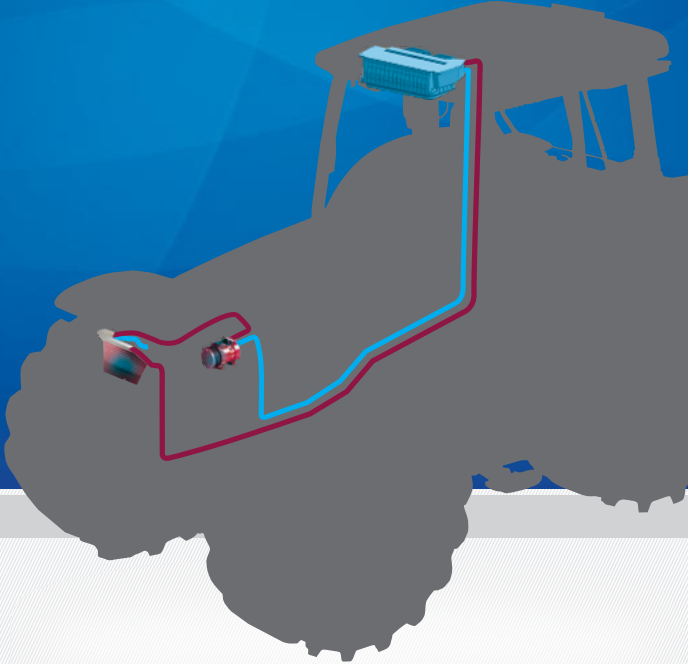


Kabin Klima Kullanma ve Bakım Klavuzu



Operating Manual

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Introduction

This manual describes instructions for using and maintenance of product. This manual is part of the product and should be kept with the product for application. Customer should learn security instrument, risk of making noise and provided by international directives that rules of general accident prevention and legal regulations for use of product. Air conditioner should be used by the competent user who will follow carefully technical instruction in this manual. Users are responsible from working of air conditioner for the safety of life and property at suitable environment. The below standarts has been used for suitability of air conditioner. TS EN 13070 (ICS 03.080.30;27.200;43.060.30) Air conditioners for road vehicles - The rules

Technical data

<i>Operating voltage</i>	<i>12 Volt DC</i>
<i>Current</i>	<i>25A</i>
<i>Refrigerant</i>	<i>R134a</i>
<i>Amount of refrigerant gas</i>	<i>850 (+/-25) gr</i>

R134A is refrigerant is ozone friendly. Using lube oils with R134A can be harmful with compressor. So don't you lube oil with R134A

User



- Read carefully operating manual for using smoothly
- Take attention to all warnings in manual
- Protect operating manual during the usage
- If the product is transferred to someone else, this manual should be delivered to the user with the tractor
- If do not be followed the rules of operating manual and settings are changed on the product and the product is used by unauthorized persons, quarantee does not cover the faults caused by all of them

Attention



- If the internal temperature of the vehicle does not change, please contact with the nearest services
- Air conditioner should not be started at high speeds and high engine speeds
- Installation of air conditioner should be done only by the services.
- Quarantee does not cover installations that made out of an authorized service
- Maintenance and repair of air conditioner should be made by authorized services
- Always you should keep fire extinguisher in car despite the risk of fire

User

This operating manual aims to explain using and maintenance of product.

Responsibility

-Responsibilities of product owner:

-Product owner is responsible specified in operating manual the implementation of safety rules and for hand over the authorities and for the risks incurred as a result not applied.

-Also product owner is responsible periodic maintenance of product

-Responsibilities of manufacturer:

-If the all elements are fulfilled in specified instruction manual manufacturer is responsible from the risks resulting from the manufacturing and assembly errors.

The purpose of using the product

Air conditioner is used for heating and cooling in tractor cabin. AC system provides cool air or hot air to inside cabin. Also AC system provides fresh air and absorb the excess moisture. So AC system provides comfortable area for people.

AC system maintains comfort conditions automatically through what the person want temperature degree.

The Features of the air conditioning system

Refrigerant

HFC134a

Refrigerant Amount

850 gr

Compressor

SANDEN SD5H14

Capacity

136 cm³ / dak.

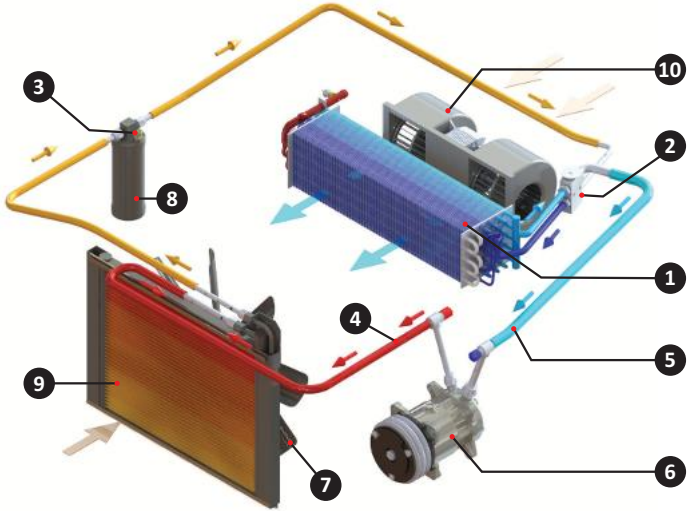
Type of oil

SANDEN PAG SP-20

Oil Amount

185 cm³

Introduction of product



- 1-Evaporator
- 2-Expansion valve
- 3-Thermostat
- 4-High-pressure line
- 5-Low-pressure line
- 6-Compressor
- 7-Axial Fan
- 8- Drier
- 9-Condanser
- 10-Blower

Digital Control Panel User Manual



A: AC System Open/Close Button

B: Blower maintenance button, every push increase blower speed

C: Increase Button; Increase temperature degree which shown section E

D: Reduce Button; Reduce temperature degree which shown section E

E: Digital Display, shows temperature degrees

F: Heater Open/Close Button

1 System Open Procedure

Firstly, start the engine then push  button and follow the instructions given below.

2 Starting AC System

-Before starting, temperature degree have to be set inside cabin.

-Push AC button so led light will be on. Temperature degree will be displayed on digital screen

-If you want to change temperature degree you can use increase and reduce button which shown C and D.

-If you want to set blower speed you can push button which shown B.

3 Starting Heater System

- Before starting, temperature degree have to be set inside cabin.
- Push heater button so led light will be on. Temperature degree will be displayed on digital screen
- If you want to change temperature degree you can use increase and reduce button which shown C and D.
- If you want to set blower speed you can push button which shown B.

4 Starting Ventilation System

- If you want to only ventilation system, it is enough to push open/close button. So, you can change blower speed with blower maintenance button.

5 Closing System

- Firstly, push heater and AC open/close button for closing.
- Push blower maintenance button reduce blower speed 3-1, again push and close system.

Attention Please;

- Don't open the AC sytem and heater before engine start.
- If AC system doesnt work long time, bad smell will be occur. If you want to prevent this, you must AC system for 5 minutes monthly. You must run AC system blower at 3th fan speed.Open the window for a short time.
- We advice to don't smoking when circulation in on. Smoke will be pile up on evaporator and bad smells will be occur. This cause change the evaporator and higher cost will be occur.

Practical information about air conditioner

- 1-Air conditioner should not be open without starting engine
- 2-Before starting air conditioner, windows and doors should be open for discharge hot air.
- 3-Air conditioner should be operated during 10-15 minutes on winter days.
- 4-After the engine start, firstly air conditioner should be operated low speed and then should be operated high speed
- 5-Air conditioner should be checked for refrigerant leakage during winter days
- 6-Pollen filter that is not changed in time can not make cooling enough even if air conditioner working
- 7-If the pollen filter is not cleaned in time, air conditioner doesn't work properly and doesn't cool ambient.

Daily and weekly maintenance

For prevent to performance decrease, you should clean the condenser which hinged to roof daily.

Manner Of Application;

1- Open the condenser protection cover.

2- After open the cover, remove the nuts with universal wrench No:11

3- Raise the condenser 90 degrees up and clean the condenser with dry air.

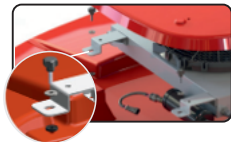
1

Open the condenser protection cover.



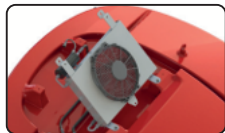
2

Remove the nuts with universal wrench No:11



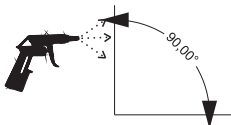
3

Raise the condenser 90 degrees up



3

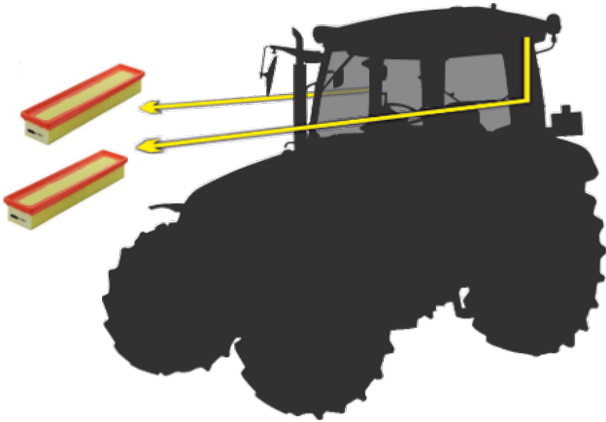
Clean the condenser with dry air.



Maintenance-Service

Daily and weekly maintenance

Activate the air conditioner and check whether the cooling process is healthy. If not cooling, please apply to our authorized services. Clean the air conditioning condenser in the roof with only dry air on a daily basis. Clean the cabin dust filters once a week.



Electrical Circuit Diagram and Authorized Service

The electrical circuit diagram of the air conditioner and the authorized service list are given in the Appendix
Only authorized servis can interfere to electrical system

Troubleshootings

<i>Problem</i>	<i>Solution</i>
Air conditioner is running but doesn't cool	1-Check fuse box Ampere value should be 25 ampere 2-Check cable plugs While cleaning engine with pressured water, cable plugs may be come out 3-Check Refrigerant Level (Only authorized services can apply) 4-Thermostat may be broken 5-Pressure sensor may be broken (Only authorized services can apply)
<i>Insufficient cooling</i>	1-Clean condenser with pressured air 2-Check heater water valve It maybe valve defect
<i>Insufficient air flows</i>	1- Clean the dust filter in cabin 2- Change pollen filter of AC (Only authorized services can apply)
Blower isn't working Air isn't blowing into cabin	1-Check fuse box Ampere value should be 25 ampere 2- If there is a mistake in fuse box, contact with authorized service

Troubleshootings

Problem	Solution
Blower is working, but heater doesn't heat the cabin	1- Heater water valve may be close 2- Radiator hose may be twist in profiles 3-Blower may not be getting air (contact the authorized service)

Error Code Instruction

Fault Code	Under Voltage	Over Voltage	Pressure Switch	In Temp Short Circuit	In Temp Open Circuit	Defrost Sensor	Code Instruction (Detection and Elimination)
E1	#						Under voltage (voltage \leq 9 \pm 1VDC): check generator supply circuit
E2		#					Over voltage (voltage \geq 16 \pm 1V DC): check generator supply circuit
E4			#				Pressure fault: check pressure switch circuit and system pressure
E8						#	Defrost sensor open or short circuit. Detect sensor return circuit
H				#			Internal temp. sensor short circuit: detect sensor circuit
L					#		In temp. sensor open circuit: detect sensor circuit

Remark: 1. "#": Fault occurs in this point

2. Voltage and pressure errors occur with error code and warning tone. Other errors occur with error code but no warning tone.

Identification Label of Product



Production Name : **AIR CONDITIONING**

Production Code : **IR-1507000**

Production Date : **20/07/2017**

Serial No : **AC 380**

Warranty

- Possible complaints should be reported from delivery date in eight day*
- If customer don't obey the rules of warranty, product can not be covered under warranty*
- Product is under warranty 2 year or 300 day along.*
- Warranty does not cover expense of working and transport*
- Warranty does not cover damages to the materials and persons*
- Warranty doesn't cover the faulty parts which changed or repaired by unaauthorized person.*
- Out of warranty situations, seller or user doesn't complain for the payment of damage*
- If the customer doesn't follow instructions in the manual*
- If the equipment is used faulty by customer*
- If the maintenance isn't applied correctly*
- If the customer doesn't use original spare parts or make revision without manufacturer company, the product warranty ends.*

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