

QUICK START-UP GUIDE

FOR THE PASSENGER PLANE

AN-24B

(Now with pictures!)

Description of the First Section

„Quick“ means quick, so the first section is meant to explain how to simply put the AN from a „cold-and-dark“ into a „ready-for-take-off“-state without any safety checks or similar preparations as there are in real life. Anyway, this guide is the fast way to explore this aircraft as it is in FlightGear now;

Real life checklists, instructions, restrictions and so on will be implemented over time with regard to official publications (e.g. the manuals from Interflug or the Soviet Ministry of Civil Aviation - so expect good old fashioned hierarchical „do-or-die“ instructions in the future!).

Description of the Second Section (still to be written)

This is not just a „How-to“ but rather a „How-the-hell-does-it-work“ - Everything with the inclusion of the state of the „FlightGear AN-24B“, thus systems which are not yet or only cursory implemented are only described in a short way.

For further reading, see e.g.:

<http://www.aviadocs.net/RLE/An-24/> (russian)

or

<http://www.interflug.biz/Flugzeuge/AN-24/FZH/FZH%20AN-24.pdf> (german)

FIRST SECTION

Tips:

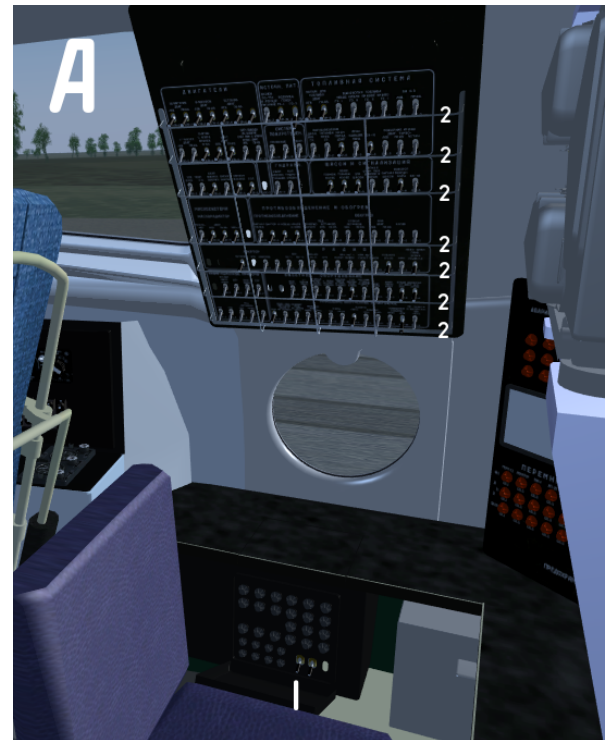
- Try to use keys 1-4 and < to change views if needed
- Ctrl + C shows clickspots and instruments' names
- Tooltips available!

A. Electricity first - as always

1. Open the hatch and close the two CIRCUIT-BREAKER SWITCHES of the BATTERIES at the fuse panel under the radio-operator/engineer's table
2. Close ALL SWITCHES on the AZS-(circuit-breaker) panel (best by clicking the "all-on"-clickspots to the right of each row)

B. Fuel next

1. Open CUT-OFF VALVES (up)
2. Turn main FUEL PUMPS ECN to „AUTO“ (up)
3. Turn secondary FUEL PUMPS 463 „ON“ (up)
4. Leave CROSSFEED VALVE closed
5. Turn on the RTMS FUEL FLOW COUNTERS (8.)
6. Click on the UAP-12
7. Look at the AMOUNT OF FUEL and divide by 2
8. Set this AMOUNT into each FUEL FLOW COUNTER (Left Click or Scroll Down, Shift accelerates your mouse actions)
9. Turn on the 2PPT-1 FUEL INDICATION left and right tanks,
10. Switch between „SUM“ (tanks groups 1+2), „1“ (tanks group 1) and „2“ (guess!) while...
11. ...Checking the AMOUNT on the 2PPT-1 FUEL INDICATOR



C. Engine Start

1. Open TG-16 APU CUT-OFF VALVE (up)
2. Put „HOT/COLD-Start“ switch to the down position („HOT“)
3. Start TG-16 APU
4. Wait until it has reached $> 36.000\text{rpm}$
5. Select LEFT AI-24 ENGINE (up)
6. Start LEFT AI-24 ENGINE - wait for it to spool until you select RIGHT AI-24 ENGINE (5. down) and Start RIGHT AI-24 ENGINE (6.)
7. Start the „FLIGHTTIMER“ on the AChS-CLOCK
8. After engine start, SHUT DOWN TG-16 APU and close CUT-OFF VALVE (1)



D. During Engine Spool-Up You may already...

1. Turn up ALL THESE SWITCHES under the left panel,
2. ALL THESE SWITCHES under the right panel and
3. ALL THESE ONES under the middle panel
4. Select „TAXI“ (up) or „T/O-LANDING“ (down) GEAR MODE



E. Now let's Align Compasses

1. Press ALIGN GIK (Gyro Induction Compass) BUTTON until
2. Needle on KPPM STOPS MOVING; set this HEADING on the
3. GPK (Gyro Poly Compass) by
4. Clicking here left or right (Shift helps!)
5. The correct LATITUDE should already be set here
6. Set desired initial AUTOPILOT HEADING on ZK



F. Comm/Radio and Other Stuff...

1. Adjust, tune and set to your needs as described in the Second section!

G. Nearly Done!

1. Set FLAPS 15° (by keyboard, switch missing...)
2. Prepare AUTOPILOT by putting up switch and
3. Wait until ORANGE LIGHT signalizes „ready“
4. Slowly ADVANCE THROTTLE to 100%; when reached
5. Start STOPWATCH,
6. Release PARKING BRAKE (Shift + B)
7. You KNOW THE REST!



SECOND SECTION

SPU-7 Communication device:

It is located at all four workplaces and lets you communicate with your crew members and listen and/or talk to radio stations.

You can select to which radio station you want to listen/talk to by switching knob (1) to the following positions:

- "UKR": R-802 No.1; Ultra-Shortwave Radio Station; This is pretty much like what we usually know as „COMM 1“
- "SR" : Medium-range radio station (Receiver US-8K and Transmitter SVB-5)
- "KR" : Short-range radio station (Receiver US-8K and Transmitter R-836)
- „DR“ : Radio R-802 No.2; like „COMM 2“
- „RK1“ : Radiocompass ARK-11 No.1; like „ADF 1“
- „RK2“ : Radiocompass ARK-11 No.2; like „ADF 2“

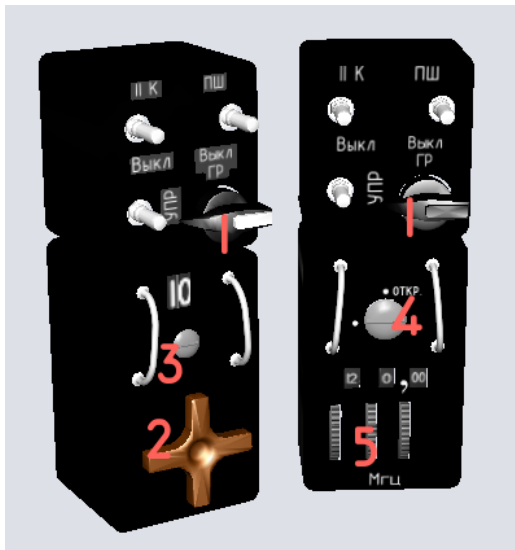
„SR“ and „KR“ are not yet implemented, so forget about them...



The volume you hear depends on the setting of the „SPU-Radio“-switch (2). Set the „General Volume“ (3) to 100% (advised!) and „Listen Volume“ (4) to, let's say 20% - With switch (2) set to „SPU“ (Intercomm), you will then hear crew-communication at 100%, the radio station you have selected at 20% volume - and vice versa with switch (2) set to „Radio“.

Please notice that the radio devices have volume-knobs, too, so don't forget to turn them up!

Switch (5) is used to switch between two networks, this function is rarely implemented on AN-24s, button (6) can be used as an „Emergency Call“-button - press it, and all participants will hear you at full loudness (not implemented yet).



R-802 Comm Radios No.1 and 2

The control panels of this Ultra-Shortwave Radio Station are mounted on the overhead panel with the left one being No.1 and the right one No.2.

No.1 serves as Comm1, No.2 as Comm2.

Block No.1 can store up to ten frequencies - which are “programmed” pre-flight in real life. In FlightGear, you can store them by doing the following:

1. Set a frequency by using the three wheels (5)
2. Choose any channel by turning (2)
3. Press screw (3) - frequency will now be stored at chosen channel
4. Repeat as desired!

Change output volume by knobs (1); Pressing screw (4) makes block No.2 “recall” the frequency which is currently selected on No.1. At the moment, frequencies in between .05 steps (e.g.133.77) have to be entered via FG's Radio dialog (F12).