

SCS TU-134 Switch Overview v0.31
 collected by
 UBS

1. Overhead Panel



- 1 - Left engine RPM limiter. Down to test, close cover for normal ops.
 - 2 - Left engine exhaust temperature control. Up - ON, down - OFF. Switch on before startup.
 - 3 - Right engine exhaust temperature control.
 - 4 - Right engine RPM limiter.
- For the following switches the up position is ON and down is OFF unless otherwise noted.
- 5 - Rudder hydraulic booster
 - 6 - Turn indicator, captain
 - 7 - ADF1
 - 8 - ADF2
 - 9 - Radio altimeter
 - 10 - DISS (Doppler speed and drift measuring equipment)
 - 11 - Aux hydrolic pump (see 12 and 14)
 - 12 - Hydraulic accumulator charge button. To charge flip the switch 11 to ON and press the button until the gauge on the overhead portion of the 1st officer's panel indicates full charge. The switch 11 flips back to neutral position when the button is released.
 - 13 - Nosewheel steering 55* mode
 - 14 - Autonomous hydrolic system

- 15 - Backup attitude indicator
- 16 - RSBN navigation system (may influence functionality of NAV2, don't remember the details well)
- 17 - STU (trajectory control system)
- 18 - NAV1
- 19 - NAV2
- 20 - Turn indicator, 1st officer
- 21 - Flashing beacons
- 22 - Nav lights
- 23 - KS-8 course system
- 24 - Altimeter, feet (captain)
- 25 - Altimeter, meters (captain)
- 26 - Attitude indicator, left
- 27 - HSI to ADF coupling (yellow needle), left - ADF1, right - ADF2
- 28 - Attitude indicator, right
- 29 - Attitude gyroscope control
- 30 - BKK bank control unit
- 31 - BKK test, either side - test, capped - normal ops
- 32 - Altimeter, 1st officer
- 33 - Elevator electric trim cutoff
- 34 - Flight controls feel system
- 35 - Fuel cutoff valve, left engine
- 36 - Fuel crossfeed valve
- 37 - Fuel cutoff valve, right engine
- 38 - Landing lights extension/retraction, left; up - retract, down - extend
- 39 - Landing lights extension/retraction, right
- 40 - Automatic fuel transfer
- 41 - Manual fuel transfer, 1st step
- 42 - Manual fuel transfer, 3rd step
- 43 - Anti-ice, wings and vertical fin
- 44 - Anti-ice, stabilizer
- 45 - Anti-ice, left nacelle
- 46 - Anti-ice, right nacelle
- 47 - Pitot heat, left
- 48 - Windshield heat, captain
- 49 - Canopy heat
- 50 - EGT indicators
- 51 - Landng lights select, left; up - taxi, down - takoff/landing, neutral - off.
Warning lamp below - doors/hatches open
- 52 - Landing lights select, right.
Warning lamp below - latches not secure
- 53 - Windshield heat, 1st officer
- 54 - Pitot heat, right (and AoA sensor vane)
- 55 - Fire control system.
White lights above - fire extinguisher stage ready.
Left to right - I stage (automatic), II stage, III stage.
Red lights above - fire warning.
Left to right - left engine, APU, right engine
- 56 - Fuel pumps automatic, left
- 57,58 - Fuel pumps, left engine and APU
- 59,60 - Fuel pumps, right engine
- 61 - Fuel pumps automatic, right

2. ?? Panel



1. Stabilizer angle control switch: up - to dive, down - to climb
2. AUASP (automatic angle of attack and g-force indicator) reset button (press after test on ground)
3. AUASP AZS
4. AUASP test button
5. Nose wheel turn to 55* mode indicator
6. Nose wheel turn switch (in off (to down) nose wheel locked for take off run)
7. PO-500 (Preobrazovatel Odnofaznii - one-phase inverter 500Watt 115V AC output) indicator switch
8. PO-500 switch, open cover and switch up... then after start up and connecting PO-4500 close cover to switch off
9. Interceptors mode switch: up - ON (extension permitted); middle - OFF (locked); down - forced retraction mode. WARNING: to extend switch you must switch it to up, and then after touchdown press / button on keyboard to extend interceptors, since extension of surfaces are controlled with other special handle on real plane.
10. Auto Throttle speed hold control switch: up - speedup; down - slowdown (see the orange marker on airspeed indicator, and take in account if current speed +/- 30km/h than selected then AT automatically disarms!)

3. Autopilot



1. Course control channel stand-by switch
2. Vertical control channel stand-by switch
3. AP command mode enable button (big black button)
4. Main AP stand-by switch
5. Altitude hold lamp-switch (orange)
6. ILS course capture push-button (yellow cylinder w/black head)
7. Trajectory Control System (STU) mode switch:
8. ILS glissade capture push-button
9. Vertical speed hold selector (black wheel with white arrow)
10. Bank controller - black turn handle in middle up.

To enable AP switch up down most stand-by switches, enable main stand-by switch in center then stabilize plane, and when in all up indicators will be read yellow flags press AP enable button, AP will hold current course and vertical speed. You may disengage all channels by central stand-by switch, or only selected by down stand-by switches.

With switch 7 in the left position, Button 6 activates Heading hold.

With switch 7 in the right position, Button 6 gives you Nav/Loc and Button 8 is the glideslope.

For a coupled ILS approach, Switch 7 should therefore be switched to the right and both 6 and 8 buttons pressed

4. Electrical Panel



- 1 – Generators Amperimeters
- 2 – APU generator amperimeter
- 3 – 27V voltmeter
- 4 – Ground Powersystem Available light
- 5 – Lamp Test Button
- 6 – Generator Advance & Retard setting Switches
- 7 – Voltmeter switch
- 8 – Generator Switches
- 9 – APU Generator Switch
- 10 – Ground Power Supply Switch
- 11 – 116V Voltmeter
- 12 – 27V / 115V Transformer Switch
- 13 - 27V / 115V Transformer Light
- 14 – 36V Voltmeter
- 15 – Battery Light
- 16 – Emergency Transformer Switch
- 17 – Main Transformer Switch
- 18 – 26V Voltmeter Switch
- 19 – Ground/APU/Battery Connect to Circuit Switch
- 20 – Main Battery Switch

5. APU Panel



- 1 – APU RPM gauge
- 2 – APU Temperature gauge
- 3 – Engine N1 gauge
- 4 – Right Engine Vibration gauge
- 5 – Bleed Air gauge
- 6 – Engine Vibration switch
- 7 – Left Engine Vibration gauge
- 8 – Start/Rotate APU switch
- 9 – Main APU switch
- 10 – Ready to start (?) light
- 11 – APU Start button
- 12 – APU Bleed Air switch
- 13 – APU Heat light
- 14 – APU Heat switch
- 15 – APU Stop switch
- 16 – Panel Lights switch

6. Engine Start Panel



- 1 – Left Engine Starter Mode switch
- 2 – Engine Starter Main switch
- 3 – Right Engine Starter Mode switch
- 4 – Left Engine Start button
- 5 – Right Engine Start button
- 6 – Left Engine Start Sequence Stop button
- 7 – Right Engine Start Sequence Stop button

7. Engines Startup

E – Electrical Panel

OH – Overhead Panel

APU – APU Panel

ES – Engine Start Panel

1. E20 - Batteries ON
2. E19 – Connect to Circuit
3. E16,17 – Middle Position
4. OH 40,55,56,57,58,59,60 – Fuel switches
5. APU 8,9,14 – Prepare APU Start
6. APU 10 – Light ON
7. APU 11 – Start APU
8. APU 1 – Check RPM
9. APU 12 – Bleed Air
10. APU 5 – Check Bleed Air Pressure
11. EP 9 – UP APU Generator on
12. E 20 – Down Batteries OFF
13. ES 2 – Left
14. ES 1 – UP
15. ES 4 – Start Left Engine
16. ES 1 – Middle
17. ES 2 – Right
18. ES 3 - UP
19. ES 5 – Start Right Engine
20. ES 3 – Middle
21. ES 2 – Middle
22. APU 6 – Up
23. EP 8,10,12 – UP Generators on
24. EP 16,17 – Left
25. EP 7 – Select Generator Voltmeter source
26. EP 1,2,3 – Check gauges
27. EP 19 - DOWN

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