Radar (Long Track [P-40]) - SA-6 & SA-8

Russia [1992-]

Type: Mobile Vehicle(s)
Commissioned: 1992
Operator: Army
Length: 4 m
Width: 6 m
Crew: 0



Sensors / EW:
- Long Track [P-40] - (1S12) Radar, Radar, Air Search, 3D Long-Range, Max range: 370.4 km

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OVERVIEW: The P-40 (1S12) (NATO name: LONG TRACK) is an mobile, 2-D tactical early warning radar operating in the "E" Band.

DETAILS: The P-40 LONG TRACK is a mobile early warning radar designed to equip tactical air defense units. Weapon systems associated with the P-40 include the SA-4 GANEF, SA-6 GAINFUL and SA-8 GEKO. It is usually supported by a THIN SKIN B height finding radar.

Specifications:

Frequency: 2.2-2.3 GHz (E-Band)
Power output: up to 2 MW (peak)
PRF: 400 / 800 pps
Range Resolution: 92 m/ 1 degree azmuth
Runup time:
Set up time:

Detection Ranges (2 m2 RCS 14 m/50 m tower height)
500 m altitude: 70 km
6000m: 150 km
12000m: 180 km

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NOTES: IOC 1963. The P-40 is mounted on tracked transporter.

SOURCES: Jane's Radar and Electronic Warfare Systems, "Long Track surveillance radar", 02 July 2001; Radar Basics. (n.d.). Retrieved from http://www.radartutorial.eu/19.kartei/karte912.en.html ; http://pvo.guns.ru/rtv/p40.htm ; "Search and Acquisition Radars (S-Band, X-band)." Air Power Australia. Accessed March 9, 2015. http://www.ausairpower.net/APA-Acquisition-GCI.html#mozTocId293095.