

PROV T 8709

Sov Stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
A. FUNCTIONS:										
Aircraft Functions				1						
a. acceleration				1						
b. interdiction				1						
c. interception				1						
d. countermeasure				1						
e. Acts as antidote for some threat or perceived weakness in overall defensive capability				1						

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PROTECT 8709
SOV. STEALTH

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
<u>B. OBJECTS:</u>										
Two side by side engines										
Single tail										
a. slopes back curved + reurved										
b. faint horizontal ridges										
Wings										
a. larger than US										
b. not as wide as US										
c. Stabilizing ridges mid wing on top										
Secret aircraft. (sov)				 						
a. matte, porous rough texture skin										
below a 90 degree ang										
b. carries beyond										
c. Prototype										

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<u>C. RELATIONSHIPS:</u>										
US practically disappears Sov does but leaves bigger trace				1						
Not as dark as US some silver showing				1						
Skin coating Primarily on underside				1						
Sov aircraft compared to US				1						
a. Sov US. more maneuverable				1						
b. US odds for aircraft of accomplishing mission higher				1						
c. Sov. flies faster, higher, straighter				1						
d. Sov. less maneuverable.				1						
e. Sov not as successful at NOE travel				1						
f. ^{Sov has} conservative design				1						
Sov. has conservative design approach				1						
a. steel cables instead of electronic links				1						
b. conventional control surfaces				1						
c. less versatile + precise fire control				1						
US + Sov weaknesses compared				1						
a. US time consuming to produce				1						
b. US some systems still experimental				1						
c. ^{US} unestablished field condition track record				1						
d. US. erosion some sort of hazard				1						
e. US limited payload				1						

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<u>C. RELATIONSHIPS:</u>										
US + Sov weaknesses compared (cont)				1						
f. Sov. fewer variety of situations				1						
g. Sov. shorter range (significantly)				1						
h. Sov. larger, heavier				1						
i. Sov. brittle construction				1						
j. Sov. high speed can reliability ↑ signature				1						
k. Sov unsoph Sov. unsophisticated avionics				1						
US + Sov strengths compared				1						
a. US. systems redundancy ↑ survivability				1						
b. US greater ^{margin of} performance & reaction				1						
c. US longer range				1						
d. US quieter.				1						
e. US some capabilities + chr. still concealed				1						
f. SOV FASTER				1						
g. Sov. primary controls + systems proven reliable				1						
h. Sov uses components from other aircraft				1						
i. Sov. easier to produce + cheaper				1						
j. Sov less skill to train + fly				1						
k. Sov. larger payload				1						

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 PROTECT
 sov stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
<u>C. RELATIONSHIPS:</u>										
Aircraft not as fancy as US				1						
a. in design				1						
b. in construction				1						
Aircraft performs in tighter envelope than US				1						
a. less forgiving of mishandling				1						
b. performance limits lower				1						
c. capabilities more limited				1						
d. not as refined in manufacture				1						
e. less attention to detail not directly function related				1						
Aircraft will be kept close to home				1						
Comparison to US aircraft				1						
a. more rigid				1						
b. more metal content				1						
c. signatures greater but still less than norm				1						
d. easier to make lots of aircraft				1						
Designed to reduce signatures				1						
a. cross cross-section				1						
b. density				1						
c. reflective				1						
d. noise				1						
e. heat				1						
f. turbulence				1						
g. deflecting				1						
h. magnetic				1						

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Soviet Stealth

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<u>C. RELATIONSHIPS:</u>										
Sov aircraft				1						
a. slopes up from tail to nose				1						
b. rear is close to ground				1						
c. from front has Flat appearance.				1						
d. Canopy is faceted				1						
e. body elements (wings stabilizers canopy air intake) merge smoothly into fuselage				1						
f. symmetrical top to bottom				1						
g. body flares out, edges rounded				1						
h. wings bulge with thicker part extend				1						
i. Two engines				1						
j. Air coming out cooler than usual				1						
k. iris-type thing at back of engine opens + closes as necessary				1						
l. microprocessor helps aircraft fly				1						
m. weapons are inside				1						