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INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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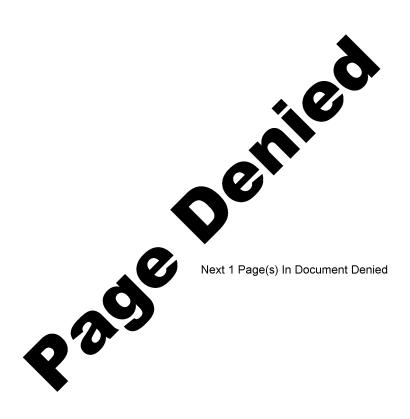
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COUNTRY	USSR	REPORT		
SUBJECT	Brief Technical Information on the Soviet T-54 Tank and PT-76 Amphibious Tank.	DATE DISTR.	27 November 1957	
		REQUIREMENT NO.		25 X ′
DATE OF INFO. PLACE & DATE ACQ.		REFERENCES		25X1
DATE ACQ.	SOURCE EVALUATIONS ARE DEFINITIVE. APPRA	ISAL OF CONTENT	IS TENTATIVE.	– 25X1
1. 2.	and the PT-76 amphibious tank	s technical as	pects of the T-54 tank	25X ⁻
3.	propulsion in water was accomplished by screws.	mphibious tank means of water	jets, rather than	
				25X1

ARMY review completed.

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	THE SOVIET T-54 AND AMPHIBIOUS PT-761 TANKS	25 X 1
7	Introduction	
THE T-54 TANK		
	rdnance Interrogation Guide - Hungary	
a.		2
	T-54 tank grews consisted of four men:	_
	a tank commander, a gumner. a loader. and a mechanic drive	,
	The 67th Tank Tng Bn trained students to fill each of these four positions in the T-54 tan	
ъ.		
	the following driver's controls:	
	(1) Two steering levers, slightly forward of the driver's	
	seat and located to the left and right of the driver.	,
	seat and located to the left and right of the driver. (2) A clutch pedal which was operated by the left foot.	
	 (2) A clutch pedal which was operated by the left foot. (3) A foot accelerator pedal which was operated by the right foot. (4) A brake pedal which activated 	2
	(2) A clutch pedal which was operated by the left foot.(3) A foot accelerator pedal which was operated by the right foot.	
	 (2) A clutch pedal which was operated by the left foot. (3) A foot accelerator pedal which was operated by the right foot. (4) A brake pedal which activated a hill brake ("gornyy tormos") and which was located between the clutch and foot accelerator pedals. The brake pedal was operated by the right foot. It was possible to lock 	
	 (2) A clutch pedal which was operated by the left foot. (3) A foot accelerator pedal which was operated by the right foot. (4) A brake pedal which activated a hill brake ("gornyy tormos") and which was located between the clutch and foot accelerator pedals. The brake pedal was operated by the right foot. It was possible to lock the brake (5) A gear shift lever which was located to the right rea of the right steering lever and was approximately 36 cm 	
	 (2) A clutch pedal which was operated by the left foot. (3) A foot accelerator pedal which was operated by the right foot. (4) A brake pedal which activated a hill brake ("gornyy tormos") and which was located between the clutch and foot accelerator pedals. The brake pedal was operated by the right foot. It was possible to lock the brake (5) A gear shift lever which was located to the right rea of the right steering lever and was approximately % cm from it. (6) A hand throttle of the cogged segment type. This throttle was located to the driver's right and was mounted in the floor. The top of the throttle extended approximately 15 cm above the floor. Engine RPM could be adjusted to an unknown specific rate, and the throttle could be locked in position. It was released by pressing a button 	ar d

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-3-
The only sighting device in the driver's compartment was a periscope type instrument
padded forehead rest above the vision eyepiece.
the driver's duties as follows:
(1) Starting and driving the tank.
The driver would start the tank by turning on the main switch and would then pump the accelerator pedal several times. He would then press the starter button with his left hand. If the batteries were dead the engine might be started by using a compressed air system
(2) Operating the bow machine gun. The bow machine gun had a fixed mount and was located to the right of the mechanic driver.
(3) Maintenance duties.
(4) Activating the fire extinguisher system.
See paragraph nn below.
The driver's hatch was of the swivel type. With his left hand the driver would open it by means of a handle just above his left shoulder. As the handle was turned, the cover would rise approximately eight centimeters as if spring loaded. The driver would turn it forward and to the left. With the driver's seat adjusted to its highest position, a driver of average height would clear the hatch opening at approximately chest level. When the driver's hatch was in the open position, the turnet could not be traversed electrically, but Source could not describe the means of
disconnection.
The tank commander occupied the seat located to the left rear of the main armament.

periscope.

only vision device.

The loader had an "MK" periscope identical to the commander's

this was the loader's

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1.	Are gun safety devices provided for the loader? Where are they located?	25 X 1
	The only safety device for the loader the recoil guard which was about 40 cm long and about 12 cm wide. A man could move between the guard and rear turnet wall	25X1
,,		25%
·		
	stored in the rack to the right of the main gun; these rounds were stored horisontally in four or five layers.	25X′
		25 X ′
	Rounds were also stored vertically along the right wall (facing toward the front of the tank). perhaps 20 rounds could be stored in these floor-mounted ready racks, consisting of floor-mounted cups and wall center clips.	25X′
. 4		
7.	three types of rounds having been fired by	, 25 X 1
	the T-54 tank- AP, tracer tanks firing 100-mm rounds, but usually they fired sub- caliber rounds of 45 mm, 75 mm, and either 25 or 35 mm.	25X′
и.		
6. →	The turret was of the basket type. The gunner's and commander's seats were mounted directly to the floor, which rotated with the turret. loader's seat was mounted to the floor or to the turret	25X′
	vell.	

The main armament ammunition ready racks (see v. above), located along the right wall of the fighting compartment, rotated with the turret, but the forward main ammunition storage rack did not rotate. The fighting compartment wall extended from approximately 2 o'clock to 10 o'clock.

There were two small doors in the rear fighting compartment wall which opened inward and gave access to the fuel tank selector switch. The main gum had to be in the forward position to give access to the selector switch through these small doors.

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25X1

CONFIDENTIAL -9-25X1 11. there were three fuel tanks. The fuel tank selector lever, located at the rear of the fighting compartment (see paragraph x. above) had three 25X1 positions. this was further proof of the fact there were three fuel tanks. nn. a possible fixed fire extinguisher system was that on the wall, approximately 22 on above the bow machine gum and to the right of the mechanic driver, there were 3 betters in a small case with a face of red transparent glass. Above the buttons was a small label reading, "Fire Extinguisher". Under the but-25X1 tons were labels reading "Combat Compartment", "Engine Compartment", and "Mechanic Driver". Under the buttons was a sign reading. "Use only in emergency". 00. the number of batteries or their locathe total battery weight was 54 kg and that the combined voltage was 24 volts. pp. There was a wall between the fighting compartment and the 25X1 fuel tank selector switch referred to in paragraph x. above was located in this wall. qq. TT.

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	tional T-54 Tank Inform	ation		
electricall	tank commanders give t	was open, the turret could ove), and the main armament he command to close the hat	ich, and when it was	25X1
commanded a	ally close the hatch".	un or rotate the turret ele The hatch had to be closed	fully	25X1

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The leader's hatch, as well as the driver's hatch, could be rotated

The motor and centrals for rotatine the turnet were located to the

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ar De i	of the vehicle. The	water interes and discharged intakes were located near t measured approximately 15 cm	the rear of the hull and x 25 cm. They were opened	the ·
ar ne m d nt:	of the veldele. The ath the fenders and sense of a multi-lessed action outward.	water interes and discharged intakes were located near t measured approximately 15 cm ared expensement of which the	through the two ports at the rear of the hull and x 25 cm. They were opened baffles opened to the rear direction was effected by	the ·
ar no m d nta	of the vehicle. The ath the fenders and a substitution outward.	water interes and discharged intakes were located near t measured approximately 15 cm and arrangement of which the change in water discharge through each	through the two ports at the rear of the hull and x 25 cm. They were opened baffles opened to the rear direction was effected by	the ·
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