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FM 30-42

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WAR DEPARTMENT

BASIC FIELD MANUAL

MILITARY INTELLIGENCE

IDENTIFICATION OF FOREIGN ARMORED VEHICLES GERMAN, JAPANESE, RUSSIAN ITALIAN, AND FRENCH

June 20, 1941

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BASIC FIELD MANUAL

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MILITARY INTELLIGENCE

IDENTIFICATION OF FOREIGN ARMORED VEHICLES GERMAN, JAPANESE, RUSSIAN ITALIAN, AND FRENCH

> Prepared under direction of the Chief of Staff

> > REGRADED UNCLASSIFIED BY AUTHORITY OF DOD DIR. 5200. 1 R

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FM 30-42, Military Intelligence, Identification of Foreign Armored Vehicles, German, Japanese, Russian, Italian, and French, is published for the information and guidance of all concerned.

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By order of the Secretary of War:

G. C. MARSHALL, Chief of Staff.

OFFICIAL:

E.S. ADAMS.

Major General,

The Adjutant General.

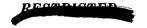
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(For explanation of symbols, see FM 21-6.)

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FM 30-42

BASIC FIELD MANUAL MILITARY INTELLIGENCE

IDENTIFICATION OF FOREIGN ARMORED VEHICLES GERMAN, JAPANESE, RUSSIAN, ITALIAN, AND FRENCH

SECTION I

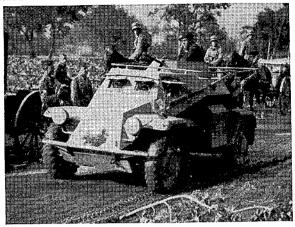
GENERAL

- 1. Purpose.—The purpose of this manual is to serve as a guide in the identification of foreign armored vehicles. The material has been secured from many sources. It is the best available but may be incomplete and, in some respects, inaccurate.
- 2. Scope.—This manual, containing illustrations with explanatory data relative to foreign armored vehicles, German, Japanese, Russian, Italian, and French, is published for limited distribution. When illustrations are not given, blank spaces have been left so that they may be added when provided. The manual will be used for instruction of officers and men in the appearance and general characteristics of armored vehicles and will be safeguarded as prescribed in AR 380-5.
- 3. METHOD OF IDENTIFICATION AND CLASSIFICATION OF ARMORED VEHICLES.—For method of identification and classification of foreign armored vehicles see FM 30-40.



Section II ARMORED VEHICLES OF THE GERMAN ARMY

GERMAN ARMY



SCOUT CAR

HORCH LEICHTER PANZERSPAHWAGEN I (HORCH LIGHT ARMORED CAR)

- 1. Crew: Two or three (gunner and driver; sometimes radio operator also).
- 2. Armament: One machine pistol and one machine gun mounted for ground or antiaircraft fire.
- Ammunition:
- 4. Armor, thickness:

Upper structure:

Front: 0.39-inch 0.31-inch.

(Plates all set at angle. Proof against armor - piercing small a m munition

(all around.)

- 5. Turret: No. 6. Vision: 7. Ventilation:

- 8. Communications: Some cars of this type possess radio.
- 9 Dimensions:

Length: 10 feet. Width: 7 feet. Height: 5 feet.

- 10. Weight: 4 tons (4 wheels).
 11. Motor:

Type:

Cooling system:

Horsepower:

Horsepower per ton:

12. Drive:

13. Speed:

Cross country: 20 miles per hour.

Road: 53 miles per hour. Maximum:

- 14. Cruising radius, at speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Normal automobile type.
- 19. Performance:

Ground clearance:

Climbs _____ slopes. Negotiates vertical obsta-

cle ____ high. Crosses trenches

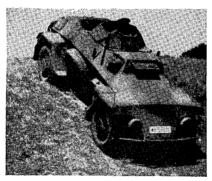
wide.

Fords streams ____ deep. 20. Remarks: Open top has grating to hold out grenades but is vulnerable to fire

from above.

GERMAN ARMY

SCOUT CAR HORCH LEICHTER PANZERSPAHWAGEN I (HORCH LIGHT ARMORED CAR)



Top

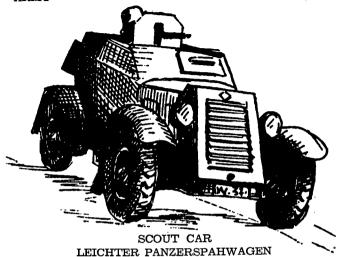
Front

Rear



Side

GERMAN ARMY



(LIGHT ARMORED CAR) M-I

- 1. Crew: Two (driver and gunner) or three (if fitted with radio).
- 2. Armament: One light machine gun (mounted for ground orantiaircraft fire).
- 3. Ammunition: 4. Armor, thickness:
 - Upper structure: Less than

0.39-inch. Front: 0.39-inch. Proof

armor-piercing against small arms ammunition only in front.

Sides: Less than 0.39-inch.

- 5. Turret: No. 6. Vision:
- 7. Ventilation: 8. Communications: Some cars of this type possess radio.
- 9. Dimensions:

Length: 10 feet 0 inches. Width: 5 feet 7 inches. Height: 5 feet 5 inches.

- 10. Weight: 1.77 tons (4 wheels).
- 11. Motor:

Type:

Cooling system:

Horsepower:

- Horsepower per ton:
- 12. Drive:
- 13. Speed:

Cross country: Road: 50 miles per hour. Maximum:

- 14. Cruising radius, at speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Normal automobile type.
- 19. Performance:

Ground clearance: Climbs _____° slopes.

Negotiates vertical obstacle ____ high. Crosses trenches _

wide.

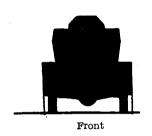
Fords streams ____ deep. 20. Remarks: This type is constructed for light scouting purposes. It possesses a

completely open top. The machine gun is provided with a shield. Believed now to be an obsolescent type.

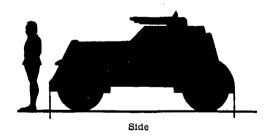
GERMAN ARMY

SCOUT CAR LEICHTER PANZERSPAHWAGEN (LIGHT ARMORED CAR) M-I

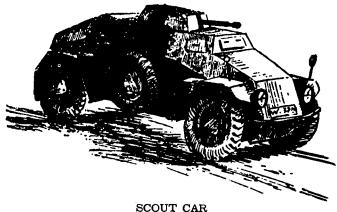
Top



Rear



GERMAN ARMY



HORCH LEICHTER PANZERSPAHWAGEN II (HORCH LIGHT ARMORED CAR II)

- 1. Crew: Two (driver and gunner-commander).
- 2. Armament: One 20-mm machine gun; one machine pistol.
- 3. Ammunition:
- Armor, thickness: Upper structure:

Plates all set at angle. Front: Proof against 0.39 inch. | armor-pierc-Sides: ing small 0.31 inch. arms ammunition all l around.

- Turret: Yes.
- 6. Vision:7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 10 feet. Width: 7 feet. Height: 5 feet 2 inches.

- 10. Weight: 4.2 tons.
- 11. Motor:

Type:

Cooling system: Horsepower:

Horsepower per ton:

12. Drive:

13. Speed:

Cross country: 20 miles per hour

Road: 53 miles per hour.

- Maximum: 14. Cruising radius, at
- speed ____ miles. 15. Operating distance without refill:

- 16. Gear speeds and ratios:17. Turning radius:18. Suspension, type: Non. Normal automobile type.
- 19. Performance:

Ground clearance:

Climbs _____ slopes.

Negotiates vertical

stacle ____ high. Crosses

wide.

Fords streams ____ deep. 20. Remarks: An alternative model of the Horch Panzerspahwagen I, with slightly larger turret. It has the same large opening on the top protected by a grating only.

GERMAN ARMY

SCOUT CAR HORCH LEICHTER PANZERSPAHWAGEN II (HORCH LIGHT ARMORED CAR II)

Top



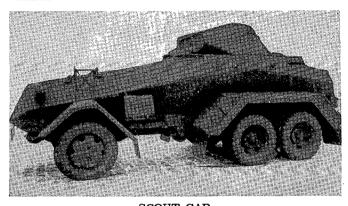
Front

Rear



Side

GERMAN ARMY



SCOUT CAR SCHWERER PANZERSPAHWAGEN 36 (HEAVY ARMORED CAR TYPE 1936)

- Crew: Four (two drivers, one gunner-commander, one gunner) (one driver acts as radio operator).
- as radio operator).

 2. Armament: One 20-mm machine gun; one machine pistol.
- Ammunition: 1,800 rounds for light machine gun; 200 rounds for heavy gun.
- 4. Armor, thickness:
 Upper structure: 0.39 inch.

Front: 0.59 inch.
Sides: 0.39 inch.
Turret: 0.59 inch.
Turret: 0.59 inch.

- 5: Turret: Yes.
- 6. Vision:
- 7. Ventilation:
- Communications: Some of this type have radio with rigid frame aerial which reduces traverse of turret guns to 150° and blocks antiaircraft fire.
- 9. Dimensions:

Length: 16 feet. Width: 7 feet 4 inches. Height: 8 feet.

- 10. Weight: 61/2 tons (6 wheels).
- 11. Motor:

Type: V-8.
Cooling system: Water.
Horsepower:
Horsepower per ton:

- 12. Drive:
- 13. Speed:
 - Cross country: 20 miles per hour.

Road: 40 miles per hour.

Maximum: 50 miles per hour.

- Reverse: 30 miles per hour.

 14. Cruising radius, at _____
 speed ____ miles.
- 15. Operating distance without refill: 180 miles.
- 16. Gear speeds and ratios: 5 gear speeds.
- 17. Turning radius: 10 to 12 feet.
- Suspension, type: Normal automobile type.
- 19. Performance:

Ground clearance:

Climbs _____° slopes.

Negotiates vertical obstacle _____ high.

Crosses trenches _____

wide.

Fords streams _____ deep.

20. Remarks: This car carries a smoke-producing appa-ratus. Believed now to be an obsolescent type.

GERMAN ARMY

SCOUT CAR SCHWERER PANZERSPAHWAGEN 36 (HEAVY ARMORED CAR TYPE 1936)



View



Front Rear



Side

GERMAN ARMY



SCOUT CAR 8 RAD PANZERSPAHWAGEN (8-WHEEL HEAVY ARMORED CAR)

- 1. Crew: Four or five (two drivers, one gunner-commander, one gunner) (if fitted with radio, also a radio operator).
- 2. Armament: One 20-mm machine gun; one light machine gun.
- 3. Ammunition:
- 4. Armor, thickness: Upper structure: Front: 0.79 inch. Sides: 0.2 to 0.79 inch. Turret: 1.18 inches.
- 5. Turret: Yes.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Certain cars of this type possess radio.
- 9. Dimensions:
 - Length: 17 feet 6 inches. Width: 8 feet. Height: 8 feet 9 inches.
- 10. Weight: 9 to 10 tons (8 wheels).
- 11. Motor:

Type: Cooling system: Horsepower: Horsepower per ton:

- 12. Drive: 13. Speed:

Cross country:

Road: Maximum: 53 miles per hour.

- 14. Cruising radius, at speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Normal automobile type.
- 19. Performance:

Ground clearance: Climbs _____° slopes. Negotiates vertical obsta-

cle ____ high. Crosses trenches

wide. Fords streams ____ deep.

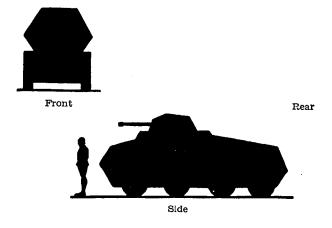
20. Remarks:

GERMAN ARMY

SCOUT CAR 8 RAD PANZERSPAHWAGEN (8-WHEEL HEAVY ARMORED CAR)

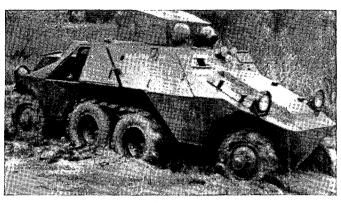


View



314752°--41---2

GERMAN ARMY



ARMORED CAR (NEW MODEL)

1. Crew: 12. Drive: 2. Armament: 13. Speed: 3. Ammunition: Cross country: 4. Armor, thickness: Road: Upper structure: Maximum: Front: 14. Cruising radius, at _____ Sides: speed _____ miles. 5. Turret:
6. Vision:
7. Ventilation: 15. Operating distance without refill: 16. Gear speeds and ratios: 17. Turning radius:
18. Suspension, type:
19. Performance: 8. Communications: 9. Dimensions: Length: Width: Ground clearance: Height: Climbs _____ slopes. 10. Weight: 11. Motor: Negotiates vertical obstacle ____ high. Crosses trenches Type: Cooling system: wide. Horsepower: Fords streams ____ deep. Horsepower per ton: 20. Remarks:

GERMAN ARMY

ARMORED CAR (NEW MODEL)

Top

Front Rear

Side

GERMAN ARMY



LIGHT TANK K I-KRUPP

1.	Crew: Two.
2.	Armament: Two machine
	guns.
3.	Ammunition:
4.	Armor, thickness:
	Upper structure:
	Front: 0.50 inch.
	Sides:
	Turret:
	Vision:
	Ventilation:
	Communications:
•9.	Dimensions:
	Length:
	Width:
	Length:
	Weight: 5.5 tons metric.
11.	Motor:
	Type:
	Cooling system:
	Horsepower:
	Horsepower per ton:
	Drive:
13.	Speed:

FANK
RUPP
Cross country: 12 miles per hour. Road:
Maximum: 28 miles per
per hour.
14. Cruising radius, at
speed miles.
15. Operating distance without
refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Caterpillar
4 rollers: 1 tension wheel
at rear; 3-track suspen-
sion wheel,
19. Performance:
Ground clearance:
Climbs° slopes.
Negotiates vertical ob-
stacle high.
Crosses trenches
wide.
Fords streams deep.
20. Remarks: Believed to be an
obsolete type.

GERMAN ARMY LIGHT TANK K I-KRUPP



View



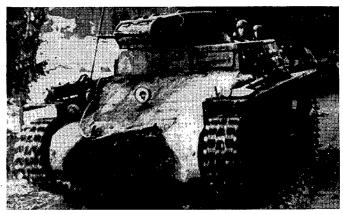
Front

Rear



Side

GERMAN ARMY



LIGHT TANK PZ KW I (PANZER KRAFTWAGEN I) (MAYBACH TYPE)

- 1. Crew: Two (driver and gun-
- 2. Armament: Two 7.9-mm machine guns coaxially mounted on roller type mounting.
- 3. Ammunition: 1,625 rounds (armor-piercing).
- 4. Armor, thickness: 0.55 inch. Upper structure: Front:
- 5. Turret: Turret has a rounded back, very squat, and is mounted on the right hand side of tank.
- 6. Vision:
- 7. Ventilation:

Sides:

- 8. Communications: Radio receiver.
- 9. Dimensions:
 - Length: 13 feet. Width: 6 feet 5 inches. Height: 5 feet 8 inches.
- 10. Weight: 5.7 tons.
- 11. Motor:

Type: V-8. Cooling system: Air. Horsepower: 90 to 100. Horsepower per ton:

- 12. Drive: Front sprocket.
- 13. Speed:

- Cross country: 12 miles per hour.
- Road: 32 miles per hour. Maximum:
- 14. Cruising radius, at speed ____ miles.
- 15. Operating distance without refill: 95 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:18. Suspension, type: Fivespoked bogie wheels, 1 independently sprung, and the last 4 being connected by an outside girder bearer. Rear idler wheels almost on the ground. Four track support wheels.
- 19. Performance:

Ground clearance: 1 foot. Climbs 45° slopes. Negotiates vertical obsta-

cle ____ high.

Crosses trenches 4 feet 7 inches wide.

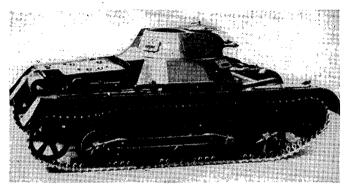
Fords streams 2 feet deep. 20. Remarks: A large number of these tanks are in existence and may be converted

into machine-gun carriers. No more being manufactured.

18

GERMAN ARMY

LIGHT TANK PZ KW I (PANZER KRAFTWAGEN I) (MAYBACH TYPE)



View



Front Rear



Side

GERMAN ARMY



LIGHT TANK PZ KW II (PANZER KRAFTWAGEN II) (MAYBACH TYPE)

- Crew: Three (gunner, driver, radio operator).
- 2. Armament: One 20-mm machine gun; one light machine gun in roller-type mountings.
- Ammunition:
- 4. Armor, thickness: Thickest known, 0.59 inch.

Upper structure: Front:

Sides:

- 5. Turret: Similar to PZ KW I with flat back.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio receiver.
- 9. Dimensions:

Length: 14 feet, 8 inches. Width: 6 feet. Height: 5 feet, 6 inches.

- 10. Weight: 9 tons.
 11. Motor:

Type: V-8. Cooling system: Air. Horsepower: 125. Horsepower per ton: 13.9.

12. Drive: Front sprocket.

13. Speed:

Cross country: 18 miles per hour.

Road: 28 miles per hour. Maximum:

- 14. Cruising radius, at _____ speed ___ miles.
- 15. Operating distance without refill: 125 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Five large bogie wheels, Christie 4 track support type; wheels. Older types have 6 small bogies, 4 connected by girders.
- 19. Performance:

Ground clearance:

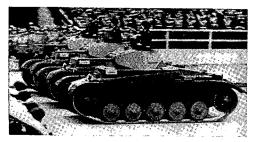
Climbs _____° slopes. Negotiates vertical obstacle 1 foot 11 inches high. Crosses trenches 4 feet 11

inches wide. Fords streams 2 feet 6

inches deep. 20. Remarks: This tank may be converted into a flame thrower.

GERMAN ARMY

LIGHT TANK PZ KW II (PANZER KRAFTWAGEN II) (MAYBACH TYPE)



View

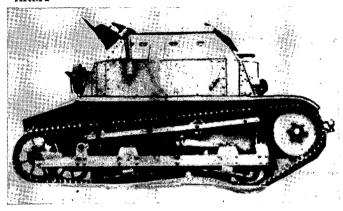


Front Rear



Side

GERMAN ARMY



LIGHT TANK TK, TKF, OR TKS (EX-POLISH)

- 1. Crew: Two (driver and gunner).
- 2. Armament: Two 7.9-mm Hotchkiss machine gun (1 spare).
- 3. Ammunitión: 2,360 rounds.
- 4. Armor, thickness:

Upper structure: 0.15 inch to sides: 0.39 inch.

- 5. Turret: None.
- Vision: Periscope attachment.
- 7. Ventilation:
- Communications: Flag.
- 9. Dimensions:

Length: 8 feet 6 inches. Width: 6 feet.

Height: 4 feet 6 inches.

- 10. Weight: 2.5 tons.
- 11. Motor:

Type: 4-cylinder Ford or 6-cylinder Fiat.

Cooling system: Water. Horsepower: 24 horsepower, 4-cylinder Ford; 45 horsepower, 6-cylinder Flat.

Horsepower per ton: 9.6 or 18, depending on motor installed. 12. Drive:

Brake—front sprocket.

13. Speed:

Cross country: 25 miles per hour. Road: 31¼ miles per hour.

Maximum: 14. Cruising radius, at _____

- speed ____ miles.

 15. Operating distance without
- refill: 85 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Two pairs of bogies, Carden-Lloyd.
- 19. Performance:

Ground clearance: 1 foot. Climbs 45° slopes.

Negotiates vertical obstacle 1 foot 4 inches high.

Crosses trenches 5 feet wide.

Fords streams 1 foot 8 inches deep.

20. Remarks: May be equipped with 20-mm machine guns and used as antitank machine-gun carriers. Poland had 750 of these tanks.

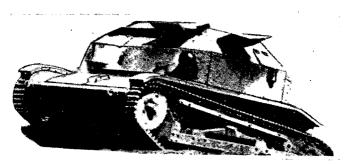
GERMAN ARMY

LIGHT TANK TK, TKF, OR TKS (EX-POLISH)

Top

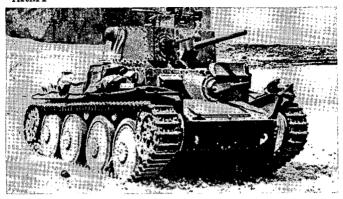
Front

Rear



Side

GERMAN ARMY



LIGHT TANK TN HP (EX-CZECH)

- Crew: Three or four (driver, commander, two gunners).
- Armament: One 37-mm gun; one machine gun mounted coaxially in turret; one machine gun on hull at driver's left.
- Ammunition: 90 rounds for 37-mm; 2,700 rounds for machine gun.
- 4. Armor thickness: Thickest known now 1 inch, being

raised to 2 inches.
Upper structure:

Front: Sides:

5. Turret: Round turret surmounted by round observtion cupola on righthand

- side. 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio, flag, and lamp.
- 9. Dimensions:

Length: 15 feet, 2 inches.
Width: 6 feet, 9 inches.

Height: 7 feet, 4 inches.

10. Weight: 8.5 tons (being raised to 12.5 tons).

11. Motor:

Type: 6-cylinder. Cooling system: Water. Horsepower: 125. Horsepower per ton: 14.1

- to 10.4.
 12. Drive: Front sprocket.
- 13. Speed:

Cross country: Road: 26 miles per hour. Maximum:

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 125 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: 4 large bogie wheels, 3 track support wheels, low rear idler wheel.
- 19. Performance:

Ground clearance: 1 foot, 4 inches.

Climbs 40° to 45° slopes. Negotiates vertical obstacle 2 feet, 8 inches high.

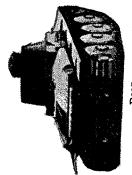
Crosses trenches 6 feet, 5 inches wide.

Fords streams ____ deep.

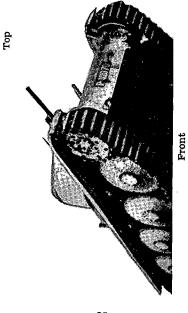
20. Remarks: A large number have been delivered to Germany. With increased armor may be used as an infantry tank.

GERMAN ARMY

LIGHT TANK TN HP (EX-CZECH

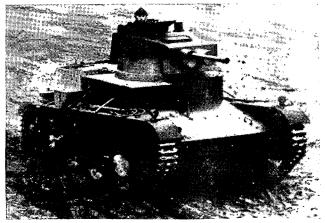


Rear



Side

GERMAN ARMY



LIGHT TANK 7 TP (EX POLISH)

- Crew: Three (driver, gunner, and commander wireless operator).
- 2. Armament: One 37-mm Bofors; one light machine gun coaxially mounted.

 Ammunition: 80 rounds for gun; 4,000 rounds for machine gun.

4. Armor, thickness: Thickest known 0.7 inch. May be increased to 0.8 inch to 1 inch.

Upper structure: Front:

Sides:

- Turret: High turret with long-barreled gun in round mounting.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- Dimensions:
 Length: 15 feet.
 Width: 7 feet 11 inches.
 Height: 7 feet 2 inches.
- 10. Weight: 9.5 tons.
- Motor:

Type: 6-cylinder Diesel. Cooling system: Water.

- Horsepower: 100. Horsepower per ton: 10.6.
- 12. Drive: Front sprocket.13. Speed:
 - Cross country:

Road: 22 miles per hour. Maximum:

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 90 miles.
- 16. Gear speeds and ratios:

17. Turning radius:

- 18. Suspension, type: 8 small bogie wheels; high front driving sprocket; spoked rear idler wheel; fourtrack support wheels.
- 19. Performance:
 Ground clearance: 1 foot

3 inches.

Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 6 inches high.

Crosses trenches 6 feet wide.

Fords streams 3 feet deep. 20. Remarks:

GERMAN ARMY TANK 7 TP (EX POLISH)

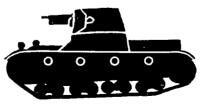


View



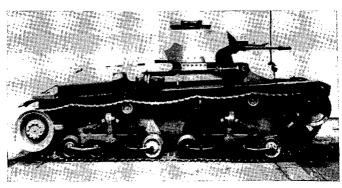
Front

Rear



Side

GERMAN ARMY



LIGHT TANK

LT 35 S2a

(EX-CZECH)

- 1. Crew: Three (driver, gunner, radio operator-commander).
- 2. Armament: One 37-mm gun, two light machine guns (1 coaxially mounted, 1 on ball-mounting forward in hull).
- Ammunition:
- 4. Armor, thickness: Thickest known, 0.95 inch. Upper structure:

Front:

- Sides:
- 5. Turret: Oblong face, cylindrical back; observation cupola on top left side; 37-mm and machine gun side by side in oblong face.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio and flag.
- 9. Dimensions:

Length: 16 feet 2 inches. Width: 7 feet 6 inches. Height: 7 feet 10 inches.

- 10. Weight: 11.5 tons.
- 11. Motor:

Type: 6-cylinder. Cooling system: Horsepower: 110. Horsepower per ton: 9.6.

- 12. Drive: Rear sprocket.
- 13. Speed:

Cross country: Road: 16 miles per hour. Maximum:

- 14. Cruising radius, at _____
- speed ____ miles. 15. Operating distance without refill: 70 miles.
- 16. Gear speeds and ratios.
- 17. Turning radius:
- Eight 18. Suspension, type: small bogie wheels. One independent; 2 bogies and twin bogie wheel on rocker with leaf springing. Four track support wheels. Both idler wheel and rear driving sprocket have large outside rim which overlaps the edge of the track.
- 19. Performance:

Ground clearance: Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 7 inches high.

Crosses trenches 6 feet 6 inches wide.

Fords streams 2 feet 7 inches deep.

20. Remarks:

GERMAN ARMY LIGHT TANK LT 35 S2a (EX-CZECH

Top



Front

Rear



Side

GERMAN ARMY

LIGHT TANK TNHS 38

		A
	Crew:	Cross country:
2.	Armament: 37-mm guns.	Road:
	Ammunition:	Maximum:
	Armor, thickness:	14. Cruising radius, at
4.		speed miles.
	Upper structure:	15. Operating distance withou
	Front:	
	Sides:	refill:
5.	Turret:	Gear speeds and ratios:
	Vision:	17. Turning radius:
	Ventilation:	18. Suspension, type:
	Communications:	19. Performance:
		Ground clearance:
9.	Dimensions:	
	Length:	Climbs slopes.
	Width:	Negotiates vertical obsta
	Height:	cle high.
10	Weight: 8 tons.	Crosses trenches
	Motor:	wide.
11.		Fords streams deep
	Type:	
	Cooling system:	20. Remarks: It is reported tha
	Horsepower:	this tank can be trans
	Horsepower per ton:	ported in modified Ju 9
19	Drive:	and Focke-Wulf 200 air
		planes.
13.	Speed:	P

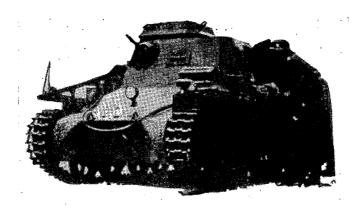
GERMAN ARMY LIGHT TANK TNHS 38

Top

Front Rear

Side

GERMAN ARMY



LIGHT TANK LIGHT COMMANDERS TANK

- 1. Crew: Three (driver, gunner, and commander).
- 2. Armament: One 7- to 9-mm machine gun in ball mounting
- 3. Ammunition:
- 4. Armor, thickness: 0.55-inch. Upper structure: Front:

Sides:

- 5. Turret: None. Hull built up to rigid square top with boxlike cupola.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 13 feet.

Width: 6 feet 5 inches. Height: 5 feet 8 inches.

- 10. Weight: 5.7 tons. 11. Motor:

Type: V-8.

Cooling system: Air. Horsepower: 90 to 100. Horsepower per ton: 15.8.

12. Drive:

13. Speed:

Cross country:

Road: 32 miles per hour. Maximum:

- 14. Cruising radius, at _____ speed ____ miles.
- Operating distance without refill: 95 miles.
- 16. Gear speeds and ratios:

17. Turning radius:

- 18. Suspension, type: spoked bogie wheels, 1 independently sprung and the last four connected by an outside girder bearer. Rear idler wheels almost on the ground. Four track support wheels.
- 19. Performance:

Ground clearance: 1 foot. Climbs 45° slopes.

Negotiates vertical stacle ____ high.

Crosses trenches 4 feet 7 inches wide.

Fords streams 2 feet deep. 20. Remarks: Armored office

with fixed square turret.

GERMAN ARMY

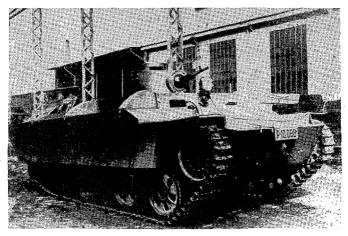
LIGHT TANK LIGHT COMMANDERS TANK

Top

Front

Rear

GERMAN ARMY



LIGHT AMPHIBIAN F 4 HE (EX-CZECH)

- 1. Crew: Three (gunner, driver, and commander) 2. Armament: One or two light
- machine guns.
- 3. Ammunition: 4,000 rounds. 4. Armor, thickness:

Upper structure: Front:

Sides:

- 5. Turret: Small round turret with light machine gun on ball mounting and round look-out cupola.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio. flag, and lamp.
- Dimensions:

Length: 17 feet 6 inches. Width: 7 feet 7 inches.

- Height: 6 feet 11 inches. 10. Weight: 6.2 tons.
- 11. Motor:
 - Type: 4-cylinder. Cooling system: Water. Horsepower: 120.
- Drive: Front sprocket.
- 13. Speed:

Cross country:

- Road: 28 miles per hour. Maximum:
- In water: 31/2 miles per hour.
- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 90 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Four large bogie wheels. High front idler wheel. Float which comes down as far as the top of the bogie wheels. The vehicle has screws at the rear.
- 19. Performance:

Ground clearance: 1 foot. Climbs 35° to 45° slopes. Negotiates vertical obstacle ____ high.

Crosses trenches 7 feet 1 inch wide.

Fords streams ____ deep. Amphibian.

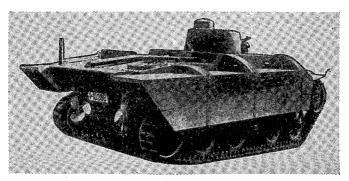
Horsepower per ton: 19.4. 20. Remarks: One hundred of , these known to exist. An improved model may have been produced.

GERMAN ARMY LIGHT AMPHIBIAN F 4 HE (EX-CZECH)

Top

Front

Rear



GERMAN ARMY



MEDIUM TANK PZ KW III (PANZER KRAFTWAGEN III) (MAYBACH TYPE)

- 1. Crew: Three or four (driver and two gunners).
- 2. Armament: One 37-mm gun and one machine gun coaxially mounted; one machine gun on hull.
- 3. Ammunition:
- 4. Armor, thickness: Thickest known, 1 inch to 1.18 inches.

Upper structure:

Front:

Sides:

- Turret: Similar to PZ KW II with small, round conning tower.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 16 feet 5 inches. Width: 7 feet 6 inches. Height: 7 feet 6 inches.

- 10. Weight: 18 tons; 16 tons metric.
- 11. Motor:

Type:

Cooling system:

Horsepower: 300.

Horsepower per ton: 16.7.

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country:

Road: 28 miles per hour. Maximum:

- 14. Cruising radius, at ____ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
 - (1) Six small independent bogie wheels with heavy rubber tires.
 - (2) Eight small bogie wheels.
 - 3) Five large bogie wheels, Christie type; three track
- support wheels.

 19. Performance:

Ground clearance:

Climbs _____° slopes.
Negotiates vertical obstacle ____ high.

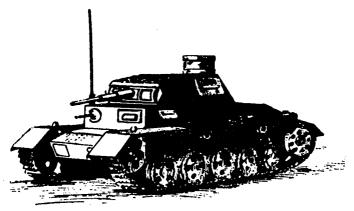
Crosses trenches . wide.

Fords streams 2 feet 11 inches deep.

20. Remarks:

GERMAN ARMY

MEDIUM TANK PZ KW III (PANZER KRAFTWAGEN III) (MAYBACH TYPE)



View



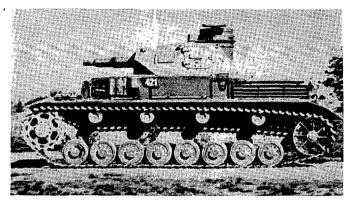
Front

Rear



Side

GERMAN ARMY



MEDIUM TANK PZ KW IV (PANZER KRAFTWAGEN IV)

- Crew: Four or five (driver, hull gunner, wireless operator, commander-gunner).
- 2. Armament: One 75-mm gun; one machine gun coaxially mounted; one machine gun in ball mounting.
- 3. Ammunition:
- 4. Armor, thickness: Thickest known 1.18-inch to 1.57-inch.

Upper structure:

Front: Sides:

- 5. Turret: Identical with that of PZ KW III.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 17 feet (approximately).

Width: 7 feet 3 inches. Height: 8 feet 6 inches.

- 10. Weight: 22 tons.
- 11. Motor:

Type:

Cooling system: Horsepower: 350.

Horsepower per ton: 15.9.

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country: Road: 31 miles per hour. Maximum:

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Caterpillar eight independent rollers; eight small bogie wheels; four track support wheels.
- 19. Performance:

Ground clearance:

Climbs ____° slopes. Negotiates vertical of

stacle ____ high.

Crosses trenches ___ wide.

Fords streams 3 feet 6 inches deep.

20. Remarks: The armor plating on this type of tank has been increased recently, which should impair its performance. Horizontal engine with louvres at rear at each side of builtup hull.

GERMAN ARMY

MEDIUM TANK PZ KW IV (PANZER KRAFTWAGEN IV)



Тор



Front



Rear



Side

GERMAN ARMY



MEDIUM TANK CZD-V8-H (EX-CZECH)

- 1. Crew: Three or four (driver, commander, one cr two gunners).
- 2. Armament: One 47-mm gun and one machine gun coaxially mounted in turret: one machine gun in hull, fore.
- 3. Ammunition: 90 rounds for 47-mm gun; 3,000 rounds for small arms.
- 4. Armor. thickness: Thickest known, 1.25 inch.

Upper structure: Front:

Sides:

- 5. Turret: The turret is streamlined tapering toward the rear, surmounted by cupola on left hand side. trance to turret in hull to left behind turret.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio and lamp.
- 9. Dimensions:

Length: 17 feet 6 inches. Width: 7 feet 6 inches. Height: 7 feet 8 inches.

- 10. Weight: 16.5 tons. 11. Motor:

Type: V-8.

Cooling system:

Horsepower: 245.

Horsepower per ton: 14.8.

Drive: Rear sprocket. 13. Speed:

Cross country: Road: 27 miles per hour.

Maximum: 14. Cruising radius, at _____

speed ____ miles. Operating distance without

refill: 96 miles. 16. Gear speeds and ratios:

17. Turning radius:

- 18. Suspension, type: Nine bogie wheels; independent bogie; four pairs of bogies each with elliptical leaf springing connected by outside bearer girder.
- 19. Performance:

Ground clearance: 1 foot 6 inches.

Climbs 41° slopes.

Negotiates vertical stacle 3 feet 3 inches high.

Crosses trenches 7 feet 6 inches wide.

Fords streams 3 feet 3 inches deep.

20. Remarks:

GERMAN ARMY

MEDIUM TANK CZD-V8-H (EX-CZECH)

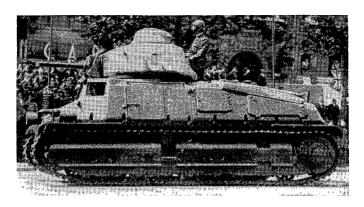
Top

Front

Rear



GERMAN ARMY



MEDIUM TANK (FRENCH SOMUA S 1935)

- 1. Crew: Three (driver, gunner. commander).
- 2. Armament: One 47-mm gun; one light machine gun.
- 3. Ammunition: 120 rounds for gun: 5,000 rounds for light machine gun.
- 4. Armor, thickness: 11/2-inch. Upper structure:

Front: Sides:

- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio;
- 9. Dimensions:

Length: 17 feet 6 inches. Width: 6 feet 8 inches. Height: 8 feet 10 inches.

- 10. Weight: 18 tons.
- 11. Motor:

Type: V-8.

Cooling system: Water. Horsepower: 190.

Horsepower per ton:

12. Drive: Rear sprocket.

13. Speed:

Cross country:

Road: 29 miles per hour. Maximum:

- 14. Radius of action: 140 miles. 15. Operating distance without
- refill: 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: nine bogie wheels; four bogies with leaf springing; one independent bogie wheel; protected by skirting.
- 19. Performance:

Ground clearance: 1 foot 4 inches.

Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 11 inches high.

Crosses trenches 7 feet 10 inches wide.

Fords streams 3 feet 3 inches deep.

20. Remarks: Considerable numbers were in existence.

GERMAN ARMY

MEDIUM TANK (FRENCH SOMUA S 1935)

Top



Front

Rear



GERMAN ARMY

MEDIUM TANK (FRENCH SOMUA S AU 40)

1.	Crew:	Three	(four?)	(driver,
			r, gunne	r (load-
_	er?)			

2. Armament: one 75-mm gun.

3. Ammunition:

4. Armor, thickness: 11/2-inch. Upper structure: Front:

Sides:

5. Turret:

6. Vision:7. Ventilation:

- 8. Communications: Radio; flag.
- 9. Dimensions:

Length: 19 feet 5 inches. Width: 6 feet 11 inches. Height: 8 feet 10 inches.

10. Weight: 21.5 tons. 11. Motor:

Type: V-8. Cooling system: Water. Horsepower: 190. Horsepower per ton:

12. Drive: Rear sprocket.

13. Speed:

Cross country:

Road: 20 miles per hour. Maximum:

14. Radius of action: 140 miles.

15. Operating distance without refill:

16. Gear speeds and ratios:

17. Turning radius:

18. Suspension, type: (Same as Serial 8.)

19. Performance:

Ground clearance: 1 foot 4 inches.

Climbs -----° slopes. Negotiates vertical obstacle 2 feet 11 inches

high. Crosses trenches 7 feet 10

inches wide.

Fords streams 3 feet 3 inches deep.

20. Remarks: Thirty-two were in existence. Long-bar-relled 75-mm, gun was mounted in the hull. Was to be used as armored artillery.

GERMAN ARMY MEDIUM TANK
(FRENCH SOMUA S AU 40)

Top

Front Rear

GERMAN ARMY



HEAVY TANK PZ KW V/VI (PANZER KRAFTWAGEN V/VI)

- 1. Crew: Seven or eight (driver, commander, radio operator, three gunners, loader).
- 2. Armament: One 75-mm or one 105-mm gun coax-ially mounted; one 47-mm or one 37-mm gun; three light machine guns.
- Ammunition:
- 4. Armor, thickness: Thickest known, 1.96 inch. Upper structure:

Front:

Sides:

- 5. Turret: Round at rear, surmounted by observation cupola to the rear. Two small auxiliary turrets, with one machine gun each, one forward to right of driver, one behind main turret on left.
- 6. Vision: 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 25 to 26 feet. Width: 9 feet.

Height: 10 to 11 feet.

10. Weight: 32 to 35 tons. 11. Motor:

Type: Cooling system: Horsepower: 350. Horsepower per ton: 10.9.

12. Drive: Rear sprocket.

13. Speed:

Cross country: Road: 20 miles per hour.

- Maximum: 14. Cruising radius, at _ speed ____ miles.
- 15. Operating distance without refill: 75 to 85 miles.
- 16. Gear speeds and ratios:

17. Turning radius:

- 18. Suspension, type: Almost covered by armored skirting. Eleven small bogie wheels. One independent bogie wheel. Five pairs of bogies, each pair sprung on knee action system.
- 19. Performance:

Ground clearance:

Climbs _____ slopes. Negotiates vertical obstacle 4 feet 7 inches high.

Crosses trenches 11 feet six inches wide.

Fords streams 3 feet 6 inches deep.

20. Remarks: Massive mounting with either a 105-mm gun mounted below a 37-mm gun or a 75mm gun mounted at side of a 47-mm gun.

GERMAN ARMY

HEAVY TANK

PZ KW V/VI (PANZER KRAFTWAGEN V/VI)

Top



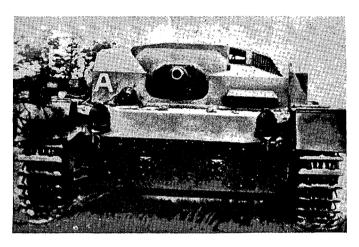


Front Rear



Side

GERMAN ARMY



STURMGESCHUTZ

1.	Crew:	12.	Drive:
2.	Armament:	13.	Speed:
3.	Ammunition:		Cross country:
4.	Armor, thickness:		Road:
	Upper structure:		Maximum:
	Front:	14.	Cruising radius, at
	Sides:		speed miles.
5.	Turret:	15.	Operating distance withou
6.	Vision:		refill:
7.	Ventilation:	16.	Gear speeds and ratios:
8.	Communications:	17.	Turning radius:
9.	Dimensions:	18.	Suspension, type:
	Length:	19.	Performance:
	Width:		Ground clearance:
	Height:		Climbs° slopes.
10.	Weight.		Negotiates vertical obstacl
11.	Motor:		high.
	Type:		Crosses trenches
	Cooling system:		wide.
	Horsepower:		Fords streams deep
	Horsepower per ton:	20	Remarks:

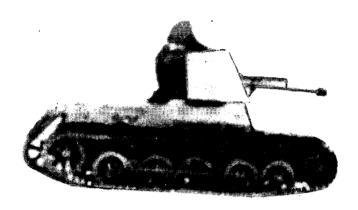
GERMAN ARMY

STURMGESCHUTZ

Top

Front Rear

GERMAN ARMY



47-MM ANTITANK GUN ON SELF-PROPELLED MOUNT

- 1. Crew: Three.
- 2. Armament: One 47-mm gun.
- 3. Ammunition: 100 rounds.
- 4. Armor, thickness: 3/8 inch welded.

Upper structure:

Front: Sides:

- 5. Turret:
- 6. Vision: Eye slits, telescopic sight on 47-mm gun.
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 15 feet.

Width: 6 feet. Height: 4-foot body; top

of shield 8 feet.

- 10. Weight: 5 tons.
- 11. Motor:

Type: V-8.

Cooling system: Air. Horsepower: 90 to 100.

Horsepower per ton:

- 12. Drive: Front sprocket.
- 13. Speed:

country: 12 miles Cross per hour.

Road: 32 miles per hour. Maximum:

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 95 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:

19. Performance: Ground clearance:

Climbs _____ slopes. Negotiates vertical obstacle

10 inches high. Crosses trenches 5 feet

wide.

Fords streams ____ deep. 20. Remarks: Similar to MI

Light Tank.

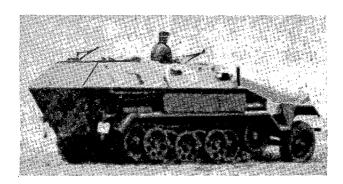
GERMAN ARMY

47-MM ANTITANK GUN ON SELF-PROPELLED MOUNT

Top

Front Rear

GERMAN ARMY



PERSONNEL CARRIER

(Personnel carrier; commanders' car; antitank gun tractor)

- 1. Crew: One driver, 1 assistant driver, 10 passengers.
- 2. Armament: One machine gun each end of body for antiaircraft purposes.
 3. Ammunition: 44 boxes.
- 4. Armor, thickness: 0.1 inch. Upper structure: very thin. Front: Sides:

- 5. Turret:6. Vision:7. Ventilation:
- 8. Communications: 9. Dimensions:

Length: Width: Height:

10. Weight: 11. Motor:

Type:

Cooling system:

Horsepower:

Horsepower per ton:

- 12. Drive:
- 13. Speed:

Cross country: Road:

Maximum:

- 14. Cruising radius, at _ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:18. Suspension, type:
- 19. Performance:

Ground clearance:

Climbs _____ slopes.

Negotiates vertical obstacle ____ high.

Crosses trenches _____

wide.

Fords streams ____ deep.

20. Remarks:

GERMAN ARMY

PERSONNEL CARRIER (Personnel carrier; commanders'

car; antitank gun tractor)

Top

Rear Front



1 As antitank tractor.

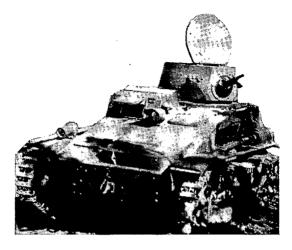


② Commanders' car.



SECTION III ARMORED VEHICLES OF THE JAPANESE ARMY

JAPANESE ARMY



TANKETTE, ISHIKAWAJIMA, M 2592 (1932)

- 1. Crew: Two (one driver and one gunner).
- 2. Armament: One machine gun in turret.
- 3. Ammunition:
- 4. Armor, thickness:

Upper structure: 0.31 to 0.55 inches.
Front:

Sides:

- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 10 feet 2 inches. Width: 5 feet 9 inches. Height: 5 feet 4 inches.

- 10. Weight: 3 tons.
- 11. Motor:

Type: 4-cylinder. Cooling system: Air. Horsepower: 45. Horsepower per ton: 15.

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country:

Road:

Maximum: 30 miles per hour.

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: four bogie wheels; two bogies Carden-Lloyd system.
- 19. Performance:

Ground clearance: 1 foot 1 inch.

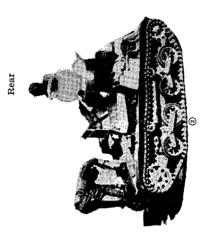
Climbs _____° slopes.
Negotiates vertical obstacle ____ high.
Crosses trenches _____

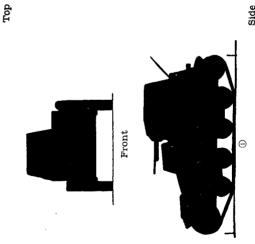
wide.

Fords streams _____ deep.

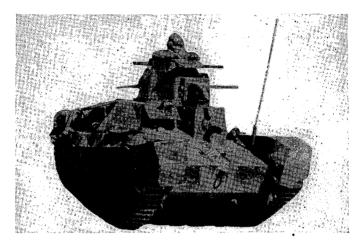
20. Remarks: Known as lightarmored vehicle. Used
with armored trailer for
supply and intercommunication. Based on CardenLloyd.

JAPANESE ARMY TANKETTE ISHIKAWAJIMA M 2592 (1932)





JAPANESE ARMY



TANKETTE, M 2595 (1935)

- 1. Crew: Two (one driver and one gunner).
- 2. Armament: One 37-mm gun in turret and two machine guns in hull fore.
- 3. Ammunition:
- 4. Armor, thickness: 0.47 inch. Upper structure: Front:

Sides:

- 5. Turret:
- 6. Vision: 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 13 feet.

Width: 4 feet 9 inches. Height: 6 feet 5 inches.

- Weight: 4 tons.
 Motor:

Type:

Cooling system: Air.

Horsepower: 70.

Horsepower per ton: 17.5.

13. Speed:

Cross country:

Road:

Maximum: 22 miles per hour.

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Four bogie wheels; 2 bogies.
- 19. Performance:

Ground clearance:

Climbs _____ slopes. Negotiates vertical obsta-

cle ____ high.

Crosses trenches wide.

Fords streams ____ deep.

20. Remarks:

JAPANESE ARMY TANKETTE M 2595 (1935)

Тор



Front

Rear



Side

JAPANESE ARMY

TANKETTE, ISHIKAWAJIMA, M 2598 (1938)

- 1. Crew: Three (one driver, two gunners).
- 2. Armament: One machine gun in turret and one machine gun in hull fore.
- 3. Ammunition: 5,000 rounds small arms.
- 4. Armor, thickness: 0.55 inch. Upper structure: Front:

Sides:

- 5. Turret:
- 6. Vision: 7. Ventilation:
- 8. Communications: 9. Dimensions:

Length: 10 feet 3 inches. Width: 5 feet 9 inches. Height: 5 feet 4 inches.

- 10. Weight: 3 tons.
- 11. Motor:

Type:

Cooling system: water and

Horsepower: 55.

Horsepower per ton: 18.3.

- 12. Drive: Front sprocket. 13. Speed:

Cross country.

Road:

Maximum: 33 miles per hour.

- 14. Cruising radius, at _____
- speed 61 miles. 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Four bogie wheels; two bogies.
- 19. Performance:

Ground clearance:

Climbs 34° slopes.

Negotiates vertical obstacle 2 feet 1 inch high.

Crosses trenches 4 feet 9 inches wide.

Fords streams 2 feet 9

inches deep. 20. Remarks: In use in Man-

churia.

JAPANESE ARMY TANKETTE ISHIKAWAJIMA M 2598 (1938)

Тор

Front Rear

JAPANESE ARMY

LIGHT TANK, M 2592 (1932)

- 1. Crew: Three (one driver, two gunners).
- 2. Armament: One machine gun in turret; one 13-mm machine gun in hull fore.
- 3. Ammunition:
- 4. Armor, thickness: 0.31- to 0.43-inch.

Upper structure: Front: Sides:

- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 12 feet 10 inches. Width: 5 feet 4 inches. Height: 6 feet 1 inch.

- 10. Weight: 5 tons.
- 11. Motor:

Type: 6-cylinder Mitsubishi.

Cooling system: Air. Horsepower: 85.

Horsepower per ton: 17.

- 12. Drive: Front sprocket.
- 13. Speed;

Cross country.

Maximum: 28 miles per hour.

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Six bogie wheels; 3 bogies.
- 19. Performance:

Ground clearance: 1 foot.

Climbs 34° slopes. Negotiates vertical obsta-

cle 1 foot 8 inches high. Crosses trenches 4 feet 6

inches wide. Fords streams 2 feet 6

inches deep.

Remarks: Known as heavy armored vehicle.

JAPANESE ARMY

LIGHT TANK M 2592 (1932)

Top

Front

Rear

JAPANESE ARMY



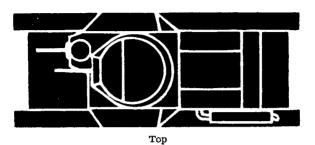
LIGHT TANK, M 2593 (1933)

- 1. Crew: Three (one driver and two gunners).
- 2. Armament: One machine gun in turret, one machine gun in hull fore.
- 3. Ammunition:
- 4. Armor, thickness: 0.86-inch. Upper structure: Front:
 - Sides:

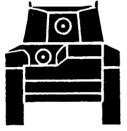
- 5. Turret:
 6. Vision:
 7. Ventilation:
 8. Communications: Flag.
- 9. Dimensions: Length: 14 feet 8 inches. Width: 5 feet 11 inches. Height: 6 feet.
- 10. Weight: 7 tons.
 11. Motor:
- - 6-cylinder Mitsu-Type: bishi.
 - Cooling system: Air. Horsepower: 85.
 - Horsepower per ton: 12.1.
- 12. Drive: Front sprocket.
- 13. Speed:

- Cross country:
- Road:
- Maximum: 28 miles per hour.
- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18 Suspension, type: Six bogie wheels; three bogies.
- 19. Performance:
 - Ground clearance: 1 foot 3 inches.
 - Climbs 42° slopes.
 - Negotiates vertical obstacle 1 foot 8 inches high.
 - Crosses trenches 5 feet 8 inches wide.
 - Fords streams 2 feet 8 inches deep.
- 20 Remarks: Trials have been made with experimental amphibious model of this tank.

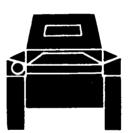
JAPANESE ARMY LIGHT TANK M 2593 (1933)



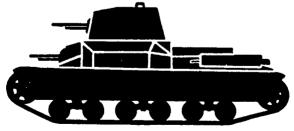




Front



Rear



Side

JAPANESE ARMY

LIGHT TANK, M 2595 (1935)

1. Crew: Three (one driver and two gunners).

2. Armament: One 47-mm gun in turret; two 7.7-mm machine guns in hull fore.

3. Ammunition: 120 rounds 47mm; 1,350 machine gun. 4. Armor, thickness: 0.47 inch.

Upper structure: 0.47 inch. Front: 0.47 inch. Sides: 0.39 to 0.47 inch.

5. Turret: Single.

- 6. Vision: Telescopic sights and glass protected slits.
- 7. Ventilation: Louvres.
- 8. Communications: Radio.
- 9. Dimensions:

Length: 14 feet 9 inches. Width: 6 feet 6 inches. Height: 6 feet 6 inches.

- 10. Weight: 7.7 tons.
- 11. Motor:

Type:

Cooling system: Air.

Horsepower: 110 at 1,400

revolutions per minute. Horsepower per ton: 14.2.

12. Drive: 13. Speed:

Cross country: Road:

Maximum: 22 miles per hour.

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 120 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Eight bogie wheels; four bogies.
- 19. Performance:

Ground clearance: 1.2 feet. Climbs 40° slopes.

Negotiates vertical obstacle 2.6 feet high.

Crosses trenches _____

wide.

Fords streams 3.2 feet deep.

20. Remarks:

JAPANESE ARMY

LIGHT TANK M 2595 (1935)

Top

Front Rear

JAPANESE ARMV

LIGHT TANK, M 2599 (1939)

- 1. Crew: Three (one driver and two gunners).
- 2. Armament: One 37-mm gun and one machine gun.
- 3. Ammunition: 2,500 rounds small arms and 250 rounds.
- 4. Armor, thickness: 0.37-inch. Upper structure: 0.63-inch. Front: Sides:
- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 16 feet 6 inches. Width: 5 feet 8 inches. Height: 7 feet 4 inches.

- 10. Weight: 7 tons. Motor: 4-cylinder.
- Type: Diesel.

Cooling system: . Horsepower: 45.

Horsepower per ton: 6.5.

12. Drive:

13. Speed:

Cross country:

Road: Maximum: 121/2 miles per

hour.

- 14. Cruising radius, at _____ speed 110 miles. 15. Operating distance without
- refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Nine bogie wheels; four bogies; one independent bogie wheel.
- 19. Performance:

Ground clearance: Climbs 38° slopes.

Negotiates vertical obsta-

cle ____ high.

Crosses trenches 6 feet 4 inches wide.

Fords streams 1 foot 8 inches deep.

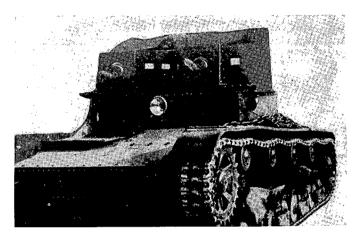
20. Remarks:

JAPANESE LIGHT TANK
ARMY STATES AND ROTORS M. 1939

Top

Front Rear

JAPANESE ARMY



LIGHT TANK COPY OF VICKERS-ARMSTRONG 6-TON ALTERNATIVE A (1936)

- 1. Crew: Three.
- 2. Armament: Two machine guns.
- 3. Ammunition:
- 4. Armor, thickness: 0.51-inch to 0.2-inch.

Upper structure: Front:

Front: Sides:

- 5. Turret: Double.
- 6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 15 feet ½ inch. Width: 7 feet 11½ inches. Height: 6 feet 9% inches.

- 10. Weight: 6.75 net; loaded, 8.1 tons.
- 11. Motor:

Type:

Cooling system:

Horsepower:

Horsepower per ton:

- 12. Drive:
- 13. Speed:

Cross country: Road: 22 miles per hour.

Maximum:

14. Cruising radius, at _____ speed ____ miles.

- Operating distance without refill: 96 miles.
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Leaf spring; pivoted bogies; rubber-tired rollers.
- 19. Performance:

Ground clearance:

Climbs 45° slopes. Negotiates vertical obsta-

cle 2 feet 5 inches high.

Crosses trenches 6 feet
wide.

Fords streams 3 feet deep.

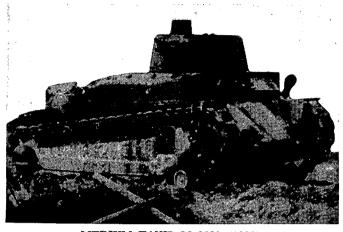
20. Remarks:

JAPANESE ARMY LIGHT TANK
COPY OF VICKERS-ARMSTRONG 6-TON ALITERNATIVE
A (1936)

Top

Front Rear

JAPANESE ARMY



MEDIUM TANK, M 2589 (1929)

- 1. Crew: Five (one driver, one commander, and three gunners).
- 2. Armament: One 37-mm gun in turret, one machine gun (rear), one machine gun in hull fore.
- 3. Ammunition: 4,000 rounds small-arms and 200 rounds 37-mm.
- 4. Armor, thickness: 0.43-inch to 0.67-inch. Upper structure: Front:
 - Sides:
- 5. Turret: 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag.
- Dimensions:
 - Length: 17 feet 6 inches. Width: 8 feet 4 inches. Height: 8 feet 6 inches.
- 10. Weight: 11.5 tons.
- Motor:

Type: Mitsubishi. Cooling system: Air water.

Horsepower: 100.

Horsepower per ton: 8.7.

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country:

Road:

Maximum: 20 miles per hour.

- 14. Cruising radius, at _____ speed 150 miles.
- Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Nine bogie wheels; four bogies; one independent bogie skirting.
- 19. Performance:

Ground clearance: 1 foot 6 inches.

Climbs 35° slopes.

Negotiates vertical obstacle ____ high.

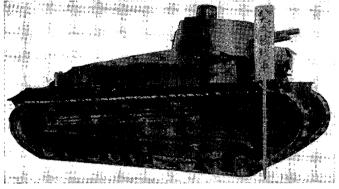
Crosses trenches 8 feet 6 inches wide.

Fords streams 3 feet deep. 20. Remarks: Based on Vickers

Mark C. Several variants of this type. 57-mm gun may be alternative to 37mm.

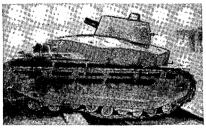
JAPANESE ARMY

MEDIUM TANK M 2589 (1929)



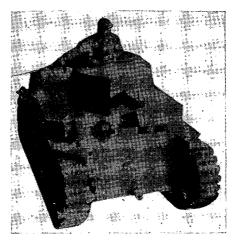
View

Front Rear



Side

JAPANESE ARMY



MEDIUM TANK, M 2590 (1930) (OR 92-1932)

- 1. Crew: Five (one driver, one commander, and three gunners).
- 2. Armament: One gun, one machine gun in turret, and one machine gun in hull fore.
- 3. Ammunition: 5,000 rounds small-arms and 300 rounds 37-mm.
- 4. Armor, thickness: 0.23- to 0.67-inch. Upper structure:

Front:

Sides:

- 5. Turret:
- 6. Vision:7. Ventilation:
- 8. Communications: 9. Dimensions:

Length: 17 feet 6 inches. Width: 8 feet 4 inches. Height: 8 feet 6 inches.

- 10 Weight: 11.31 tons.11. Motor:

Type: 6-cylinder Osaka Kikasi.

Cooling system: Air.

Horsepower: 120.

Horsepower per ton: 10.6. 12. Drive:

13. Speed:

Cross country:

Road: Maximum: 27 miles per hour.

- 14. Cruising radius, at _____ speed 147 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Nine bogie wheels; four bogies; one independent bogie wheel protective skirting.

19. Performance:

Ground clearance: Climbs 38° slopes. Negotiates vertical obstacle ____ high.

Crosses trenches wide.

Fords streams ____ deep. 20. Remarks: Used by naval landing party.

JAPANESE ARMY MEDIUM TANK M 2590 (1930) (OR 92-1932)

Top

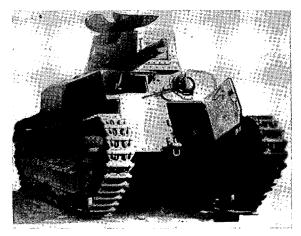


ont Rear



Side

JAPANESE ARMY



MEDIUM TANK, M 2594 (1934)

- 1. Crew: Five.
- Armament: One 37-mm gun and one machine gun in turret; one machine gun and one bomb in hull fore. Mortar inside.
- Ammunition: 6.000 rounds small-arms; 120 rounds 37mm; 100 bombs.
- 4. Armor, thickness: 11- to 67-

mm. Upper structure: 0.67-inch. Front: 0.67-inch.

Sides, top, and rear: 0.43inch.

- 5. Turret:
- Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions: Length: 20 feet 10 inches

(with tail). Width: 8 feet 4 inches.

Height: 8 feet 6 inches.

10. Weight: 14 tons.

11. Motor:

6-cylinder Mitsubishi airplane. Cooling system: Air; louvre at rear.

Horsepower: 160.

Horsepower per ton: 11.4.

- Drive: Front sprocket.
- 13. Speed:

Cross country:

Road:

Maximum: 28 miles per hour.

- 14. Cruising radius, at _____ speed 157 miles.
- 15. Operating distance without refill: 124 miles (210 gals.)
- Gear speeds and ratios: 8 forward: 2 rear.
- 17. Turning radius:
- 18. Suspension, type: Eight bogie wheels; four bogies, one independent bogie wheel.
- 19. Performance:

Ground clearance: 1 foot

6 inches.

Climbs 46° slopes.

Negotiates vertical obsta-

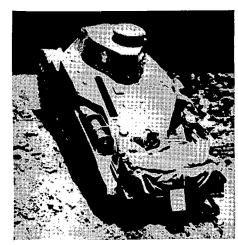
cle 3 feet high. Crosses trenches 10 feet 6

inches wide. Fords streams 3 feet deep.

20. Remarks: Different models exist. Used by army and navy landing party. Army model may have only one gun in turret. Gun may be 47-mm.

JAPANESE ARMY

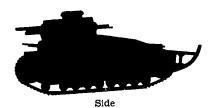
MEDIUM TANK M 2594 (1934)



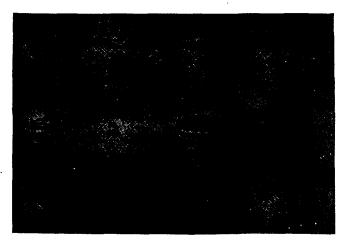


Front

Top-rear



JAPANESE ARMY



MEDIUM TANK 97 (1937)

- 1. Crew: Four.
- 2. Armament: Two machine guns, 7.7-mm; one gun, 47-mm.
- 3. Ammunition:
- 4. Armor, thickness:

Upper structure: 0.58 inch. Front: 0.95 inch. Sides: 0.58 inch.

- 5. Turret: Single, 360° traverse.
- 6. Vision:7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 22.3 feet. Width: 8.2 feet. Height: 9.8 feet. 10. Weight: 14 to 15 tons. 11. Motor:

Type:

Cooling system: Water. Horsepower:

Horsepower per ton:

12. Drive:

13. Speed:

Cross country: 6 to 9 miles per hour. Road: 25 to 28 miles per

hour.

Maximum: 14. Cruising radius, at _____

- speed ____ miles. 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Twowheeled; three bogies; two track support wheels.

19. Performance:

Ground clearance: 1.2 feet.

Climbs 40° slopes. Negotiates vertical obsta-

cle 3.28 feet high.

Crosses trenches 9.5 feet wide.

Fords streams 3.2 feet deep.

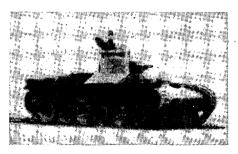
20. Remarks: Gun also reported as 70-mm.

JAPANESE ARMY MEDIUM TANK 97 (1937)





Front Rear



JAPANESE ARMY

MEDIUM TANK, AICHI, 2599 (1939)

- 1. Crew: Five (one driver, one commander, three gunners).
- 2. Armament: One 37-mm gun in turret; two machine guns in turret; one machine gun in hull fore.
 - 3. Ammunition: 2,500 rounds small-arms, 250 rounds 37mm.
 - 4. Armor, thickness: 0.67 inch. Upper structure: Front: Sides:
 - 5. Turret:

 - 6. Vision: 7. Ventilation:
 - 8. Communications:
 - 9. Dimensions:

Length: 18 feet 4 inches. Width: 8 feet 4 inches. Height: 9 feet 2 inches.

- 10. Weight: 12 tons.11. Motor:

Type: 6-cylinder Aichi. Cooling system: Water.

Horsepower: 110.

Horsepower per ton: 9.16.

- 12. Drive:
- 13. Speed:

Cross country:

Road:

Maximum: 25 miles per hour.

- 14. Cruising radius, at _____ speed 160 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Nine bogie wheels; four bogies; one independent bogie with skirting.
- 19. Performance:

Ground clearance:

Climbs 40° slopes. Negotiates vertical obsta-

cle 2 feet 9 inches high. Crosses trenches 7 feet 11

inches wide.

Fords streams 3 feet 3 inches deep.

20. Remarks:

JAPANESE ARMY MEDIUM TANK AICHI 2599 (1939)

Top

Front Rear

JAPANESE ARMY

HEAVY TANK, AICHI, 2596 (1936)

- 1. Crew: Ten (one driver, one commander, five gunners, two loaders, one wireless)
- 2. Armament: One 75-mm, one 35-mm gun in turret and two machine guns in hull
- Ammunition: 5,000 rounds small-arms and 500 rounds of HE.
- 4. Armor, thickness: 1.38-inch. Upper structure:

Front: Sides:

- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 31 feet. Width: 10 feet 8 inches.

Height: 9 feet 2 inches. 10. Weight: 36 tons.

Type:

Cooling system: Water.

Horsepower: 350.

Horsepower per ton: 9.72.

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country:

Road:

Maximum: 36 miles per hour.

- 14. Cruising radius, at _____ speed 175 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Six large bogie wheels.
- 19. Performance:

Ground clearance:

Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 9 inches high. Crosses trenches 15 feet

wide.

Fords streams 4 feet 2 inches deep.

20. Remarks: Modified form of Russian Tank 32-5.

JAPANESE ARMY HEAVY TANK AICHI 2596 (1936)

Top

Front Rear

JAPANESE ARMY

HEAVY TANK, M 2597 (1937)

- Crew: Six (one driver, one commander, and four gunners).
- Armament: Two 37-mm guns in turret and two machine guns in hull fore.
- Ammunition: 2,000 rounds small-arms and 120 rounds 37 mm.
- 4. Armor, thickness: 1.38-inch.
 Upper structure:
 Front:
 - Sides:
- 5. Turret:6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions: Length: 24 feet 5 inches. Width: 9 feet 10 inches.
- Height: 9 feet 6 inches.
- Weight: 32 tons.
 Motor:
 - Type: 12-cylinder Mitsubishi.

Cooling system: Water. Horsepower: 250. Horsepower per ton: 7.8.

- 12. Drive: 13. Speed:
 - Cross country:

Road:

Maximum: 28 miles per hour.

- 14. Cruising radius, at _____ speed 128 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
- Performance:
 - Ground clearance: Climbs 45° slopes.
 - Negotiates vertical obstacle 3 feet 6 inches high.
 - Crosses trenches 7 feet wide.
 - Fords streams 4 feet 2 inches deep.
- 20. Remarks: Used in Central China. Modified form of

Russian T-28.

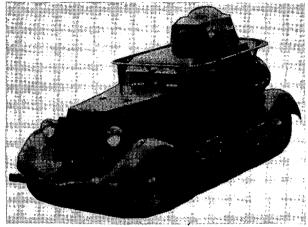
JAPANESE ARMY HEAVY TANK M 2597 (1937)

Top

Front Rear

SECTION IV ARMORED VEHICLES OF THE RUSSIAN ARMY

RUSSIAN ARMY



ARMORED CAR BA BRONNIEFORD NO. 7 4-WHEELED

- 1. Crew: Three.
- 2. Armament: One machine gun in turret; one machine pistol.
- 3. Ammunition:
- 4. Armor, thickness: Upper structure: 0.35-inch. Front: 0.393-inch. Sides: 0.393-inch.
- 5. Turret: One.
- 6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 12 feet 2 inches: Width: 5 feet 7 inches. Height: 6 feet 4 inches.

- 10. Weight:
- 11. Motor:

Type: Ford.

Cooling system: Water. Horsepower: 50.

Horsepower per ton: 15.6.

- 12. Drive:
- 13. Speed:

Cross country: None. Road: 43.4 to 46.5 miles per hour.

- Maximum: 46.5 miles per hour.
- 14. Cruising radius, at road speed 160 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Automobile.
- 19. Performance:

Ground clearance: 8.5 inches.

Climbs _____ slopes.

Negotiates vertical obstacle ____ high. Crosses trenches ____

wide.

Fords streams ____ deep. 20. Remarks: Without turret and machine gun this car weighs 2.1 tons and has a maximum speed of 53 miles per hour. Apparently modernized since silhouette was made.

RUSSIAN ARMY

ARMORED CAR BA BRONNIEFORD NO. 7 4-WHEELED

Top



Front



Front-Alternate

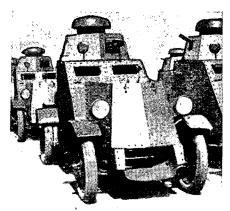


Side



Side-Alternate

RUSSIAN ARMY



ARMORED CAR **BA 27** 4-WHEELED

- 1. Crew: Four.
- 2. Armament: One 37-mm gun, and one 7.62-mm machine gun in revolving turret.
- 3. Ammunition:
- 4. Armor, thickness: 0.24- to 0.51-inch. Upper structure:

Front:

Sides:

- 5. Turret: One revolving.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio in some cars.
- 9. Dimensions:

Length: 14 feet 9 inches. Width: 5 feet 11 inches. Height: 8 feet 1 inch.

- 10. Weight: 4.5 tons.
- 11. Motor:

Type: Cooling system: Water. Horsepower: 40.

Horsepower per ton: 8.9.

- 12. Drive: 13. Speed:

Cross country: None.

Road:

Maximum: 43 miles per hour.

- 14. Cruising radius, at respeed 125 to 190 miles. at road 15. Operating distance without
- refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Automobile.
- 19. Performance:

Ground clearance 10.4 inches.

Climbs _____ slopes. Negotiates vertical obsta-

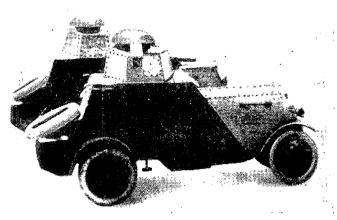
cle ____ high. Crosses trenches

wide. Fords streams 19.7 inches

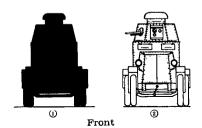
deep.

Remarks: Obsolescent type, which is being gradually replaced with more modern types. Not used in Finnish War so far known.

RUSSIAN ARMY ARMORED CAR BA 27 4-WHEELED



Top

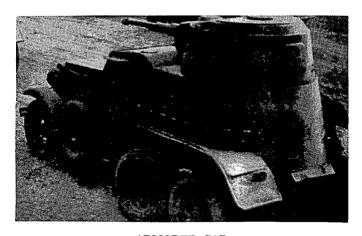


Rear



Side

RUSSIAN ARMV



ARMORED CAR BRONNIEFORD, 3-AXLED, 6-WHEELED

- 1. Crew: Four.
- 2. Armament: One 37-mm gun and one machine gun in turret; one machine gun beside driver.
- 3. Ammunition:
- 4. Armor, thickness:

Upper structure: Averages 0.43- to 0.55-inch Front:

Sides:

- 5. Turret:
- 6. Vision:7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 16 feet 2 inches. Width: 6 feet 3 inches.

- 11. Motor:

Type: Ford (?). Cooling system: Horsepower: 85.

Horsepower per ton: 12.1.

12. Drive:

Height: 8 feet 0 inches. 10. Weight: 7 tons.

13. Speed:

Cross country: Unknown; believed fair.

Road:

Maximum: 43 miles per hour.

- 14. Cruising radius, at road (?) speed 150 miles.
- 15. Operating distance without refill:
- 16 Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
- 19. Performance:

Ground clearance: 10.4 inches.

Climbs _____ slopes. Negotiates vertical obsta-

cle ____ high. Crosses trenches

Fords streams ____ deep.

20. Remarks: Six wheels with pneumatic tires; four rear wheels have dual tires and can be fitted with tracks. Modelled on British Lancaster.

RUSSIAN ARMY

ARMORED CAR BRONNIEFORD, 3-AXLED, 6-WHEELED

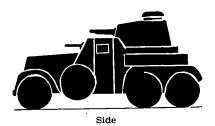


Тор



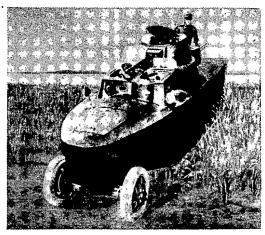
Front

Rear



314752°-41--7

RUSSIAN ARMY



ARMORED CAR BA FORD AMPHIBIAN 6-WHEELED

 Crew: I 	our.
-----------------------------	------

- 2. Armament: One 37-mm gun and two 7.62-mm machine guns.
- Ammunition:
- 4. Armor, thickness: 0.43- to 0.55-inch.

Upper structure: Front:

Sides:

- 5. Turret: One revolving 270° traverse turret in rear; two rigid front turrets.
- 6. Vision:
- 7. Ventilation:
- 8. Communications:

Dimensions:

Length: 17 feet 3 inches. Width: 6 feet 9 inches. Height: 7 feet 9 inches.

10. Weight: 9 tons.

11. Motor:

Type: Ford (?). Cooling system: Water. Horsepower: 85.

Horsepower per ton: 9.4.

12. Drive:

Speed:

Cross country:

Road:

Maximum: 40 miles per hour.

- 14. Cruising radius, at road (?) speed 125 to 190 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:18. Suspension, type: Automobīle.
- 19. Performance:

Ground clearance: 10 inches.

Climbs _____ slopes. Negotiates vertical obsta-

cle ____ high.

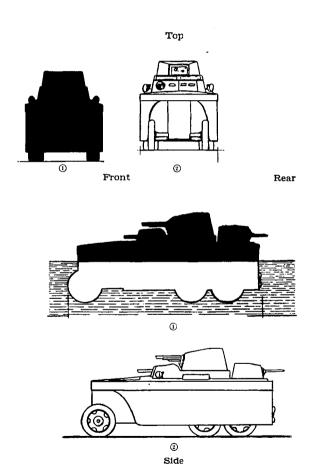
Crosses trenches _____ wide.

Fords streams ____ deep. Amphibian.

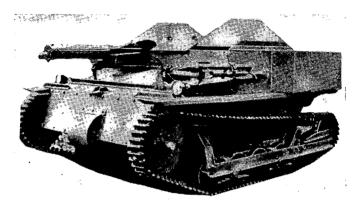
20. Remarks: Six cut-out disk wheels with pneumatic Drive: both rear tires. axles. Photographs do not correspond to silhouettes.

RUSSIAN ARMY

ARMORED CAR BA FORD AMPHIBIAN 6-WHEELED



RUSSTAN ARMY



LIGHT TANK T-27

- 1. Crew: Two (driver and gunner).
- 2. Armament: One light machine gun.
- 3. Ammunition: 3,000 rounds. 4. Armor, thickness: 0.275-
- inch. Upper structure:

Front:

Sides:

- 5. Turret: One.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 8 feet 2 inches. Width: 5 feet 8 inches. Height: 4 feet 8 inches.

- 10. Weight: 2 tons.
- 11. Motor:

Type: 4-cylinder Ford or Chevrolet.

Cooling system: Water. Horsepower: 40.

- Horsepower per ton: 12. Drive: Front sprocket.
- 13. Speed:

Cross country: 7 miles per hour.

Road: 10 to 15 miles per hour.

Maximum: 26 miles per hour.

- 14. Cruising radius, at _____ speed 78 miles. 15. Operating distance without
- refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Four small bogie wheels, Carden-Lloyd system.
- 19. Performance:

Ground clearance: 12 inches.

Climbs 45° slopes.

Negotiates vertical obstacle 1 foot 6 inches high.

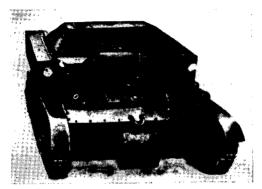
Crosses trenches 3 feet 6 inches wide.

Fords streams 1 foot 6 inches deep.

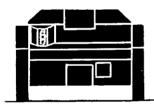
20. Remarks: A large number in existence. Being replaced by T-37. Is an ordinary Carden - Lloyd made in Russia.

RUSSIAN ARMY

LIGHT TANK T-27

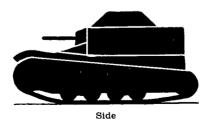


Тор

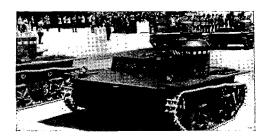


Front

Rear



RUSSIAN ARMY



LIGHT TANK T-37, VICKERS, CARDEN-LLOYD

- Crew: Two (driver and gunner).
- 2. Armament: One 7.62-mm machine gun or two 7.62-mm machine guns.
- 3. Ammunition: 3,000 rounds.

4. Armor, thickness:

Upper structure: 0.275inch. Front:

Sides: 0.315-inch (T-37 and T-38 said to have 0.258- to 0.394-inch.)

- 5. Turret: One.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 13 feet 1 inch. Width: 6 feet 6 inches. Height: 6 feet.

- 10. Weight: 3 tons.
- Motor:

Type: Meadow VI or Ford

Cooling system: Horsepower: 56. Horsepower per ton

Horsepower per ton: 11.2 (?) to 18.

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country:

Road: 29.7 miles per hour. Maximum: 32 miles per

hour.
In water: 6.2 miles per hour.

- 14. Cruising radius, at road (?) speed 62 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Four bogie wheels; two bogie scissors; articulation c o il springs.
 Two track support wheels.
- 19. Performance:

Ground clearance: 10½ inches.

Climbs 45° slopes. (15° bank out of water).

Negotiates vertical obstacle 1 foot 7 inches high. Crosses trenches 4 feet

wide. Fords streams ____ deep.

20. Remarks: Single screw in water. A large number of these tanks are in existence. They were originally Vickers amphibian light tanks.

RUSSIAN ARMY

LIGHT TANK T-37, VICKERS, CARDEN-LLOYD

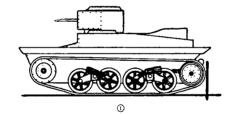


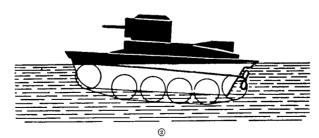




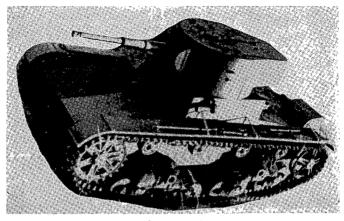
Front

Rear





RUSSIAN ARMY



LIGHT TANK

T-26 A AND T-26 B VICKERS MA/30 AND MA/31

- 1. Crew: Three (driver, gunner, commander-wireless operator).
- 2. Armament: Type A, two light machine guns; type B, one 37-mm or 47-mm gun; one light machine gun coaxially mounted; one antiaircraft light machine gun.
- Ammunition: A, 6,000 rounds for machine guns. B, 4,000 rounds for machine guns and 50 rounds for gun.
- 4. Armor, thickness:

Upper structure: A, 0.19inch; B, 0.23-inch. Front: A. 0.31-inch; В.

0.39-inch. 0.51-inch; Sides: A, В.

- 0.55-inch 5. Turret: A, two; B, one.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio on leading tanks.
- Dimensions.

Length: 16 feet 4 inches. Width: 8 feet 0 inches. Height: 7 feet 2 inches.

10. Weight: 81/2 tons.

11. Motor:

Type: Armstrong-Siddelev IV (Russian make). Cooling system:

Horsepower: 90.

Horsepower per ton: 12.6 or 10.4.

12. Drive: Front sprocket.

13. Speed:

Cross country: 10 to 12 miles per hour.

Road: 12 miles per hour. Maximum: 22 miles per hour.

- Cruising radius, at road (?) speed 100 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:

17. Turning radius:

18. Suspension, type: Eight small bogie wheels; two bogies with left spring; four track support wheels.

19. Performance:

Ground clearance: 1 foot 3 inches.

Climbs 40° slopes.

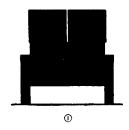
Negotiates vertical obstacle 2 feet 5 inches high. Crosses trenches 5 feet 9

inches wide. Fords streams 3 feet deep.

20. Remarks: T-26A sometimes has one 7.63-mm and one 12.7-mm machine guns instead of two 7.63-mm ma-chine guns. Russian ver-sion of Vickers 6-ton. In some cases has been made a flame thrower. numbers exist. Being replaced by BT M/ABC.

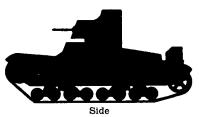
RUSSIAN ARMY

LIGHT TANK T-26 A AND T-26 B VICKERS MA/30 AND MA/31

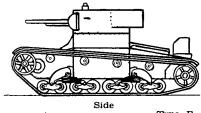




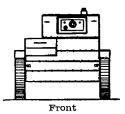
Front



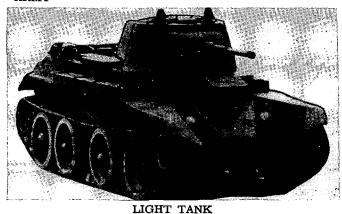
Type A



Type B



RUSSIAN ARMY



BT (CHRISTIE) M/31

(BT-M/A; BT-M/B; BT-M/C; BT-M/D)

- Crew: Three (driver, gunner, commander).
- 2. Armament: (1) One or two machine guns and one 45-mm gun. (2) One machine gun and one 76-mm The BT-M/D is reported to have one short 76-mm gun and two machine guns.
- 3. Ammunition: 92 rounds for 37- or 45-mm; 2,700 rounds for machine guns.
- Armor, thickness: 0.79-inch. Upper structure: 0.23-inch to 0.27-inch. Front: 0.5-inch to 0.624-

Sides: 0.39-inch.

- 5. Turret: One.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 18 feet 7 inches to 19 feet 2 inches. Width: 6 feet 10 inches to 7 feet 2 inches.

Height: 7 feet 8 inches.

10. Weight: 10 to 11 tons.

11. Motor:

Type: M34 or Hispano or Liberty; V-12. Cooling system: Water. Horsepower: 350 to 500.

Horsepower per ton: 31.8 to 50.0.

- Drive: Christie system; wheel drive.
- 13. Speed:

Cross country: 37 miles per hour.

Road: 15 to 25 miles per hour.

Maximum: 37 with tracks; 69 on wheels.

- 14. Cruising radius, at road speed 150 miles on track; 250 miles on wheels.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Four large wheels. Christie knee action springing.
- 19. Performance:

Ground clearance: 1 foot 1 inch.

Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 6 inches high.

Crosses trenches 6 feet 2 inches to 6 · feet 10 inches wide.

Fords streams 39 inches deep.

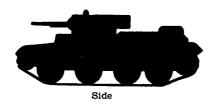
20. Remarks: Original Christie tank. Large numbers are in existence.

RUSSIAN ARMY LIGHT TANK
BT (CHRISTIE) M/31
(BT-M/A; BT-M/B; BT-M/C; BT-M/D)

Top



Rear



RUSSIAN ARMY



MEDIUM TANK T-28 (M-I)

VICKERS-ARMSTRONG/29

- Crew: Seven (driver, commander, four gunners, radio operator).
- 2. Armament: One 76-mm gun; four 7.62 machine guns (one antiaircraft gun).
- Ammunition: 85 rounds for 76-mm; 4,000 rounds for machine guns.
- 4. Armor, thickness:
 - Upper structure: 0.39-inch. Front: 0.98-inch. Sides: 1.37-inch.
- 5. Turret: One large; two small.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:
 - Length: 23 feet 8 inches to 24 feet 3 inches.

Width: 9 feet 0 inches to 9 feet 6 inches.

Height: 8 feet 7 inches to 9 feet 10 inches.

- 10. Weight: 25 to 33 tons.
- 11. Motor:

Type: 12-cylinder Hispano. 750 horsepower; M12 USA aero - engine 450 horsepower; Armstrong-Siddeley, XII/V.

Cooling system:

Horsepower: 450 to 750. Horsepower per ton: 18 to 22.8.

- 12. Drive: Rear sprocket.
- 13. Speed:

Cross country: 6 to 10 miles per hour.

Road: 18 to 23 miles per hour. Maximum: 27.9 miles per

hour.

- 14. Cruising radius, at road (?) speed 60 to 125 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 13. Suspension, type: Ten small bogie wheels; four bogies; two independent bogie wheels protected by mild steel skirting; four track support wheels.
- 19. Performance:

Ground clearance: 1 foot 6 inches.

Climbs 45° slopes.

Negotiates vertical obstacle 31 inches high.

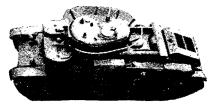
Crosses trenches 7 feet wide.

Fords streams 3 feet 6 inches to 4 feet deep.

 Remarks: A copy of the 16ton British Vickers-Armstrong. Some models may have the Soviet M-34 motor.

RUSSIAN ARMY

MEDIUM TANK T-28 (M-I) VICKERS-ARMSTRONG/29



Top

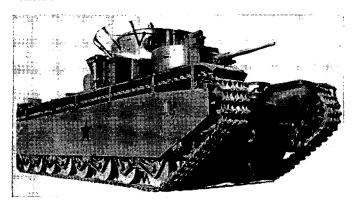


Front

Rear



RUSSIAN ARMY



HEAVY TANK T-32 AND T-35 (M-II) VICKERS

- 1. Crew: Ten or twelve.
- 2. Armament: One 76-mm gun; two 37-mm or 45-mm guns; 2 to 3 machine guns. One report states that the "Vickers-Independent M/I and II" has an armament of one 76-mm gun, two 37- or 45-mm guns, and five to six machine guns.
- 3. Ammunition:
- 4. Armor, thickness: 1.73-inch. Upper structure: 0.98-inch. Front: 1.37-inch. Sides: 0.98-inch. 5. Turret: Four.

- 6. Vision:7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 30 feet 6 inches. Width: 10 feet 6 inches. Height: 9 feet.

10. Weight: 33 to 35 tons.

- 11. Motor:

Type: Armstrong-Siddeley XΠ/V.

Cooling system:

Horsepower: 500 to 750. Horsepower per ton: 14.2 to 22.7.

- Drive: Rear sprocket.
- 13. Speed:

Cross country:

Road: 7 miles per hour. Maximum: 16 to 20 miles per hour.

- 14. Cruising radius, at road (?) speed 180 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios: .17. Turning radius:
- 18. Suspension, type: Eight bogie wheels independently sprung; four track support wheels.
- 19. Performance:

Ground clearance:

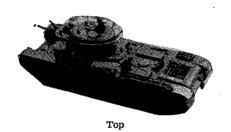
Climbs 40° slopes. Negotiates vertical obstacle 3 feet 11 inches high. Crosses trenches 15 feet 1 inch wide.

Fords streams 3 feet 11 inches deep.

20. Remarks: Considerable numbers are in existence. Silhouettes from old model.

RUSSIAN ARMY

HEAVY TANK T-32 AND T-35 (M-II) VICKERS





Front

Rear



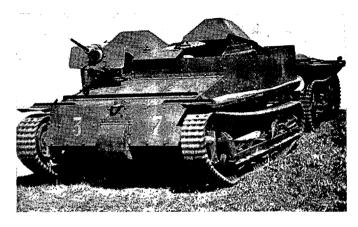


SECTION V ARMORED VEHICLES OF THE ITALIAN ARMY

ITALIAN ARMY

1. Crew: Two.

Horsepower: 20.



SCOUT CAR FIAT-CARDEN-LLOYD

12. Drive: Gear and planet.

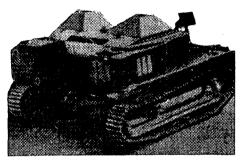
Fords streams ____ deep.

2. Armament: One neavy ma-	13. Speed:
chine gun.	Cross country:
3. Ammunition:	Road:
4. Armor, thickness: 0.23- to	Maximum: 25 miles per
0.35-inch.	hour.
Upper structure:	14. Cruising radius, at
Front:	speed, 75 miles.
Sides:	15. Operating distance without
5. Turret:	refill:
6. Vision:	16. Gear speeds and ratios: 4
7: Ventilation:	forward, 2 back.
8. Communications:	17. Turning radius: 13 feet.
9. Dimensions:	18. Suspension, type:
Length: 9 feet.	Performance:
Width: 5 feet 6 inches.	Ground clearance:
Height: 39 inches.	Climbs slopes.
10. Weight: 2 tons.	Negotiates vertical obsta-
Motor: Gasoline engine.	cle 1 foot 3 inches high.
Type: 4-cylinder Fiat.	Crosses trenches 4 feet
Cooling system:	wide.

Horsepower per ton: 11.6. 20. Remarks:

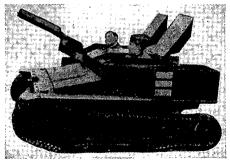
ITALIAN ARMY

SCOUT CAR FIAT-CARDEN-LLOYD



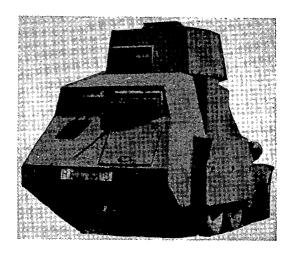
Top

Front Rear



Side

ITALIAN ARMY



ARMORED CAR FIAT M 1934

1. Crew: Four or five.
2. Armament: One 47-mm gun
two machine guns.
3. Ammunition:
4. Armor, thickness: 0.31- to
0.51-inch.
Upper structure:
Front:
Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
Length: 15 feet.

Horsepower per ton: 81/4.

10. Weight:

11. Motor:

15. Operating distance without refill: 16. Gear speeds and ratios: 17. Turning radius: 18. Suspension, type: 19. Performance: Ground clearance: Width: 6 feet 6 inches. Climbs _____ slopes. Negotiates vertical obsta-Height: 7 feet 6 inches. cle ____ high. Crosses trenches Type: 6-cylinder Fiat. wide. Cooling system: Fords streams ____ deep. Horsepower: 56. 20. Remarks:

12. Drive: 13. Speed:

Cross country: Road:

hour: 14. Cruising radius, at speed ____ miles.

Maximum: 25 miles per

ITALIAN ARMY

ARMORED CAR FIAT M 1934

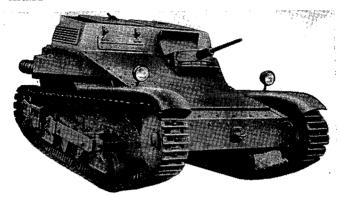
Top

Front Rear



Side

ITALIAN ARMY



LIGHT TANK FIAT-ANSALDO CV 3/33-35

- 1. Crew: Two.
- Two 2. Armament: machine guns or one light machine gun and flame thrower (inflammable liquid carried in trailer).
- 3. Ammunition: 2,240 rounds small-arms.
- 4. Armor. thickness: 0.31- to 0.62-inch Upper structure:

Front: Sides:

- 5. Turret: None.
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag (sometimes radio).
- 9. Dimensions:

Length: 10 feet 6 inches. Width: 4 feet 7 inches. Height: 4 feet 2 inches.

- 10. Weight: 3.5 tons.
- 11. Motor: Gasoline engine. Type: 4-cylinder. Cooling system: Water. Horsepower: 42. Horsepower per ton: 13.3.
- Drive: Front sprocket.
- 13. Speed: Four speeds.

Cross country:

Road:

Maximum: 26 miles per

hour.

- 14. Cruising radius, at speed 55 to 60 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Seven bogie wheels; two bogies connected by girder bearer; one independent bogie wheel at rear, leaf springing.
- 19. Performance:

Ground clearance: Nine inches.

Climbs 45° slopes.

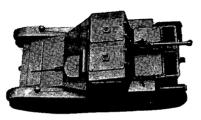
Negotiates vertical obstacle 2 feet high.

Crosses trenches 4 feet 9 inches wide.

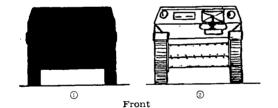
Fords streams 2 feet 2 inches deep.

20. Remarks: 0.31-inch armor on earlier model, 0.62-inch armor on later model. Standard Italian tank. Large number are in exist-Designed from ence. Carden-Lloyd. May be used as bridge carrier which enables them to cross 161/2-foot obstacles. Flame thrower has effective range of 110 yards.

ITALIAN ARMY LIGHT TANK FIAT-ANSALDO CV 3/33-35



Top

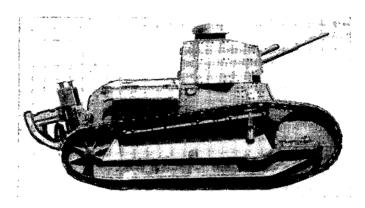


Rear



Side

ITALIAN ARMY



LIGHT TANK FIAT-ANSALDO 3000B (OLD MODEL)

- 1. Crew: Two.
- 2. Armament: One 37-mm gun; one light machine gun or two light machine guns coaxially mounted.
- 3. Ammunition: 60 rounds for gun.
- 4. Armor, thickness: 0.71-inch. Upper structure: Front:
 - Sides:
- 5. Turret: None.
 6. Vision:
 7. Ventilation:

- 8. Communications: Flag; radio for commander's car.
- 9. Dimensions:

Length: 12 feet 3 inches (14 feet 1 inch with tail).

Width: 5 feet 6 inches. Height: 7 feet 3 inches.

- 10. Weight: 5.8 tons.11. Motor: Gasoline engine.
- Type: Fiat. Cooling system: Water. Horsepower: 60.

Horsepower per ton:

12. Drive:

- 13. Speed.
 - Cross country: Road: 13 miles per hour. Maximum:
- 14. Cruising radius, at speed 43 miles or 5 hours.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Four bogie wheels obscured by large girder bearer; very large spoked; front idling wheel.
- 19. Performance:

Ground clearance: 1 foot 6 inches.

Climbs 41° slopes.

Negotiates vertical obstacle 2 feet 0 inches high.

Crosses trenches 4 feet 11 inches wide.

Fords streams 2 feet 11 inches deep.

20. Remarks: Obsolescent. considerable number of these tanks may be in existence. Are carried on trailers.

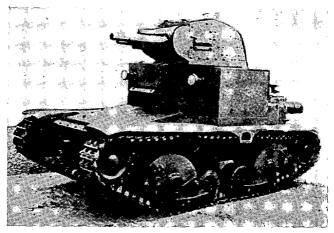
ITALIAN ARMY LIGHT TANK FIAT-ANSALDO 3000B (OLD MODEL)

Top



Rear

ITALIAN ARMY



LIGHT TANK FIAT-ANSALDO 3000B (LATE MODEL)

- Crew: Two or three.
- 2. Armament: One 37-mm gun or two machine guns.
- 3. Ammunition: 60 rounds for gun. 4. Armor, thickness: 0.63-inch.
- Upper structure: Front:
 - Sides: 0.3-inch.
- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 11 feet 6 inches. Width: 5 feet 7 inches. Height: 6 feet 6 inches.

- 10. Weight: 5 tons.
- 11. Motor: Gasoline engine. Type: 4-cylinder Fiat. Cooling system: Water. Horsepower: 45. Horsepower per ton:
- Drive: Front sprocket.
- 13. Speed:

Cross country: Road: 13 miles per hour.

Maximum:

- 14. Cruising radius, at _____ speed 60 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Five bogie wheels; one independent fixed bogie at rear; leaf springing and rocker.
- 19. Performance:

Ground clearance: 1 foot 6 inches.

Climbs 45° slopes. Negotiates vertical obstacle 1 foot 8 inches high. Crosses trenches 5 feet wide.

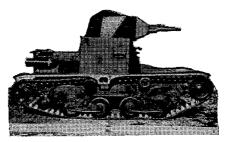
Fords streams 2 feet 11 inches deep.

20. Remarks: Modern type of Italian light tank. May be used extensively.

ITALIAN ARMY LIGHT TANK FIAT-ANSALDO 3000B (LATE MODEL)

Top

Front Rear



Side

ITALIAN ARMY

LIGHT TANK M 1940

1.	Crew: Two.	12. Drive:
2.	Armament: One 37-mm gun	13. Speed:
	or one machine gun.	Cross country:
3.	Ammunition:	Road:
	Armor, thickness:	Maximum: 20 miles per
	Upper structure: 0.5-inch.	hour.
	Front:	14. Cruising radius, at
	Sides:	speed miles.
5.	Turret:	15. Operating distance without
6.	Vision:	refill:
7.	Ventilation:	16. Gear speeds and ratios:
8.	Communications:	17. Turning radius:
9.	Dimensions:	18. Suspension, type:
	Length, 13 feet 1 inch.	19. Performance:
	Width: 5 feet 5 inches.	Ground clearance:
	Height: 7 feet 3 inches.	Climbs° slopes.
10.	Weight: 5 tons.	Negotiates vertical obsta-
11.	Motor:	cle high.
	Type: Gasoline.	Crosses trenches
	Cooling system:	wide.
	Horsepower: 95.	Fords streams deep.
	Horsepower per ton:	20. Remarks:

ITALIAN ARMY LIGHT TANK 'M 1940

Top

Front Rear

ITALIAN ARMY

LIGHT TANK

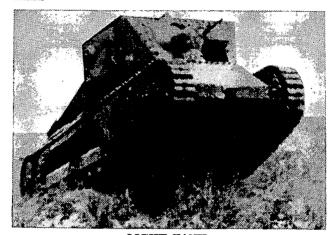
M-6			
2.	Crew: Two. Armament: One 20-mm gun; one light machine gun coaxially mounted. Ammunition:	13. Speed: Cross country: Road: Maximum: 22 miles p hour.	er
	Armor, thickness: Upper structure: Front: Sides:	 14. Cruising radius, at speed miles. 15. Operating distance witho refill: 	
5.	Turret:	16. Gear speeds and ratios:	
6.	Vision:	17. Turning radius:	
7.	Ventilation:	18. Suspension, type:	
	Communications:	19. Performance:	
	Dimensions: Length: 12 feet 5 inches. Width: 6 feet 1 inch. Height:	Ground clearance: 1 fo 2 inches. Climbs 45° slopes. Negotiates vertical obst	
	Weight: 6.1 tons.	cle 2 feet 2 inches hig	gh.
11.	Motor: Gasoline engine. Type: Cooling system: Horsepower: 70. Horsepower per ton:	Crosses trenches 4 feet inches wide. Fords streams 2 feet inches deep. 20. Remarks: In course of contact inches deep.	11
12.	Drive:	pletion, approximate da	

ITALIAN LIGHT TANK ARMY M-6

Top

Front Rear

ITALIAN ARMY



LIGHT TANK CARRO D' ASSALTO

(M11/39)

- Crew: Three (driver, gunner, commander).
 Armament: One 20-mm machine gun: one 8-mm light.
- chine gun; one 8-mm light machine gun; or two 8-mm machine guns and possibly flame thrower.
- Ammunition: 2,000 rounds for machine gun; 500 rounds for heavy machine gun.
- 4. Armor, thickness: 1.03-inch.
 Upper structure:
 Front:
 - Sides: 0.5-inch.
- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions:

Length: 12 feet 10 inches.

Width: 6 feet. Height: 6 feet 3 inches.

10. Weight: 6 to 8 tons.

11. Motor: Gasoline engine.
Type:
Cooling system:

Cooling system: Horsepower: 100. Horsepower per ton:

- 12. Drive: 13. Speed:
- Cross country:

Road: 18 miles per hour. Maximum:

- Cruising radius, at ______ speed 124 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Completely obscured by skirting.
- 19. Performance:

Ground clearance: 1 foot 11 inches.

Climbs 45° slopes.

Negotiates vertical obsta-

cle ____ high. Crosses trenches 5 feet 10

inches wide. Fords streams 2 feet 6

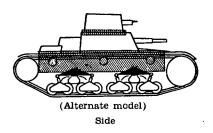
Fords streams 2 feet 6 inches deep.

 Remarks: 300 of these vehicles were to be delivered February 1939, although believed not this many in service.

ITALIAN ARMY LIGHT TANK CARRO D' ASSALTO (M11/39)

Top

Front Rear



ITALIAN ARMY

MEDIUM TANK ANSALDO

- 1. Crew: Three.
- 2. Armament: One 37-mm or 40-mm cannon; two 9-mm machine guns in turret.
- 3. Ammunition: 3,000 rounds.
- 4. Armor, thickness: Over turret, 1.57-inch.

Upper structure: Front: 1.18-inch. Sides: 0.59-inch.

- 5. Turret: Power driven.
- 6. Vision: Driver has periscope and slit. Gunner has telegraphic sight and slit. Commander has Zeiss periscope slit and machine gun telescopic sight.
- 7. Ventilation:
- 8. Communications: Radio.
- 9. Dimensions: Length: 15 feet 6 inches. Width: 7 feet 2 inches.
- Height: 10. Weight: 11 tons. 11. Motor:

Type: Diesel. Cooling system: Horsepower: 105. Horsepower per ton:

- 12. Drive: Front sprocket. Two steering levers said to be epicyclic.
- 13. Speed:

Cross country:

Road:

Maximum: 21 miles per hour.

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 124 miles or 10 hours on broken terrain.
- 16. Gear speeds and ratios:17. Turning radius:
- Suspension, type: Torsion; eight hard-rubber-tired track rollers grouped in pairs; two bogies.
- 19. Performance:

Ground clearance: 1 foot 2 inches.

Climbs 45° slopes.

Negotiates vertical obstacle 2 feet 7 inches high. Crosses trenches 6 feet 7

inches wide.

Fords streams 3 feet 3 inches deep.

20. Remarks:

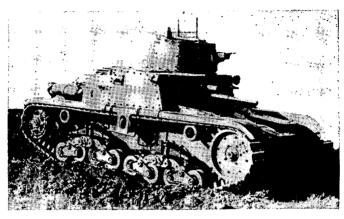
ITALIAN	
ARMY	

MEDIUM TANK ANSALDO

Top

Front Rear

ITALIAN ARMY



MEDIUM TANK M-13/40

- 1. Crew: Four.
- 2. Armament: One 47-mm gun; one machine gun coaxially mounted in turret; two machine guns coaxially mounted in hull, 1 machine gun reserve.
- Ammunition: 90 rounds for gun; 3,000 rounds for machine gun.
- 4. Armor, thickness:
 Upper structure:
 Front:
 Sides:
- 5. Turret: Power.
- 6. Vision:
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 16 feet 0 inches. Width: 7 feet 6 inches. Height: 6 feet 11 inches.

- 10. Weight: 13 tons.
- 11. Motor:

Type: Diesel.
Cooling system:
Horsepower: 105.
Horsepower per ton:

12. Drive: Front sprocket.

13. Speed:

Cross country: Road: 19 miles per hour. Maximum:

- 14. Cruising radius, at _____speed 112 miles.
- speed 112 mnes.

 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- Suspension, type: Eight bogie wheels; two bogies; leaf springing.
- 19. Performance:

Ground clearance: 1 foot 4 inches.

Climbs 40° to 45° slopes.

Negotiates vertical obstacle 2 feet 11 inches high. Cross trenches 6 feet 6 inches wide.

Fords streams 3 feet 3 inches deep.

 Remarks: Has been identified' in Libya. May exist in considerable numbers. The gun being mounted in hull may reduce its effectiveness. Improvement of M-11/39.

ITALIAN ARMY

MEDIUM TANK M-13/40

Top

Front

Rear

ITALIAN ARMY

MEDIUM TANK CARRO DE ROTTURA

- 1. Crew: Seven (four drivers, two gunners, one wireless operator-commander).
- Armament: One 47-mm gun; two 8-mm machine guns.
- 3. Ammunition: 150 rounds for 47-mm gun; 4,000 rounds for machine gun.
- Armor, thickness: 1.19-inch. Upper structure:

Front: Sides:

- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio.
- Dimensions:

Length: 14 feet 8 inches.

Width: 7 feet.

Height: 7 feet 3 inches. 10. Weight: 1434 tons.

11. Motor:

Type: Diesel. Cooling system: Horsepower: 160. Horsepower per ton:

- 12. Drive: 13. Speed:
 - Cross country:

Road:

Maximum: 25 miles per hour.

14. Cruising radius, at _____ speed 186 miles.

- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
- 19. Performance:

Ground clearance: 1 foot 4 inches.

Climbs 40° slopes.

Negotiates vertical obstacle 1 foot 11 inches high. Crosses trenches 6 feet

wide.

Fords streams 2 feet 6 inches deep.

20. Remarks: First issued in Less than 150 in 1939. service.

ITALIAN ARMY

MEDIUM TANK CARRO DE ROTTURA

Тор

Front

Rear

ITALIAN ARMY

Type:

Cooling system:

Horsepower per ton:

Horsepower:

MEDIUM TANK FIAT 36

1.	Crew: Six or eight.	12. Drive:
2.	Armament: One 37-mm or	13. Speed:
	47-mm gun; three 8-mm	Cross country:
	machine guns.	Road:
3.	Ammunition:	Maximum: 22 miles per
4.	Armor, thickness:	hour.
	Upper structure:	14. Cruising radius, at
	Front:	speed miles.
	Sides:	15. Operating distance without
5.	Turret:	refill:
6.	Vision:	16. Gear speeds and ratios:
7.	Ventilation:	17. Turning radius:
8.	Communications:	18. Suspension, type:
9.	Dimensions:	19. Performance:
	Length:	Ground clearance:
	Width:	Climbs° slopes.
	Height:	Negotiates vertical obsta-
10.	Weight: 20 to 25 tons.	cle 3 feet 7 inches high.
	Motor:	Crosses trenches 9 feet 10

inches wide.

inches deep.

20. Remarks:

Fords streams 2 feet 6

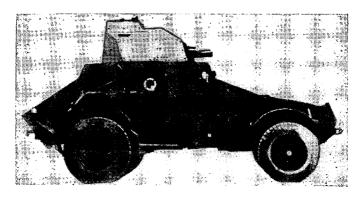
ITALIAN ARMY MEDIUM TANK FIAT 36

Top

Front

SECTION VI ARMORED VEHICLES OF THE FRENCH ARMY

FRENCH ARMY



ARMORED CAR AMD PANCHARD-TOE FOUR-WHEELED

(PATT	

- 2. Armament:
- 3. Ammunition:
- 4. Armor, thickness: Upper structure:

Front:

Sides:

- 5. Turret: One with cupola.
 6. Vision:
 7. Ventilation:

- 8. Communications: 9. Dimensions:
- Length:

Width:

Height:

10. Weight: 11. Motor:

Type:

Cooling system:

Horsepower:

Horsepower per ton:

12. Drive:

13. Speed:

Cross country:

Road:

Maximum:

- 14. Cruising radius, at speed ____ miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
- Performance:

Ground clearance:

Climbs _____ slopes.

Negotiates vertical obsta-

cle high,

Crosses trenches

wide.

Fords streams ____ deep.

20. Remarks: Two unprotected water condensers on either side of vehicle. Four

wheels.

FRENCH ARMY

ARMORED CAR AMD PANCHARD-TOE FOUR-WHEELED



View



Front

Rear

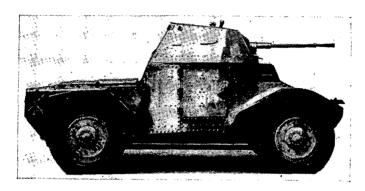


Side

FRENCH ARMY

1. Crew: 2. Armament:

> Horsepower: Horsepower per ton:



ARMORED CAR AMD PANCHARD, 1935 FOUR-WHEELED

12. Drive: 13. Speed:

Fords streams ____ deep. 20. Remarks: No front bumper

bar.

υ.	zminiunion.	Cross country:
4.	Armor, thickness:	Road:
	Upper structure:	Maximum:
	Front:	14. Cruising radius, at
	Sides:	speed miles.
5.	Turret: One.	15. Operating distance withou
6.	Vision: Two turret peri-	refill:
	scopes.	16. Gear speeds and ratios:
7.	Ventilation:	17. Turning radius:
8.	Communications:	18. Suspension, type:
9.	Dimensions:	19. Performance:
	Length:	Ground clearance:
	Width:	Climbs° slopes.
	Height:	Negotiates vertical obsta
10.	Weight:	cle high.
11.	Motor: At rear.	Crosses trenches
	Type:	wide.
	Cooling system:	Fords streams deep

FRENCH ARMY

ARMORED CAR AMD PANCHARD,1935 FOUR-WHEELED



View



Front

Rear



Side

FRENCH ARMY

1. Crew



ARMORED CAR AM LAFFLEY-TOE SIX-WHEELED

1. Cr	ew:	13. Speed:
2. Ar	mament:	Cross country:
	nmunition:	Road:
	mor, thickness: Welded.	Maximum:
	Upper structure:	14. Cruising radius, at
	Front:	speed miles.
	Sides:	15. Operating distance without
5. Tu	rret: Spherical.	refill:
6. Vis	sion: Periscope.	16. Gear speeds and ratios:
	ntilation:	17. Turning radius:
	mmunications:	18. Suspension, type:
	mensions:	19. Performance:
	Length:	Ground clearance:
	Width:	Climbs slopes.
	Height:	Negotiates vertical obsta-
10. We		cle high.
11. Mo		Crosses trenches
	Type:	wide.
٢	Cooling system:	Fords streams deep.
£	Horsepower:	20. Remarks: Two small scaling
I	Horsepower per ton:	wheels in front; can be
14. Dri	ve: Six drive wheels.	driven in either direction.

FRENCH ARMY ARMORED CAR AM LAFFLEY-TOE SIX-WHEELED





Front

Rear



FRENCH ARMY



LIGHT TANK RENAULT 1935, AMR

- 1. Crew: Two (one driver, one gunner).
- 2. Armament: One 13-mm heavy machine gun; two light machine guns.
- 3. Ammunition: 220 rounds for heavy machine gun; 2,250 rounds for light machine guns.
- Armor, thickness: 0.51-inch. Upper structure: Front:
 - Sides:
- 5. Turret:
- 6. Vision:
- 7. Ventilation: 8. Communications: Radio:
- flag; lamp.
- Dimensions:
 - Length: 12 feet 6 inches. Width: 5 feet 3 inches. Height: 6 feet 6 inches.
- 10. Weight: 41/2 to 5 tons.
- Motor:
 - Type: 4-cylinder. Cooling system: Water.

Horsepower: 80. Horsepower per ton:

- 12. Drive: Front sprocket.
- 13. Speed:

Cross country: Road: 31 miles per hour. Maximum:

- 14. Radius of action: 125 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Four bogie wheels; one bogie; two independent bogie wheels fore and aft.
- 19. Performance:

Ground clearance: 1 foot two inches.

Climbs 40° slopes.

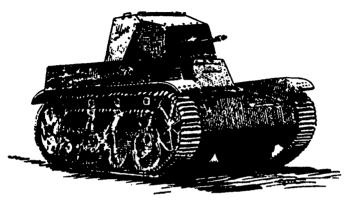
Negotiates vertical obstacle 1 foot 8 inches high.

Crosses trenches 4 feet 3 inches wide.

Fords streams 1 foot 8 inches deep.

20. Remarks: 200 were in existence.

FRENCH ARMY LIGHT TANK RENAULT 1935, AMR



View



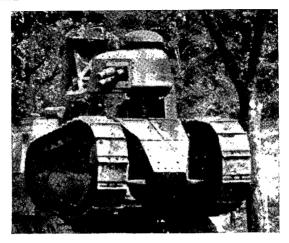
Front

Rear



Side

FRENCH ARMY



LIGHT TANK

F. T.

- 1. Crew: Two.
- 2. Armament: One 37-mm gun or one machine gun.
- 3. Ammunition:
- 4. Armor, thickness:

Upper structure:

Front: Sides:

- 5. Turret: 15- to 22-mm armor.
- 6. Vision: Eve slits.
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 17 feet 0 inch. Width:

Height: 7 feet 31/2 inches.

10. Weight: 7 tons.

11. Motor:

Type: F. T. Cooling system:

Horsepower:

Horsepower per ton:

- 12. Drive:
- 13. Speed:

Cross country:

Road:

Maximum: 5 miles per hour.

- 14. Radius of action: 12 to 15 miles.15. Operating distance without
- refill:

 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
- 19. Performance:

Ground clearance: Climbs 45° slopes.

Negotiates vertical obsta-

čle ____ high.

Crosses trenches 5 feet 0 inches wide (approxi-

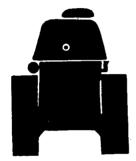
mately).

Fords streams ______ deep.

20. Remarks: Old, World War type. Slow and noisy. Radius of action so limited that they must be transported to place of action. Upkeep limits use to 3 hours per day with 1 day's rest in 3 days.

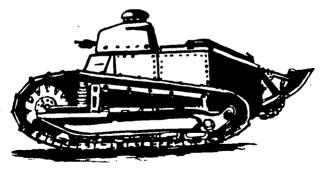
FRENCH ARMY LIGHT TANK F. T.





Front

Rear



Side

FRENCH ARMY



LIGHT TANK RENAULT R 1935

- 1. Crew: Two (one driver, one gunner).
- 2. Armament: One 37-mm gun; one light machine gun coaxially mounted.
- 3. Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
- 4. Armor, thickness: 11/2-inch cast steel.

Upper structure:

Front: Sides:

- 5. Turret:
- 6. Vision:7. Ventilation:
- 8. Communications: Radio and flag.

9. Dimensions: Length: 13 feet 2 inches. Width: 6 feet.

- Height: 8 feet 1 inch. 10. Weight: 11 tons.
 11. Motor:

Type: 4-cylinder. Cooling system: Water. Horsepower: 83. Horsepower per ton:

12. Drive: Front sprocket.

13. Speed:

Cross country: Road: 121/2 miles per hour. Maximum:

- 14. Radius of action: 90 to 95 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Five bogie wheels; two pairs bogies with scissor articulation: one independent bogie wheel.
- 19. Performance:

Ground clearance: 1 foot 2 inches.

Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 11 inches high. Crosses trenches 5 feet 3 inches wide.

Fords streams 2 feet 7 inches deep.

20. Remarks: A large number were in existence. Tank may be fitted with a tail to improve trench-crossing performance. Can easily mass produced.

FRENCH ARMY

LIGHT TANK RENAULT R 1935



View



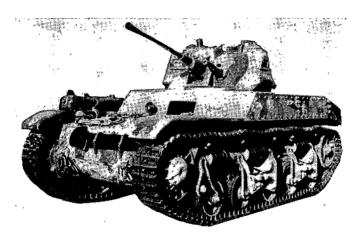
Front

Rear



Side

FRENCH **ARMY**



LIGHT TANK AMC RENAULT, 1935

- 1. Crew: Two.
- 2. Armament: One 37-mm gun; one machine gun.
- 3. Ammunition: 108 rounds for gun; 2,100 rounds for machine gun.
- 4. Armor, thickness: 1%6-inch. Upper structure: Front:
 - Sides:
- 5. Turret: Yes.
- 6. Vision: One episcope; three diascopes; three slits.
- 7. Ventilation:
- 8. Communications:
- 9. Dimensions:

Length: 11 feet 6 inches. Width: 5 feet 9 inches. Height: 6 feet 7 inches.

- 10. Weight: 10½ tons.11. Motor:

Type: 4-cylinder. Cooling system: Horsepower: 80.

Horsepower per ton:

- 12. Drive: 13. Speed:
 - Cross country:

Road:

Maximum: 21 miles per hour.

- 14. Cruising radius, at _____ speed ____ miles.
- 15. Operating distance without refill: 88 miles.
- 16. Gear speeds and ratios: 4 forward; 1 reverse.
- 17. Turning radius:
- 18. Suspension, type: Forged steel links.
- 19. Performance:

Ground clearance:

Climbs 35° slopes. Negotiates vertical obstacle 21 inches high.

Crosses trenches 5 feet 7 inches wide.

Fords streams ____ deep. 20. Remarks: Similar to Renault R-1935.

FRENCH ARMY

LIGHT TANK AMC RENAULT, 1935



View



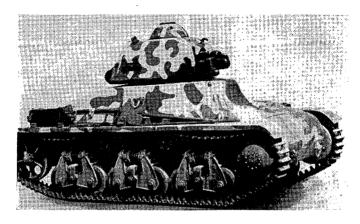
Front

Rear



Side

FRENCH ARMY



LIGHT TANK H 1935

- 1. Crew: Two (one driver, one gunner).
- 2. Armament: One 37-mm gun: one light machine gun coaxially mounted.
- 3. Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
- 4. Armor, thickness: 1½-inch cast steel.

Upper structure: Front:

Sides:

- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 13 feet 8 inches. Width: 6 feet 1 inch. Height: 7 feet.

10. Weight: 111/2 tons.

11. Motor:

Type: 6-cylinder. Cooling system: Water. Horsepower: 75.

Horsepower per ton:

12. Drive: Front sprocket.

13. Speed:

Cross country: Road: 17 miles per hour. Maximum:

- Radius of action: 82 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 18. Suspension, type: Six bogie wheels; three bogies, scissor articulation.
- 19. Performance:

Ground clearance: 1 foot 3 inches.

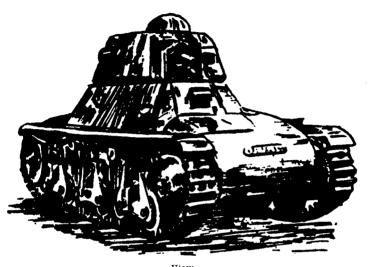
Climbs 40° slopes. Negotiates vertical obstacle 2 feet 7 inches high. Crosses trenches 4 feet 11 inches wide.

Fords streams 2 feet 7

inches deep.

20. Remarks: A large number of these tanks were in existence and may be easily mass produced. An improved model was in production.

FRENCH ARMY LIGHT TANK H 1935



View



Front



Side

FRENCH ARMY

LIGHT TANK H 1939

- 1. Crew: Two (one driver, one gunner).
- 2. Armament: One 37-mm gun; one light machine gun coaxially mounted.
- 3. Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
- 4. Armor, thickness: 11/2-inch cast steel.

Upper structure: Front:

Sides:

- 5. Turret:
- 6. Vision: 7. Ventilation:
- 8. Communications: Flag.
- 9. Dimensions:

Length: 13 feet 8 inches. Width: 6 feet 1 inch.

Height: 7 feet. 10. Weight: 12 tons.

11. Motor:

Type: 6-cylinder. Cooling system: Water. Horsepower: 120. Horsepower per ton:

- 12. Drive: Front sprocket.
- 13. Speed: Cross country:
- Road: 26 miles per hour. Maximum: 14. Radius of action: 130 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
 18. Suspension, type: Six bogie wheels; three bogies, scissor articulation.
- 19. Performance:

Ground clearance: 1 foot 3 inches.

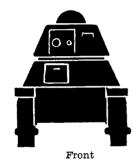
Climbs 40° slopes. Negotiates vertical obstacle 2 feet 7 inches high. Crosses trenches 4 feet 11 inches wide.

Fords streams 2 feet 7

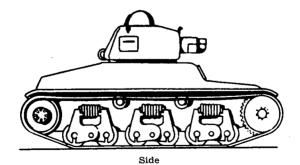
inches deep. 20. Remarks: Replacing H 35 (Serial 3).

FRENCH ARMY LIGHT TANK H 1939





Rear



FRENCH ARMY



LIGHT TANK F C M 1936

- 1. Crew: Two (one driver, one gunner).
- 2. Armament: One 37-mm gun; one light machine gun.
- Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.

4. Armor, thickness: 1½-inch rolled steel plate.
Upper structure:

Front:

Sides:

Turret:Vision:

7. Ventilation:

8. Communications: Flag.

9. Dimensions:

Length: 14 feet 7 inches. Width: 7 feet.

Height: 7 feet 2 inches.

10. Weight: 13 tons.

11. Motor:

Type: 4-cylinder Diesel. Cooling system: Water. Horsepower: 100. Horsepower per ton:

12. Drive: Rear sprocket.

13. Speed: Cross country:

Road: 15 miles per hour.

Maximum:

- 14. Radius of action: 200 miles. 15. Operating distance without
- refill: 16. Gear speeds and ratios:

17. Turning radius:

 Suspension, type: Nine bogie wheels; four pairs bogies; one independent adjustment bogie wheel, coil springs.

19. Performance:

Ground clearance: 1 foot 3 inches.

Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 11 inches high. Crosses trenches 5 feet 10

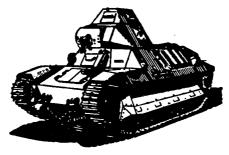
inches wide. Fords streams 2 feet 9

inches deep.

20. Remarks: 100 of these were known to exist. The suspension is completely protected by skirting.

FRENCH ARMY

LIGHT TANK F C M 1936



View



Front

Rear



Side

FRENCH ARMY

MEDIUM TANK LIGHT MEDIUM A M X

1	Crew:	

- 2. Armament: One 47-mm gun; one light machine gun.
- 3. Ammunition: 120 rounds for gun.
- 4. Armor, thickness: 11/2-inch. Upper structure: Front:
- Sides: 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio; flag.
- 9. Dimensions:

Length: 17 feet 0 inches. Width: 6 feet 9 inches. Height: 7 feet 4 inches.

10. Weight: 16 tons.

11. Motor:

Type: Diesel. Cooling system: Horsepower: 130 to 150. Horsepower per ton:

12. Drive: Rear sprocket.

13. Speed:

Cross country. Road: 13 miles per hour. Maximum:

- 14. Radius of action: 90 miles. or 8 hours.
- 15. Operating distance without
- refill: 16. Gear speeds and ratios:
- 17. Turning radius: 18. Suspension, type: 16 bogie wheels; seven bogies; two independent bogies fore and aft: protected by skirting.
- 19. Performance:

Ground clearance: 1 foot 1 inch.

Climbs 40° slopes.

Negotiates vertical obstacle _____ high.

Crosses trenches 7 feet 0 inches wide.

Fords streams 3 feet 11 inches deep.

20. Remarks:

FRENCH ARMY MEDIUM TANK LIGHT MEDIUM A M X

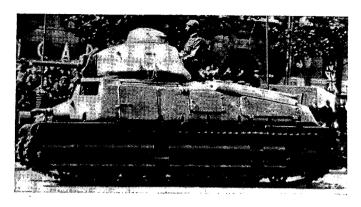
Top

Front

Rear

Side

FRENCH ARMY



MEDIUM TANK **SOMUA S 1935**

- 1. Crew: Three (driver, gunner, commander).
- 2. Armament: One 47-mm gun; one light machine gun.
- 3. Ammunition: 120 rounds for gun; 5,000 rounds for light machine gun.
- 4. Armor, thickness: 11/2 inch. Upper structure: Front:
- Sides:
- 5. Turret:
- Vision: 7. Ventilation:
- 8. Communications: Radio; flag.
- 9. Dimensions:

Length: 17 feet 6 inches. Width: 6 feet 8 inches. Height: 8 feet 10 inches.

- 10. Weight: 18 tons.
- 11. Motor:

Type: V-8. Cooling system: Water. Horsepower: 190. Horsepower per ton:

12. Drive: Rear sprocket.

13. Speed:

Cross country: Road: 29 miles per hour. Maximum:

- 14. Radius of action: 140 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:18. Suspension, type: Nine bogie wheels; four bogies with leaf springing; one independent bogie wheel; protected by skirting.
- 19. Performance:

Ground clearance: 1 foot 4 inches.

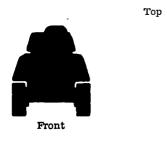
Climbs 40° slopes.

Negotiates vertical obstacle 2 feet 11 inches high. Crosses trenches 7 feet 10

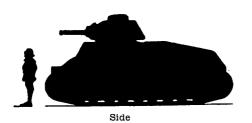
inches wide. Fords streams 3 feet 3

inches deep. 20. Remarks: Considerable numbers were in existence.

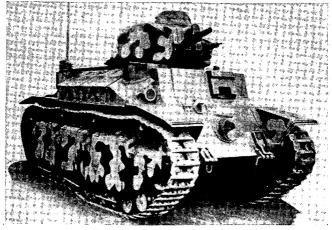
FRENCH ARMY MEDIUM TANK SOMUA S 1935



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FRENCH ARMY



MEDIUM TANK

D-2

- 1. Crew: Three (driver, commander-gunner, operatorloader).
- 2. Armament: One 47-mm gun; two light machine guns.
- 3. Ammunition: 110 rounds for gun; 5,000 rounds for light machine gun.
- 4. Armor, thickness: 1\%-inch. Upper structure: Front:

Sides:

- 5. Turret:
 6. Vision:
 7. Ventilation:
- 8. Communications: Radio; flag.
- 9. Dimensions:

Length: 16 feet 7 inches. Width: 7 feet 2 inches. Height: 8 feet 9 inches.

- 10. Weight: 20 tons. 11. Motor:

Type: 6-cylinder. Cooling system: Water. Horsepower: 150. Horsepower per ton:

- 12. Drive: Rear sprocket (?),
- 13. Speed: Cross country:

Road: 14 miles per hour. Maximum:

- 14. Radius of action: 90 to 95 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: Twelve small bogie wheels: bogies with coil springing; suspension protected by skirting.
- 19. Performance:

Ground clearance: 1 foot 4 inches.

Climbs 45° slopes.

Negotiates vertical obstacle 3 feet 3 inches high. Crosses trenches 7 feet 10 inches wide.

Fords streams 3 feet 3 inches deep.

20. Remarks: Only a limited number of these vehicles were manufactured.

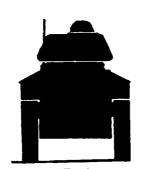
FRENCH ARMY

MEDIUM TANK D-2



View





Front





Side

FRENCH

MEDIUM TANK SOMUA S AU 40

- Crew: Three (four?) (driver, commander, gunner (loader?)).
- 2. Armament: One 75-mm gun.
- 3. Ammunition:
- 4. Armor, thickness: 1½-inch.
 Upper structure:
 Front:
 Sides:
- 5. Turret:
- 6. Vision:
- 7. Ventilation:
- 8. Communications: Radio; flag.
- 9. Dimensions:
 - Length: 19 feet 5 inches. Width: 6 feet 11 inches. Height: 8 feet 10 inches.
- 10. Weight: 21.5 tons.
- 11. Motor:
 - Type: V-8. Cooling system: Water. Horsepower: 190.
- Horsepower per ton: 12. Drive: Rear sprocket.

- 13. Speed:
 - Cross country: Road: 20 miles per hour. Maximum:
- 14. Radius of action: 140 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type: (Same as Serial 8.)
- 19. Performance:
 - Ground clearance: 1 foot 4 inches.
 - Climbs _____ slopes.
 Negotiates vertical obsta-
 - cle 2 feet 11 inches high. Crosses trenches 7 feet 10 inches wide.
 - Fords streams 3 feet 3 inches deep.
- 20. Remarks: Thirty-two were in existence. Long-barreled 75-mm gun was mounted in the hull. Was to be used as armored artillery.

FRENCH ARMY MEDIUM TANK SOMUA S AU 40

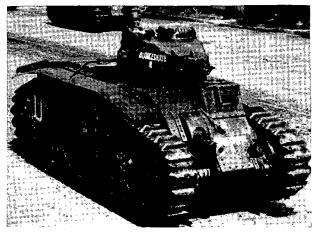
Top

Front

Rear

Side

FRENCH ARMY



HEAVY TANK CHAR B I

- 1. Crew: Four (driver, commander-gunner, wireless telegraph operator, loadermechanic).
- 2. Armament: One 75-mm gun; one 47-mm gun; two light machine guns.
- 3. Ammunition: 72 rounds for 75-mm gun; 70 rounds for 47-mm gun.
- 4. Armor, thickness: 21/4-inch. Upper structure: Front:
 - Sides:
- 5. Turret:
- 6. Vision:7. Ventilation:
- 8. Communications: Radio;
- lamp; flag. 9. Dimensions:
- Length: 20 feet 8 inches. Width: 8 feet 2 inches. Height: 9 feet.
- 10. Weight: 31 tons.11. Motor:

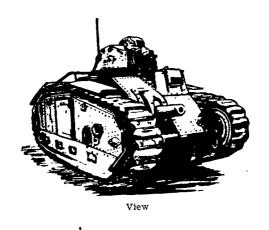
Type: 6-cylinder. Cooling system: Water. Horsepower: 270.

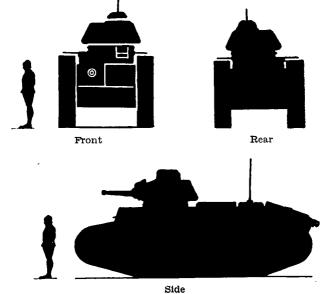
Horsepower per ton: 12. Drive: Rear sprocket.

- 13. Speed: Cross country: Road: 17 miles per hour.
- Maximum: 14. Radius of action: 150 miles.
- 15. Operating distance without refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:18. Suspension, type: Sixteen small bogie wheels; three bogies or four wheels with leaf and coil springs; protected by skirting.
- 19. Performance:
 - Ground clearance: 1 foot 7 inches.
 - Climbs 40° slopes.
 - Negotiates vertical obsta-cle 3 feet 10 inches high.
 - Crosses trenches 9 feet wide.
 - Fords streams 4 feet 10 inches deep.
- 20. Remarks: Considerable numbers were in existence. The armor was to be increased to 75-mm and en-gine to 350 horsepower Renault.

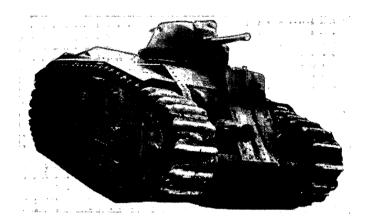
FRENCH ARMY

HEAVY TANK CHAR B I





FRENCH ARMY



HEAVY TANK B-BIS

1. Crew: Four.

2. Armament: One 75-mm gun, one 47-mm gun, two machine guns.

3. Ammunition: 59 rounds for 75-mm gun; 60 rounds for 47-mm gun; 5,000 rounds for machine gun.

4. Armor, thickness: 2.36-inch. Upper structure:

Front: Sides:

Turret: Yes.

6. Vision: One telescopic sight; one pair binoculars.

7. Ventilation:

8. Communications:

9. Dimensions:

Length: 20 feet 9 inches. Width: 8 feet 2 inches. Height: 10 feet 0 inches.

10. Weight: 33.3 tons.

11. Motor:

Type: 6-cylinder. Cooling system: Horsepower: 300. Horsepower per ton: 12. Drive:

13. Speed:

Cross country: Road:

Maximum: 18.6 miles per hour.

14. Cruising radius, at _____ speed ____ miles.

Operating distance without refill: 7 hours.

16. Gear speeds and ratios: 5 forward, 1 reverse.

17. Turning radius:

18. Suspension, type: Forged steel links.

19. Performance:

Ground clearance:

Climbs 42° slopes. Negotiates vertical obstacle 3 feet 6 inches high.

Crosses trenches 9.02 feet wide.

Fords streams ____ deep. 20. Remarks: Similar to Tank B except for armor, ammunition, and horsepower.

FRENCH ARMY

HEAVY TANK B-BIS

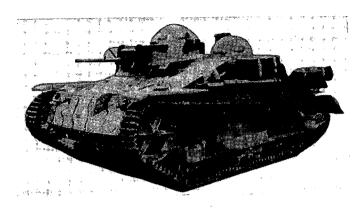
Top

Front

Rear

Side

FRENCH ARMY



INFANTRY TRACTOR RENAULT CHENILLETTE

- 1. Crew: Two.
- 2. Armament: One Hotchkiss machine gun.
- 3. Ammunition:
- 4. Armor, thickness: Upper structure: Front:
 - Sides:
- 5. Turret:
- 6. Vision: 7. Ventilation:
- 8. Communications:
- 9. Dimensions: Length: Width:
- Height: 10. Weight: About 11/2 tons.
- 11. Motor:

Type:

Cooling system: Horsepower:

Horsepower per ton:

12. Drive:

13. Speed:

Cross country: 5 miles per hour.

Road:

Maximum: 18 miles per hour. 14. Cruising radius, at _____

- speed ____ miles. 15. Operating distance without
- refill:
- 16. Gear speeds and ratios:
- 17. Turning radius:
- 18. Suspension, type:
- 19. Performance:

Ground clearance: Climbs _____ slopes.

Negotiates vertical obstacle ____ high.

Crosses trenches 36 inches

wide.

Fords streams ____ deep. 20. Remarks: Provided with

trailer and transport.

FRENCH ARMY

INFANTRY TRACTOR RENAULT CHENILLETTE

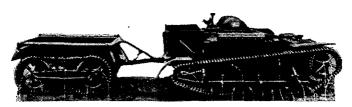
Top



Front

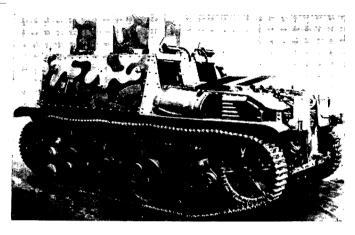


Rear



Side

FRENCH ARMY



COMMANDERS' CAR RENAULT		
2. 3.	Crew: Armament: Ammunition: Armor, thickness:	12. Drive: 13. Speed: Cross country: Road:
	Upper structure: Front: Sides:	Maximum: 14. Cruising radius, at speed miles.
6.	Turret: Vision:	15. Operating distance without refill:
8.	Ventilation: Communications:	16. Gear speeds and ratios:17. Turning radius:
9.	Dimensions: Length: Width: Height:	 18. Suspension, type: 19. Performance: Ground clearance: Climbs° slopes.
	Weight: Motor: Type: Cooling system: Horsepower:	Negotiates vertical obsta- cle high. Crosses trenches wide. Fords streams deep.
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FRENCH ARMY

COMMANDERS' CAR RENAULT

Top



Front

Rear

