WAR DEPARTMENT

BASIC FIELD MANUAL

MILITARY INTELLIGENCE

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

June 20, 1941

REGRADED UNCLASSIFIED BY
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FM 30-42
BASIC FIELD MANUAL

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. 5200.1R

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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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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.

SECTION II

ARMORED VEHICLES OF THE 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.

3. Ammunition:

4. Armor, thickness:
   Upper structure: (Plates all set at angle.
   Proof against armor-piercing small ammunition all around.)
   Front: 0.39-inch
   Sides: 0.31-inch.

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:
    Horsepower: Horsepower per ton:

12. Drive:

13. Speed:
   Cross country: 20 miles per hour.
   Road: 53 miles per hour.
   Maximum:


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: 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
1. Crew: Two (driver and gunner) or three (if fitted with radio).

2. Armament: One light machine gun (mounted for ground or antiaircraft fire).

3. Ammunition:

4. Armor, thickness:
   Upper structure: Less than 0.39-inch.
   Front: 0.39-inch. Proof against armor-piercing 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:

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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

Top

Front

Rear

Side
GERMAN ARMY

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

2. Armament: One 20-mm machine gun; one machine pistol.
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   Front: 0.39 inch. Proof against armor-piercing small arms ammunition all around.
   Sides: 0.31 inch.
5. 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: Normal automobile type.
19. Performance:
   Ground clearance:
   Climbs ______" slopes.
   Negotiates vertical obstacle ______ high.
   Crosses trenches ______ 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

Top

Front

Rear

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

1. Crew: Four (two drivers, one gunner-commander, one gunner) (one driver acts as radio operator).
2. Armament: One 20-mm machine gun; one machine pistol.
3. 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.
5. Turret: Yes.
6. Vision:
7. Ventilation:
8. 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: 6½ tons (6 wheels).
11. Motor:
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.
15. Operating distance without refill: 180 miles.
16. Gear speeds and ratios: 5 gear speeds.
17. Turning radius: 10 to 12 feet.
18. Suspension, type: Normal automobile type.
19. Performance:
   - Ground clearance: _______° slopes.
   - Negotiates vertical obstacle ______ high.
   - Crosses trenches ______ wide.
   - Fords streams ______ deep.
20. Remarks: This car carries a smoke-producing apparatus. Believed now to be an obsolescent type.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

View

Front

Rear

Side

11
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.


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.
   - Negociates vertical obstacle _____ high.
   - Crosses trenches _____ wide.
   - Fords streams _____ deep.

20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

View

Front

Rear

Side

314752°—41———2

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MILITARY INTELLIGENCE

GERMAN
ARMY

ARMORED CAR
(NEW MODEL)

1. Crew:
2. Armament:
3. Ammunition:
4. Armor, thickness:
   - Upper structure:
   - 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:
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:
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MILITARY INTELLIGENCE

GERMAN

ARMY

LIGHT TANK
K I-KRUPP

3. Ammunition:
4. Armor, thickness:
   Upper structure: Front: 0.50 inch.
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: Width: Length:
10. Weight: 5.5 tons metric.
11. Motor:
   Type:
   Cooling system:
   Horsepower:
   Horsepower per ton:
12. Drive:
13. Speed:
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 suspension wheel.
19. Performance:
   Ground clearance:
   Climbs ______* slopes.
   Negotiates vertical obstacle ______ high.
   Crosses trenches ______ wide.
   Fords streams ______ deep.
20. Remarks: Believed to be an obsolete type.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT TANK
K I-KRUPP

View

Front

Rear

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

1. Crew: Two (driver and gunner).
2. Armament: Two 7.9-mm machine guns coaxially mounted on roller type mounting.
4. Armor, thickness: 0.55 inch.
5. Turret: Turret has a rounded back, very squat, and is mounted on the right hand side of tank.
6. Vision:
7. Ventilation:
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: Five-spoked 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 obstacle ______ 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN
ARMY

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

View
Front
Rear
Side
LIGHT TANK
PZ KW II (PANZER KRAFTWAGEN II)
(MAYBACH TYPE)

2. Armament: One 20-mm machine gun; one light machine gun in roller-type mountings.
3. 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:
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 type; 4 track support 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT TANK

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

View

Front

Rear

Side
1. Crew: Two (driver and gunner).
2. Armament: Two 7.9-mm Hotchkiss machine gun (1 spare).
3. Ammunition: 2,360 rounds.
4. Armor, thickness:
   Upper structure: \frac{0.15}{0.39} inch
   Front: 
   Sides:
5. Turret: None.
7. Ventilation:
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 Fiat.
   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: 31\frac{1}{4} miles per hour.
   Maximum:
15. Operating distance without refill: 85 miles.
16. Gear speeds and ratios:
17. Turning radius:
18. 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 anti-tank machine-gun carriers. Poland had 750 of these tanks.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

Top

Front

Rear

Side
GERMAN ARMY

LIGHT TANK
TN HP
(EX-CZECH)

1. Crew: Three or four (driver, commander, two gunners).
2. Armament: One 37-mm gun; one machine gun mounted coaxially in turret; one machine gun on hull at driver's left.
3. 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 observation 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:
15. Operating distance without refill: 125 miles.
16. Gear speeds and ratios:
17. Turning radius:
18. 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
7 TP
(EX POLISH)

2. Armament: One 37-mm Bofors; one light machine gun coaxially mounted.
3. 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:
5. Turret: High turret with long-barreled gun in round mounting.
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 15 feet.
   Width: 7 feet 11 inches.
   Height: 7 feet 2 inches.
10. Weight: 9.5 tons.
11. 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; four-track 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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT TANK
7 TP
(EX POLISH)

View

Front

Rear

Side

27
2. Armament: One 37-mm gun, two light machine guns (1 coaxially mounted, 1 on ball-mounting forward in hull).
3. 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:
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.
17. Turning radius:
18. Suspension, type: Eight 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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT TANK
LT 35 S2a
(EX-CZECH

Top

Front

Rear

Side

314752°—41—3 29
GERMAN ARMY

LIGHT TANK
TNHS 38

1. Crew: 
3. Ammunition: 
4. Armor, thickness: 
   Upper structure: 
   Front: 
   Sides: 
5. Turret: 
6. Vision: 
7. Ventilation: 
8. Communications: 
9. Dimensions: 
   Length: 
   Width: 
   Height: 
10. Weight: 8 tons. 
11. Motor: 
    Type: 
    Cooling system: 
    Horsepower: 
    Horsepower per ton: 
12. Drive: 
13. Speed: 

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: It is reported that this tank can be transported in modified Ju 90 and Focke-Wulf 200 airplanes.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT TANK
TNHS 38

Top

Front

Rear

Side
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:
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:
15. Operating distance without refill: 95 miles.
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Five 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 obstacle ______ high.
   Crosses trenches 4 feet 7 inches wide.
   Fords streams 2 feet deep.

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IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN LIGHT TANK
ARMY LIGHT COMMANDERS TANK

Top

Front Bear

Side

33
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.
9. 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.
   Horsepower per ton: 19.4.
12. Drive: Front sprocket.
13. Speed:
   Cross country: Road: 28 miles per hour.
   Maximum: In water: 3 1/2 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 twin 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.
20. Remarks: One hundred of these known to exist. An improved model may have been produced.
MILITARY INTELLIGENCE

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.
5. Turret: Similar to PZ KW II with small, round conning tower.
6. Vision:
7. Ventilation:
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:
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type:
   - Six small independent bogie wheels with heavy rubber tires.
   - Eight small bogie wheels.
   - 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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

MEDIUM TANK

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

View

Front

Rear

Side

37
GERMAN
ARMY

MEDIUM TANK
PZ KW IV (PANZER KRAFTWAGEN IV)

1. 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. Armor, thickness: Thickest known 1.18-inch to 1.57-inch.
   - Upper structure:
     - Front:
     - Sides:
   - Turret: Identical with that of PZ KW III.
4. Speed:
   - Cross country: 31 miles per hour.
   - Maximum:
5. Cruising radius, at _____ speed _____ miles.
6. Operating distance without refill:
7. Gear speeds and ratios:
8. Turning radius:
9. Performance:
   - Ground clearance:
   - Climbs ______° slopes.
   - Negotiates vertical obstacle ______ high.
   - Crosses trenches ______ wide.
   - Fords streams 3 feet 6 inches deep.
10. 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 built-up hull.
GERMAN ARMY

IDENTIFICATION OF FOREIGN ARMORED VEHICLES

MEDIUM TANK
PZ KW IV (PANZER KRAFTWAGEN IV)

Top

Front

Rear

Side
1. Crew: Three or four (driver, commander, one or two gunners).
2. Armament: One 47-mm gun and one machine gun co-axially 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 stream-lined tapering toward the rear, surmounted by cupola on left hand side. Entrance to turret in hull to left behind turret.
6. Vision:
7. Ventilation:
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.
12. Drive: Rear sprocket.
13. Speed:
    Cross country:
    Road: 27 miles per hour.
    Maximum:
14. Cruising radius, at ______ speed ______ miles.
15. 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 obstacle 3 feet 3 inches high.
    Crosses trenches 7 feet 6 inches wide.
    Fords streams 3 feet 3 inches deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

Top

Front

Rear

Side
2. Armament: One 47-mm gun; one light machine gun.
3. Ammunition: 120 rounds for gun; 5,000 rounds for light machine gun.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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:
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

MEDIUM TANK
(FRENCH SOMUA S 1935)

Top

Front

Rear

Side
GERMAN ARMY

MEDIUM TANK
(FRENCH SOMUA S AU 40)

1. Crew: Three (four?) (driver, commander, gunner (loader?)).
2. Armament: one 75-mm gun.
3. Ammunition:
4. Armor, thickness: 1 1/2-inch.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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:
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-barreled 75-mm gun was mounted in the hull. Was to be used as armored artillery.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN MEDIUM TANK
ARMY (FRENCH SOMUA S AU 40)

Top

Front

Rear

Side

314752°–41——4 45
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 coaxially mounted; one 47-mm or one 37-mm gun; three light machine guns.
3. 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:
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.

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 skirt ing. 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 gun mounting with either a 105-mm gun mounted below a 37-mm gun or a 75-mm gun mounted at side of a 47-mm gun.

Horsepower per ton: 10.9.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

HEAVY TANK

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

Top

Front

Bear

Side

47
### STURMGESCHUTZ

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<td>Crosses trenches wide.</td>
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<td>Fords streams deep.</td>
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<td>20. Remarks:</td>
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IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

STURMGESCHUTZ

Top

Front Bear

Side

Rear

49
47-MM ANTITANK GUN ON
SELF-PROPELLED MOUNT

2. Armament: One 47-mm gun.
3. Ammunition: 100 rounds.
   Upper structure:
   Front:
   Sides:
5. Turret:
7. Ventilation:
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:
   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:
19. Performance:
   Ground clearance:
   Climbs _______ slopes.
   Negotiates vertical obstacle 10 inches high.
   Crosses trenches 5 feet wide.
   Fords streams ______ deep.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

47-MM ANTITANK GUN
ON SELF-PROPELLED MOUNT

Top

Front

Rear

Side
<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>1. Crew:</strong> One driver, 1 assistant driver, 10 passengers.</td>
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<tr>
<td><strong>2. Armament:</strong> One machine gun each end of body for antiaircraft purposes.</td>
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<td><strong>3. Ammunition:</strong> 44 boxes.</td>
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<td><strong>4. Armor, thickness:</strong> 0.1 inch.</td>
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<td><strong>Upper structure:</strong> very thin.</td>
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<td><strong>5. Turret:</strong></td>
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<td><strong>14. Cruising radius, at ______ speed ______ miles.</strong></td>
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<td><strong>15. Operating distance without refill:</strong></td>
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<td><strong>16. Gear speeds and ratios:</strong></td>
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<td><strong>17. Turning radius:</strong></td>
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<td><strong>18. Suspension, type:</strong></td>
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<td>Negotiates vertical obstacle ______ high.</td>
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<td>Crosses trenches ______ wide.</td>
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<td>Fords streams ______ deep.</td>
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<td><strong>20. Remarks:</strong></td>
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</table>
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

Top

Front

Rear

© As antitank tractor. © Commanders' car.

Side

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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. Communications: Flag.
8. Dimensions:
   Length: 10 feet 2 inches.
   Width: 5 feet 9 inches.
   Height: 5 feet 4 inches.
9. Weight: 3 tons.
10. Motor:
    Type: 4-cylinder.
    Cooling system: Air.
    Horsepower: 45.
    Horsepower per ton: 15.
11. Drive: Front sprocket.
12. Speed:
    Cross country:
    Road:
    Maximum: 30 miles per hour.
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:
18. 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.
JAPANESE ARMY

TANKETTE
ISHIKAWAJIMA
M 2592 (1932)
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:
9. Dimensions:
   Length: 13 feet.
   Width: 4 feet 9 inches.
   Height: 6 feet 5 inches.
10. Weight: 4 tons.
11. Motor:
   Type:
   Cooling system: Air.
   Horsepower: 70.
   Horsepower per ton: 17.5.
12. Drive:
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 obstacle ______ high.
   Crosses trenches ______ wide.
   Fords streams ______ deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

TANKETTE
M 2595 (1935)

Top

Front

Rear

Side

59
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 air.
    - Horsepower: 55.
    - Horsepower per ton: 18.3.
12. Drive: Front sprocket.
13. Speed:
    - Cross country.
    - Road:
      - Maximum: 33 miles per hour.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

TANKETTE
ISHIKAWAJIMA
M 2598 (1938)

Top

Front

Rear

Side

314752°—41——5 61
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:
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.
   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; 3 bogies.
19. Performance:
   Ground clearance: 1 foot.
   Climbs 34° slopes.
   Negotiates vertical obstacle 1 foot 8 inches high.
   Crosses trenches 4 feet 6 inches wide.
   Fords streams 2 feet 6 inches deep.
20. Remarks: Known as heavy armored vehicle.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

LIGHT TANK
M 2592 (1932)

Top

Front

Rear

Side

63
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.
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 14 feet 8 inches.
   Width: 5 feet 11 inches.
   Height: 6 feet.
10. Weight: 7 tons.
11. Motor:
    Type: 6-cylinder Mitsubishi.
    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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

LIGHT TANK
M 2593 (1933)

Top

Front

Rear

Side

65
MILITARY INTELLIGENCE

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 47-mm; 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.
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.
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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

LIGHT TANK
M 2595 (1935)

Top
Front
Side
Rear

67
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.
   Type: Diesel.
   Cooling system:
   Horsepower: 45.
   Horsepower per ton: 6.5.
12. Drive:
13. Speed:
   Cross country:
   Road: Maximum: 12½ miles per hour.
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 obstacle ______ high.
   Crosses trenches 6 feet 4 inches wide.
   Fords streams 1 foot 8 inches deep.
20. Remarks:
JAPANESE ARMY LIGHT TANK

Top

Front

Rear

Side

69
LIGHT TANK
COPY OF VICKERS-ARMSTRONG 6-TON
ALTERNATIVE A (1936)

3. Ammunition:
4. Armor, thickness: 0.51-inch to 0.2-inch.
   Upper structure:
   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 9½ 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:
15. 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 obstacle 2 feet 5 inches high.
   Crosses trenches 6 feet wide.
   Fords streams 3 feet deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

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

Top
Front
Side
Rear

71
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: 
9. Dimensions:
   Length: 17 feet 6 inches.
   Width: 8 feet 4 inches.
   Height: 8 feet 6 inches.
10. Weight: 11.5 tons.
11. Motor:
   Type: Mitsubishi.
   Cooling system: Air or 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.
15. 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 37-mm.
MILITARY INTELLIGENCE

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 Kikasil.
   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: 
18. Suspension, type: Nine boge wheels; four bogies; one independent bogle wheel protective skirting.
19. Performance: 
   Ground clearance: 
   Climbs 38° slopes.
   Negotiates vertical obstacle ______ high.
   Crosses trenches ______ wide.
   Fords streams ______ deep.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

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

Top

Front

Rear

Side
2. Armament: One 37-mm gun and one machine gun in turret; one machine gun and one bomb in hull fore. Mortar inside.
3. Ammunition: 6,000 rounds small-arms; 120 rounds 37-mm; 100 bombs.
4. Armor, thickness: 11- to 67-mm. Upper structure: 0.67-inch. Front: 0.67-inch. Sides, top, and rear: 0.43-inch.
5. Turret:
6. 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:
   Type: 6-cylinder Mitsubishi airplane.
   Cooling system: Air; louvre at rear.
   Horsepower: 160.
   Horsepower per ton: 11.4.
12. Drive: Front sprocket.
13. Speed:
   Cross country:
   Road:
   Maximum: 28 miles per hour.
15. Operating distance without refill: 124 miles (210 gals.)
16. 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 obstacle 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE
ARMY

MEDIUM TANK
M 2594 (1934)

Front
Top-rear
Side

314752°—41—6
MEDIUM TANK 97 (1937)

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:
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: Two-wheeled; three bogies; two track support wheels.
19. Performance:
   - Ground clearance: 1.2 feet.
   - Climbs 40° slopes.
   - Negotiates vertical obstacle 3.28 feet high.
   - Crosses trenches 9.5 feet wide.
   - Fords streams 3.2 feet deep.
20. Remarks: Gun also reported as 70-mm.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

MEDIUM TANK 97 (1937)

Top

Front

Rear

Side

79
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 37-mm.

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.


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 obstacle 2 feet 9 inches high.
   - Crosses trenches 7 feet 11 inches wide.
   - Fords streams 3 feet 3 inches deep.

20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

MEDIUM TANK
AICHI
2599 (1939)
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 fore.
3. Ammunition: 5,000 rounds small-arms and 500 rounds of HE.
   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.
11. Motor:
    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.
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HEAVY TANK, M 2597 (1937)

1. Crew: Six (one driver, one commander, and four gunners).
2. Armament: Two 37-mm guns in turret and two machine guns in hull fore.
3. Ammunition: 2,000 rounds small-arms and 120 rounds 37 mm.
   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.
10. Weight: 32 tons.
11. 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.
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 obstacle 3 feet 6 inches high.
   Crosses trenches 7 feet wide.
   Fords streams 4 feet 2 inches deep.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE
ARMY

HEAVY TANK
M 2597 (1937)

Top

Front

Rear

Side

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SECTION IV

ARMORED VEHICLES OF THE RUSSIAN ARMY
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.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

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

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.
14. Road:
   Maximum: 43 miles per hour.
15. Cruising radius, at road speed 125 to 190 miles.
16. Operating distance without refill:
17. Gear speeds and ratios:
18. Turning radius:
19. Suspension, type: Automobile.
   Ground clearance 10.4 inches.
   Climbs _______° slopes.
   Negotiates vertical obstacle _______ high.
   Crosses trenches _______ wide.
   Fords streams 19.7 inches deep.
20. Remarks: Obsolescent type, which is being gradually replaced with more modern types. Not used in Finnish War so far as known.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

ARMORED CAR
BA 27
4-WHEELED

Top

Front

Rear

Side
ARMORED CAR
BRONNIEFORD, 3-AXLED, 6-WHEELED

2. Armament: One 37-mm gun and one machine gun in turret; one machine gun beside driver.
3. Armor, thickness:
   Upper structure: Averages 0.43- to 0.55-inch.
   Front:
   Sides:
4. Turret:
5. Vision:
6. Ventilation:
7. Communications:
8. Dimensions:
   Length: 16 feet 2 inches.
   Width: 6 feet 3 inches.
   Height: 8 feet 0 inches.
9. Weight: 7 tons.
10. Motor:
    Type: Ford (?).
    Cooling system:
    Horsepower: 85.
    Horsepower per ton: 12.1.
11. Drive:
12. Speed:
    Cross country: Unknown; believed fair.
    Road:
    Maximum: 43 miles per hour.
13. Cruise radius, at road (?)
    speed 150 miles.
14. Operating distance without refill:
15. Gear speeds and ratios:
16. Turning radius:
17. Suspension, type:
18. Performance:
    Ground clearance: 10.4 inches.
    Climbs _______° slopes.
    Negotiates vertical obstacle ______ high.
    Crosses trenches ______ wide.
    Fords streams ______ deep.
19. Remarks: Six wheels with pneumatic tires; four rear wheels have dual tires and can be fitted with tracks. Modelled on British Lancaster.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

ARMORED CAR
BRONNIEFORD, 3-AXLED,
6-WHEELED

Top

Front

Rear

Side

314752°—41———7

93
2. Armament: One 37-mm gun and two 7.62-mm machine guns.
3. 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:
9. 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:
13. 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: Automobile.
19. Performance:
   Ground clearance: 10 inches.
   Climbs ------° slopes.
   Negotiates vertical obstacle ------ high.
   Crosses trenches ------ wide.
   Fords streams ------ deep.
   Amphibian.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

ARMORED CAR
BA FORD AMPHIBIAN
6-WHEELED

Top

Front

Rear

Side
RUSSIAN
ARMY

LIGHT TANK T-27

1. Crew: Two (driver and gunner).
3. Ammunition: 3,000 rounds.
4. Armor, thickness: 0.275-inch.
   Upper structure:
   Front:
   Sides:
5. Turret: One.
6. Vision:
7. Ventilation:
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.
LIGHT TANK
T-37, VICKERS, CARDEN-LLOYD

1. 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: 0.275-inch.
   Front: 0.315-inch (T-37 and T-38 said to have 0.258- to 0.394-inch.)
5. Turret: One.
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 13 feet 1 inch.
   Width: 6 feet 6 inches.
   Height: 6 feet.
10. Weight: 3 tons.
11. Motor:
    Type: Meadow VI or Ford V.
    Cooling system: 
    Horsepower: 56.
    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.
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Four bogie wheels; two bogle scissors; articulation coil 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

LIGHT TANK
T-37, VICKERS, CARDEN-LLOYD

Top

Front

Rear

©

Side

99
LIGHT TANK
T-26 A AND T-26 B VICKERS MA/30 AND MA/31


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.

3. 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, 0.19-inch; B, 0.23-inch.
   - Front: A, 0.31-inch; B, 0.39-inch.
   - Sides: A, 0.51-inch; B, 0.55-inch.

5. Turret: A, two; B, one.

6. Vision:

7. Ventilation:


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

10. Weight: 8½ tons.

11. Motor:
    - Type: Armstrong-Siddeley IV (Russian make).
    - Cooling system: Horsepower.
    - 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.

14. 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 machine guns. Russian version of Vickers 6-ton. In some cases has been made a flame thrower. Large numbers exist. Being replaced by BT M/ABC.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

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

©
RUSSIAN ARMY

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

2. Armament: (1) One or two machine guns and one 45-mm gun. (2) One machine gun and one 76-mm gun. 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.
4. Armor, thickness: 0.79-inch. Upper structure: 0.23-inch to 0.27-inch. Front: 0.5-inch to 0.624-inch. Sides: 0.39-inch.
5. Turret: One.
6. Vision:
7. Ventilation:
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.
12. 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.
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

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

Top

Front

Rear

Side
RUSSIAN ARMY

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

1. Crew: Seven (driver, commander, four gunners, radio operator).
2. Armament: One 76-mm gun; four 7.62 machine guns (one antiaircraft gun).
3. 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:
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 refil:
16. Gear speeds and ratios:
17. Turning radius:
18. 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

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

Top
Front
Rear
Side

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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:
5. Turret: Four.
6. Vision:
7. Ventilation:
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 XII/V.
    Cooling system:
    Horsepower: 500 to 750.
    Horsepower per ton: 14.2 to 22.7.
12. 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

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

Top

Front

Rear

Side

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SECTION V

ARMORED VEHICLES OF THE ITALIAN ARMY
3. Ammunition:
4. Armor, thickness: 0.23- to 0.35-inch.
   - Upper structure:
   - Front:
   - Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   - Length: 9 feet.
   - Width: 5 feet 6 inches.
   - Height: 39 inches.
10. Weight: 2 tons.
    - Type: 4-cylinder Fiat.
    - Cooling system:
    - Horsepower: 20.
    - Horsepower per ton: 11.6.
12. Drive: Gear and planet.
13. Speed:
    - Cross country:
    - Road:
    - Maximum: 25 miles per hour.
14. Cruising radius, at _______ speed, 75 miles.
15. Operating distance without refill:
17. Turning radius: 13 feet.
18. Suspension, type:
19. Performance:
    - Ground clearance:
    - Climbs _____° slopes.
    - Negotiates vertical obstacle 1 foot 3 inches high.
    - Crosses trenches 4 feet wide.
    - Fords streams _____ deep.
20. Remarks:
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: 0.51-inch.
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: 15 feet.
   Width: 6 feet 6 inches.
   Height: 7 feet 6 inches.
10. Weight:
11. Motor:
    Type: 6-cylinder Fiat.
    Cooling system:
    Horsepower: 56.
    Horsepower per ton: $8\frac{1}{4}$.
12. Drive:
13. Speed:
   Cross country:
   Road:
   Maximum: 25 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 ______ wide.
   Fords streams ______ deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

ARMORED CAR
FIAT M 1934

Top

Front

Rear

Side

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### LIGHT TANK
**FIAT-ANSALDO**
**CV 3/33-35**

<table>
<thead>
<tr>
<th>No.</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Crew: Two</td>
</tr>
<tr>
<td>2.</td>
<td>Armament: Two machine guns or one light machine gun and flame thrower (inflammable liquid carried in trailer).</td>
</tr>
<tr>
<td>3.</td>
<td>Ammunition: 2,240 rounds small-arms.</td>
</tr>
<tr>
<td>4.</td>
<td>Armor, thickness: 0.31- to 0.62-inch.</td>
</tr>
<tr>
<td>5.</td>
<td>Turret: None</td>
</tr>
<tr>
<td>6.</td>
<td>Vision:</td>
</tr>
<tr>
<td>7.</td>
<td>Ventilation: F l a g (sometimes radio).</td>
</tr>
<tr>
<td>8.</td>
<td>Communications:</td>
</tr>
<tr>
<td>9.</td>
<td>Dimensions:</td>
</tr>
<tr>
<td>10.</td>
<td>Weight: 3.5 tons</td>
</tr>
<tr>
<td>12.</td>
<td>Drive: Front sprocket</td>
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<tr>
<td>13.</td>
<td>Speed: Four speeds.</td>
</tr>
<tr>
<td>14.</td>
<td>Cruising radius, at _____ speed 55 to 60 miles.</td>
</tr>
<tr>
<td>15.</td>
<td>Operating distance without refill:</td>
</tr>
<tr>
<td>16.</td>
<td>Gear speeds and ratios:</td>
</tr>
<tr>
<td>17.</td>
<td>Turning radius:</td>
</tr>
<tr>
<td>18.</td>
<td>Suspension, type: Seven bogie wheels; two bogies connected by girder bearer; one independent bogie wheel at rear, leaf springing.</td>
</tr>
<tr>
<td>19.</td>
<td>Performance:</td>
</tr>
<tr>
<td>20.</td>
<td>Remarks: 0.31-inch armor on earlier model, 0.62-inch armor on later model. Standard Italian tank. Large number are in existence. Designed from 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.</td>
</tr>
</tbody>
</table>
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

LIGHT TANK
FIAT-ANSALDO
CV 3/33-35

Top

Front

Rear

Side

115
ITALIAN
ARMY

LIGHT TANK
FIAT-ANSALDO
3000B (OLD MODEL)

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.
    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. A considerable number of these tanks may be in existence. Are carried on trailers.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

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

LIGHT TANK
FIAT-ANSALDO
3000B (LATE MODEL)

1. 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: 18.
   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.
    Type: 4-cylinder Fiat.
    Cooling system: Water.
    Horsepower: 45.
    Horsepower per ton:
12. 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

LIGHT TANK
FIAT-ANSALDO
3000B (LATE MODEL)

Top

Front

Rear

Side
ITALIAN ARMY

LIGHT TANK
M 1940

2. Armament: One 37-mm gun or one machine gun.
3. Ammunition:
4. Armor, thickness:
   - Upper structure: 0.5-inch.
   - Front:
   - Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   - Length: 13 feet 1 inch.
   - Width: 5 feet 5 inches.
   - Height: 7 feet 3 inches.
10. Weight: 5 tons.
11. Motor:
   - Type: Gasoline.
   - Cooling system:
   - Horsepower: 95.
   - Horsepower per ton:
12. Drive:
13. Speed:
   - Cross country:
   - Road:
   - Maximum: 20 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 ______ wide.
   - Fords streams ______ deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN LIGHT TANK
ARMY M 1940

Top

Front

Rear

Side
ITALIAN ARMY

LIGHT TANK
M-6

2. Armament: One 20-mm gun; one light machine gun coaxially mounted.
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: 12 feet 5 inches.
   Width: 6 feet 1 inch.
   Height:
10. Weight: 6.1 tons.
   Type:
   Cooling system:
   Horsepower: 70.
   Horsepower per ton:
12. Drive:
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:
19. Performance:
   Ground clearance: 1 foot 2 inches.
   Climbs 45° slopes.
   Negotiates vertical obstacle 2 feet 2 inches high.
   Crosses trenches 4 feet 3 inches wide.
   Fords streams 2 feet 11 inches deep.
20. Remarks: In course of completion, approximate data only.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN LIGHT TANK
ARMY M-6

Top

Front

Rear

Side
ITALIAN ARMY

LIGHT TANK
CARRO D' ASSALTO
(M11/39)

2. Armament: One 20-mm machine gun; one 8-mm light machine gun; or two 8-mm machine guns and possibly flame thrower.
3. Ammunition: 2,000 rounds for machine gun; 500 rounds for heavy machine gun.
5. Turret:
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 12 feet 10 inches.
   Width: 6 feet.
   Height: 6 feet 3 inches.
10. Weight: 6 to 8 tons.
    Type:
    Cooling system:
    Horsepower: 100.
    Horsepower per ton:
12. Drive:
13. Speed:
   Cross country:
   Road: 18 miles per hour.
   Maximum:
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Completely obscured by skirting.
19. Performance:
   Ground clearance: 1 foot 11 inches.
   Climbs 45° slopes.
   Negotiates vertical obstacle ______ high.
   Crosses trenches 5 feet 10 inches wide.
   Fords streams 2 feet 6 inches deep.
20. Remarks: 300 of these vehicles were to be delivered February 1939, although believed not this many in service.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

LIGHT TANK
CARRO D' ASSALTO
(M11/39)

Top

Front Rear

(Alternate model)

Side

314752°—41——9  125
MILITARY INTELLIGENCE

ITALIAN ARMY

MEDIUM TANK ANSALDO

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:
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:
18. 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:

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IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

MEDIUM TANK ANSALDO

Top

Front

Rear

Side

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ITALIAN
ARMY

MEDIUM TANK
M-13/40

2. Armament: One 47-mm gun; one machine gun coaxially mounted in turret; two machine guns coaxially mounted in hull, 1 machine gun reserve.
3. 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:
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. 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.
ITALIAN ARMY

MEDIUM TANK
CARRO DE ROTTURA

1. Crew: Seven (four drivers, two gunners, one wireless operator-commander).
2. Armament: One 47-mm gun; two 8-mm machine guns.
3. Ammunition: 150 rounds for 47-mm gun; 4,000 rounds for machine gun.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
8. Dimensions:
   Length: 14 feet 8 inches.
   Width: 7 feet.
   Height: 7 feet 3 inches.
10. Weight: 14¾ 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY
MEDIUM TANK
CARRO DE ROTTURA

Top
Front
Rear
Side

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### MEDIUM TANK

**FIAT 36**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Crew:</td>
<td>Six or eight.</td>
</tr>
<tr>
<td>2. Armament:</td>
<td>One 37-mm or 47-mm gun; three 8-mm machine guns.</td>
</tr>
<tr>
<td>3. Ammunition:</td>
<td></td>
</tr>
<tr>
<td>4. Armor, thickness:</td>
<td></td>
</tr>
<tr>
<td>Upper structure:</td>
<td></td>
</tr>
<tr>
<td>Front:</td>
<td></td>
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<tr>
<td>Sides:</td>
<td></td>
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<tr>
<td>5. Turret:</td>
<td></td>
</tr>
<tr>
<td>6. Vision:</td>
<td></td>
</tr>
<tr>
<td>7. Ventilation:</td>
<td></td>
</tr>
<tr>
<td>8. Communications:</td>
<td></td>
</tr>
<tr>
<td>9. Dimensions:</td>
<td></td>
</tr>
<tr>
<td>Length:</td>
<td></td>
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<tr>
<td>Width:</td>
<td></td>
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<tr>
<td>Height:</td>
<td></td>
</tr>
<tr>
<td>10. Weight:</td>
<td>20 to 25 tons.</td>
</tr>
<tr>
<td>11. Motor:</td>
<td></td>
</tr>
<tr>
<td>Type:</td>
<td></td>
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<tr>
<td>Cooling system:</td>
<td></td>
</tr>
<tr>
<td>Horsepower:</td>
<td></td>
</tr>
<tr>
<td>Horsepower per ton:</td>
<td></td>
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<tr>
<td>12. Drive:</td>
<td></td>
</tr>
<tr>
<td>13. Speed:</td>
<td></td>
</tr>
<tr>
<td>Cross country:</td>
<td></td>
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<tr>
<td>Road:</td>
<td></td>
</tr>
<tr>
<td>Maximum: 22 miles per hour.</td>
<td></td>
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<tr>
<td>14. Cruising radius, at ______ speed ______ miles.</td>
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<tr>
<td>15. Operating distance without refill:</td>
<td></td>
</tr>
<tr>
<td>16. Gear speeds and ratios:</td>
<td></td>
</tr>
<tr>
<td>17. Turning radius:</td>
<td></td>
</tr>
<tr>
<td>18. Suspension, type:</td>
<td></td>
</tr>
<tr>
<td>19. Performance:</td>
<td></td>
</tr>
<tr>
<td>Ground clearance:</td>
<td></td>
</tr>
<tr>
<td>Climbs _______° slopes.</td>
<td></td>
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<tr>
<td>Negotiates vertical obstacle 3 feet 7 inches high.</td>
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<tr>
<td>Crosses trenches 9 feet 10 inches wide.</td>
<td></td>
</tr>
<tr>
<td>Fords streams 2 feet 6 inches deep.</td>
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</tr>
<tr>
<td>20. Remarks:</td>
<td></td>
</tr>
</tbody>
</table>
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

MEDIUM TANK
FIAT 36

Top

Front

Rear

Side

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SECTION VI

ARMORED VEHICLES OF THE FRENCH ARMY
ARMORED CAR
AMD PANCHARD-TOE
FOUR-WHEELED

1. Crew:
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:
19. Performance:
   Ground clearance:
   Climbs ______° slopes.
   Negotiates vertical obstacle ______ high.
   Crosses trenches ______ wide.
   Fords streams ______ deep.
20. Remarks: Two unprotected water condensers on either side of vehicle. Four wheels.
ARMORED CAR
AMD PANCHARD, 1935
FOUR-WHEELED

1. Crew:
2. Armament:
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   Front:
   Sides:
5. Turret: One.
7. Ventilation:
8. Communications:
9. Dimensions:
   Length:
   Width:
   Height:
10. Weight:
   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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

ARMORED CAR
AMD PANCHARD, 1935
FOUR-WHEELED

View

Front

Rear

Side
ARMORED CAR
AM LAFFLEY-TOE
SIX-WHEELED

1. Crew:
2. Armament:
3. Ammunition:
5. Turret: Spherical.
7. Ventilation:
8. Communications:
9. Dimensions: Length: Width: Height:
10. Weight:
11. Motor:
   Type:
   Cooling system:
   Horsepower:
   Horsepower per ton:
12. Drive: Six drive wheels.
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: Two small scaling wheels in front; can be driven in either direction.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

ARMORED CAR
AM LAFFLEY-TOE
SIX-WHEELED

Top

Front

Bearing

Side

314752°—41—10 141
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.
4. Armor, thickness: 0.51-inch.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications: Radio; flag; lamp.
9. Dimensions:
   Length: 12 feet 6 inches.
   Width: 5 feet 3 inches.
   Height: 6 feet 6 inches.
10. Weight: 4½ to 5 tons.
11. 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:
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK
RENAULT 1935, AMR
MILITARY INTELLIGENCE

FRENCH ARMY

LIGHT TANK
F. T.

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.
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: 17 feet 0 inch.
   Width:
   Height: 7 feet 3½ 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.
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 obstacle _____ high.
   Crosses trenches 5 feet 0 inches wide (approximately).
   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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK

F. T.
MILITARY INTELLIGENCE

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: 1 1/2-inch cast steel.
   Upper structure: Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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: 7.5.
12. Drive: Front sprocket.
13. Speed:
   Cross country: Road: 12 1/2 miles per hour.
   Maximum: 30 miles per hour.
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 be easily mass produced.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK
RENAULT R 1935

View

Front

Rear

Side

147
LIGHT TANK
AMC RENAULT, 1935

2. Armament: One 37-mm gun; one machine gun.
3. Ammunition: 108 rounds for gun; 2,100 rounds for machine gun.
   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: 10 1/2 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.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK
AMC RENAULT, 1935

View

Front

Rear

Side

149
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: \( \frac{1}{2} \)-inch cast steel.
   Upper structure:
   Front: 
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 13 feet 8 inches.
   Width: 6 feet 1 inch.
   Height: 7 feet.
10. Weight: \( \frac{11}{2} \) 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:
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: A large number of these tanks were in existence and may be easily mass produced. An improved model was in production.
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.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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:
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).
1. Crew: Two (one driver, one gunner).
2. Armament: One 37-mm gun; one light machine gun.
3. Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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:
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH
ARMY

LIGHT TANK
F C M 1936

View

Front

Rear

Side

155
MILITARY INTELLIGENCE

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: 1½-inch. Upper structure:
   Front:
   Sides:

5. Turret:

6. Vision:

7. Ventilation:


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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

MEDIUM TANK
LIGHT MEDIUM A M X

Top

Front Rear

Side

31°47'52"—41——11 157
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: 1½ inch. Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Communications: Radio; flag.
8. Dimensions:
   Length: 17 feet 6 inches.
   Width: 6 feet 8 inches.
   Height: 8 feet 10 inches.
9. Motor:
   Type: V-8.
   Cooling system: Water.
   Horsepower: 190.
   Horsepower per ton:
10. Drive: Rear sprocket.
11. Speed:
   Cross country:
   Road: 29 miles per hour.
12. Radius of action: 140 miles.
13. Operating distance without refill:
14. Maximum:
15. Gear speeds and ratios:
16. Turning radius:
17. Suspension, type: Nine bogie wheels; four bogies with leaf springing; one independent bogie wheel; protected by skirting.
18. 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.
19. Remarks: Considerable numbers were in existence.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

MEDIUM TANK
SOMUA S 1935

Top

Front

Rear

Side

150
MILITARY INTELLIGENCE

FRENCH ARMY

MEDIUM TANK

D-2

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\(\frac{1}{2}\)-inch. Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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:
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Twelve small bogie wheels; six 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.

Remarks: Only a limited number of these vehicles were manufactured.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

MEDIUM TANK
D-2

View

Front

Rear

Side

161
MEDIUM TANK
SOMUA S AU 40

1. Crew: Three (four?) (driver, commander, gunner (loader?)).
2. Armament: One 75-mm gun.
3. Ammunition:
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
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: 20 miles per hour.
   Maximum:
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-barreled 75-mm gun was mounted in the hull. Was to be used as armored artillery.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

MEDIUM TANK
SOMUA S.AU 40

Top

Front

Rear

Side

163
HEAVY TANK
CHAR B I

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: 2½-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: 
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 obstacle 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 engine to 350 horsepower Renault.
MILITARY INTELLIGENCE

FRENCH
ARMY

HEAVY TANK
B-BIS

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:
5. 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.
15. 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.
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 1½ 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

INFANTRY TRACTOR
RENAULT CHENILLETTE

Top

Front

Rear

Side
1. Crew:
2. Armament:
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

COMMANDERS' CAR
RENAULT

Top

Front

Rear

Side

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