WAR DEPARTMENT

BASIC FIELD MANUAL

MILITARY INTELLIGENCE

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

June 20, 1941

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MILITARY INTELLIGENCE

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

Prepared under direction of the Chief of Staff

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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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SECTION I
GENERAL

1. PURPOSE.—The purpose of this manual is to serve as a guide in the identification of foreign armored vehicles. The material has been secured from many sources. It is the best available but may be incomplete and, in some respects, inaccurate.

2. SCOPE.—This manual, containing illustrations with explanatory data relative to foreign armored vehicles, German, Japanese, Russian, Italian, and French, is published for limited distribution. When illustrations are not given, blank spaces have been left so that they may be added when provided. The manual will be used for instruction of officers and men in the appearance and general characteristics of armored vehicles and will be safeguarded as prescribed in AR 380–5.

SECTION II

ARMORED VEHICLES OF THE GERMAN ARMY
GERMAN ARMY

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

1. Crew: Two or three (gunner and driver; sometimes radio operator also).
2. Armament: One machine pistol and one machine gun mounted for ground or antiaircraft fire.
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   Front: 0.39-inch
   Sides: 0.31-inch (Plates all set at angle.
   Proof against armor-piercing small ammunition all around.)
5. Turret: No.
6. Vision:
7. Ventilation:
8. Communications: Some cars of this type possess radio.
9. Dimensions:
   Length: 10 feet.
   Width: 7 feet.
   Height: 5 feet.
10. Weight: 4 tons (4 wheels).
11. Motor:
   Type:
   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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

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:
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 PANZERSPAHWAGEN
(LIGHT ARMORED CAR)
M-I
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: Plates all set at angle.
   Front: Proof against armor-piercing small arms ammunition all around.
   Sides: 0.39 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:
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)
MILITARY INTELLIGENCE

GERMAN ARMY

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:

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

12. Drive:

13. Speed:
   - Cross country: 20 miles per hour.
   - Road: 40 miles per hour.
   - Maximum: 50 miles per hour.
   - Reverse: 30 miles per hour.


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:
   - Climbs _____° 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
Side
Rear

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

1. Crew: Four or five (two drivers, one gunner-commander, one gunner) (if fitted with radio, also a radio operator).
2. Armament: One 20-mm machine gun; one light machine gun.
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   Front: 0.79 inch.
   Sides: 0.2 to 0.79 inch.
   Turret: 1.18 inches.
5. Turret: Yes.
6. Vision:
7. Ventilation:
8. Communications: Certain cars of this type possess radio.
9. Dimensions:
   Length: 17 feet 6 inches.
   Width: 8 feet.
   Height: 8 feet 9 inches.
10. Weight: 9 to 10 tons (8 wheels).
11. Motor:
12. Type:
13. Cooling system:
14. Horsepower:
15. Horsepower per ton:
16. Drive:
17. Speed:
   Cross country:
   Road:
   Maximum: 53 miles per hour.
19. Operating distance without refill:
20. Gear speeds and ratios:
21. Turning radius:
22. Suspension, type: Normal automobile type.
23. Performance:
   Ground clearance:
   Climbs _____° slopes.
   Negotiates vertical obstacle _____ high.
   Crosses trenches _____ wide.
   Fords streams _____ deep.
24. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

Front View
Rear View
Side View

314752°—41—2
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

GERMAN ARMY

ARMORED CAR
(NEW MODEL)

Top
Front
Rear
Side

US ARMY MILITARY HISTORY INSTITUTE

MCMLXVII
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:

Cross country: 12 miles per hour.
Road:
Maximum: 28 miles per hour.
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 1-KRUPP
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.
12. Drive: Front sprocket.
13. Speed:

Cross country: 12 miles per hour.
Road: 32 miles per hour.
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
GERMAN ARMY

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
Bear
Side
21
GERMAN ARMY

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

1. Crew: Two (driver and gunner).
2. Armament: Two 7.9-mm Hotchkiss machine gun (1 spare).
3. Ammunition: 2,360 rounds.
4. Armor, thickness:
   Upper structure: \[ \text{0.15 inch} \]
   Front: \[ \text{to} \]
   Sides: \[ \text{0.39 inch} \]
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 Flat.
   Cooling system: Water.
   Horsepower: 24 horsepower, 4-cylinder Ford; 45 horsepower, 6-cylinder Flat.
   Horsepower per ton: 9.6 or 18, depending on motor installed.
12. Drive:
   Brake—front sprocket.
13. Speed:
   Cross country: 25 miles per hour.
   Road: 31 1/4 miles per hour.
   Maximum:
14. Cruising radius, at ______ speed ______ miles.
15. Operating distance without refill: 85 miles.
16. Gear speeds and ratios:
17. Turning radius:
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)
GERMAN ARMY

10. Crew: Three or four (driver, commander, two gunners).

11. Armament: One 37-mm gun; one machine gun mounted coaxially in turret; one machine gun on hull at driver's left.


13. Armor thickness: Thickest known now 1 inch, being raised to 2 inches.

14. Upper structure: Front:

15. Turret: Round turret surmounted by round observation cupola on righthand side.

16. Vision:

17. Ventilation:

18. Communications: Radio, flag, and lamp.

19. Dimensions:


Horsepower per ton: 14.1 to 10.4.


22. Speed:

23. Cross country:

Road: 26 miles per hour.

Maximum:


25. Gear speeds and ratios:

26. Turning radius:

27. Suspension, type: 4 large bogie wheels, 3 track support wheels, low rear idler wheel.

28. 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.

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

LIGHT TANK
TN HP
(EX-CZECH)
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.
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:
15. Operating distance without refill: 80 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

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MILITARY INTELLIGENCE

GERMAN
ARMY

LIGHT TANK
LT 35 S2a
(EX-CZECH)

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:
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
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<tbody>
<tr>
<td><strong>GERMAN ARMY</strong></td>
<td><strong>LIGHT TANK TNHS 38</strong></td>
</tr>
<tr>
<td>1. Crew:</td>
<td></td>
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<td>3. Ammunition:</td>
<td></td>
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<tr>
<td>4. Armor, thickness:</td>
<td></td>
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<tr>
<td>Upper structure:</td>
<td></td>
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<tr>
<td>Front:</td>
<td></td>
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<td>Sides:</td>
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<tr>
<td>5. Turret:</td>
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<td>6. Vision:</td>
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<td>7. Ventilation:</td>
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<td>8. Communications:</td>
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<tr>
<td>9. Dimensions:</td>
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<tr>
<td>Length:</td>
<td></td>
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<tr>
<td>Width:</td>
<td></td>
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<tr>
<td>Height:</td>
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<tr>
<td>10. Weight: 8 tons.</td>
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<tr>
<td>11. Motor:</td>
<td></td>
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<tr>
<td>Type:</td>
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<tr>
<td>Cooling system:</td>
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<td>Horsepower:</td>
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<td>Horsepower per ton:</td>
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<td>12. Drive:</td>
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<td>13. Speed:</td>
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<tr>
<td>15. Operating distance without refill:</td>
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<tr>
<td>16. Gear speeds and ratios:</td>
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<tr>
<td>17. Turning radius:</td>
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<tr>
<td>18. Suspension, type:</td>
<td></td>
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<tr>
<td>19. Performance:</td>
<td></td>
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<tr>
<td>Ground clearance:</td>
<td></td>
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<tr>
<td>Climbs slopes.</td>
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<tr>
<td>Negotiates vertical obstacle high.</td>
<td></td>
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<tr>
<td>Crosses trenches wide.</td>
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<tr>
<td>Fords streams deep.</td>
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<td>20. Remarks: It is reported that this tank can be transported in modified Ju 80 and Focke-Wulf 200 airplanes.</td>
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</table>
GERMAN ARMY

LIGHT 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:
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 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT TANK
LIGHT COMMANDERS TANK

Top
Front
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 ½ miles per hour.
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.
   Ford streams _____ deep.
   Amphibian.
20. Remarks: One hundred of these known to exist. An improved model may have been produced.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

LIGHT AMPHIBIAN
F 4 HE
(EX-CZECH)

Top

Front

Rear

Side

35
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:
   (1) Six small independent bogie wheels with heavy rubber tires.
   (2) Eight small bogie wheels.
   (3) Five large bogie wheels, Christie type; three track support wheels.
19. Performance:
   Ground clearance:
   Climbs ______° slopes.
   Negiates 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)
MILITARY INTELLIGENCE

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. Ammunition:
4. Armor, thickness: Thickest known 1.18-inch to 1.57-inch.
   - Upper structure:
     - Front:
     - Sides:
   - Turret: Identical with that of PZ KW III.
5. Vision:
6. Ventilation:
8. Dimensions:
   - Length: 17 feet (approximately).
   - Width: 7 feet 3 inches.
   - Height: 8 feet 6 inches.
9. Motor:
   - Type:
   - Cooling system:
   - Horsepower per ton: 15.9.
10. Weight: 22 tons.
11. Drive: Front sprocket.
12. Speed:
   - Cross country: 31 miles per hour.
   - Maximum:
13. Cruising radius, at speed miles.
14. Operating distance without refill:
15. Gear speeds and ratios:
16. Turning radius:
17. Suspension, type: Caterpillar eight independent rollers; eight small bogie wheels; four track support wheels.
18. Performance:
   - Ground clearance:
   - Climbs _______ slopes.
   - Negotiates vertical obstacle _______ high.
   - Crosses trenches _______ wide.
   - Fords streams 3 feet 6 inches deep.
19. 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

39
### MEDIUM TANK
#### CZD-V8-H
**(EX-CZECH)**

<table>
<thead>
<tr>
<th>Crew</th>
<th>Three or four (driver, commander, one or two gunners).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armament</td>
<td>One 47-mm gun and one machine gun co-axially mounted in turret; one machine gun in hull, fore.</td>
</tr>
<tr>
<td>Ammunition</td>
<td>90 rounds for 47-mm gun; 3,000 rounds for small arms.</td>
</tr>
<tr>
<td>Armor, thickness</td>
<td>Thickest known, 1.25 inch.</td>
</tr>
<tr>
<td>Upper structure</td>
<td>Front:</td>
</tr>
<tr>
<td>Vision</td>
<td></td>
</tr>
<tr>
<td>Ventilation</td>
<td></td>
</tr>
<tr>
<td>Communications</td>
<td>Radio and lamp.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Length: 17 feet 6 inches. Width: 7 feet 6 inches. Height: 7 feet 8 inches.</td>
</tr>
<tr>
<td>Weight</td>
<td>16.5 tons.</td>
</tr>
<tr>
<td>Motor</td>
<td>Type: V-8.</td>
</tr>
<tr>
<td>Drive</td>
<td>Rear sprocket.</td>
</tr>
<tr>
<td>Speed</td>
<td>Cross country:</td>
</tr>
<tr>
<td>Operating distance without refill</td>
<td>96 miles.</td>
</tr>
<tr>
<td>Gear speeds and ratios</td>
<td></td>
</tr>
<tr>
<td>Turning radius</td>
<td></td>
</tr>
<tr>
<td>Suspension, type</td>
<td>Nine bogie wheels; independent bogie; four pairs of bogies each with elliptical leaf springing connected by outside bearer girder.</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
</tbody>
</table>
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

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

MEDIUM TANK
(FRENCH SOMUA S 1935)

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. 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)
MEDIUM TANK
(FRENCH 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: 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.
    Negates 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-barrelled 75-mm, gun was mounted in the hull. Was to be used as armored artillery.
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.
   Horsepower per ton: 10.9.
12. Drive: Rear sprocket.
13. Speed:
   Cross country:
   Road: 20 miles per hour.
   Maximum:
15. Operating distance without refill: 75 to 85 miles.
16. Gear speeds and ratios:
17. Turning radius:
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

GERMAN ARMY

HEAVY TANK

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

Top

Front

Bear

Side

Rear

Side
STURMGESCHUTZ

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:
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
Bear
Side

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

1. Crew: One driver, 1 assistant driver, 10 passengers.
2. Armament: One machine gun each end of body for antiaircraft purposes.
3. Ammunition: 44 boxes.
4. Armor, thickness: 0.1 inch. Upper structure: very thin. Front: Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   - Length:
   - Width:
   - Height:
10. Weight:
11. Motor:
   - Type:
   - Cooling system:
   - Horsepower:
   - Horsepower per ton:
12. Drive:
13. Speed:
   - Cross country:
   - Road:
   - Maximum:
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

GERMAN ARMY

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

© As antitank tractor. © Commanders' car.

© As antitank tractor. © Commanders' car.
SECTION III

ARMORED VEHICLES OF THE JAPANESE ARMY
TANKETTE, ISHIKAWAJIMA, M 2592 (1932)

1. Crew: Two (one driver and one gunner).
2. Armament: One machine gun in turret.
3. Ammunition:
4. Armor, thickness:
   Upper structure: 0.31 to 0.55 inches.
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 10 feet 2 inches.
   Width: 5 feet 9 inches.
   Height: 5 feet 4 inches.
10. Weight: 3 tons.
11. Motor:
    Type: 4-cylinder.
    Cooling system: Air.
    Horsepower: 45.
    Horsepower per ton: 15.
12. Drive: Front sprocket.
13. Speed:
    Cross country:
    Road: Maximum: 30 miles per hour.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

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: | |
| 10. Weight: | 4 tons. |
| 12. Drive: | |
| 13. Speed: | Cross country: Road: Maximum: 22 miles per hour. |
| 15. Operating distance without refill: | |
| 16. Gear speeds and ratios: | |
| 17. Turning radius: | |
| 18. Suspension, type: Four bogie wheels; 2 bogies. |
| 20. Remarks: | |
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

TANKETTE
M 2595 (1935)
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

ISHIKAWAJIMA

TANKETTE

M 2598 (1938)

Top

Front

Rear

Side

314752—41———5 61

61
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
1. Crew: Three (one driver and two gunners).
2. Armament: One machine gun in turret, one machine gun in hull fore.
3. Ammunition:
4. Armor, thickness: 0.86-inch.
   Upper structure:
   Front: 
   Sides: 
5. Turret: 
6. Vision:
7. Ventilation:
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.
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.
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
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.
14. Cruising radius, at ______ speed ______ miles.
15. Operating distance without refill: 120 miles.
16. Gear speeds and ratios:
17. Turning radius: 
18. Suspension, type: Eight bogie wheels; four bogies.
19. Performance:
   Ground clearance: 1.2 feet. 
   Climbs 40° slopes. 
   Negotiates vertical obstacle 2.6 feet high. 
   Crosses trenches _______ wide. 
   Fords streams 3.2 feet deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE
ARMY

LIGHT TANK
M 2595 (1935)
**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.
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.
11. **Motor:** 4-cylinder.
    - Type: Diesel.
    - Horsepower: 45.
    - Horsepower per ton: 6.5.
12. **Drive:**
13. **Speed:**
    - Cross country:
    - Road:
      - Maximum: 12½ miles per hour.
14. **Cruising radius, at ______ speed:** 110 miles.
15. **Operating distance without refill:**
16. **Gear speeds and ratios:**
17. **Turning radius:**
18. **Suspension, type:** Nine bogie wheels; four bogies; one independent bogie wheel.
19. **Performance:**
    - Ground clearance:
    - Climbs 38° slopes.
    - Negotiates vertical obstacle ______ high.
    - Crosses trenches 6 feet 4 inches wide.
    - Fords streams 1 foot 8 inches deep.
20. **Remarks:**
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:
14. Cruising radius, at _______ speed _______ miles.
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-ARMSTRONG 6-TON ALTERNATIVE A (1936)

Top
Front
Back
Side

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.


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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE ARMY

MEDIUM TANK
M 2589 (1929)

View
Front Rear

Side
| **MEDIUM TANK, M 2590 (1930)**  
| **(OR. 92–1932)**
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Crew:</strong> Five (one driver, one commander, and three gunners).</td>
</tr>
<tr>
<td><strong>2. Armament:</strong> One gun, one machine gun in turret, and one machine gun in hull.</td>
</tr>
<tr>
<td><strong>3. Ammunition:</strong> 5,000 rounds small arms and 300 rounds 37-mm.</td>
</tr>
</tbody>
</table>
| **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 Kikas.  
   Cooling system: Air.  
   Horsepower: 120.  
   Horsepower per ton: 10.6.  
   Drive: |
| **12. Speed:**  
   Cross country:  
   Road:  
   Maximum: 27 miles per hour. |
| **13. Cruising radius, at _____ speed 147 miles.** |
| **14. Operating distance without refill:** |
| **15. Gear speeds and ratios:** |
| **16. Turning radius:** |
| **17. Turning radius:** |
| **18. Suspension, type:** Nine bogie wheels; four bogies; one independent bogie wheel protective skirting. |
| **19. Performance:**  
   Ground clearance:  
   Climbs 38° slopes.  
   Negotiates vertical obstacle _____ high.  
   Crosses trenches _____ wide.  
   Fords streams _____ deep. |
| **20. Remarks:** Used by naval landing party. |
JAPANESE ARMY

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

Top
Front
Rear
Side
MEDIUM TANK, M 2594 (1934)

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
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: 9.3 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:
   - Climb 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)

Top
Front
Side
Rear

Slide
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.
4. Armor, thickness: 1.38-inch. Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: 31 feet.
   Width: 10 feet 8 inches.
   Height: 9 feet 2 inches.
10. Weight: 36 tons.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

JAPANESE
ARMY

HEAVY TANK
AICHI
2596 (1936)

Top
Front
Rear
Side

83
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.
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 Mitsu-bishi.
   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)
SECTION IV

ARMORED VEHICLES OF THE RUSSIAN ARMY
RUSSIAN ARMY

ARMORED CAR
BA BRONNIEFORD NO. 7
4-WHEELED

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

ARMOURED CAR
BA BRONNIEFORD NO. 7
4-WHEELED
# MILITARY INTELLIGENCE

**RUSSIAN ARMY**

## ARMORED CAR

### BA 27

### 4-WHEELED

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Armament: One 37-mm gun, and one 7.62-mm machine gun in revolving turret.</td>
</tr>
<tr>
<td>3.</td>
<td>Ammunition:</td>
</tr>
<tr>
<td>4.</td>
<td>Armor, thickness: 0.24- to 0.51-inch.</td>
</tr>
<tr>
<td>5.</td>
<td>Turret: One revolving.</td>
</tr>
<tr>
<td>6.</td>
<td>Vision:</td>
</tr>
<tr>
<td>7.</td>
<td>Ventilation:</td>
</tr>
<tr>
<td>8.</td>
<td>Communications: Radio in some cars.</td>
</tr>
<tr>
<td>9.</td>
<td>Dimensions:</td>
</tr>
<tr>
<td>10.</td>
<td>Weight: 4.5 tons.</td>
</tr>
<tr>
<td>11.</td>
<td>Motor:</td>
</tr>
<tr>
<td>12.</td>
<td>Drive:</td>
</tr>
<tr>
<td>13.</td>
<td>Speed: Cross country: None.</td>
</tr>
<tr>
<td>15.</td>
<td>Cruising radius, at road speed 125 to 190 miles.</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: Automobile.</td>
</tr>
<tr>
<td>20.</td>
<td>Remarks: Obsolescent type, which is being gradually replaced with more modern types. Not used in Finnish War so far as known.</td>
</tr>
</tbody>
</table>
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

ARMORED CAR
BA 27
4-WHEELED
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. Ammunition:
4. Armor, thickness:
   Upper structure: Averages 0.43- to 0.55-inch.
   Front:
   Sides:
   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. Motor:
   Type: Ford (?).
   Cooling system:
   Horsepower: 85.
   Horsepower per ton: 12.1.
10. Weight: 7 tons.
11. Drive:
12. Speed:
   Cross country: Unknown; believed fair.
   Road:
   Maximum: 43 miles per hour.
13. Cruising 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.
MILITARY INTELLIGENCE

RUSSIAN
ARMY

ARMORED CAR
BA FORD AMPHIBIAN
6-WHEELED

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:
   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

© ©

MCMLXVII

95
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

RUSSIAN ARMY

LIGHT TANK T-27
RUSSIAN ARMY

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 bogle wheels; two bogle scissors; articulation coil springs. Two track support wheels.
19. Performance:
    Ground clearance: 10 1/2 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
MILITARY INTELLIGENCE

RUSSIAN ARMY

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 TV (Russian make).
    - Cooling system:
    - Horsepower: 90.
    - Horsepower per ton: 12.6 or 10.4.
12. Drive: Front sprocket.
13. Speed:
   - Cross country: 10 to 12 miles per hour.
   - Road: 12 miles per hour.
   - Maximum: 22 miles per hour.
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
MILITARY INTELLIGENCE

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: 0.39-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)
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 refill:

16. Gear speeds and ratios:

17. Turning radius:

18. Suspension, type: Ten small bogle wheels; four bogies; two independent bogle 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
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
SECTION V

ARMORED VEHICLES OF THE ITALIAN ARMY
MILITARY INTELLIGENCE

ITALIAN ARMY

SCOUT CAR
FIAT-CARDEN-LLOYD

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:
   Clims ______° slopes.
   Negotiates vertical obstacle 1 foot 3 inches high.
   Crosses trenches 4 feet wide.
   Fords streams ______ deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

FIAT-CARDEN-LLOYD

SCOUT CAR

Top

Front

Rear

Side
ITALIAN
ARMY

ARMORED CAR
FIAT M 1934

1. Crew: Four or five.
2. Armament: One 47-mm gun; two machine guns.
3. Ammunition:
4. Armor, thickness: 0.31- to 0.51-inch.
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: 15 feet.
   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: 8⅛.
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

113
ITALIAN ARMY

LIGHT TANK
FIAT-ANSALDO
CV 3/33-35

2. Armament: Two machine guns or one light machine gun and flame thrower (inflammable liquid carried in trailer).
3. Ammunition: 2,240 rounds small-arms.
4. Armor, thickness: 0.31- to 0.62-inch.
   Upper structure:
   Front:
   Sides:
5. Turret: None.
6. Vision:
7. Ventilation:
9. Dimensions:
   Length: 10 feet 6 inches.
   Width: 4 feet 7 inches.
   Height: 4 feet 2 inches.
10. Weight: 3.5 tons.
    Type: 4-cylinder.
    Cooling system: Water.
    Horsepower: 42.
    Horsepower per ton: 13.3.
12. Drive: Front sprocket.
13. Speed: Four speeds.
14. Cruising radius, at speed 55 to 60 miles.
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Seven bogie wheels; two bogies connected by girder bearer; one independent bogie wheel at rear, leaf springing.
19. Performance:
   Ground clearance: Nine inches.
   Climbs 45° slopes.
   Negotiates vertical obstacle 2 feet high.
   Crosses trenches 4 feet 9 inches wide.
   Fords streams 2 feet 2 inches deep.
20. Remarks: 0.31-inch armor on earlier model, 0.62-inch armor on later model. Standard Italian tank. Large number are in existence. Designed from Carden-Lloyd. May be used as bridge carrier which enables them to cross 16½-foot obstacles. Flame thrower has effective range of 110 yards.
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 bogle wheels obscured by large girder bearer; very large spiked; 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)

Top
Front
Bear
Side

Front

Rear

Side
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: 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.
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:
   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)
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
ARMY

LIGHT TANK
M 1940

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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.
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.
4. Armor, thickness: 1.03-inch. Upper structure:
   Front: 1.03-inch.
   Sides: 0.5-inch.
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)
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.
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:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

MEDIUM TANK
ANSALDO

Top
Front
Side

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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.

IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN
ARMY

MEDIUM TANK
M-13/40

Top
Front
Rear
Side

Slide

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### MILITARY INTELLIGENCE

#### 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.
4. **Armor, thickness:** 1.19-inch upper structure:
   - **Front:**
   - **Sides:**
5. **Turret:**
6. **Vision:**
7. **Ventilation:**
8. **Communications:** Radio.
9. **Dimensions:**
   - **Length:** 14 feet 8 inches.
   - **Width:** 7 feet.
   - **Height:** 7 feet 3 inches.
10. **Weight:** 14 3/4 tons.
11. **Motor:**
    - **Type:** Diesel.
    - **Horsepower:** 160.
    - **Horsepower per ton:**
12. **Drive:**
13. **Speed:**
   - **Cross country:**
   - **Road:**
     - **Maximum:** 25 miles per hour.
14. **Cruising radius, at _______ speed:** 186 miles.
15. **Operating distance without refill:**
16. **Gear speeds and ratios:**
17. **Turning radius:**
18. **Suspension, type:**
19. **Performance:**
   - **Ground clearance:** 1 foot 4 inches.
   - **Climbs 40° slopes.**
   - **Negotiates vertical obstacle 1 foot 11 inches high.**
   - **Crosses trenches 6 feet wide.**
   - **Fords streams 2 feet 6 inches deep.**
20. **Remarks:** First issued in 1939. Less than 150 in service.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

MEDIUM TANK
CARRO DE ROTTURA

Top
Front Rear
Side

131
1. Crew: Six or eight.
2. Armament: One 37-mm or 47-mm gun; three 8-mm machine guns.
3. Ammunition:
4. Armor, thickness:
   Upper structure:
   Front:
   Sides:
5. Turret:
6. Vision:
7. Ventilation:
8. Communications:
9. Dimensions:
   Length:
   Width:
   Height:
10. Weight: 20 to 25 tons.
11. Motor:
   Type:
   Cooling system:
   Horsepower:
   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:
   Climbs ______° slopes.
   Negotiates vertical obstacle 3 feet 7 inches high.
   Crosses trenches 9 feet 10 inches wide.
   Fords streams 2 feet 6 inches deep.
20. Remarks:
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

ITALIAN ARMY

MEDIUM TANK
FIAT 36

US ARMY MILITARY HISTORY INSTITUTE

Top
Front
Rear

Side
**ARMORED CAR**
**AMD PANCHARD-TOE**
**FOUR-WHEELED**

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<table>
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<td><strong>1. Crew:</strong></td>
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<td><strong>2. Armament:</strong></td>
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<td><strong>3. Ammunition:</strong></td>
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<tr>
<td><strong>4. Armor, thickness:</strong></td>
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<tr>
<td>Upper structure:</td>
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<td>Front:</td>
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<td>Sides:</td>
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<td><strong>5. Turret:</strong></td>
<td>One with cupola.</td>
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<td><strong>6. Vision:</strong></td>
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<td><strong>7. Ventilation:</strong></td>
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<td><strong>8. Communications:</strong></td>
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<td><strong>9. Dimensions:</strong></td>
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<td>Length:</td>
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<td><strong>10. Weight:</strong></td>
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<td><strong>11. Motor:</strong></td>
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<td>Type:</td>
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<td>Cooling system:</td>
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<td>Horsepower:</td>
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<td>Horsepower per ton:</td>
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<td><strong>12. Drive:</strong></td>
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<td><strong>13. Speed:</strong></td>
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<td>Cross country:</td>
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<td>Road:</td>
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<td>Maximum:</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><strong>19. Performance:</strong></td>
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<tr>
<td>Ground clearance:</td>
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<tr>
<td>Climbs _____° slopes.</td>
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<tr>
<td>Negotiates vertical obstacle _____ high.</td>
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<tr>
<td>Crosses trenches _____ wide.</td>
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<tr>
<td><strong>19. Performance:</strong></td>
<td></td>
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<tr>
<td>Fords streams _____ deep.</td>
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</tr>
<tr>
<td><strong>20. Remarks:</strong></td>
<td>Two unprotected water condensers on either side of vehicle. Four wheels.</td>
</tr>
</tbody>
</table>
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

ARMORED CAR
AMD PANCHARD-TOE
FOUR-WHEELED

View
Front
Side
Rear

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MILITARY INTELLIGENCE

FRENCH 
ARMY

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: 
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

ARMOURED CAR
AMD PANCHARD, 1935
FOUR-WHEELED

View
Front Rear
Side

139
ARMORED CAR
AM LAFFLEY-TOE
SIX-WHEELED

1. Crew:
2. Armament:
3. Ammunition:
   Upper structure:
   Front:
   Sides:
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
Side

314752°—41—10

141
LIGHT TANK
RENAULT 1935, AMR

1. Crew: Two (one driver, one gunner).
2. Armament: One 13-mm heavy machine gun; two light machine guns.
3. Ammunition: 220 rounds for heavy machine gun; 2,250 rounds for light machine guns.
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: 4 1/2 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.
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.
Crew: Two (one driver, one gunner).
Armament: One 37-mm gun; one light machine gun coaxially mounted.
Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
Armour, thickness: 1 1/2-inch cast steel.
Upper structure:
Front:
Sides:
Turret:
Vision:
Ventilation:
Communications: Radio and flag.
Dimensions:
Length: 13 feet 2 inches.
Width: 6 feet.
Height: 8 feet 1 inch.
Weight: 11 tons.
Motor:
Type: 4-cylinder.
Cooling system: Water.
Horsepower: 83.
Horsepower per ton:
Drive: Front sprocket.
Speed:
Cross country:
Road: 12 1/2 miles per hour.
Maximum:
Radius of action: 90 to 95 miles.
Operating distance without refill:
Gear speeds and ratios:
Turning radius:
Suspension, type:
Five bogie wheels; two pairs bogies with scissor articulation; one independent bogie wheel.
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.
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

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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.
4. Armor, thickness: 19⁄40-inch. Upper structure:
   Front:
   Sides:
5. Turret: Yes.
6. Vision: One episcope; three diascopes; three slits.
7. Ventilation:
8. Communications:
9. Dimensions:
   Length: 11 feet 6 inches.
   Width: 5 feet 9 inches.
   Height: 6 feet 7 inches.
10. Weight: 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.
14. Cruising radius, at ______ speed ______ miles.
15. Operating distance without refill: 88 miles.
16. Gear speeds and ratios: 4 forward; 1 reverse.
17. Turning radius:
18. Suspension, type: Forged steel links.
19. Performance:
   Ground clearance:
   Climbs 35° slopes.
   Negotiates vertical obstacle 21 inches high.
   Crosses trenches 5 feet 7 inches wide.
   Fords streams ______ deep.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK
AMC RENAULT, 1935

View
Front
Rear
Side

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FRENCH ARMY

LIGHT TANK
H 1935

1. Crew: Two (one driver, one gunner).
2. Armament: One 37-mm gun; one light machine gun coaxially mounted.
3. Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
   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: 11½ 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, scissors 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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK H 1935
MILITARY INTELLIGENCE

FRENCH ARMY

LIGHT TANK
H 1939

1. Crew: Two (one driver, one gunner).
2. Armament: One 37-mm gun; one light machine gun coaxially mounted.
3. Ammunition: 100 rounds for gun; 2,400 rounds for light machine gun.
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: 130 miles.
    Road: 26 miles per hour.
15. Operating distance without refill:
16. Gear speeds and ratios:
17. Turning radius:
18. Suspension, type: Six bogie wheels; three bogies, scissors 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).
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

LIGHT TANK
H 1939

Top
Front
Rear
Side
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 FCM 1936

View

Front

Rear

Side

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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 AM X
MEDIUM TANK
SOMUA S 1935

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

FRENCH ARMY

MEDIUM TANK
SOMUA S 1935

Top
Front
Bear
Side
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 1/2-inch.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

MEDIUM TANK D-2

View

Front

Rear

Side

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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:
   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

FRENCH ARMY

MEDIUM TANK

SOMUA S AU 40

Top

Front

Side

Rear

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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: 2 1/4-inch.
   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.
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.
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.
IDENTIFICATION OF FOREIGN ARMORED VEHICLES

FRENCH ARMY

HEAVY TANK
B-BIS

Top
Front
Side
Rear

US ARMY MILITARY HISTORY INSTITUTE

MCMLXVII

Side

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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 1 ½ 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
MILITARY INTELLIGENCE

FRENCH ARMY

COMMANDERS' CAR
RENAULT

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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