

LAV CSV – MR

Combat Support Vehicle – Maintenance and Recovery

The LAV Combat Support Vehicle - Maintenance and Recovery uses the fielded LAV 6.0 baseline incorporating variant role-specific solutions that offer highly protected mobile recovery, repair and maintenance capabilities.

The Maintenance and Recovery vehicle is able to access the same terrain as the LAV 6.0 fleet and provides integral recovery and maintenance capabilities with the necessary tools and spare equipment. The MR has the same high level of protection and exceptional mobility capability as the baseline configuration, plus the added capabilities to recover a deeply mired vehicle, and perform maintenance across a full spectrum of operations.

The internal configuration enables a crew of two, plus two mechanics or casualty passengers under the same level of protection afforded by the baseline LAV 6.0 platform. Tool storage is readily accessible for vehicle recovery and heavy-duty remove and replace operations.



LAV CSV ... WHATEVER MISSION

The Maintenance and Recovery variant is designed to carry a maximum crew of four. The MR vehicle is equipped with a ballistic earth anchor on the front for easy positioning and a high capacity winch with a synthetic rope to facilitate quick recovery set up and extraction. A high capacity crane is mounted on the rear of the vehicle that is capable of performing remove and replace operations of the power pack, turret and other lifting tasks such as armour replacement.

Various bins and stowage brackets are arranged on the vehicle to house tools, recovery shackles and snatch blocks, and can carry various LRUs for rapid replacement as required to support the mission.

FEATURES AND SPECIFICATIONS

Size/Weight

Length	8.2 m
Width	2.7 m
Height	2.7 m
GVWR	28,636 kg

Performance @ GVW

Speed	100+ km/h
Range	600 km
Trench crossing	2.0 m
Grade	60%
Side slope	30%
Turn diameter	<19 m

Power Train & Suspension

Engine	450 hp (335 kW) Caterpillar C9
Transmission	ZF 7-speed
Transfer case	1-speed
Differentials	Limited slip
Tires	395/85R20 with RFI

- 8-wheel, independent, hydropneumatic, with optional height management system
- Full-time 4WD (rear); Selectable 8WD
- Drum brakes with 8-wheel ABS
- Central tire inflation system

Electrical System

- 24 volt, negative ground, MIL-SPEC system
- Belt-driven 570 amp alternator
- Dual banks of isolated batteries (automotive, auxiliary)
- Standard 500A slave receptacle
- LED interior/exterior lighting
- Blade clearance light extensions
- Optional battery charger & DC/AC Inverter

MISSION EQUIPMENT

Communication & Land Navigation

- Provisions per customer requirements

MISSION EQUIPMENT

Recovery

Line pull (Maximum)	300 kN
(Nominal)	250 kN
Rope	Samson AmSteel Blue
(Length)	200 m
(Useable length)	190 m
(Min. breaking strength)	54,700 kg
Speed (Nominal)	12 m/min
(Maximum)	38 m/min

- Manual control to 30 m
- Radio remote control: Bluetooth, 60 m range
- Direct line of sight not required between vehicle and casualty

Earth Anchor

- 2,585 mm wide ballistic steel with hydraulic up/down/float modes with integral pintle mount, work surface and flood light mount

Maintenance

Crane system

Nominal crane rating	13 metre-ton
Reach and lifting capacity	4,400 kg @ 2.7 m
	3,200 kg @ 4.0 m
	2,500 kg @ 5.2 m

Maximum horizontal reach

- Horizontal reach w/out extensions
- (with 2 extensions)

Vertical reach (LAV mounted)

Slewing angle

Hard mount controls

- Wired and wireless options for remote unit to operate booms, extensions, and rotation, along with hook winch
- Stabilizers deployed, rotated and extended through the hard mount and remote unit
- Optional stowage for oxy-acetylene kit, pioneer rack, tow bar, shackles, snatch blocks, tool box(s), etc.
- External pneumatic & hydraulic connections for tools

Protection Systems

- Revolutionary Double-V™ hull proves unparalleled protection
- Energy attenuated seating for all positions
- Spall liner and scalable add-on armour kit

Fire Suppression

- HALON-free automatic and manual activation

Climate Control System

- Air conditioning
- Diesel-fired crew heater/engine preheat
- Fresh air ventilation

Armament

Primary

- Remote weapon system

Supplementary

- 76mm smoke grenade dischargers

Battlefield Contaminants

- Chemical agent detector
- Individual ventilated respirators



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