

## TRUCK, UTILITY, 1/4 TON GS, LANDROVER SERIES 2 AND 2A

CONVERSION TO 106 MM RCL CARRIER

MODIFICATION INSTRUCTION

**REFERENCE:-** ACs in WM Nos 18971/3 and 23286/2.

**NOTE:-** This instruction supersedes previous issues, all copies of which are to be destroyed. Significant changes are sidelined.

**SUMMARY**

1. This instruction details the conversion of the subject vehicles to a vehicle anti-tank SP gun by the following:-

a. Alterations -

Reducing the back length.  
Road springs and shock absorbers changed to heavier type.  
Rear body fittings removed.  
Rerouting exhaust pipe.  
Front wings truncated and strengthened.  
Bonnet to carry vehicle cover and camouflage net.  
Body reinforced by riveting.

b. Additions -

Two removable windshields.  
Gun mounting assembly.  
Ammunition racks and blast shields.  
Bracket with towing 'D'.  
Stowage provision for CES items.  
Twin fuel tanks, fuel pipes and change over tap.  
Rifle carry clips and sockets.  
Seating for gunner and loader.  
Safety belts.

Estimated manhours to perform: 100.0

**NOTE:-** For Series 2 Landrovers, ADE Publication No 381 Parts 1 to 8 refers. For Series 2A Landrovers, ADE Publication No 381 Parts 1, 2, 3 and 6, also No 381 Issue 2 Parts 4, 5, 7 and 8 refer.

2. Priority: Group 2

3. Vehicles affected:

Subject vehicles as directed by AHQ.

4. Action required: By RAEME workshops authorised to carry out base repair in accordance with WKSP A 850.

5. Items affected:

Suspension, chassis, and body

6. Stores required:

Stock No	Designation	Qty per Veh
LV6/MT13/C100064	KIT, conversion, 106 mm RCL comprising:-	1
ADE(A)25-2B	PLATE, reinforcing	1
" 33	RETAINING BRACKET, wireless set	1
" 4B	PLATE tool roll	1
" 5B	REST, carbine muzzle front	1
" 6B	SUPPORT, gun cover	1
" 7B	BASE, cushion	2
" 8B	PACKER	2
" 9B	BRACKET, MTG, carbine clip rear	1
" 10B	REST, muzzle, carbine rear	1
" 11B	BRACKET, rifle cap	1

Sec/Cat No	Designation	Qty per Veh
ADE(A)-25-12B	COVER, tube, ram rods	1
" 13B	PANEL, cover, fuel tank	2
" 14B	LID, gearbox cover	1
" 15A	BRACKET, mirror assy rear view	1
" 16A	BRACKET, MTG, carbine clip front	1
" 17A	RETAINER, pistol grip, carbine	1
" 18A	SPACER, front brkt, fuel tank	2
" 19A	SPACER, rear	2
" 20A	TOW LOOP	1
" 21A	BRACKET	2
" 22A	CLAMP, shroud	2
" 23A	STOP, cushion, seat	4
" 24A	SOCKET, rifle, muzzle	1
" 25A	INSIDE SPACER, motor windshield wiper	2
" 26A	OUTSIDE " " " "	2
" 27A	CLAMP, lid dash ventilator	4
" 28A	BACKING PLATE, bottom	1
" 29A	" " front	1
" 30A	HOLDER, tool combination	1
" 31A	SPRING, HOLDER, tool combination	1
" 32A	HOOK, windshield	2
" 33A	CLIP, cover	1
" 34A	TUBE, ram rods	1
" 35C	BRACKET, fuel tank	1
" 36C	SUPPORT FLOOR	1
" 37C	BRACKET, ditching tools	1
" 38C	WHEEL ramp	1
" 39C	HOLDER, ammunition	1
" 40C	" wireless set	1
" 41C	SUPPORT, wheel ramp	1
" 42B	COVER, fuel filter opening	1
" 43B	" vehicle	1
" 44/1B	SEAT support, inner, LH	1
" 44/2B	" " " RH	1
" 45/1B	HANDRAIL, front, LH	1
" 45/2B	" " " RH	1
" 46/1B	SEAT SUPPORT, outer, LH	1
" 46/2B	" " " RH	1
" 47/1B	END WHEEL ARCH, LH	1
" 47/2B	" " " RH	1
" 48/1B	BRACKET seat, LH	1
" 48/2B	" " " RH	1
" 49B	HAND RAIL, rear	2
" 50/1C	ANGLE support, LH	1
" 50/2C	" " " RH	1
" 51/1B	BRACKET, windshield, stowage, LH	2
" 51/2B	" " " " RH	2
" 52/1B	BRACKET PLATE, front wing, LH	1
" 52/2B	" " " " RH	1
" 53/1E	PLATE, front wing, LH	1
" 53/2E	" " " " RH	1
" 54/1B	STIFFENER ANGLE, LH	1
" 54/2B	" " " " RH	1
" 55/1C	BRACKET, mounting assy, LH	1
" 55/2C	" " " " RH	1
" 60C	BARREL, clamp assy	1
" 68B	WINDSHIELD, convoy assy	2
" 71B	TOGGLE, catch assy	2
" 76/1C	BRACKET, body rear, LH	1
" 76/2C	" " " " RH	1
" 77/1B	STIFFENER, front wing, LH	1
" 77/2B	" " " " RH	1
" 78C	CONTAINER, water can	1
" 79B	HOLDER ASSY, ditching tool	1
" 82/1C	SHIELD, blast assy, LH	1

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Seq/Oat No	Designation	Qty per Veh
ADE(A)-25-82/2C	SHIELD, blast assy, RH	1
" 86C	CONTAINER, food	1
" 87B	SUPPORT, ammunition	1
" 88C	HIP PAD ASSY	2
" 91A	FIXING STRAP, cover, ammunition assy	1
" 92D	COVER, ammunition holder	1
" 93A	CATCH, cover ammunition holder	1
" 94B	COVER, rear view mirror	1
" 95E	" cushion, front	2
" 96C	" " rear	2
" 97B	TAPE, towing assy	1
" 99C	COVER, squab	2
ADE(X)195-110B	CLIP	2
ADE(V)49-10B	CLIP, rifle 'B' vehicles	1
TSE(V)25-3B	CORD, clip	2
RP No 504680	PIPE EXHAUST, front	1
" 237583	TANKS, fuel	2
" 272967	ROAD SPRING (right rear)	1
" 272968	" " (left rear)	1
" 265627	" " (right front)	1
" 264563	" " (left front)	1
" 508042	SHOCK ABSORBERS, front	2
" 265068	U BOLT, long	1
" 06694	" " short	3
" 236017	FUEL GAUGE, tank unit	1
" 237585	ELBOW, outlet	2
" 267837	GASKET	2
" 56398	"	2
" 3972	SCREWS	16
" 3101	WASHERS	16
Wylie Part No X1074	SHOCK ABSORBERS, rear	2
PMC Part No 0117029	PETROL COCK, 2 way	1
" 0117031	FUEL LINE, right hand	1
" 0117032	" " left hand	1
" 0117033	" " cock to flexible line	1
Lucas 737496	ARM, windshield wiper	2
Bulgin Type S603 or S264	SWITCHES, toggle, SPDT	1
AES Trading Co	SEAT, BELTS (40 in LOA, AEROLEX BUCKLE, FIXING PLATE No 1001-17, free ends turned over and sewn, 400 lb)	2
5340-66-010-8123	LOOPS STRAP fastener	12
NIV	SHOE LACES, black, prs	2
NIV	STOPS, rubber (door steps) 1 in high	4
NIV	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 3/8 in x 1 1/2 in	2
5306-49-941-1096	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 3/8 in x 1 in	8
NIV	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 3/8 in x 3 3/4 in	2
NIV	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 5/16 in x 4 in	1
5306-49-941-1085	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 5/16 in x 1 1/2 in	6
5306-49-941-1082	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 5/16 in x 1 in	8
5306-49-941-1078	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 5/16 in x 1/2 in	2
5306-49-941-1066	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 1/4 in x 1/2 in	30
5306-49-941-1072	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate 1/4 in x 1 1/2 in	6
5306-49-941-1068	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate, 1/4 in x 3/4 in	2

Sec/Cat No	Designation	Qty per Veh
NIV	BOLTS, machine, UNF 2A, R steel, hex hd, cad plate, 1/4 in x 2 3/4 in	2
NIV	BOLTS, hex hd No 10 - UNF x 1/2 in MS cad plated	24
5310-99-941-0919	NUTS, plain, hex, UNF 2B steel, cad plated, 5/8 in	2
5310-66-010-6159	NUTS, plain, hex, UNF 2B steel, cad plated, 3/8 in	10
5310-49-941-1308	NUTS, plain, hex, UNF 2B steel, cad plated, 5/16 in	17
5310-49-941-1307	NUTS, plain, hex, UNF 2B steel, cad plated, 1/4 in	60
NIV	NUTS, hex No 10 UNF, MS, cad plated	128
NIV	NUTS, captive, spire SM5/1761/17/8	2
NIV	NUTS, plain, hex lock, UNF, 2B A steel cad plated, 5/16 in	1
NIV	WASHERS, plain, 5/16 in MS	13
NIV	WASHERS, spring, single turn sq sec, cad plated, 5/8 in	2
NIV	WASHERS, spring, single turn sq sec, cad plated, 3/8 in	10
NIV	WASHERS, spring, single turn sq sec, cad plated, 1/4 in	60
NIV	WASHERS, spring, single turn sq sec, cad plated, 3/16 in	128
NIV	SCREWS, mushroom hd, No 10 UNF x 1/2 in MS cad plated	72
NIV	SCREWS, mushroom hd, UNF 1/4 in x 1/2 in	20
NIV	SCREWS, mushroom hd, No 10 UNF 1/4 in x 3/4 in MS, cad plated	2
5305-66-015-2196	SCREWS, machine UNF 2A, MS flat csk hd slatted zinc coated No 10 x 1/2 in	32
NIV	SCREWS, self tapping, Parker Kalon type A No 7 x 5/8 in rd hd	24
NIV	CLEVIS, PINS, steel, cad plated, 5/16 in x 5/8 in long	4
NIV	RIVETS, rd hd, 3/16 in x 3/8 in aluminium	200
NIV	RIVETS, POP, TLP/K424 BH	20
NIV	EYELETS, brass, SP, 17/64 in ID	4

7. Stores removed:

Designation

HOOD AND FITTINGS ASSY with clamps  
SEAT ASSY, rear (retain one cushion)  
STRAPS, retaining  
TAILGATE, with chain and bracket  
TOWING PINTLE ASSY and supports  
BRACKET reinforcement  
CLAMP, spare wheel and jerrican fittings (bulkhead and floor)  
PANEL COVER, fuel tank (retain screws and washers)  
TOOL LOCKER, lid and staple hasp (retain screws and washers)  
PANELS, sill  
CUSHIONS and SQUAB, centre seat, complete  
WINDSHIELD ASSY, rear view mirror, complete  
DOOR ASSY, complete  
VENTILATOR LID, complete  
SPARE WHEEL CLAMP ASSY, complete  
FIRE EXTINGUISHER BRACKETS, complete  
FUEL TANK and lines complete (retain gauge unit)  
FUEL FILLER ASSY, complete  
LASHING HOOKS on front end of body, rear  
ROAD SPRINGS, shock absorbers, front U bolts  
ARMS, windshield wiper  
INSPECTION COVER, front floor

Stores to be returned to RSG except those stores detailed for retention in ADE Publication No 381 Part 4.

**DETAIL**

8. The detail for the conversion is contained in Part 4 of ADE Publication No 381 "Provisional Notes on Gun, Anti-Tank, SP 106 mm, RCL Rifle, Class 2350 Parts 1 to 8" and the fitting and installation drawings ADE(X)226 series are contained in Part 6. The drawings for the component parts are in Part 8 and are referred to in the fitting detail in Part 4. The publication will be supplied to Commands on request to AHQ.

9. On completion of the project by the Command, unless otherwise directed the publication will be returned to AHQ.

10. Paint all new work in accordance with WKSP B 700 and Part 4 of ADE Publication No 381.

11. After conversion the vehicle will be a "Truck, Utility, 1/4 Ton, GS, fitted for Rifle 106 mm".

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