

Product No's 4217060 / 4317070

AUXILIARY BATTERY TRAY TO SUIT NISSAN GU PATROL 3.0 & 4.2 LITRE INTERCOOLED TURBO DIESEL.

Battery tray kit. (6171883 / 6171360)

This battery tray kit is designed to fit a CENTURY (122106) N70ZZL battery or equivalent. <u>Battery weight not to exceed 25kg.</u>

SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

FASTENER TORQUE SETTINGS:

USE	PART NO.	QTY.	DESCRIPTION
	6542032	1	Battery tray
	6151180	3	M6 x 20mm bolt
	6151207	2	M6 x 25mm bolt
	4581072	6	M6 large flat washer
BATTERY TRAY TO ENGINE	4581036	3	M6 spring washer
BAY	4581310	1	M6 X 40mm flat washer
	6151162	2	M6 nyloc nut
	6151303	1	M8 cage nut
	6151022	1	M8 x 25mm bolt
	4581063	1	M8 large flat washer
	4581094	1	M8 spring washer
	3199946	1	Support plate
	6582415	1	Battery retainer
	6151115	2	M8 x 165mm "L" bolt
BATTERY TO TRAY	4581044	2	M8 flat washer
	6151032	2	M8 nyloc nut

USE	PART NO.	QTY.	DESCRIPTION
	1314	1	Battery separator
	3751866	1	Battery separator bracket
WIRING KIT	6151180	5	M6 x 20mm bolt
	4581072	7	M6 large flat washer
	6151046	2	M6 flat washer
	6151162	4	M6 nyloc nut
	4581036	1	M6 spring washer
	6821153	1	Battery cable positive
	6821107	1	Battery cable negative
	6821141	1	Earth cable - separator
	6821149	1	Loom main battery to separator
	180302	12	Cable tie
	180701	1	Scotch Lock

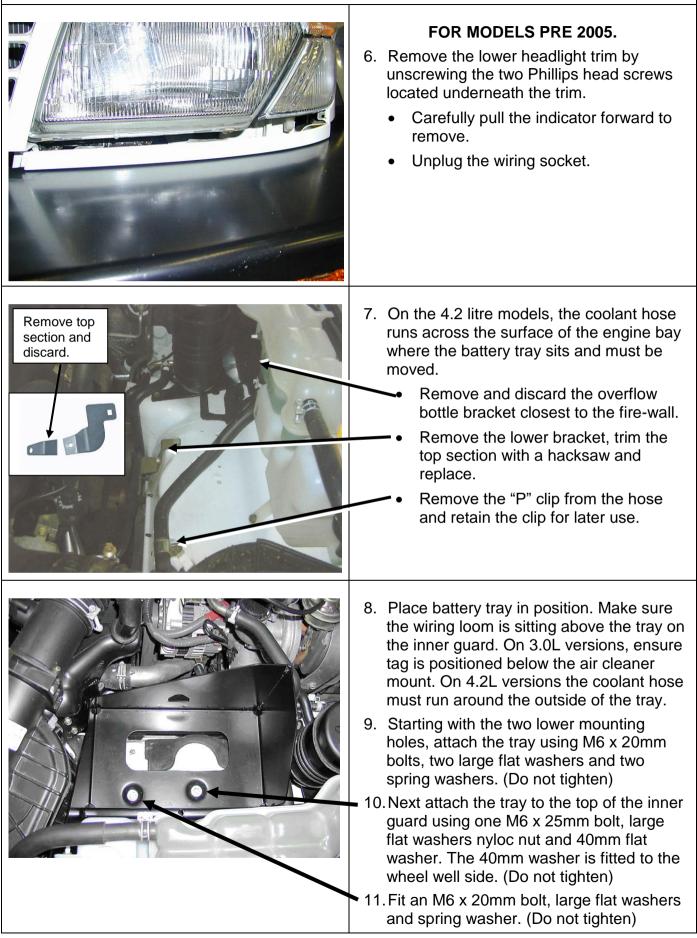
Wiring kit. (6171883 only)

Tools Required: Metric socket set, Phillips head screwdriver, 10, 12, 13mm spanners, side cutters, pliers, power drill, 10mm drill bit and hacksaw.

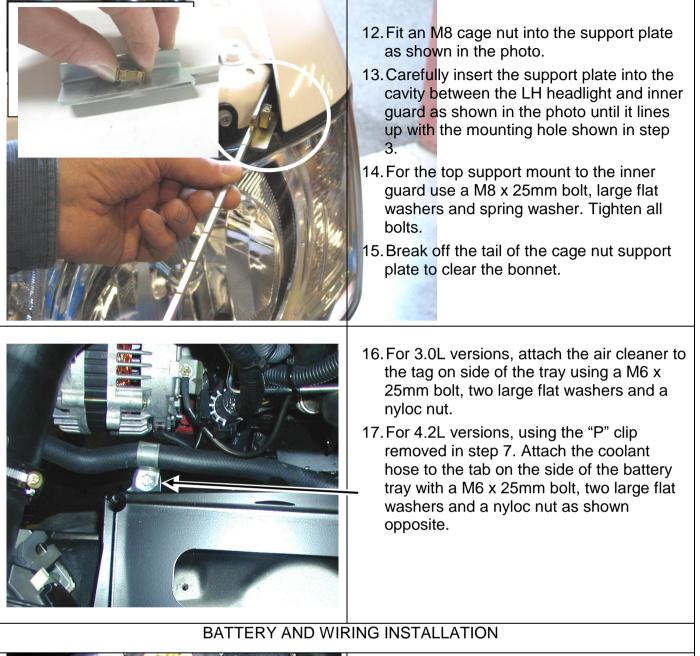
BATTERY TRAY INSTALLATION

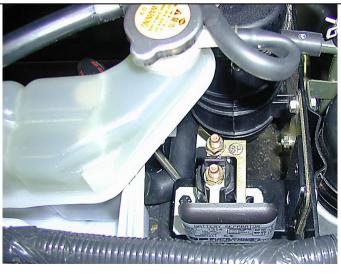
<image/>	 Disconnect the battery. Remove the air cleaner bracket and discard.
	 Unclip and discard the second wiring loom plastic clip on the LHS inner guard, back from the headlight. Drill out this hole to Dia 10mm. Touch up bare edges with paint to prevent rusting <u>Note:</u> This hole is used later for the top support mount on the battery tray.
	 FOR MODELS PRE 2005. 5. The LHS indicator must be removed to allow access to the inner guard. Pull up and out the silver gravity pin using pliers. Remove black Phillips head screw.

BATTERY TRAY INSTALLATION



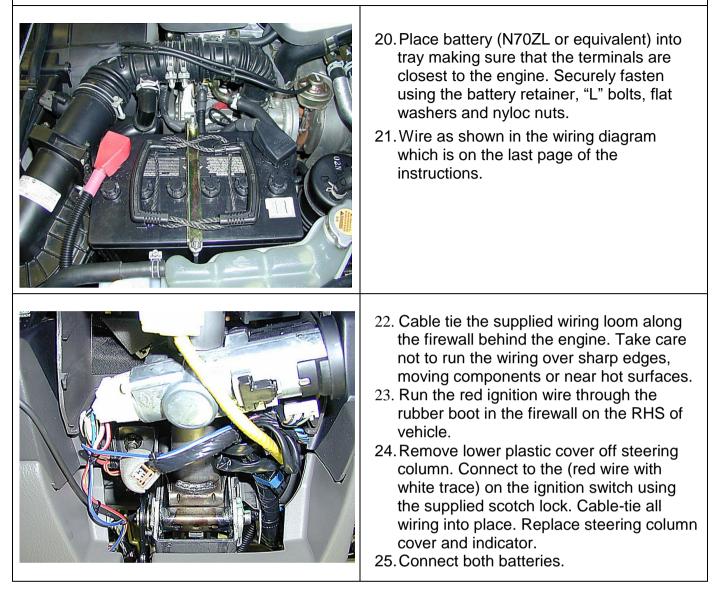
BATTERY TRAY INSTALLATION





- 18. The separator is mounted behind the overflow bottle as shown. Bolt the separator to the supplied right angle mounting plate using two M6 x 20mm bolts, two small washers, two large washers and nylock nuts.
- 19. The mounting plate is bolted to the charcoal canister bracket using two existing holes. Use two M6 x 20mm bolts, four large flat washers and two nyloc nuts.

BATTERY AND WIRING INSTALLATION



To test the system:

- 1. Ensure all wiring is as per instructions.
- 2. Record voltage from both batteries.
- 3. Start vehicle and measure main battery voltage. It should rise as charging circuit stabilizes. (Approx 13.5 to 14.5 volts) May require fast idle to initiate charge.
- 4. Separator will turn on after a delay when voltage rises over approx 13.2 volts.
- 5. Both battery voltages will now be the same as charge is directed to both.
- 6. Stop engine. Separator will stay engaged until voltage drops to approx 12.8 volts.
- 7. To test drop out, turn on headlights and separator will drop out due to main battery voltage falling.
- 8. If start assist is connected, separator will come in during start (auxiliary battery condition dependant) and will drop out when started until charge voltage reaches approx 13.2 volts as per 4.above.

INFORMATION ON THE BATTERY SEPARATOR:

- MULTIPLE BATTERY CHARGING. The battery separator allows multiple batteries to be charged from one charging source. When the batteries are not being charged, the battery separator separates or isolates the batteries.
- PRIORITIZED CHARGING. The battery separator waits until the battery connected to the active charging source reaches approximately 13.2V before paralleling and charging the remaining batteries. The system disconnects at approximately 12.8V. The primary battery is the priority charged battery.
- PREVENTS CHARGING SYSTEM OVERLOAD. If the current requirements are greater than the charging source can produce, the battery separator will automatically separate the batteries, thus directing all available charge current to the battery directly connected to the charging source. The system will then reset and reattempt charging the auxiliary battery. A time delay prevents false switching.
- START ASSIST FEATURE. An optional input from the key switch or a manual switch will program the battery separator to parallel the batteries during starting. This feature will only engage if the auxiliary battery has sufficient power available to assist in starting.
- WIRING ACCESSORIES As the battery separator priority charges, it is desirable to wire additional driving lights to the primary battery. Other accessories such as a refrigerator should be wired to the auxiliary battery.

