

RURAL FIRE BRIGADES ASSOCIATION QUEENSLAND

Toyota Landcruiser 4x4 Light Attack



QUIK CORP
FIRE ENGINEERING

Quik Corp[®] Pty Ltd ABN 86 107 154 209
37 Production Avenue
Warana Qld 4575 Australia

Freecall 1800 645 688

Phone 07 5493 8944
Fax 07 5493 8957
Freefax 1800 645 188

Email info@qcfe.com.au

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1 Table of Contents

2	TABLE OF FIGURES.....	5
3	TABLE OF TABLES.....	7
4	MANUAL AMENDMENTS.....	8
5	SERVICE BULLETINS.....	10
6	SYMBOLS	12
7	TERMS AND ABBREVIATIONS	13
8	VEHICLE INFORMATION.....	14
9	DUCOT SUMMARY.....	18
10	D – DESCRIPTION	19
11	U – USE	20
12	C – CONSTRUCTION.....	21
12.1	Body	21
12.1.1	Near/Passenger’s Side.....	21
12.1.2	Off/Driver’s Side	22
12.1.3	Rear	23
12.1.4	Front	24
12.1.5	Pump Control Panel	25
12.1.6	Pumpset.....	26
12.1.7	Stowage.....	27
13	O – OPERATION	30
13.1	Pumpset	30
13.2	Pump Control Panel.....	31
13.3	Pump Operation.....	32
13.3.1	Set Up the Required Delivery Outlets.....	32
13.3.2	Select Water Source.	33
13.3.3	Priming the Pump.....	34
13.3.4	Starting the Pump.	35
13.3.5	Operating the Delivery Valves.....	36
13.3.6	Foam Induction	39
13.3.7	Flushing the Foam System.....	40
13.3.8	Stopping the Pump.....	40
13.4	Tank Filling	41
13.4.1	Hydrant Fill.....	41
13.4.2	External Suction.....	42

13.4.3	Overhead Fill.....	43
13.5	Hose Reel.....	44
13.6	Cabin.....	45
13.6.1	Fire Curtains	46
13.7	Tank	48
13.7.1	Electronic Tank Level Display	48
13.8	Locker Equipment Storage.....	49
13.8.1	Near-Side Front Locker (Chainsaw Locker).....	49
13.8.2	Near-Side Mid Locker (Hose Locker)	49
13.8.3	Off-Side Front Locker (Fuel Locker)	50
13.8.4	Off-Side Mid Locker (Fridge/First Aid Locker).....	50
13.8.5	Under-Reel Drawer	51
13.9	Ancillary Equipment Storage.....	52
13.9.1	Standpipe.....	52
13.9.2	Drip Torches	52
13.9.3	Foam Drum	53
13.9.4	Helmets.....	53
13.9.5	Rake Hoe	54
13.9.6	Spare Wheel	54
13.10	Electrical	55
13.10.1	General	55
13.10.2	Battery Isolator.....	56
13.10.1	Battery Charger Connection	56
13.10.2	Emergency Start Button.	57
13.10.3	Cabin Electrical Panel	58
13.10.4	Siren and Emergency Lighting	59
13.10.5	Lighting Controls	59
13.10.6	Radios.....	60
13.10.7	Check Body Warning Light.....	60
13.10.8	Cabin Switches	61
13.10.9	LED Interior Light & Map Light	61
13.10.10	Water Level Indicator Switch.....	62
14	T – TESTING	63
14.1	Appliance Pre-Start Checks.....	63
14.2	Vehicle.....	63



DUCOT – RFBAQ Light Attack

14.3	Pump Set.....	64
14.4	Plumbing.....	64
14.5	Stowage.....	64
14.6	Electrical.....	65
15	APPENDIX A – ELECTRICAL DIAGRAMS	66
16	APPENDIX B – PLUMBING DIAGRAM.....	68
17	APPENDIX E – SPARE PARTS	70
18	APPENDIX F – WARRANTY POLICY.....	80
18.1	Component Warranties.....	83

2 TABLE OF FIGURES

Figure 1: Near/Passenger Side View of Vehicle	14
Figure 2: Rear View of Vehicle	15
Figure 3: Front View of Vehicle	16
Figure 4: NS View of Appliance.....	21
Figure 5: OS View of Appliance	22
Figure 6: Rear View of Appliance	23
Figure 7: Front of Appliance	24
Figure 8: Pump Control Panel.....	25
Figure 9: Honda/Davey Pumpset	26
Figure 10: Off Side Front Locker (closed)	27
Figure 11: Off Side Front Locker (open).....	27
Figure 12: Off Side Mid Locker (closed)	27
Figure 13: Off Side Mid Locker (open)	27
Figure 14: Foam Drum Holder.....	27
Figure 15: Helmet Holders	27
Figure 16: Near Side Front Locker (closed).....	28
Figure 17: Near Side Mid Locker (open)	28
Figure 18: Near Side Mid Locker (closed)	28
Figure 19: Near Side Mid Locker (open)	28
Figure 20: Near Side Front Locker (closed).....	28
Figure 21: Near Side Front Locker (open).....	28
Figure 22: Drip Torch Holder.....	29
Figure 23: Rake Hoe Holder	29
Figure 24: Spare Wheel Storage – Closed.....	29
Figure 25: Spare Wheel Storage – Open	29
Figure 26: Pumpset.....	30
Figure 27: Pump & Plumbing Controls	31
Figure 28: Suction L Port Valve (OFF Position).....	33
Figure 29: Primer and Primer Isolation Valves	34
Figure 30: Honda GX200 Fuel and Throttle Controls	35
Figure 31: Pump Ignition Switch.....	35
Figure 32: Hose Reel Valve	36
Figure 33: 25mm Pump Delivery Valve	36
Figure 34: 38mm L Port Delivery/Return to Tank Valve.....	37
Figure 35: Case One and Front Batter Isolation Valve	38
Figure 36: Case One Valve and Outlet.....	38
Figure 37: Aquafoam™ FP135 and Foam Valve	39
Figure 38: Hydrant Fill Point.....	41
Figure 39: Suction Inlet and L Port Valve	42
Figure 40: Overhead Fill.....	43
Figure 41: Hose Reel and Under Reel Drawer	44
Figure 42: Cabin Dash	45
Figure 43: Switch Panel	45
Figure 44: Cabin Electrical Panel.....	46
Figure 45: Reverse Camera Screen.....	46
Figure 46: Fire Curtains	47

Figure 47: Tank Features.....	48
Figure 48: Class 1 Water Level Displays.....	48
Figure 49: Near-Side Front Locker (Chainsaw Slide Extended)	49
Figure 50: Near-Side Mid Locker	49
Figure 51: Off-Side Front Locker.....	50
Figure 52: Off-Side Mid Locker	50
Figure 53: Under-Reel Drawer	51
Figure 54: Standpipe – NS on the Rear Deck	52
Figure 55: Drip Torches – NS on the Rear Deck.....	52
Figure 56: Foam Drum – OS on the Rear Deck.....	53
Figure 57: Helmets – OS on the Rear Deck.....	53
Figure 58: Rake Hoe.....	54
Figure 59: Spare Wheel – Rear Under the Tray.....	54
Figure 60: NS of Engine Bay.....	55
Figure 61: Battery Isolator.....	56
Figure 62: Battery Charger Connectors.....	56
Figure 63: Emergency Start Button	57
Figure 64: Electrical Panel behind seats	58
Figure 65: Siren Controller	59
Figure 66: Lighting Controls - Pump Control Panel	59
Figure 67: VHF External Speaker Switch.....	60
Figure 68: Check Body Warning Light – Dash.....	60
Figure 69: Cabin Switches	61
Figure 70: Interior Light & Map Light	61
Figure 71: Water Level Indicator Isolation Switch.....	62

3 TABLE OF TABLES

Table 1: Vehicle Dimensions and Specifications	17
Table 2: NS of Appliance	21
Table 3: OS of Appliance	22
Table 4: Rear of Appliance.....	23
Table 5: Cab Front External	24
Table 6: Pump Control Panel	25
Table 7: Pump Set	26
Table 8: Cabin Electrical Panel	46
Table 9: Engine Bay Body Electrical	55
Table 10: Cabin Electrical Panel	58
Table 11: Lighting Controls - Pump Control Panel.....	59
Table 12: Cabin Switches	61
Table 13: Inspection and Maintenance Key.....	63
Table 14: Appliance Pre-Start Checks	63
Table 15: Vehicle Maintenance Schedule	63
Table 16: Pump Set Maintenance Schedule	64
Table 17: Plumbing Parts Maintenance Schedule	64
Table 18: Stowage Parts Maintenance Schedule	64
Table 19: Electrical Maintenance Schedule.....	65

4 MANUAL AMENDMENTS

Amendment No.	Date of Issue	Description of Amendments	Page(s) Amended
1	25/2/21	Added Water Level Indicator Switch and Map Light. Updated Tank Fill Image	42, 59 & 60
2	28/7/21	Updated Images for pump controls, lockers, fire curtains, spare wheel, rake hoe, drip torches, tank lid	24, 26-28, 30, 33, 45-49, 51 & 53
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5 SERVICE BULLETINS

Bulletin No.	Date of Issue	Title	Major Components Affected
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CAUTION

PLEASE READ AND UNDERSTAND ALL ASPECTS OF THE FIRE APPLIANCE DUCOT AND USAGE BEFORE USING THE VEHICLE. FAILURE TO FOLLOW INSTRUCTIONS, PROCEDURES, SERVICE SCHEDULES, MISUSE OR ABUSE OF ITEMS MAY RESULT IN INJURY OR DAMAGE. QUIK CORP PTY LTD, ITS SUBSIDIARIES, EMPLOYEES OR DIRECTORS SHALL NOT ACCEPT LIABILITY OR RESPONSIBILITY FOR LOSS OR DAMAGES THAT MAY OCCUR.

IT IS THE DRIVER'S RESPONSIBILITY TO ENSURE THE VEHICLE IS OPERATED IN ACCORDANCE TO ALL QFES AND ROAD TRANSPORT RULES AND REGULATIONS.

NO ADDITIONAL STOWAGE SHALL BE FITTED WITHOUT WRITTEN APPROVAL FROM THE MANAGER OPERATIONAL SUPPORT AS ANY SUCH ITEMS MAY OVERLOAD THE APPLIANCE OR VOID MANUFACTURER'S WARRANTY TERMS AND CONDITIONS.

6 SYMBOLS

The following symbols bring attention to important items and hazards.

 **WARNING**

Indicates the presence of a hazard that can cause personal injury if the hazard is not avoided.

 **CAUTION**

Indicates the presence of a hazard that can cause damage to equipment.

 **WARNING**

Indicates the presence of an electrical hazard that can cause personal injury if the hazard is not avoided.

 **NOTE**

Indicates additional information.

7 TERMS AND ABBREVIATIONS

Term/Abbreviation	Description
Appliance	The term appliance refers to the overall system/unit. In this circumstance, it is an RFBAQ Light Attack.
CDMS	Cabin Damage Minimisation System.
GWN	Government Wireless Network – referring to the Voice and Data Communications System
LED	Light Emitting Diode
N/S or NS	Near Side
NSF	Near Side Front
NSM	Near Side Mid
NSR	Near Side Rear
NSFUT	Near Side Front Under Tray
NSMUT	Near Side Mid Under Tray
NSRUT	Near Side Rear Under Tray
O.E.	Original Equipment
O.E.M.	Original Equipment Manufacturer
O/S or OS	Off Side
OSF	Off Side Front
OSM	Off Side Mid
OSR	Off Side Rear
OSFUT	Off Side Front Under Tray
OSMUT	Off Side Mid Under Tray
OSRUT	Off Side Rear Under Tray
PA	Public Address System
UHF	Ultra High Frequency – Referring to the UHF Communication System
VHF	Very High Frequency – Referring to the VHF Communication System

8 VEHICLE INFORMATION

All dimensions are in mm.

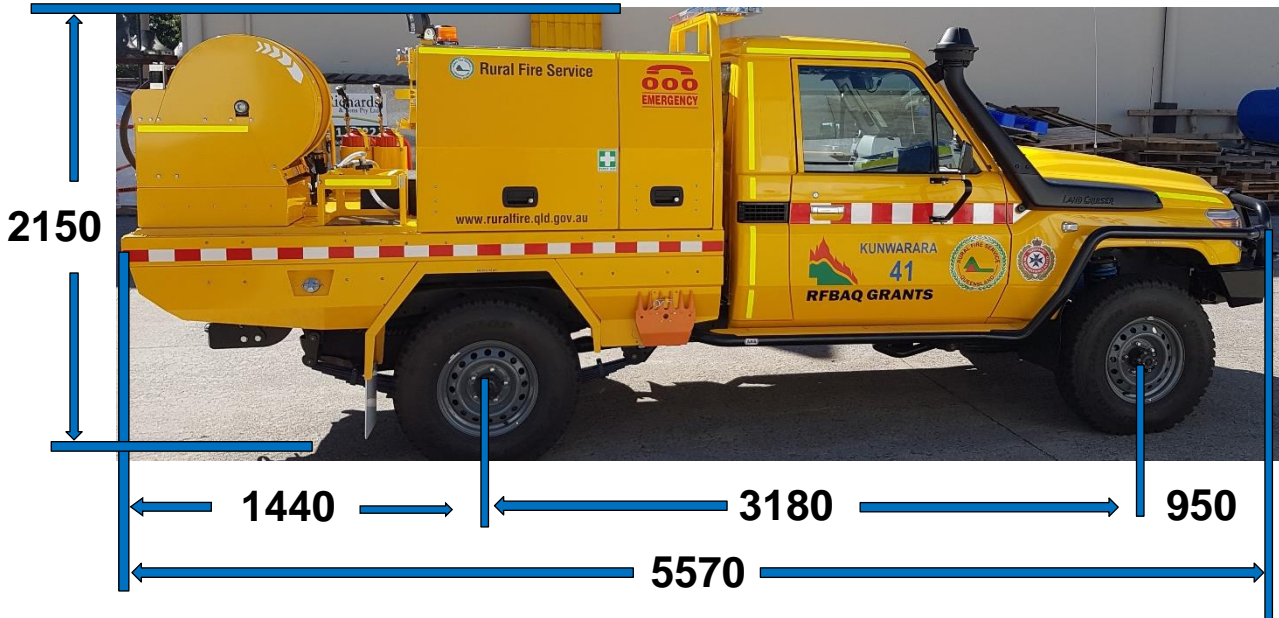


Figure 1: Near/Passenger Side View of Vehicle



Figure 2: Rear View of Vehicle



Figure 3: Front View of Vehicle

Table 1: Vehicle Dimensions and Specifications

DIMENSIONS	
Overall Length	5570mm
Overall Height	2150mm
Width (body)	1720mm
Cab Width (excluding mirrors)	1870mm
Wheel Base	3180mm
Front Overhang	950mm
Rear Overhang	1440mm
WEIGHTS	
Front Axle Rating	1650 kg
Rear Axle Rating	2550 kg
Rated Gross Vehicle Mass	4200 kg
GROUND CLEARANCE	
Angle of Approach	41°
Departure Angle	Tow Ball 23°
CAB CHASSIS	
Chassis Model	Toyota 70 Series G Landcruiser Workmate 4x4 Cab Chassis
Engine	1VD-FTV V8 4.5L DOHC Turbo Diesel
Engine Power	151 kW @ 3,400 rpm 430 Nm @ 1,200 – 3,200 rpm
Fuel Tank Capacity	130L
ELECTRICAL SYSTEM	
Operating Voltage	12 Volts DC
Main Battery	105D31R (655 CCA)
Auxiliary Battery	Lion 482 (760 CCA)
TYRES	
Front Steer Tyres	225/95R16C Dunlop SP Road Gripper
Rear Tyres	225/95R16C Dunlop SP Road Gripper
Pressures (Operational)	Front 250 kPa Rear 475 kPa
Fire Fighting Systems	
Pump	Davey Twin FF
Pump Engine	Honda GX200
Hose Reel	Quik Corp RFR3 12V Self Guiding, Electric Rewind.
Water Tank Capacity	550L

9 DUCOT SUMMARY

D	DESCRIPTION	<ul style="list-style-type: none"> • A purpose-built Rural Light Attack Vehicle.
U	USE	<ul style="list-style-type: none"> • Transportation for 2 personnel and equipment to an incident. • To provide rural fire-fighting capability on a light 4WD chassis. • To transport stowed equipment and personnel to perform rural fire fighting.
C	CONSTRUCTION	<ul style="list-style-type: none"> • Vehicle chassis is a Toyota Landcruiser Workmate Leaf Spring Cab Chassis with a manual transmission. Cab constructed of high-strength steel. • Tank - 550 litre HDPE UV resistant with baffle balls. • The body construction consists of an aluminium sub-frame, lockers built from aluminium sheeting, and aluminium plate flooring.
O	OPERATION	<ul style="list-style-type: none"> • Pump Operation • Plumbing • Hose Reel and Drawer • Foam System • Cabin • Tank • Ancillary Equipment • Spare Wheel Carrier • Electrical
T	TESTING	<ul style="list-style-type: none"> • Vehicle inspection • Vehicle maintenance – daily • Vehicle maintenance – weekly

10 D – DESCRIPTION

The basis for the Light Attack Fire Appliance is a factory-built Toyota Landcruiser Workmate Cab Chassis, two-door air-conditioned cabin mounted on a 4x4 configuration chassis. The body module is purpose-built to assist the Light Attack Appliance with the primary function of rural fire-fighting.

The Toyota Landcruiser has a 1VD-FTV 4.5 litre Turbo Diesel DOHC V8 engine rated at 151 kW @ 3,400 RPM with a maximum torque of 430 Nm @ 1,200 - 3,200 RPM. Power is transmitted by a Toyota 5 speed Manual Transmission with a low range transfer case.

Modifications have been made to the vehicle cabin to suit the requirements of personnel operating under an emergency response. The modifications include; Fire Curtains, Radio Handsets, Siren/PA & Emergency Lighting Controller, Check Body Warning Light, Tank Level Display and various rocker and momentary switches.

11 U – USE

The main uses of the appliance are:

- The transportation of two personnel and equipment to an incident on paved or unpaved roads.
- To provide a fire response for Rural Fire Fighting.
- To provide lighting.
- To provide pumping of water from either the onboard tank supply or via an external source.
- To carry 550 litres of water onboard to supply the Pump.

12 C – CONSTRUCTION

12.1 Body

12.1.1 Near/Passenger’s Side

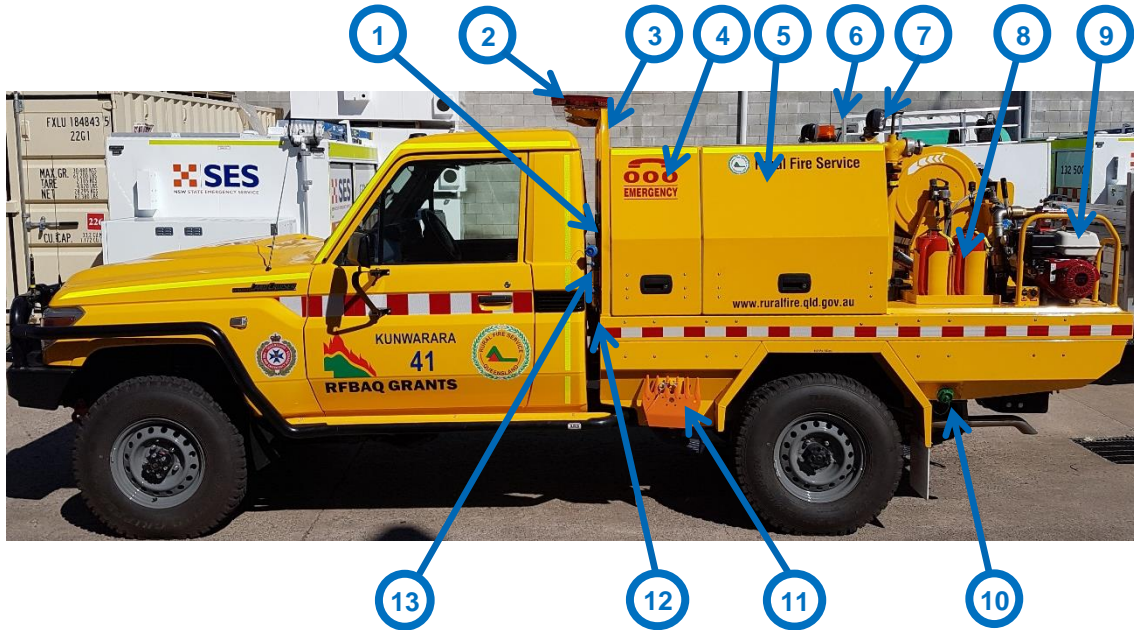


Figure 4: NS View of Appliance

Item	Description
1	Battery Charger Connectors
2	Emergency Light Bar
3	CDMS
4	NSF Locker
5	NSR Locker
6	Low Water Beacon
7	NS Work Light
8	Drip Torch Holders
9	Honda/Davey Pumpset
10	Hydrant Fill
11	Rakeho Storage
12	Handline 25mm Storz Coupling
14	Handline/Batter Spray Valve

Table 2: NS of Appliance

12.1.2 Off/Driver’s Side



Figure 5: OS View of Appliance

Item	Description
1	Hose Reel
2	Foam Drum Storage
3	Helmet Holder
4	Work light
5	Low Water Beacon
6	OSR Locker
7	OSF Locker
8	CDMS
9	Emergency Light Bar
10	Vehicle Fuel Tank Filler

Table 3: OS of Appliance

12.1.3 Rear

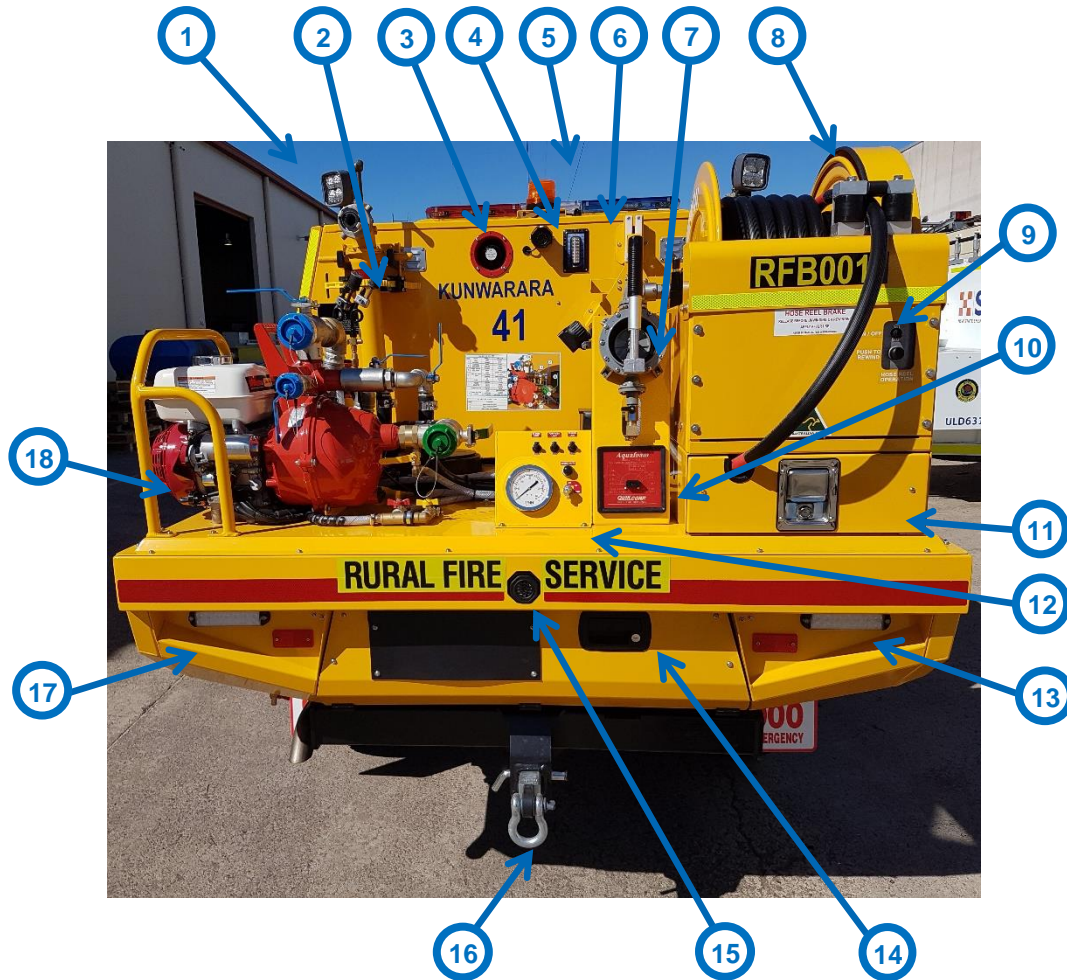


Figure 6: Rear View of Appliance

Item	Description	Item	Description
1	NS Work Light	10	Foam Proportioner
2	Standpipe Holder	11	Under Reel Drawer
3	UHF External Speaker	12	Pump Control Panel
4	Upper Reverse Camera	13	Right Tail Light Assembly
5	Low Water Strobe	14	Spare Tyre Storage
6	Tank Level Display	15	Lower Reverse Camera
7	Primer	16	Recovery Point
8	OS Work Light	17	Left Tail Light Assembly
9	Hose Reel	18	Pumpset

Table 4: Rear of Appliance

12.1.4 Front



Figure 7: Front of Appliance

Item	Description
1	Emergency Light Bar
2	Driving Light Bar
3	Emergency Strobe Light (Red)
4	Emergency Strobe Light (Blue)
5	Siren Speaker

Table 5: Cab Front External

12.1.5 Pump Control Panel

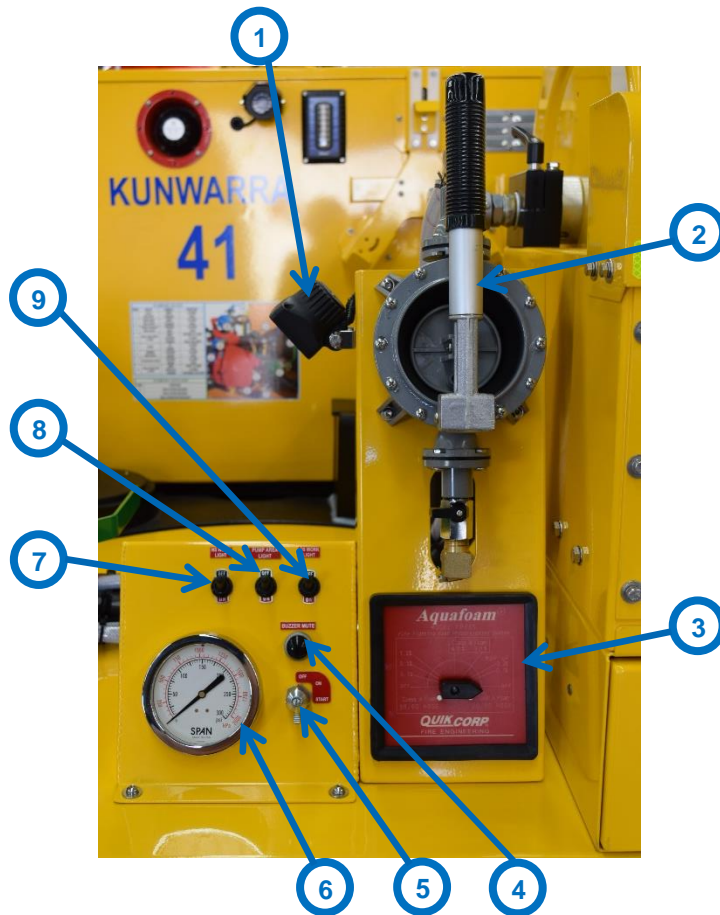


Figure 8: Pump Control Panel

Item	Description
1	Pump Area Light
2	Primer
3	Aquafoam™ Foam Proportioner
4	Buzzer Mute Button
5	Pump Ignition Switch
6	Pressure Gauge
7	NS Work Light Switch
8	Pump Area Light Switch
9	OS Work Light Switch

Table 6: Pump Control Panel

12.1.6 Pumpset



Figure 9: Honda/Davey Pumpset

Item	Description
1	Honda GX200 Petrol Engine
2	Davey Twin FF Pump
3	Oil Dip Stick
4	Manual Pull Start Handle
5	Fuel Tap, Choke and Throttle Controls
6	Fuel Tank

Table 7: Pump Set

12.1.7 Stowage



Figure 10: Off Side Front Locker (closed)



Figure 11: Off Side Front Locker (open)



Figure 12: Off Side Mid Locker (closed)



Figure 13: Off Side Mid Locker (open)

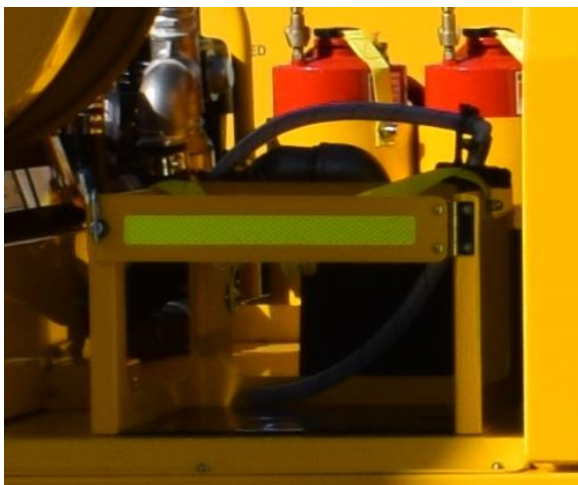


Figure 14: Foam Drum Holder



Figure 15: Helmet Holders



Figure 16: Under Reel Drawer (closed)



Figure 17: Under Reel Drawer (open)



Figure 18: Near Side Mid Locker (closed)



Figure 19: Near Side Mid Locker (open)



Figure 20: Near Side Front Locker (closed)



Figure 21: Near Side Front Locker (open)



Figure 22: Drip Torch Holder



Figure 23: Rake Hoe Holder



Figure 24: Spare Wheel Storage – Closed



Figure 25: Spare Wheel Storage – Open

13 O – OPERATION

13.1 Pumpset

The Pumpset consists of a 50mm Davey Twin Firefighter pump coupled to a Honda GX200 petrol engine. The pumpset is on the near-side rear of the tray. Refer to OEM instructions for operating and servicing requirements.

The pumpset connects to the vehicle wiring system so that its operation will not cease if there is an interruption to the vehicle's electrical supply.

The Honda GX200 uses Unleaded Fuel. The Fuel Cans with unleaded petrol for refuelling the Honda engine are in the Off-Side Front Locker.

The appliance has a manual hand primer. Refer to OEM instructions for operating and servicing requirements.



Figure 26: Pumpset

WARNING

Hearing Protection must be worn when the pump is in operation.
Failure to do so could lead to hearing loss or damage.

13.2 Pump Control Panel

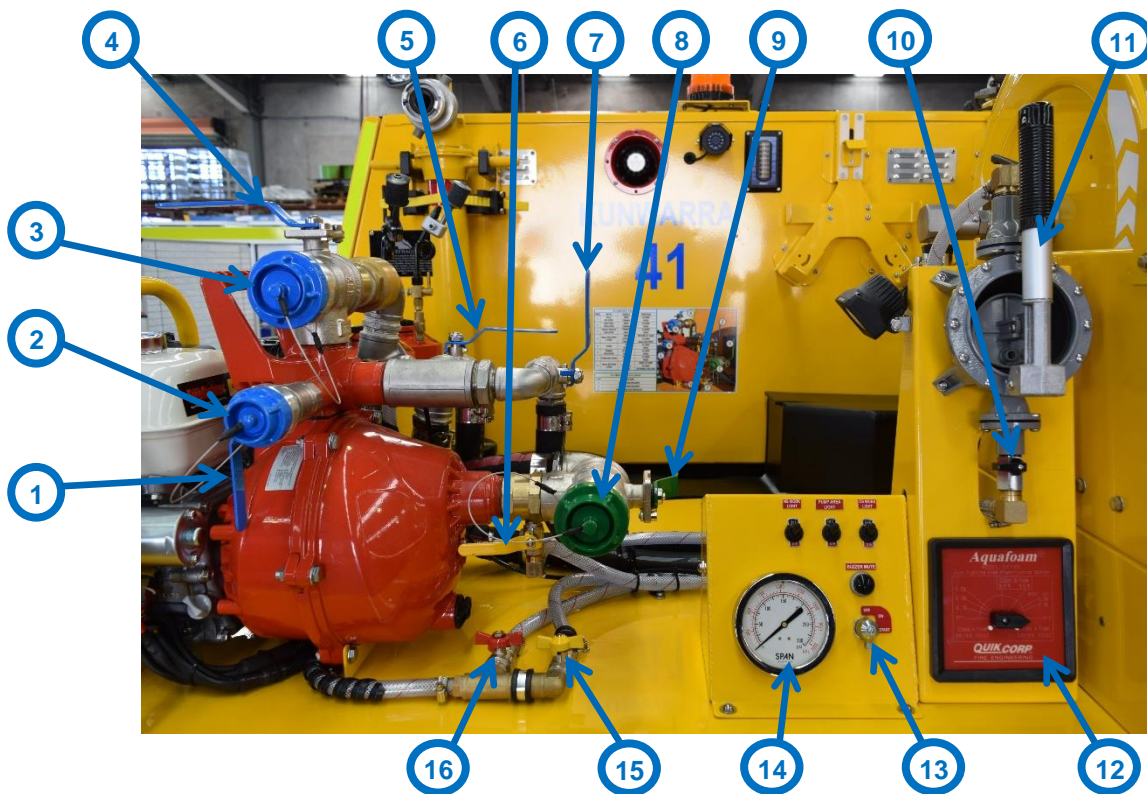


Figure 27: Pump & Plumbing Controls

Item	Description	Item	Description
1	25mm Delivery Valve	9	Suction “L” Port Valve
2	25mm Delivery Storz	10	Primer Isolation Valve
3	38mm Delivery Storz	11	Primer
4	Discharge “L” Port Valve	12	Aquafoam™ Foam Proportioner
5	Front Delivery Isolation Valve	13	Pump Ignition Switch
6	Foam Valve	14	Pressure Gauge
7	Hose Reel Valve	15	Foam Isolation Valve
8	38mm Suction Inlet	16	Primer Isolation Valve

13.3 Pump Operation

The Pumpset (pump and engine) controls are on the pump panel, the Honda engine, and the Davey Pump. To run the Pumpset, the operator will need to be competent in priming the Pump, starting, and stopping the pump engine and using the plumbing controls. Starting the Pump consists of:

1. Setting up the required Delivery Outlet or Outlets.
2. Selecting the Water Source.
3. Priming the Pump.
4. Starting the Pump.
5. Opening the required Delivery Valve or Valves.
6. Inducting foam (if required).
7. Flushing Foam after use.
8. Stopping the Pump.

 **WARNING**

The Primer Isolation Valves shall remain in the off position except for pump priming operations. Failure to comply will result in damage to the primer diaphragm.

13.3.1 Set Up the Required Delivery Outlets

Before starting the Pump, set up the required outlet or outlets by fitting hoses, adapters, and nozzles. Close all delivery valves and nozzles to prevent water spraying unexpectedly when starting the engine.

13.3.2 Select Water Source.

The appliance can use water from the onboard tank or an external source such as a creek, dam or pool.

To use water from the onboard water tank:

1. SET the Suction L Port Valve towards the tank.

To use water from an external source:

1. Remove the Storz cap from the Suction Inlet.
2. Connect the Suction Hose with Floating Filter to the Suction Inlet.
3. Drop the Floating Filter into the deepest part of the water source.
4. SET the Suction L Port Valve towards the Suction Inlet coupling.

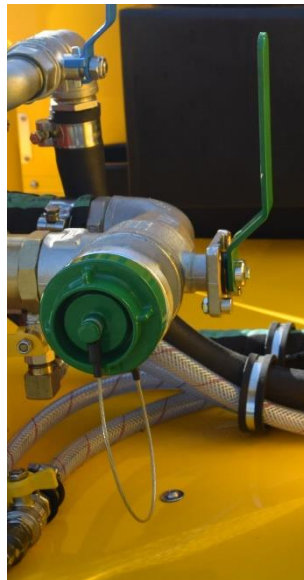


Figure 28: Suction L Port Valve (OFF Position)

13.3.3 Priming the Pump.

The appliance has a manual primer beside the pump control panel. There are two Primer Isolation Valves, one at the Pump and the other on the Primer. Never open these valves when starting the engine or when the engine is running as the pump pressure will damage the primer diaphragm.

Prime the Pump with water before starting the pump engine to prevent damaging the Pump.

To prime the Pump:

1. CLOSE all discharge valves.
2. Set the SUCTION valve to TANK or EXTERNAL supply as required.
3. Open PRIMER ISOLATION valve.
4. Operate the Primer until water streams out of the primer outlet under the deck.
5. Close PRIMER ISOLATION valve.
6. Start the pump engine.

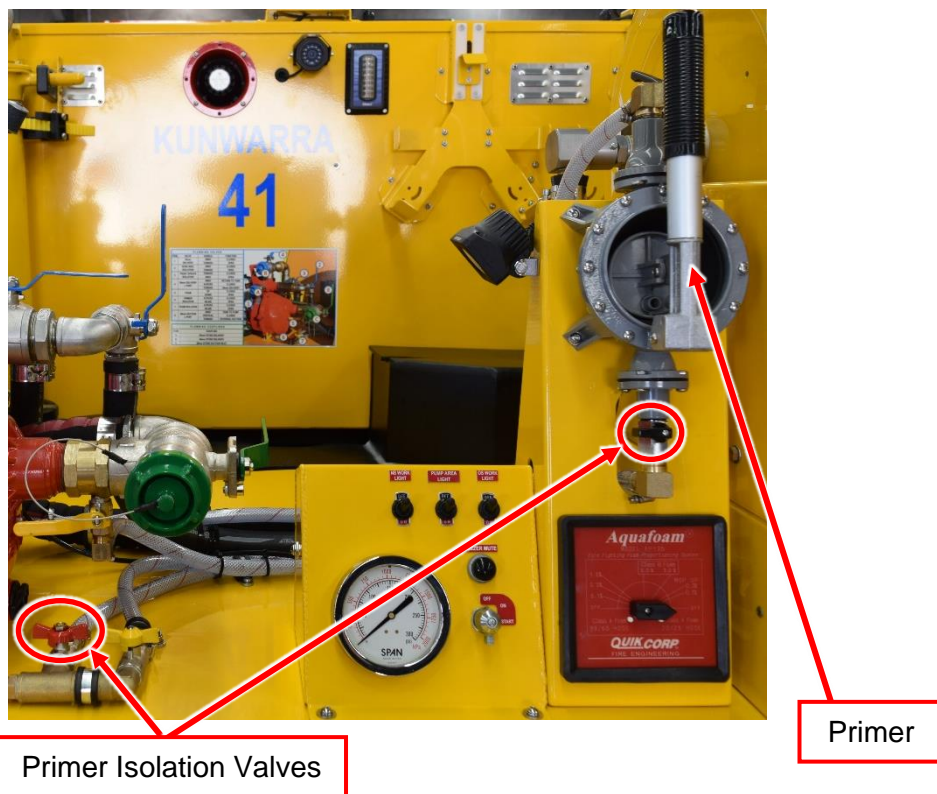


Figure 29: Primer and Primer Isolation Valves

⚠ WARNING

The pump must be Primed with water before starting. Failure to do so could lead to pump failure and/or reduced pump lifespan.

⚠ WARNING

The Primer Isolation Valve must be closed before starting. Failure to do so will cause damage to the Primer diaphragm.

13.3.4 Starting the Pump.

The Honda GX200 has an electric start and a manual pull start.

Electric Start:

1. SET the Fuel Tap to the ON position.
2. SET the Choke to the ON position if required.
3. SET the Pump Throttle to approximately half throttle.
4. TURN the Pump Ignition Switch to the Start Position and hold until the Honda engine has started. Crank the engine for a maximum of 10 seconds at a time. If the engine does not start in this time, it may be necessary to adjust the throttle and try again. Wait 30 seconds between starting attempts.
5. Once the engine is running release the Pump Ignition Switch, and it will return to the Run position.
6. After the motor has been running for 20 seconds, SET the Choke to the OFF position.

Manual Start:

In the event of starter motor or battery failure, start the Honda engine manually.

1. SET the Fuel Tap to the ON position.
2. SET the Choke to the ON position if required.
3. SET the Pump Throttle to approximately half throttle.
4. TURN the Pump Ignition Switch to the ON position.
5. Use the Honda Pull Starter to start the Pump Engine.
6. After the motor has been running for about 20 seconds, SET the Choke to the OFF position.

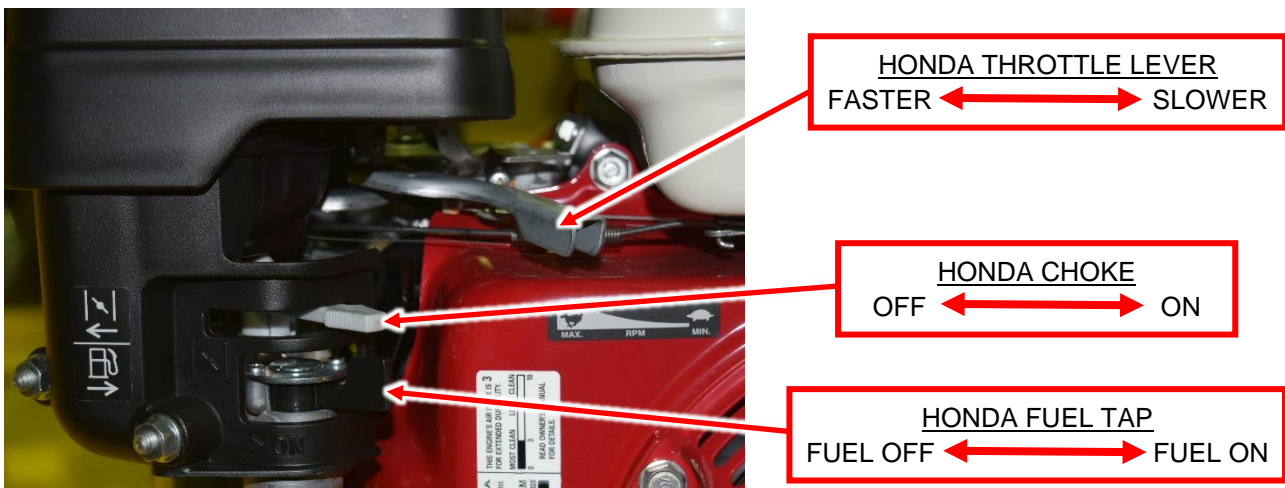


Figure 30: Honda GX200 Fuel and Throttle Controls



Figure 31: Pump Ignition Switch

WARNING

The pump must be Primed with water before starting. Failure to do so could lead to pump failure and/or reduced pump lifespan.

13.3.5 Operating the Delivery Valves

The appliance has several Delivery Outlets, including; the Hose Reel, 25mm & 38mm Pump Deliveries, Return to Tank, a Handline and a Batter Spray. The Return to Tank can cool the Pump by circulating water through the Pump and back to the tank, or fill the tank when drawing water from an external source. The Case One and the Batter Spray are on the same plumbing outlet from the Pump and have separate valves at the near-side of the CDMS just behind the cabin.

Hose Reel:

1. Connect a Nozzle to the Hose Reel Storz fitting.
2. Release the Hose Reel Brake and spool out the required hose.
3. Aim the Nozzle towards the fire.
4. Open the Hose Reel Valve.
5. Open the Nozzle to discharge water.
6. Adjust the Pump Throttle to set the required discharge pressure.

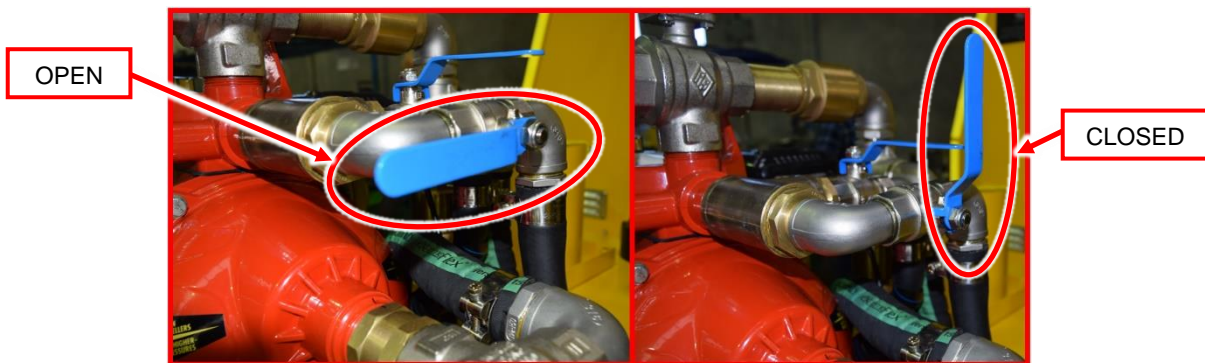


Figure 32: Hose Reel Valve

25mm Pump Delivery Outlet:

1. Connect a lay-flat or suitable pressure rated hose to the 25mm Storz fitting on the Pump.
2. Connect a Nozzle to the hose.
3. Aim the Nozzle towards the fire.
4. Open the 25mm Pump Delivery Valve.
5. Open the Branch Nozzle to discharge water.
6. Adjust the Pump Throttle to set the required discharge pressure.



Figure 33: 25mm Pump Delivery Valve

38mm L Port Pump Delivery / Return to Tank

Pump Delivery:

1. Connect a lay-flat or suitable pressure rated hose to the 38mm External Delivery Storz fitting on the Pump.
2. Connect a Nozzle to the hose.
3. Aim the Branch towards the fire.
4. Set the 38mm L Port Valve to the External Delivery position.
5. Open the Branch Nozzle to discharge water.
6. Adjust the Pump Throttle to set the required discharge pressure.

Return to Tank:

1. Set the Delivery L Port to the Return to Tank position.
 2. Adjust the Pump Throttle to suit operation.
- Cooling the Pump will only require low RPM.
Filling the tank will be faster with higher RPM.

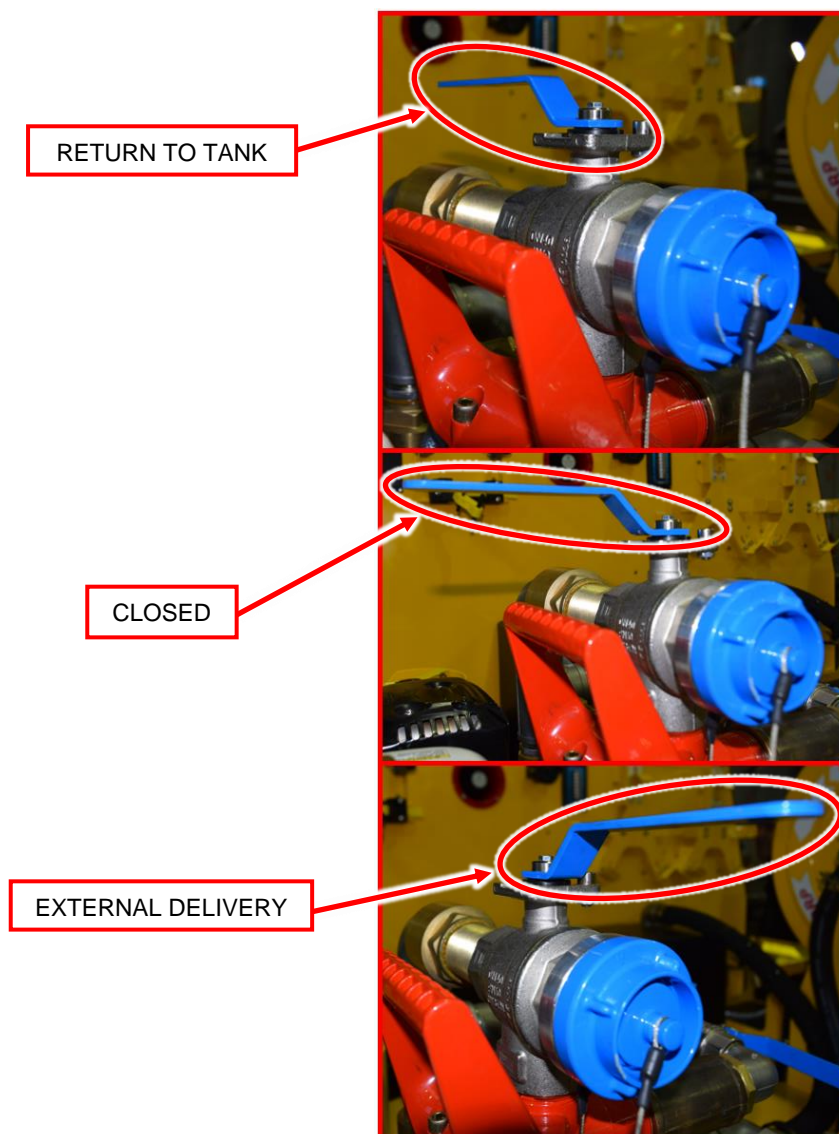


Figure 34: 38mm L Port Delivery/Return to Tank Valve

Case One and Batter Spray Isolation Valve:

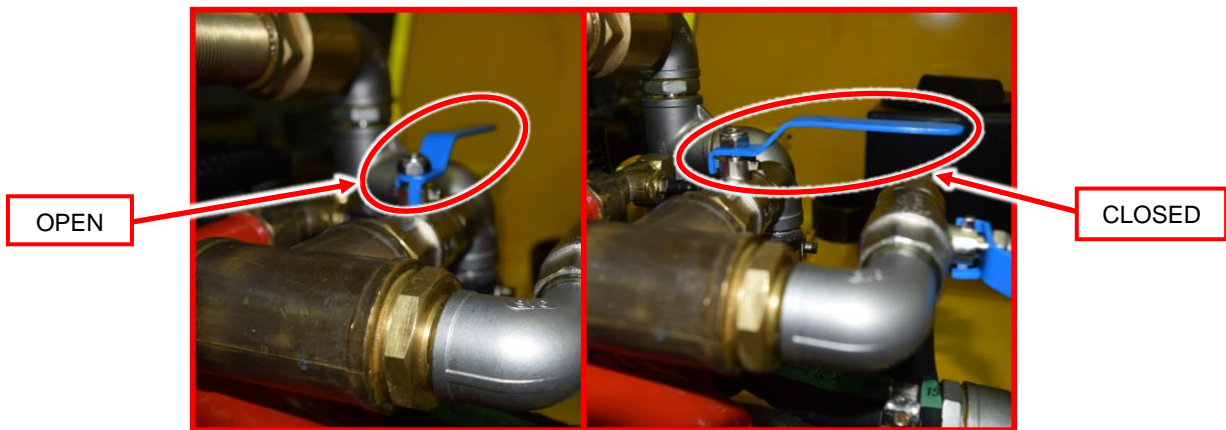


Figure 35: Case One and Front Batter Isolation Valve

Case One Valve:

1. Connect a suitable pressure rated hose to the Storz fitting on the near-side at the CDMS.
2. Connect a Branch Nozzle to the hose.
3. Open the Case One and Front Batter Isolation Valve at the Pump.
4. Aim the Branch towards the fire.
5. Open the Case One Valve at the CDMS on the near-side.
6. Operate the Branch Nozzle to discharge water.
7. Adjust the Pump Throttle to set the required discharge pressure.

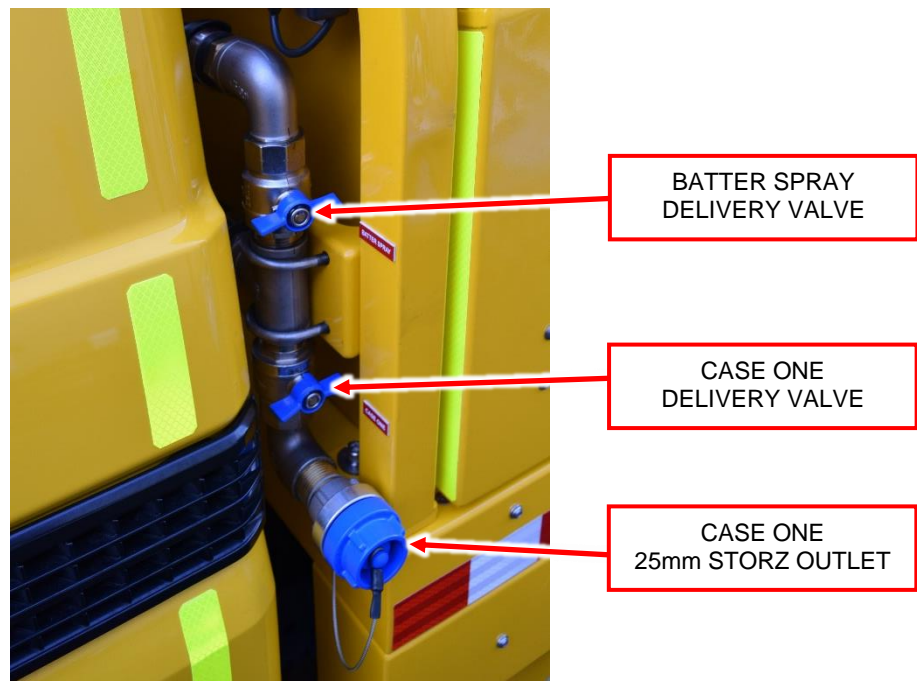


Figure 36: Case One Valve and Outlet

Batter Spray:

1. Open the Case One and Batter Spray Isolation Valve at the Pump.
2. Open the Battery Spray Valve on the near-side of the CDMS.
3. Adjust the Pump Throttle to set the required discharge pressure.

13.3.6 Foam Induction

The appliance has an Aquafoam™ FP135 foam metering and delivery system. The Aquafoam™ has a built-in backlight for night operations. The backlight works with the Pump Panel Lighting switch and only operates when the pump ignition is on.

The appliance has a Foam Drum Holder on the off-side of the rear deck that holds a 20-litre drum of foam concentrate. The foam proportioner draws from the foam drum to supply foam to the Pump.

Never open the Return to Tank Valve when using foam. Opening the Return to Tank Valve when Foam is present in the system will allow the foam to contaminate the tank, leading to pump failures and lengthy downtime to flush the water tank. The foam must be turned off and flushed from the system after each use, between using different types of foam and before operating the Return to Tank Valve.

To use the foam:

1. With the Pump already primed and the Pump Engine running:
2. Open the Foam Isolation Valve.
3. Adjust the dial on the Aquafoam™ Foam Proportioner.
4. Open the Foam Valve.
5. Use the selected Branch to discharge foam.

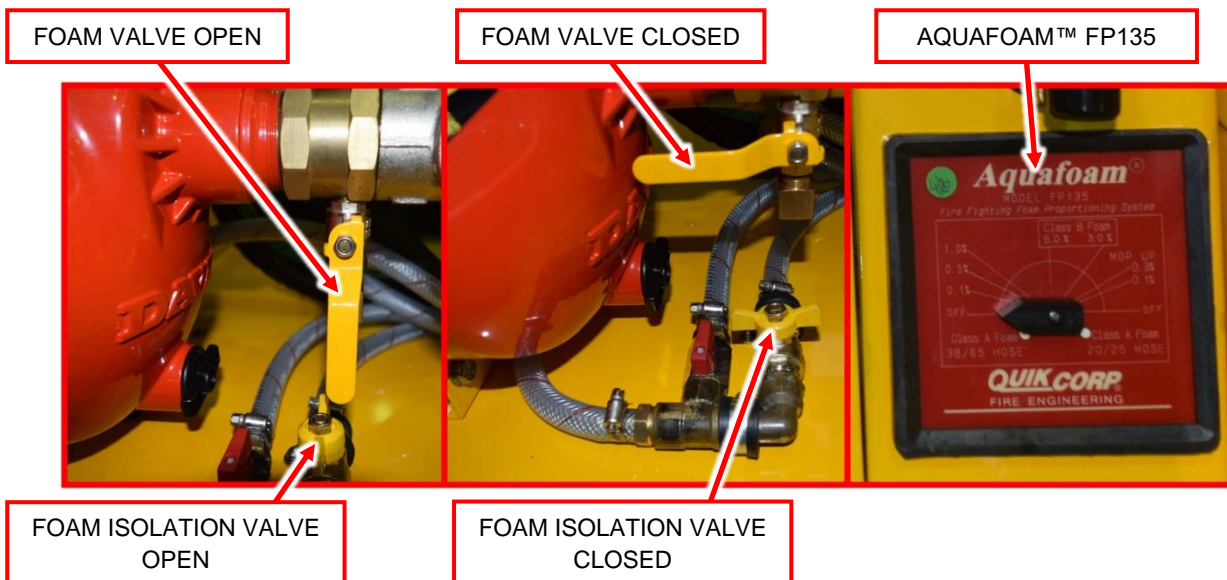


Figure 37: Aquafoam™ FP135 and Foam Valve

When finished using foam, or swapping between different classes of foam, flush any residual foam from the system.

⚠ WARNING

Residual Foam must be flushed from the system immediately after use or between using different classes of Foam. Failure to do so may cause damage to the plumbing system.

⚠ WARNING

Do not Open the Return to Tank Valve while using Foam. This will lead to Foam entering the tank and contaminating the plumbing system. This can cause damage to the plumbing system resulting in down time to flush and repair the plumbing system.

13.3.7 Flushing the Foam System.

To Flush the Foam System:

1. Close the Foam and Foam Isolation Valves.
2. Run water through all outlets that were using foam.
3. When the water is clear of foam residue, the flush is complete.

13.3.8 Stopping the Pump.

1. Close all Discharge Outlets
2. Reduce the throttle to idle.
3. Turn the Pump Ignition Switch to the “OFF” position.

13.4 Tank Filling

There are three options for filling the water tank; the Hydrant Fill, External Suction and the Overhead Fill.

13.4.1 Hydrant Fill

The appliance has a Hydrant Fill inlet on the near-side rear under the tray. To fill the tank using the Hydrant Fill:

1. Position the vehicle near the hydrant.
2. Get the Standpipe from the rear deck.
3. Connect the Standpipe to the Hydrant
4. Get the 38mm Lay-flat hose from the NSM Locker.
5. Connect the Lay-flat hose between the Standpipe and the Hydrant Fill.
6. Turn the Pump Ignition Switch to the “ON” position to activate the Water Level Display.
7. OPEN the Hydrant Fill Valve.
8. OPEN the Standpipe Valve
9. Monitor the tank water level on the electronic display.
10. CLOSE the Standpipe Valve when the tank is full.
11. CLOSE the Hydrant Fill Valve.
12. Disconnect and Stow the 38mm Lay-flat hose.
13. Disconnect and Stow the Standpipe.
14. Turn the Pump Ignition Switch to the “OFF” position.

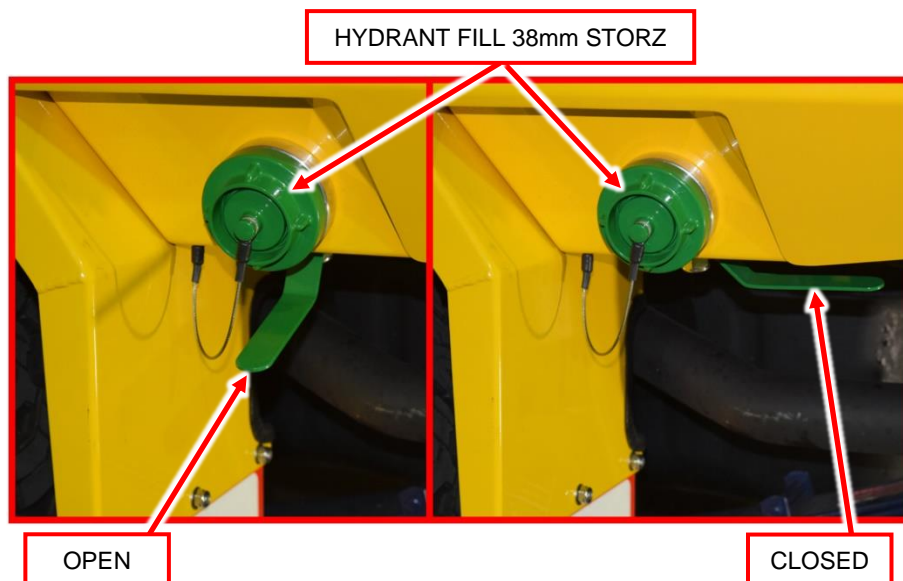


Figure 38: Hydrant Fill Point

13.4.2 External Suction

The appliance can use the Pump to fill the water tank from an external source such as a creek, dam, or pool.

1. Position the vehicle near the water source.
2. Get the Suction Hose with the Floating Filter from NSM Locker.
3. Connect the Suction Hose to the Suction Inlet 38mm Storz fitting on the Pump.
4. Place the Floating Filter end of the Suction Hose in the deepest part of the water source.
5. CLOSE all delivery valves.
6. SET the Suction Valve to the External Inlet position.
7. Open the Primer Isolation Valve.
8. Operate the Primer until a steady stream is coming from the primer outlet under the rear of the appliance.
9. CLOSE the Primer Isolation Valves.
10. Turn the Honda Fuel Tap ON
11. Turn the Honda Choke ON (if required)
12. Set the Honda throttle lever to approximately half throttle.
13. Start the Pump.
14. Set the 38mm Delivery L Port to the Pump to Tank position.
15. Increase the Honda RPM to fill the tank faster.
16. Monitor the tank level on the electronic tank level display.
17. When the tank is full, set the Honda RPM to idle
18. Turn the Pump Ignition Switch to the “OFF” position.
19. CLOSE the 38mm Delivery Valve.
20. Disconnect and Stow the Suction Hose.

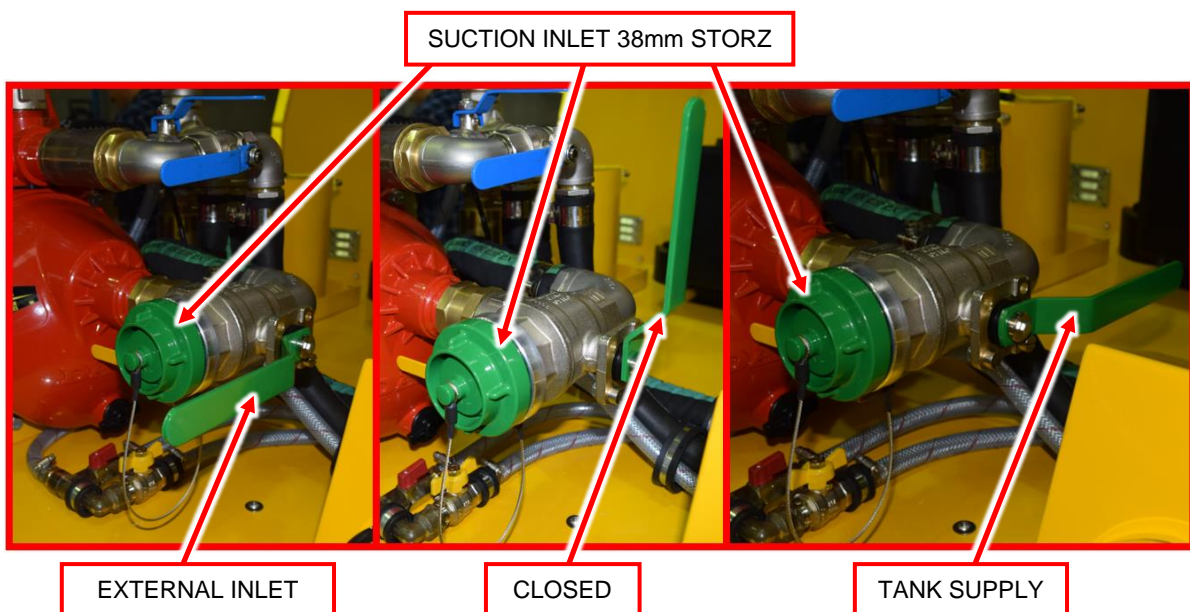


Figure 39: Suction Inlet and L Port Valve

13.4.3 Overhead Fill

The onboard water tank can be filled via the tank access lid on the rear deck.

1. Position the vehicle near the water source.
2. Remove the tank lid on the rear deck.
3. Turn on the Pump Ignition Switch.
4. Place filling hose in the tank.
5. Turn on the water supply valve.
6. Monitor the tank level on the electronic tank level display.
7. When the tank is full, turn off the water supply valve.
8. Turn off the Pump Ignition Switch.
9. Remove the filling hose.
10. Refit the tank lid.



Figure 40: Overhead Fill

13.5 Hose Reel

The hose reel is a self-guiding, electric rewind Quik Corp RFR3 with 50 metres of 19mm I.D. Horizon 200 rubber fire hose. Refer to OEM instructions for operation and maintenance procedures.

The hose is fitted with red identifiers at one and two metres before the end of the hose to warn of coupling proximity when rewinding the hose.

A slide-out lockable drawer is located beneath the hose reel to accommodate the hose rewind handle and hose nozzles, couplings, and adaptors.

Hose Reel Operation – Unwinding:

1. Release the Hose Reel Brake
2. Grab the hose, just behind the Storz fitting and pull outwards.
3. Apply the Hose Reel Brake to prevent the hose from unspooling while in use.

Hose Reel Operation – Rewinding:

1. Release the Hose Reel Brake.
2. Set the toggle switch to the ON position.
3. Use one hand to apply tension to the hose.
4. Press and hold the Rewind Button.
5. Release the Rewind Button when the red identifier on the hose is close and finish rewinding manually.

See the Hose Reel Manual for full instructions and servicing information.



Figure 41: Hose Reel and Under Reel Drawer

WARNING

The drawer must be closed before travel. Failure to do so may cause damage and/or injury.

13.6 Cabin

The Cabin has modifications to assist the crew operating in an emergency response situation. Additional features in the cabin include; Fire Curtains, Reverse Camera Monitor, Radio Communication Equipment, Lighting and Siren Controls, Tank Level Display, Switches and a Check Body warning system consisting of a light, audible alarm and a buzzer mute switch. There is a Cabin Electrical Panel behind the seats, that houses the Siren Controller, UHF Radio, VHF radio, circuit breakers, and relays.



Figure 42: Cabin Dash



Figure 43: Switch Panel

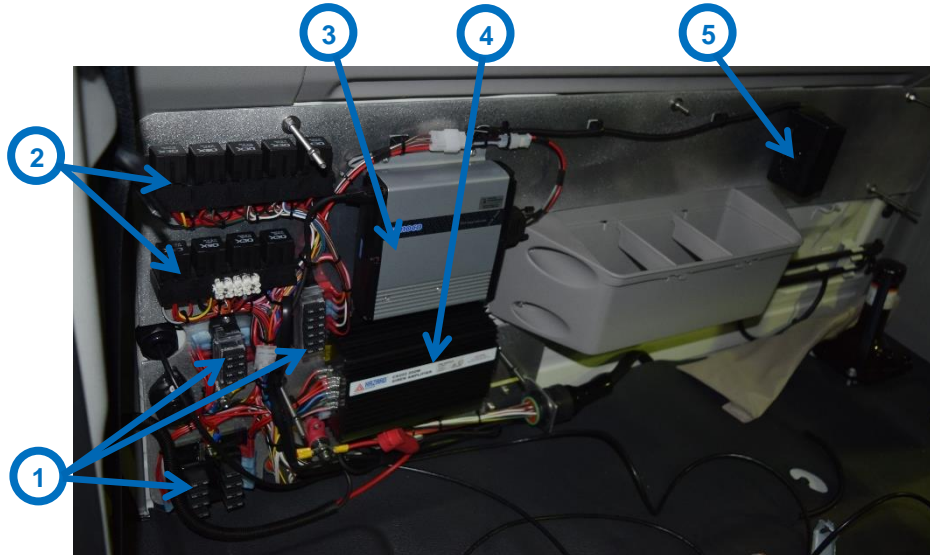


Figure 44: Cabin Electrical Panel

Item Label	Item Name
1	Circuit Breakers.
2	Relays.
3	VHF Radio.
4	Emergency Lights and Siren Controller.
5	Space for Additional Radio.

Table 8: Cabin Electrical Panel

13.6.1 Fire Curtains

The appliance has Fire Curtains fitted to the cabin windows. The Fire Curtains can deploy quickly to help protect the crew in a burn-over situation. Before deploying the front windscreen fire curtain move the reverse camera screen to the horizontal position and position the sun visors on the screen.

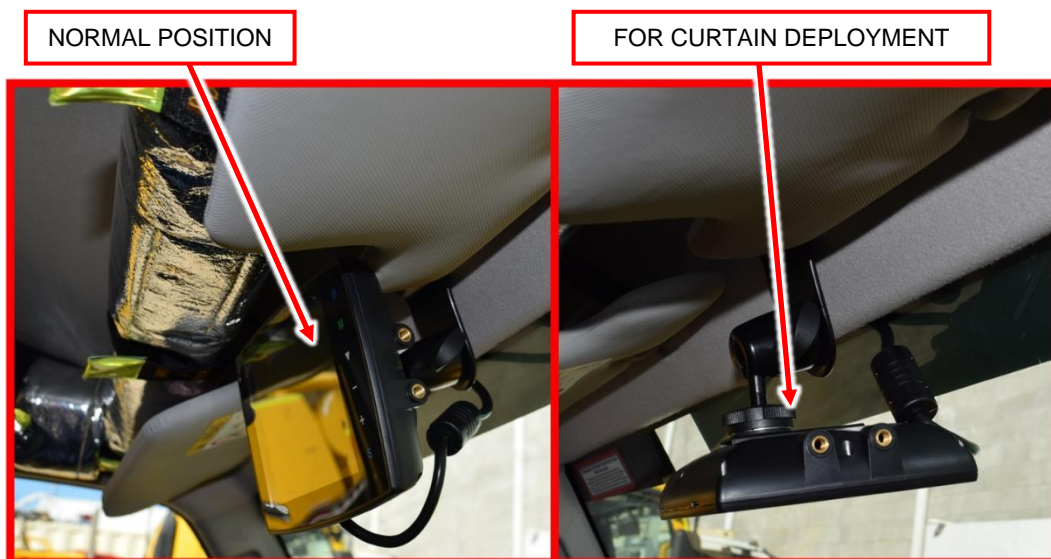


Figure 45: Reverse Camera Screen

Deploying the Fire Curtains:

1. Pull the Velcro tabs to release the Rear Window Fire Curtain and unroll the curtain.
2. Press the Velcro edges down against the Velcro strips beside the rear window.
3. Sit in the Cabin and close the doors.
4. Wind up both windows.
5. Pull the Velcro tabs to release the Side Window Fire Curtains and unroll the curtain.
6. Press the Velcro edges down against the Velcro strips beside the windows.
7. Fold the side panels towards the front windscreen.
8. Pull the Velcro tabs to Release the Windscreen Fire Curtain and unroll the curtain.
9. Press the Velcro edges down against the Velcro strips on the folded-out panel from the side curtains.
10. Pull the Velcro tabs on the Rear Window Fire Curtain and roll the curtain down.
11. Press the Velcro edges down against Velcro strips beside the rear window.
12. Pull the Side Window Velcro tabs and roll both OS and NS Fire Curtains down.



Figure 46: Fire Curtains

13.7 Tank

The vehicle has a 550 litre HDPE tank with baffle balls to prevent slosh. The water tank also incorporates a 200mm diameter top fill point. The tank has an electronic water level indicator on the rear of the appliance and a display on the dash.

There is a Low Water beacon on top of the rear locker. When the tank level drops to ¼ capacity, an audible alarm in the pump control panel will sound, and the Low Water Beacon will activate. The audible alarm and beacon will operate only when the Pump Ignition is on, to prevent distractions to other drivers when returning to refill the tank. Refilling the tank to over ¾ capacity will also cancel the alerts. The Buzzer Mute Switch on the Pump Control Panel can mute the low water audible alarm. The Buzzer Mute will automatically reset after cycling the Pump Ignition off and back on.

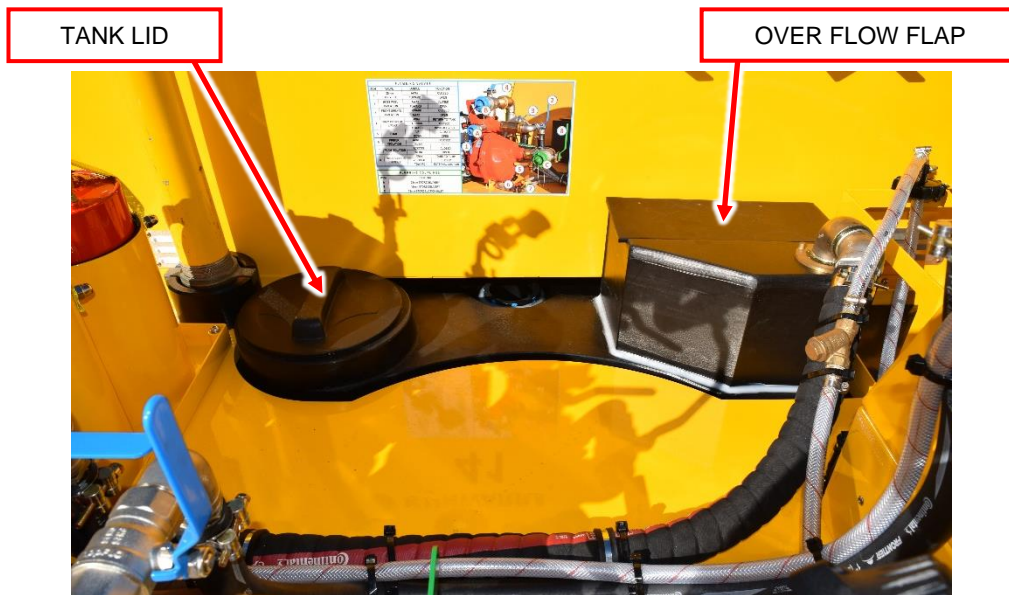


Figure 47: Tank Features

⚠ CAUTION

When filling the tank from a Hydrant or from the Back Fill Valve, do not over pressure the tank. Damage may occur if the flow is not reduced when the tank is full.

13.7.1 Electronic Tank Level Display

The appliance has a Class 1 Tank Level Display on the rear-facing locker wall. The Tank Level Display will operate the Pump Ignition. There is a smaller Tank Level Display in the cabin, so the driver can see the tank level.



Figure 48: Class 1 Water Level Displays

13.8 Locker Equipment Storage

The appliance has four storage lockers and an under-reel drawer.

1. The near-side front locker stores the chainsaw, chainsaw fuel and accessories.
2. The near-side mid locker is for hose storage.
3. The off-side front locker is for fuel storage. It stores two fuel cans, one for drip torch fuel and one for the Pump.
4. The off-side mid locker has a fridge and the first aid kit.
5. The under-reel drawer is on the off-side rear of the deck and stores hose nozzles, adapters and the hose reel rewind handle.

13.8.1 Near-Side Front Locker (Chainsaw Locker)

The NSF Locker stores the chainsaw on a slide-out shelf that doubles as a chainsaw workbench. The shelf stores the chainsaw and the chainsaw fuel can. To access the chainsaw and the chainsaw fuel can:

1. Press and hold down both slide locking levers.
2. Pull the slide outwards.
3. When the slide is fully extended, release the slide lock lever.
4. Release the Webbing straps that secure the chainsaw and fuel can to the slide by squeezing the buckle.



Figure 49: Near-Side Front Locker (Chainsaw Slide Extended)

13.8.2 Near-Side Mid Locker (Hose Locker)

The NSM Locker stores the lay-flat hoses, a suction hose with floating filter, handline hoses and the batter spray.



Figure 50: Near-Side Mid Locker

13.8.3 Off-Side Front Locker (Fuel Locker)

The OSF Locker stores the fuel cans. There is one 10-litre fuel can for unleaded petrol for the Honda GX200 and one 10-litre fuel can of Drip Torch fuel mix. Webbing straps secure the fuel cans. Squeeze the buckles to release the webbing strap and then lift the fuel can out of the locker.



Figure 51: Off-Side Front Locker

13.8.4 Off-Side Mid Locker (Fridge/First Aid Locker)

The OSM Locker has the Fridge on a slide-out shelf and the First Aid Kit. To access the fridge:

1. Press and hold the two slide latches
2. Pull the drawer outwards.
3. Release the latches to lock the drawer in the extended position.



Figure 52: Off-Side Mid Locker

13.8.5 Under-Reel Drawer

The Under-Reel Drawer is a lockable slide-out drawer below the hose reel. It can store hose nozzles, adapters, and the hose reel rewind handle.

1. Lift the handle to release the latch.
2. Pull the drawer outwards.



Figure 53: Under-Reel Drawer

13.9 Ancillary Equipment Storage

The appliance has additional storage on the rear deck and some below tray locations. The Rear Deck has dedicated storage for the Standpipe, Drip Torches, Foam Drum and Helmets. Below the tray, there is storage for two Rake-Hoes and the Spare Wheel.

13.9.1 Standpipe

The Standpipe is on the rear deck on the near-side of the appliance. To access the Standpipe:

1. Pull the tab to release the PAC bracket.
2. Lift the Standpipe out of the holder.



Figure 54: Standpipe – NS on the Rear Deck

13.9.2 Drip Torches

The Drip Torches are on the rear deck on the near-side of the appliance. To access the Drip Torches:

1. Squeeze the buckle to release the webbing strap.
2. Lift the Drip Torch out of the holder.



Figure 55: Drip Torches – NS on the Rear Deck.

13.9.3 Foam Drum

The Foam Drum is on the rear deck on the off-side of the appliance. To access the Foam Drum:

1. Squeeze the buckle to release the webbing strap.
2. Release the anti-luce latch
3. Swing the gate open.
4. Lift the Foam Drum out.



Figure 56: Foam Drum – OS on the Rear Deck.

13.9.4 Helmets

The Helmets are on the rear wall of the locker on the off-side above the Foam Drum. The helmets are retained by a spring-loaded retainer that maintains downward pressure, pressing the helmet into the Helmet Holder's lower part. The Helmet Holder can have a padlock to prevent the helmet from being stolen. To access the Helmets:

1. Remove the padlock (if fitted).
2. Lift the helmet upwards until the bottom is clear of the holder.
3. Angle the bottom outwards to clear the holder.
4. Lower the helmet until it is clear of the holder.



Figure 57: Helmets – OS on the Rear Deck
Above the Foam Drum.

13.9.5 Rake Hoe

There are Rake Hoe holders on either side under the tray, in front of the rear wheels.

To access the Rake Hoe:

1. Remove the “R” Clip.
2. Slide the Rake Hoe out of the holder.



Figure 58: Rake Hoe.

13.9.6 Spare Wheel

The Spare Wheel is under the tray at the rear of the appliance behind the number plate.

To access the Spare Wheel:

1. Open the Spare Wheel Door and let it hinge downwards.
2. Release the Lynch Pins.
3. Release the Over-Centre Latches.
4. Slide the Spare Wheel out of the carrier.

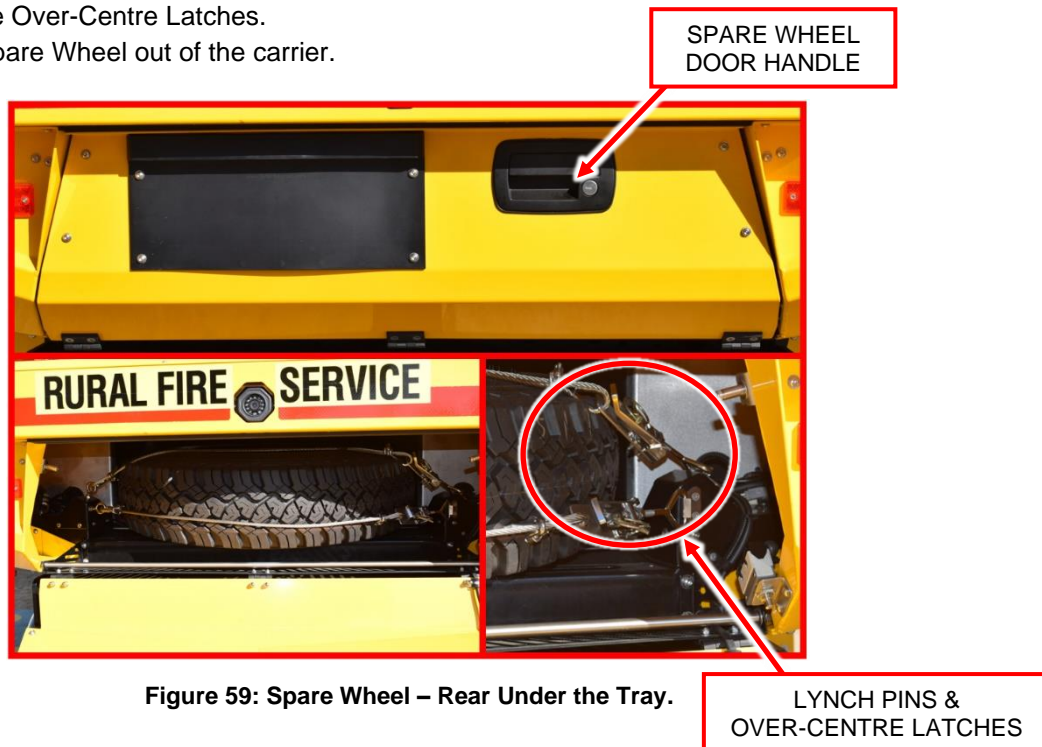


Figure 59: Spare Wheel – Rear Under the Tray.

13.10 Electrical

13.10.1 General

The electrical system meets all relevant design rules and requirements. Do not modify the electrical circuits under any circumstances.

The Light Attack Landcruiser has a dual battery system with a built-in emergency start function. The emergency start function operates from a switch on the dash. It links the batteries together to assist in starting the vehicle if the main battery is low.

Electrical Locations:

1. Main Circuit Breakers are in the Engine Bay.
2. Relays, Circuit Breakers, Siren Controller and Radios are on the Cabin Electrical Panel behind the seats.

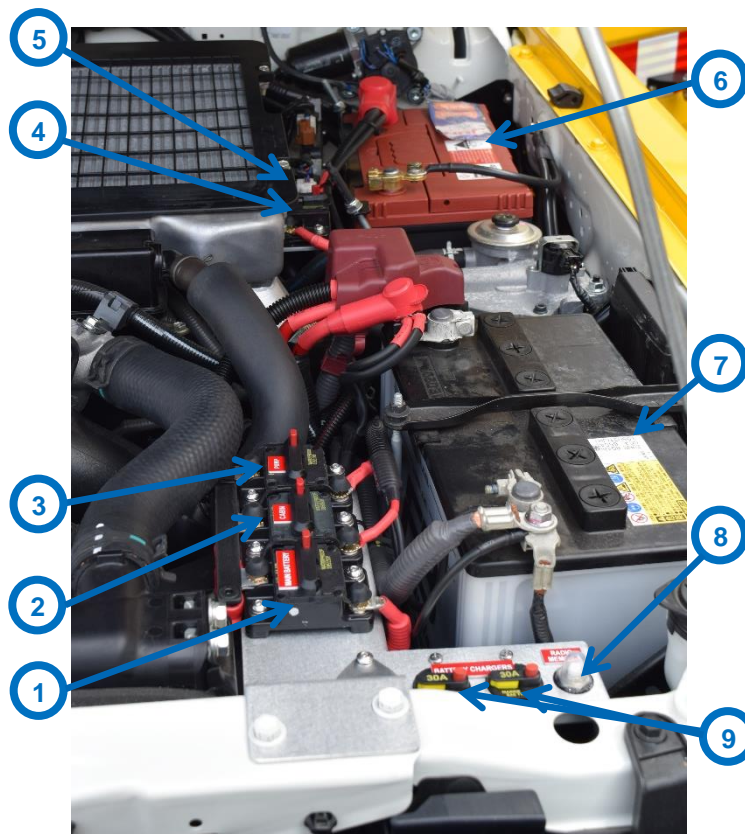


Figure 60: NS of Engine Bay

Item	Description
1	Main Battery Circuit Breaker
2	Cabin Circuit Breaker
3	Pump Circuit Breaker
4	House Battery Circuit Breaker
5	Emergency Start Fuses and Diodes
6	House Battery
7	Main Battery
8	Radio Memory Circuit Breaker
9	Battery Charger Circuit Breakers

Table 9: Engine Bay Body Electrical

13.10.2 Battery Isolator

The appliance has a double pole battery isolator on the bull bar. The battery isolator will disconnect both the main vehicle battery and the auxiliary battery. When the vehicle is parked, use the battery isolator to prevent accidental discharge of the batteries. The only circuit wired around the battery isolator is the radio memory. Both batteries are isolated and separated from each other to ensure one battery does not discharge the other in the event of a fault. The alternator will charge both batteries when the vehicle engine is running.



Figure 61: Battery Isolator

13.10.1 Battery Charger Connection

The appliance has two 50-amp Anderson Plugs on the NS of the CDMS. These connectors are for battery chargers to maintain the main and auxiliary batteries. When connecting the battery chargers:

1. Park the vehicle.
2. Isolate the batteries.
3. Connect the Battery Chargers



Figure 62: Battery Charger Connectors

13.10.2 Emergency Start Button.

The appliance has an Emergency Start Button on the dash. If either the Main or the auxiliary battery goes flat, pressing and holding this button will link the batteries together.

To use the Emergency Start Button to start the vehicle:

1. Sit in the drivers' seat.
2. Engage the parking brake.
3. Put the transmission in neutral.
4. Press and hold the clutch pedal to the floor.
5. Push and hold the Emergency Start Button.
6. Turn the key to the start position and start the vehicle.
7. Hold the Emergency Start Button for a further 10 seconds after the vehicle has started.
8. After 10 seconds has passed release the Emergency Start Button.

The Emergency Start function can start the Pump if the auxiliary battery is flat.

(Recommended) Method number one is to start the vehicle and wait approximately 10 seconds for the Smart Solenoid to engage, linking the Main and the House Batteries together.

If you do not want to start the vehicle, Method number two is to use a similar approach as starting the vehicle from the House Battery:

To use the Emergency Start Button to start the Pump:

1. Have a person sit in the driver's seat.
2. Have another person at the Pump Control Panel.
3. Close all pump outlets.
4. Prime the Pump.
5. The person in the cabin should press and hold the Emergency Start Button.
6. The person at the Pump Control Panel should start the Pump.
7. Once the Pump is running, continue to hold the Emergency Start Button on for about 10 seconds.
8. Run the vehicle to provide a higher recharge rate to the Auxiliary Battery and to supply additional current for the electrical functions.

WARNING

Always have someone in the drivers' seat when using the Emergency Start Button.
Ensure the vehicle transmission is in neutral and the park brake is applied.



Figure 63: Emergency Start Button

13.10.3 Cabin Electrical Panel

The Cabin Electrical Panel is on the rear wall of the cabin, and it houses the VHF radio, siren controller, relays, and fuses. The VHF speaker is on the floor behind the centre console.

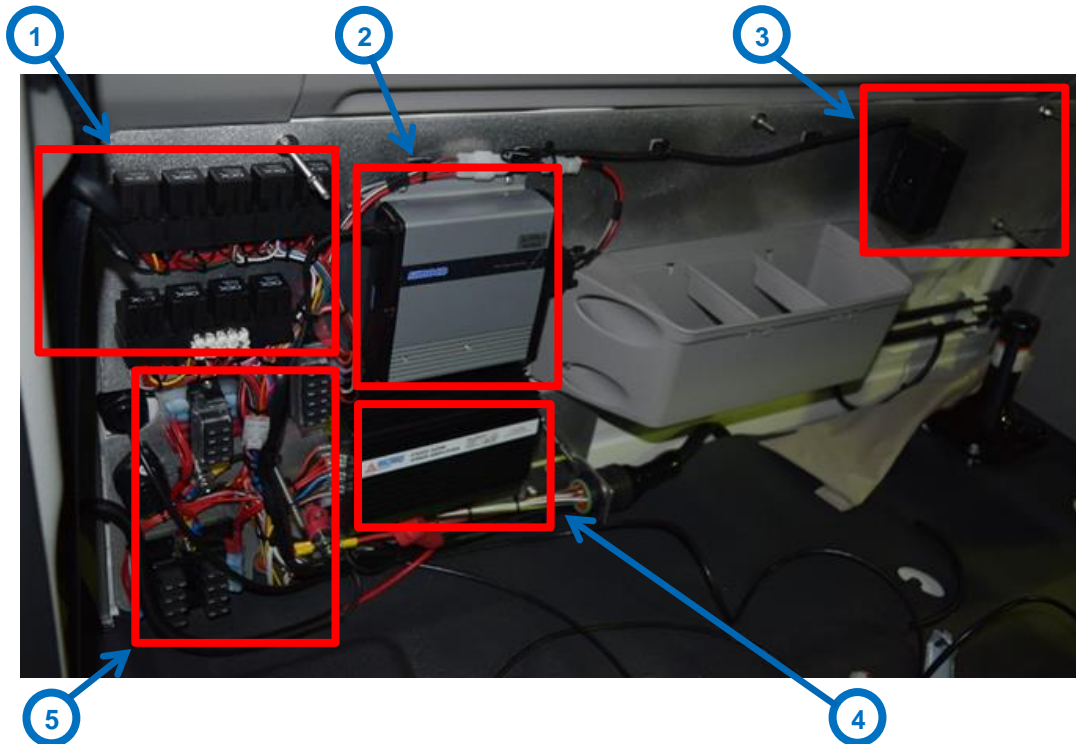


Figure 64: Electrical Panel behind seats

Item	Description
1	Relays
2	VHF Radio (Depending on options)
3	GWN Transceivers
4	Emergency Lights and Siren Controller
5	Circuit Breakers

Table 10: Cabin Electrical Panel

13.10.4 Siren and Emergency Lighting

The siren controller is located on the dash in the cab. It controls the emergency lights and siren, and the Public Address (PA) system. Push the “Push to Talk” button on the side of the Siren Controller Handset and speak into the Microphone.

In any mode when the handbrake is applied, the system will change to “Park Mode”. “Park Mode” sets any active mode to Button 1 functionality: All of the emergency lights will turn off except for the rotators in the light bar. If the siren is operating, it will be deactivated.

Refer to the Siren Controller OEM manual for further operational instructions.

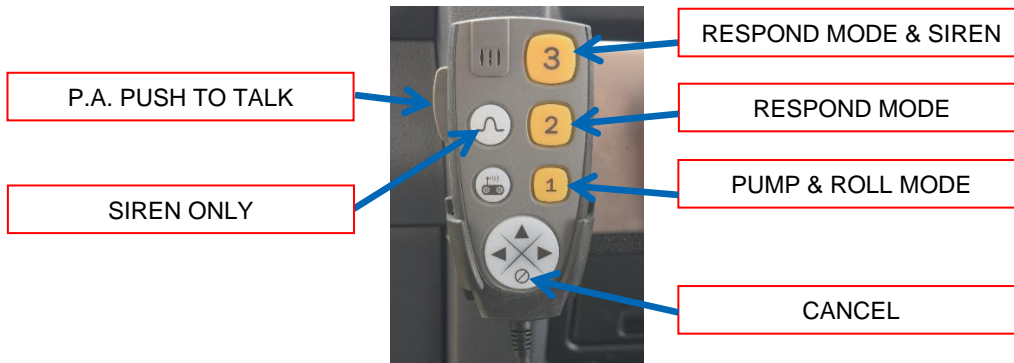


Figure 65: Siren Controller

13.10.5 Lighting Controls

The NS and OS Work Light controls are on the Pump Control Panel. For the work lights to operate, the vehicle park lights must be on.

The switch for the Undertray Lights is on the dash to the right of the steering wheel. For the Undertray Lights to operate the vehicle park lights must be on.

For the Locker Lights to operate, the park lights must be on. The Locker Light will automatically turn on when a Locker door is open.



Figure 66: Lighting Controls - Pump Control Panel

Item	Description
1	NS Work Lights Switch
2	OS Work Lights Switch

Table 11: Lighting Controls - Pump Control Panel

13.10.6 Radios

The appliance has a UHF radio on the cabin electrical panel. The UHF handset and external speaker switch are on the dash. There is a speaker inside the cabin, behind the seats, and an external speaker on the rear-facing locker wall.



Figure 67: VHF External Speaker Switch

13.10.7 Check Body Warning Light

The appliance has a Check Body warning light to alert the driver if a Locker Door or the Under-Reel Drawer has been left open. An audible alarm will sound if this light is on and the parking brake is released. If the buzzer fails and remains on, use the Buzzer Mute Switch to silence the alarm.



Figure 68: Check Body Warning Light – Dash

13.10.8 Cabin Switches

The cabin dash has switches that control various functions around the appliance. There are switches for the External Speaker, Undertray Lights and Buzzer Mute. For O.E. switches and functions consult the Toyota Owner’s Manual.

Item	Switch	Description of Function
1	Buzzer Mute Button	Silences the cabin buzzer. It resets with vehicle ignition.
2	Undertray Lights Switch	Operates the Undertray Lights, the switch requires the vehicle park lights to be on to operate.
3	VHF External Speaker Switch	Operates the VHF External Speaker, broadcasting the UHF radio communications from the VHF External Speaker at the rear of the vehicle.

Table 12: Cabin Switches



Figure 69: Cabin Switches

13.10.9 LED Interior Light & Map Light

In the cabin, there is an additional LED interior light and a LED map light. The LED interior light operates in conjunction with the OE interior light, and the map light has a separate switch.



Figure 70: Interior Light & Map Light

13.10.10 Water Level Indicator Switch

On the rear wall of the cabin, between the seats is a toggle switch that controls the Water Level Indicator. To prevent light interrupting the image from the reverse camera, it may be necessary to turn off the Water Level Indicator.



Figure 71: Water Level Indicator Isolation Switch

14 T – TESTING

The following section provides details on the necessary testing and maintenance procedures for the appliance. The following key will be used throughout this section:

OPERATION LABEL	OPERATION
C	Check
D	Drain
I	Inspect
++	Monitor during appliance break in

Table 13: Inspection and Maintenance Key

14.1 Appliance Pre-Start Checks

PRE-START CHECKS		
FUNCTION	OPERATION	ACTION
OEM Vehicle Lighting	C	From the vehicle cabin, check and operate all OEM lighting to ensure correct operation
Emergency Lighting (Beacon/ Strobes)	C	From the control panel operate all emergency lighting to ensure correct operation
Locker Doors	I	Inspect all Locker Doors.
Pump Engine Oil	C	Check the oil level of the Honda engine via the dipstick.

Table 14: Appliance Pre-Start Checks

14.2 Vehicle

The following details vehicle maintenance and inspection.

Item	Daily	Weekly	Notes
ENGINE			
Engine Oil	C		
Fuel Tank Level	C		
Batteries		C	
Coolant System Level	C		
Engine Compartment		I	
Drive Belts		C	
TRANSMISSION			
Transmission Oil Level	C		
FRONT AND REAR AXLES/STEERING			
Wheel Nuts		C	
Tyre Air Pressures		C	
BODY/CABIN			
OEM Lamps and Globes	C		

Table 15: Vehicle Maintenance Schedule

i NOTE

OEM vehicle components should be inspected as per manufacturer's recommended service intervals.

14.3 Pump Set

The individual components of the Pump should undergo maintenance as per OEM instructions. Below is a summary of these maintenance tasks:

HONDA GX200			
Item	Daily	Weekly	Notes
Engine Oil	C		
Fuel Tank Level	C		
Fuel Line		C	Check the fuel line for damage or leaks
Air Filter		C	
Exhaust	C		
Davey Twin - Pump	C		

Table 16: Pump Set Maintenance Schedule

14.4 Plumbing

The following components for the appliance should undergo maintenance on a regular basis.

PLUMBING			
Item	Daily	Weekly	Notes
Primer Filter		C	
Valves		I	Inspect for damage / leaks
Hoses		I	Inspect for damage / leaks
Adaptors		I	
Water Tank Sight Tube		I	If fitted

Table 17: Plumbing Parts Maintenance Schedule

14.5 Stowage

STOWAGE			
Item	Daily	Weekly	Notes
Straps		I	Check for tears
Pac Brackets		I	Check for wear and damage
Hoses		I	Check for wear and damage

Table 18: Stowage Parts Maintenance Schedule

14.6 Electrical

ELECTRICAL			
Item	Daily	Weekly	Notes
Locker Lights		C	
Driving Lights		C	
Warning Lights	C		
Warning Buzzers	C		
Emergency Lights	C		Front, Rear, Side Strobes & Light Bar
Siren/PA	C		
Work Lights	C		
Under Tray Lights	C		
ADR Clearance Lights	C		
Radios	C		
External Speakers	C		
Aerials	I		
Hose Reel Rewind	C		
Pump Control Panel	C		

Table 19: Electrical Maintenance Schedule

15 APPENDIX A – ELECTRICAL DIAGRAMS

16 APPENDIX B – PLUMBING DIAGRAM

17 APPENDIX E – SPARE PARTS

A list of all spare parts for the appliance is listed below:

QC Part #	OEM Number	Description
5048217	TAPE-50-FYG-DG	Tape 3M Diamond Grade 50mm Yellow / Green
5830501	DE-HDP26-24-31ST	Wiring Conn Deutsch 31 Way Plug (size 16 Socket)
5830503	DE-HD30-24BT-BK	Wiring Connector Deutsch 31 Rubber Boot
5846000	DE-0462-209-16141	Wiring Conn Deutsch DT Sockets Solid 13amp Green
5847000	DE-114017	Wiring Conn Deutsch DT Blank Size 12-16
5799835	DT06-12SA	Wiring Connector Deutsch 12 Way Plug Size 16
5848040	W12S	Wiring Conn Deutsch Wedge 12S
5799833	DT06-6S	Wiring Connector Deutsch 6 Way Plug Size 16
5848038	W6S	Wiring Conn Deutsch Wedge 6S
5799830	DT06-2S	Wiring Connector Deutsch 2 Way Plug Size 16
5848035	W2S	Wiring Conn Deutsch Wedge 2S
5799831	DT06-3S	Wiring Connector Deutsch 3 Way Plug Size 16
5848036	W3S	Wiring Conn Deutsch Wedge 3S
5799850	DT04-2P	Wiring Connector Deutsch 2 Way Socket Size 16
5848002	W2P	Wiring Conn Deutsch Wedge 2P
5845000	DE-0460-215-16141	Wiring Conn Deutsch DT Pin Solid 13amp Green Band
5830500	DE-HDP24-24-31PT	Deutsch 31 Way Socket Receptacle (size 16Pin)
1058001	505	Alarm Back Up 12-24V 87db
5902100	72430	Worklamp LED Sq Flood 12-24V 500Lumens
5799750	DE-BB-12	Wiring Connector Deutsch 12way Buss Bar
2539511	50012	Clip R Double Wound 4mm dia x 95mm
2257300	B619051	Bolt U S/S 10mm 60 x 111 (50NB)
4634860	107M06020	Screw M6 x 20 Button Head SS
3501000	075304M06	Nut M6 SS Nylock
5547000	038M06	Washer M6 x 12 SS
4593943	PCL479016C	Rope Wire Plastic Coated 1.6-2.0mm 7x9 G304 Clear
4593946	N24C	Rope Wire Copper Ferrule 2.4mm
5456000	VBB40	Valve Ball Brass 2 Way 1 1/2" F/F
5459600	VBCE40	Valve Spring Check Brass 1 1/2" (brass stem plate)
3087000	SZM40	Fitting Storz 38x38 BSP Male Adaptor
3095000	SZC40	Fitting Storz 38mm Blanking Cap
3098660	SSN40	Fitting SS Nipple Hex 1 1/2"
3098270	SSHN40	Fitting S/S Hose Nipple 1 1/2"
3097070	SSEMF40	Fitting S/S Elbow 90o M/F 1 1/2"
3097071	SSEMF40	Fitting S/S Elbow 45o M/F 1 1/2"
4593943	PCL479016C	Rope Wire Plastic Coated 1.6-2.0mm 7x9 G304 Clear
4593946	N24C	Rope Wire Copper Ferrule 2.4mm
5550000	038M06-2	Washer M6 x 18 SS
4631400	101M06035	Screw M6x35 SS SKT Cap Head
3501000	075304M06	Nut M6 SS Nylock
3341911	240-52U (25)	Latch Striker Pin 240-52U (25)
3340030	EA26037	Lamp Combination LED Slimline 12-24v
4547002	84032BL	Reflector Red 90x40mm
4634858	107M06016	Screw M6 x 16 Button Head SS
2000000	016M06016	Bolt M6 x 16 SS Set
2001000	016M06020	Bolt M6 x 20 SS Set
3501000	075304M06	Nut M6 SS Nylock
5547000	038M06	Washer M6 x 12 SS
5550000	038M06-2	Washer M6 x 18 SS
5550000	038M06-2	Washer M6 x 18 SS
4631400	101M06035	Screw M6x35 SS SKT Cap Head
3501000	075304M06	Nut M6 SS Nylock
3341911	240-52U (25)	Latch Striker Pin 240-52U (25)

3340030	EA26037	Lamp Combination LED Slimline 12-24v
4547002	84032BL	Reflector Red 90x40mm
4634858	107M06016	Screw M6 x 16 Button Head SS
2000000	016M06016	Bolt M6 x 16 SS Set
3501000	075304M06	Nut M6 SS Nylock
5547000	038M06	Washer M6 x 12 SS
5550000	038M06-2	Washer M6 x 18 SS
4573588	BLDU-08145XG	Rivet Orlock 1/4" S/S Dome 5 - 8.5
1924402	1924402	ROLLER - WIRE - Ø15OD X Ø6.2ID X 20
3606100	TECAHBLK025300	Plastic Acetal Black Rod 25mm
3194450	2106-500-L10	Hinge Lift Off
3341900	20599-09	Latch Paddle Lock 2 Way
3341932	R4-10-42-201-10	Latch RotaryMini 2Stage LH Southco R4-10-42-201-10
3341933	R4-10-32-201-10	Latch RotaryMini 2Stage RH Southco R4-10-32-201-10
3499100	075304M05	Nut M5 SS Nylock
5538000	5MG304W	Washer M5 x 10 SS
4551086	EC2014-C	Reversing Camera EC2014-C to suit Hazard EC5603-K
3340190	LP1B	Lamp License Plate LED inc plate mount
3540000	IN-YLF06-4.2	Nutserts M6 x 4.2 Large Flange
3501000	075304M06	Nut M6 SS Nylock
4573588	BLDU-08145XG	Rivet Orlock 1/4" S/S Dome 5 - 8.5
2001010	105M06020-1	Bolt Shoulder M6 x 20 (M5 thread)
4634881	106M06016	Screw M6 x 16 SS Flat Head Skt
4634867	107M06031	Screw M6 x 30 Button Head SS
4634860	107M06020	Screw M6 x 20 Button Head SS
5547000	038M06	Washer M6 x 12 SS
5550000	038M06-2	Washer M6 x 18 SS
5565500	040M06	Washer Spring M6 SS
4593925	HMX79060C	Rope Wire 6mm S/S gr316
2699052	AS-703L-SS	Fastener Ojop Locking (703) Stainless
2699141	AS-41-SS	Fastener Ojop Catch Plate (41) Stainless
4593925	HMX79060C	Rope Wire 6mm S/S gr316
4593926	HM-6260-0006	Rope Wire Grip 6mm
4593927	HM-6234-0006	Rope Wire Thimble SF234U (6mm)
1922328	#N/A	ROD - THREADED - M10 x 1010mm
4592500	022304M10	Rod Threaded M10 SS x 1000 GR304
1181010	HM-6319-1835	Bolt Eye M8 x 35 c/w double washer & nut
4573588	BLDU-08145XG	Rivet Orlock 1/4" S/S Dome 5 - 8.5
2000000	016M06016	Bolt M6 x 16 SS Set
2010000	016M08020	Bolt M8 x 20 SS Set
3501500	076M08	Nut M8 SS Hex
3530000	075304M10	Nut M10 SS Nylock
3501000	075304M06	Nut M6 SS Nylock
3502001	075304M08	Nut M8 SS Nylock
5550000	038M06-2	Washer M6 x 18 SS
5570000	038M08	Washer M8 x 17 SS
5555000	038M10	Washer M10 x 21 SS
4879911	TZ7310	Switch Limit Long Button TZ7310
5547000	038M06	Washer M6 x 12 SS
4634858	107M06016	Screw M6 x 16 Button Head SS
3501000	075304M06	Nut M6 SS Nylock
1923637	#N/A	MUDFLAP - 266 X 250mm
4594500	CGNIR6x210	Rubber Insertion 6mm x 1200 wide
2000000	016M06016	Bolt M6 x 16 SS Set
2001000	016M06020	Bolt M6 x 20 SS Set
2020000	016M08025	Bolt M8 x 25 SS Set
3501000	075304M06	Nut M6 SS Nylock
3502001	075304M08	Nut M8 SS Nylock

3540000	IN-YLF06-4.2	Nutserts M6 x 4.2 Large Flange
5565500	040M06	Washer Spring M6 SS
5550000	038M06-2	Washer M6 x 18 SS
5570000	038M08	Washer M8 x 17 SS
4594500	CGNIR6x210	Rubber Insertion 6mm x 1200 wide
2000000	016M06016	Bolt M6 x 16 SS Set
2001000	016M06020	Bolt M6 x 20 SS Set
2020000	016M08025	Bolt M8 x 25 SS Set
3501000	075304M06	Nut M6 SS Nylock
3502001	075304M08	Nut M8 SS Nylock
3540000	IN-YLF06-4.2	Nutserts M6 x 4.2 Large Flange
5565500	040M06	Washer Spring M6 SS
5550000	038M06-2	Washer M6 x 18 SS
5570000	038M08	Washer M8 x 17 SS
3531000	076M10	Nut M10 SS Hex
1181010	HM-6319-1835	Bolt Eye M8 x 35 c/w double washer & nut
2000000	016M06016	Bolt M6 x 16 SS Set
2010000	016M08020	Bolt M8 x 20 SS Set
2190455	007C12040-2	Bolt & Nut M12 x 40 HT Zinc
3501000	075304M06	Nut M6 SS Nylock
3502001	075304M08	Nut M8 SS Nylock
3530000	075304M10	Nut M10 SS Nylock
5550000	038M06-2	Washer M6 x 18 SS
5570000	038M08	Washer M8 x 17 SS
5555000	038M10	Washer M10 x 21 SS
1181010	HM-6319-1835	Bolt Eye M8 x 35 c/w double washer & nut
2010000	016M08020	Bolt M8 x 20 SS Set
2190455	007C12040-2	Bolt & Nut M12 x 40 HT Zinc
3502001	075304M08	Nut M8 SS Nylock
5570000	038M08	Washer M8 x 17 SS
1181010	HM-6319-1835	Bolt Eye M8 x 35 c/w double washer & nut
2010000	016M08020	Bolt M8 x 20 SS Set
2190455	007C12040-2	Bolt & Nut M12 x 40 HT Zinc
3502001	075304M08	Nut M8 SS Nylock
5570000	038M08	Washer M8 x 17 SS
4593926	HM-6260-0006	Rope Wire Grip 6mm
4593927	HM-6234-0006	Rope Wire Thimble SF234U (6mm)
4918820	4918820	Tank Poly 550 L (1850 x1580)
3610520	VIN26956 SDR11 110mm	Plastic HDPE Black Pipe 110mm x12mm (PN16)
3610572	HDPE-BL8x3000x1500	Plastic HDPE Black Sheet 8mm x 3m x 1.5m
4917075	IHB2BSPDR	Tank Insert 2" Brass Notched (through)
4917070	IHB12BSPDR	Tank Insert DZR1/2" Brass (through)
3080940	ASF38-Nat	Fitting Tank Spinweld 1 1/2"
4930900	3510120	Tank Lid Ring Kit 255mm CLOSED (flat mount)
4917086	IHBB12M	Tank Insert 12mm Brass (blind)
4917900	GSSQ1044C	Tank Ball Baffle (Small)
4930900	3510120	Tank Lid Ring Kit 255mm CLOSED (flat mount)
4931500	300 110	Tank PTO500 Strainer Filter (120mm deep)
4917858	1903375 (0)	Tank Splash Lid Flange
4917859	1903374 (0)	Tank Splash Lid Panel
4917860	1903026 (0)	Tank Gasket --Splash Lid
3194301	TCA1S3BT	Hinge Self Closing Gate 205kg
4633804	STP08016	Screw 8G x 5/8" SS Pan S/tap
4613055	107M05016	Screw M5 x 16 SS Button Hd Skt
5538000	5MG304W	Washer M5 x 10 SS
3499100	075304M05	Nut M5 SS Nylock
3097070	SSEMF40	Fitting S/S Elbow 90o M/F 1 1/2"
3098270	SSHN40	Fitting S/S Hose Nipple 1 1/2"

3009500	RB158	Fitting Reducing Bush 1/2" x 1/4"BSP Brass
2907900	MFE8	Fitting Brass 1/4" M/F 90o
3311560	102162	Indicator Water Level Transducer (ITL)
3016000	RB5040	Fitting Reducing Bush 2" x 1 1/2"BSP Brass
2940800	MFE40	Fitting Brass 1-1/2" M/F 90o
3009200	BMLEM3838	Fitting Male Lump End 1 1/2" x 1 1/2"Tail Brass
3098830	SSHP50	Fitting S/S Plug 2"
5547000	O38M06	Washer M6 x 12 SS
3501000	O75304M06	Nut M6 SS Nylock
4634881	106M06016	Screw M6 x 16 SS Flat Head Skt
4634882	106M06020	Screw M6 x 20 SS Flat Hd Skt
4634858	107M06016	Screw M6 x 16 Button Head SS
2001000	O16M06020	Bolt M6 x 20 SS Set
4573588	BLDU-08145XG	Rivet Orlock 1/4" S/S Dome 5 - 8.5
1924844	1924844	BLOCK - BUFFER - TANK
3610558	761050	Plastic HDPE Black Rod 50mm dia
1923763	#N/A	FITTING - TEE - 1" BSPF - BRASS
3099339	SST25	Fitting S/S Tee 1" BSPF
3356330	EX-00066-C	Lightbar 47" Excalibur 12v QFR Spec
5435120	T25MF	Valve Ball T-Handle 1" M/F
3086000	SZM25	Fitting Storz 25x25 BSP Male Adaptor
3096000	SZC25	Fitting Storz 25mm Blanking Cap
3097060	SS90EMF25	Fitting S/S Elbow 90o M/F 1"
3098756	SSHRN4025	Fitting S/S Reducing Nipple 1 1/2" x 1"
3099270	SSCP40	Fitting S/S Socket 1 1/2"
3098270	SSHN40	Fitting S/S Hose Nipple 1 1/2"
3098250	SSHN25	Fitting S/S Hose Nipple 1"
G3209585	UB45	IRRIGATOR UB45 U-Bolt
3541000	IN-YSF08-3.8	Nutsert M8 Small Flange 0.7-3.8
3502001	O75304M08	Nut M8 SS Nylock
5570000	O38M08	Washer M8 x 17 SS
5555000	O38M10	Washer M10 x 21 SS
5575000	O40M08	Washer Spring M8 SS
2020000	O16M08025	Bolt M8 x 25 SS Set
2050000	O16M10035	Bolt M10 x 35 SS
3625001	ACX2760C	Plug Anderson 50A Cover
3625000	ACX2760	Plug Anderson 50A (1 x Pair)
1923853	#N/A	ENG LABEL - ISOLATE BATTERIES WARNING - 170 x 30 - WHITE ON RED
1916436	#N/A	ENG LABEL - AUX BATTERY - 34 X 11 - 3.5 TEXT - RED ON WHITE
1920181	#N/A	ENG LABEL - MAIN BATTERY - 16 X 11 - 3.5 TEXT - RED ON WHITE
1923858	#N/A	ENG LABEL - CASE ONE - 27 X 11 - 3.5 TEXT - RED ON WHITE
1923857	#N/A	ENG LABEL - BATTER SPRAY - 34 X 11 - 3.5 TEXT - RED ON WHITE
2880000	NCG20A	Gland Nylon 20mm
1924402	1924402	ROLLER - WIRE - Ø15OD X Ø6.2ID X 20
3606100	TECAHBLK025300	Plastic Acetal Black Rod 25mm
3341932	R4-10-42-201-10	Latch RotaryMini 2Stage LH Southco R4-10-42-201-10
3341933	R4-10-32-201-10	Latch RotaryMini 2Stage RH Southco R4-10-32-201-10
3341900	20599-09	Latch Paddle Lock 2 Way
4573588	BLDU-08145XG	Rivet Orlock 1/4" S/S Dome 5 - 8.5
2001010	105M06020-1	Bolt Shoulder M6 x 20 (M5 thread)
4634860	107M06020	Screw M6 x 20 Button Head SS
5538000	5MG304W	Washer M5 x 10 SS
5547000	O38M06	Washer M6 x 12 SS
3499100	O75304M05	Nut M5 SS Nylock
3540000	IN-YLF06-4.2	Nutserts M6 x 4.2 Large Flange
4593943	PCL479016C	Rope Wire Plastic Coated 1.6-2.0mm 7x9 G304 Clear
1924402	1924402	ROLLER - WIRE - Ø15OD X Ø6.2ID X 20
3606100	TECAHBLK025300	Plastic Acetal Black Rod 25mm

DUCOT – RFBAQ Light Attack

3341932	R4-10-42-201-10	Latch RotaryMini 2Stage LH Southco R4-10-42-201-10
3341933	R4-10-32-201-10	Latch RotaryMini 2Stage RH Southco R4-10-32-201-10
3341900	20599-09	Latch Paddle Lock 2 Way
2001010	105M06020-1	Bolt Shoulder M6 x 20 (M5 thread)
4573588	BLDU-08145XG	Rivet Orlock 1/4" S/S Dome 5 - 8.5
4634860	107M06020	Screw M6 x 20 Button Head SS
5538000	5MG304W	Washer M5 x 10 SS
5547000	038M06	Washer M6 x 12 SS
3540000	IN-YLF06-4.2	Nutserts M6 x 4.2 Large Flange
3499100	075304M05	Nut M5 SS Nylock
4593943	PCL479016C	Rope Wire Plastic Coated 1.6-2.0mm 7x9 G304 Clear
4593946	N24C	Rope Wire Copper Ferrule 2.4mm
1442900	QKCP1153	Louvre/Vent Plate 147x74, 6 holes
8105805	OATES SC903	Scotch Brite Filter 6"x9"Maroon
1442901	QUIK559254	Louvre/ Vent Backing Plate
4573611	AVSS-0616	Rivet SS 3/16" 2.5-7.5
3194121	LLH-165718SS-H	Hinge SS Piano 57x1.6x1800mm C/W Holes
5550000	038M06-2	Washer M6 x 18 SS
4631400	101M06035	Screw M6x35 SS SKT Cap Head
3501000	075304M06	Nut M6 SS Nylock
3341911	240-52U (25)	Latch Striker Pin 240-52U (25)
3605600	PW040	Pinchweld Seal (040) 10x13 (bulb 11x11)
3135918	GSK150N-316mm	Gas Strut 315-818 (150N)
3135912	GSK250-315-818	Gas Strut 315-818 (250N)
4879911	TZ7310	Switch Limit Long Button TZ7310
2890000	NCG25A	Gland Nylon 25mm
2875000	NCG16A	Gland Nylon 16mm
2870000	NCG12A	Gland Nylon 12mm
3340112	87542	Lamp L.E.D Strip 306mm 9-33V (ally housing)
3340111	87541	Lamp L.E.D Strip 178mm 9-33V (ally housing)
2051400	007C10050-2S	Bolt M10 x 50 Zinc 8.8
5585000	040M10	Washer Spring M10 SS
5555000	038M10	Washer M10 x 21 SS
2070500	016M10080	Bolt M10 x 80 SS
5590000	02912-1	Washer M12 Spring Zinc
5547000	038M06	Washer M6 x 12 SS
3341930	240 L 54	Latch Rotary Mini 2 Stage LH 240L54
3341931	240 R 54	Latch Rotary Mini 2 Stage RH 240R54
4742720	2986.56	Slide Full Ext Locking 710mm (Ovesco 28") Pair
4742864	BWD3076L-28-R	Slide Lock In/Out 710mm RH (BWD3076 28")
4742877	BWD3076L-28-L	Slide Lock In/Out 710mm LH (BWD3076 28")
4879104		0 Strap 25mm Side Release 280mm Yellow Polyester
5610000		0 Webbing Polyester 25mm Fluro Yellow (50m roll)
4594600	SRNIT3	Rubber Nitrile 3mm x 1200mm
5570000	038M08	Washer M8 x 17 SS
5570500	038M09	Washer M8 x 24 SS
2010000	016M08020	Bolt M8 x 20 SS Set
3502001	075304M08	Nut M8 SS Nylock
3358546	1902898 (3)	Locker G Wag Through Slide Mount Upper
3610577		0 Plastic HDPE White 3mm x 3m x 1.5m
2394002	1903039 (2)	Chainsaw Clamp Yoke
2394005	1903088 (0)	Chainsaw Clamp Mount Plate
2394004	1904132 (2)	Chainsaw Clamp Brass Swivel Clamp Foot
2394001	1904135 (1)	Chainsaw Clamp Thread Rod
3323501	65642	Knob Three Arm
2395002	D1400-0070APP	Circlip External 7mm x0.8mm
3185100	UES052085	Handle D Pull Chrome Plated 210mm
4573590	BLDU-08185XG	Rivet Orlock 1/4" S/S Dome 9-12.5

4573589	BLDU-08165XG	Rivet Orlock 1/4" S/S Dome 7-10.5
5547000	038M06	Washer M6 x 12 SS
4634860	107M06020	Screw M6 x 20 Button Head SS
5550000	038M06-2	Washer M6 x 18 SS
3501000	075304M06	Nut M6 SS Nylock
4742741	2986.7	Slide Full Ext Locking 1065mm (Ovesco 42") Pair
4879102		0 Strap 25mm Side Release 1.28m Yellow Polyester
3309699	VH-DU38/0215	Hose Assy Layflat Duraline 38mmx30m c/w Storz
3309715	SCB6410MFBBC	Hose Layflat 64mm x 10m w 5TPI M & F couplings
4879104		0 Strap 25mm Side Release 280mm Yellow Polyester
5538000	5MG304W	Washer M5 x 10 SS
5547000	038M06	Washer M6 x 12 SS
5565505		0 Washer M6 x 25 SS
4613055	107M05016	Screw M5 x 16 SS Button Hd Skt
4634859	107M06012	Screw M6 x 12 Button Head SS
3499100	075304M05	Nut M5 SS Nylock
3501100	078304M06	Nut M6 SS Dome
3262100	PFBS3830	Hose Suction Blue (Oil & Tanker) 1 1/2"
3090000	SZH40	Fitting Storz 38x38 Tail
2735000	841481	Filter Floating: No Hose
2691196	PID 6A	Diode Plug in 1 x 3Amp
5799851	DT04-3P	Wiring Connector Deutsch 3 Way Socket Size 16
5848003	W3P	Wiring Conn Deutsch Wedge 3P
5848040	W12S	Wiring Conn Deutsch Wedge 12S
4742891	81025BL	Socket Accessory Single 12V (Surface Mount)
4754510	BH-1	Speaker Ashidavox BH-1
3311500	ITL-40M	Indicator Water Level Class1 Multi LED Blue Label
3356461	85338A	Light Strobe Amber 12-80V Single Flasher
5910081	72453	Worklamp LED Sq Flood 9-64V 3200Lumens
4551086	EC2014-C	Reversing Camera EC2014-C to suit Hazard EC5603-K
3378998	MTUBEDOMBLACK	Matting Vynalite (Tube) 910mm x12m Blk
2880000	NCG20A	Gland Nylon 20mm
2870005	669-4654	Nylon Gland M12
2765700	1000-1001	Fire Extinguisher 1kg ABE
3610577		0 Plastic HDPE White 3mm x 3m x 1.5m
5627000	JB601MAG	Whiteboard Magnetic Black Frame 600x450mm
4594338	SRSTRIP3040MM	Rubber Insertion Strip 3mm x 40mm
4879102		0 Strap 25mm Side Release 1.28m Yellow Polyester
4758600	21354A	Spring Quik Lock 16mm OD x 13mm ID 54mm long
3458500	5265HE	Honda GX200-Electric-Davey Twin 1 1/2" In/Out 4way
3673101	13497-1SPR	Pump Davey 3 Way Discharge 1 1/2" (Red)
5458000	3WBVL38	Valve Ball Brass 3-Way 1"1/2 Lport Bttm Entry
3087000	SZM40	Fitting Storz 38x38 BSP Male Adaptor
3095000	SZC40	Fitting Storz 38mm Blanking Cap
2906600	HN40	Fitting Nipple 1-1/2" BSP Brass
5459600	VBCE40	Valve Spring Check Brass 1 1/2" (brass stem plate)
3098660	SSN40	Fitting SS Nipple Hex 1 1/2"
3097070	SSEMF40	Fitting S/S Elbow 90o M/F 1 1/2"
3099341	SST40	Fitting S/S Tee 1 1/2" BSPF
3098270	SSH40	Fitting S/S Hose Nipple 1 1/2"
1521042	1521042	QCF500 Brass Adaptor 1"1/2 M/F LP-Pump
5458000	3WBVL38	Valve Ball Brass 3-Way 1"1/2 Lport Bttm Entry
3095000	SZC40	Fitting Storz 38mm Blanking Cap
3087000	SZM40	Fitting Storz 38x38 BSP Male Adaptor
3098270	SSH40	Fitting S/S Hose Nipple 1 1/2"
5448510	BV10MF	Valve Ball Brass 2 Way 3/8" M/F
3004000	BFP3-0806	Fitting Male Tailpiece 3/8" BSP x 1/2" Tail Brass
5453000	VBB25	Valve Ball Brass 2-Way 1" F/F

2940500	MFE25	Fitting Brass 1" M/F 90o
3006000	BFP3-1216	Fitting Male Tailpiece 1"BSP x 3/4"Tail Brass
3045950	T40	Fitting Tee 1-1/2" BSPF Brass
2907900	MFE8	Fitting Brass 1/4" M/F 90o
3069526	20003-0404C	Fitting Push In G1/4- 1/4"tube
2905700	RHN4025	Fitting Red Nipple 1-1/2" x 1"BSP Brass
5453000	VBB25	Valve Ball Brass 2-Way 1" F/F
3086000	SZM25	Fitting Storz 25x25 BSP Male Adaptor
3096000	SZC25	Fitting Storz 25mm Blanking Cap
2905700	RHN4025	Fitting Red Nipple 1-1/2" x 1"BSP Brass
5453000	VBB25	Valve Ball Brass 2-Way 1" F/F
3097060	SS90EMF25	Fitting S/S Elbow 90o M/F 1"
3098250	SSHN25	Fitting S/S Hose Nipple 1"
2940400	FE25	Fitting Brass 1" F/F 90o
3014000	RB2515	Fitting Reducing Bush 1" x 1/2"BSP Brass
2765746	SN15300	Fitting All Thread Brass 1/2" x 300mm
2910000	MFE15	Fitting Brass 1/2" M/F 90o
3045900	T15	Fitting Tee 1/2"BSPF Brass
5449000	MBVM12	Valve Ball Brass Mini M/F 2 way 1/2" Black Handle
3002500	BFP6-0808	Fitting Male Elbow 1/2"BSP x 1/2"Tail 90o Brass
5435098	VGASMF15TH	Valve Ball T-Handle (Gas) 1/2" M/F
3002000	BFP3-0808	Fitting Male Tailpiece 1/2" BSP x 1/2" Tail Brass
2890000	NCG25A	Gland Nylon 25mm
1916439	#N/A	ENG LABEL - PUMP PANEL
1916433	#N/A	ENG LABEL - HOSE REEL
3125250	CB255-30	Fuseable Link Resetable 30 Amp (255 Series)
4634858	107M06016	Screw M6 x 16 Button Head SS
3501000	075304M06	Nut M6 SS Nylock
5547000	038M06	Washer M6 x 12 SS
4278030		0 Quik Reel - RFR-3 (12 Volt) Powered Self Guiding
3303602	20025619	Hose Black 19mm Fire Rubber Frontier (Horizon 200)
3081100	SZH20BARB	Fitting Storz 25 x 20 Tail Single Barb
1442495	QUIK40665	Nozzle Holder Tube AKRON (RFSQ-MAV16-067)
2691405	Quik572842	Drawer Under Reel RFR Cabinet
2691406	Quik572843	Drawer Under Reel RFR Drawer
2691407	Quik572844	Drawer Under Reel RFR False Front
2691408		0 Drawer Under Reel RFR Cabinet Brace
2691402	422.58.955	Drawer Slide 550mm 45kg (Pair)
3341620	9/00448/01	Latch Recessed Paddle Locking
3341621	9/00406	Latch Recessed Paddle Loop Striker
2691409	685970	Drawer Under Reel RFR Lock Striker Packer
2691410	685969	Drawer Under Reel RFR Lock Striker Spacer
3378998	MTUBEDOMBLACK	Matting Vynalite (Tube) 910mm x12m Blk
1913428	#N/A	COVER - SWITCH - RH
4879911	TZ7310	Switch Limit Long Button TZ7310
3465501	150-360AP	Nozzle Protek 360 (1")
3139085		0 Gauge Pressure 2000kPa (300PSI) 95mm backlit
2907895	3500x4	Fitting Brass 1/4" NPT F/F 90o
3069526	20003-0404C	Fitting Push In G1/4- 1/4"tube
4895511	95612BL	Switch Ignition 3 Position H/Duty
1159000	ACX5112	Buzzer Slow Pulse
4880000	56-90029BR	Switch Toggle On/Off SPST 20A
4881100	60058BL	Switch Toggle Rubber Boot
4890003	60033BL	Switch Push Button Momentary (Narva)
1919233	#N/A	ENG LABEL - PUMP AREA LIGHT - 30 x 11 - 3.5 TEXT - RED ON WHITE
1911681	#N/A	ENG LABEL - IGNITION SWITCH - L SHAPED - 3 TEXT - RED ON WHITE
1914818	#N/A	ENG LABEL - NS WORK LIGHT - 25 x 11 - 3.5 TEXT - RED ON WHITE
1914819	#N/A	ENG LABEL - OS WORK LIGHT - 25 x 11 - 3.5 TEXT - RED ON WHITE

1920033	#N/A	ENG LABEL - BUZZER MUTE - 32 x 7 - 3.5 TEXT - RED ON WHITE
2890015	CAB32M3290	Gland Nylon 90o 32mm
3100136	0	Foam Proportioner FP135 Class A
2904999	BRHN1510	Fitting Red Nipple 1/2" x 3/8"BSP Brass
5459000	VBCE15	Valve Spring Check Brass 1/2" Female BSP
3004010	3004010	Fitting 3/8 BSP x 1/2 M Tail Brass+2mm Orifice
3004000	BFP3-0806	Fitting Male Tailpiece 3/8"BSP x 1/2"Tail Brass
3010000	RB1510	Fitting Reducing Bush 1/2" X 3/8"BSP Brass
4055000	G400-H-ALE 1/2	Pump Primer Hand P100 (Guzzler)
5449000	MBVM12	Valve Ball Brass Mini M/F 2 way 1/2" Black Handle
3002500	BFP6-0808	Fitting Male Elbow 1/2"BSP x 1/2"Tail 90o Brass
2001000	O16M06020	Bolt M6 x 20 SS Set
4634858	107M06016	Screw M6 x 16 Button Head SS
5902100	72430	Worklamp LED Sq Flood 12-24V 500Lumens
3194310	ART331.0	Hinge Small Door Flat S/S
4229420	3285ZP	QPWS Rake Hoe Fastener (Antiluce M8x20)
1903730	1903730 (1)	Tube Mounting Drip Torch & Jerry Can Holder
7082050	RTS22596	Tube Round AL Structural 22 x 6
1904464	#N/A	TRAY - BUNDED
7102600	SG31530	Sheet AL 3 x 3000 x 1500 (5005)
4594750	1149	Rubber Stopper 24L x 16OD x 13OD
4594600	SRNIT3	Rubber Nitrile 3mm x 1200mm
5570000	038M08	Washer M8 x 17 SS
4634926	107M08060	Screw M8 x 60 Button Head SS
2904000	HN10	Fitting Nipple 3/8"BSP Brass (Short Hex)
2907955	FE10	Fitting Brass 3/8" F/F 90o
3003810	BFP3-0506	Fitting Male Tailpiece 3/8"BSP x 5/16"Tail Brass
3306592	RPD2-0031	Hose Fuel Black 5/16" (8mm)
3002120	BFP30504	Fitting Male Tailpiece 1/4"BSP x 5/16" Tail Brass
5435000	T6FF	Valve Ball T-Handle 1/4" F/F
3002100	BFP6-0404	Fitting Male Elbow 1/4"BSP x 1/4"Tail 90o Brass
3540000	IN-YLF06-4.2	Nutserts M6 x 4.2 Large Flange
5547000	038M06	Washer M6 x 12 SS
5565500	040M06	Washer Spring M6 SS
4634860	107M06020	Screw M6 x 20 Button Head SS
4634858	107M06016	Screw M6 x 16 Button Head SS
4820000	1903865 (1)	Standpipe Holder (QC)
4820001	1903866 (3)	Standpipe Holder Mount Base
4820002	1903868 (1)	Standpipe Holder Guide Block
4820004	1903890 (1)	Standpipe Holder Mount Plate Fabricated
4820003	1903869 (4)	Standpipe Holder Mount Plate
2300291	PAC K5006	Bracket Adjustmount
4634870	107M06035	Screw M6 x 35 Button Head SS
3501000	075304M06	Nut M6 SS Nylock
5547000	038M06	Washer M6 x 12 SS
3002500	BFP6-0808	Fitting Male Elbow 1/2"BSP x 1/2"Tail 90o Brass
5830480	DE-HDP24-24-23PN	Wiring Conn Deutsch 23 Way Receptacle
5830481	DE-HDP26-24-23SN	Wiring Conn Deutsch 23 Way Plug
2691200	JB3816-3-8M	Distribution Post Power Small Base (Red)- 8mm stud
4549005	ACX1941DBL	Relay 12V 40A Change Over Diode Protected
4547990	ACX1997	Relay Mini Mounting Base
5849995	ACX2710	Wiring Connector Strip 4mm (pack of 10)
2691197	IN5408	Diode 3Amp Axial
3123300	FH02	Fuse Holder Blade 6 Way Flush Mount
3123200	FH01	Fuse Holder Blade 4 Way Flush Mount
3123500	54432	Fuse Holder Blade 8 Way Narva-BCC
3124555	55710BL	Fuse Blade STD 10amp Circuit Breaker Manual Reset
3124605	55720BL	Fuse Blade STD 20amp Circuit Breaker Manual Reset

3124610	55725BL	Fuse Blade STD 25amp Circuit Breaker Manual Reset
2691195	PID41	Diode Plug in 2 x 3amp
2691196	PID 6A	Diode Plug in 1 x 3Amp
1160000	ACX5017BL	Buzzer - Warning 12v 75DB
2890000	NCG25A	Gland Nylon 25mm
3309950	CD61-4552-50	UHF Ground Independent Antenna +4.0dBq
1917807	#N/A	ENG LABEL - EXTERNAL SPEAKERS
1914864	#N/A	ENG LABEL - CHECK BODY
1920033	#N/A	ENG LABEL - BUZZER MUTE
1914858	#N/A	ENG LABEL - UNDER TRAY LIGHTS
4896068	R403-12R-03	Switch Rocker R Series "ServiceLamps " 12v Red
4896062	R508	Switch Rocker Off -Momentary On 12 / 24v
4896060	R404	Switch Rocker R404 Blank DPST
4613055	107M05016	Screw M5 x 16 SS Button Hd Skt
5538000	5MG304W	Washer M5 x 10 SS
5539500	040M05	Washer M5 Spring SS
3539995	IN08-2517	Nutsert M5 L/Flange Zinc
4896151	62036BL	Switch Rocker Mini On/Off LED Amber
4890002	ACX3610BL	Switch Push Button Momentary (Chrome)
3356520	62092BL	Light Pilot LED 12V Red Chrome
3311550	112124	Indicator Water Level Slave Class 1
4551085	EC5603-K	Reversing Camera Kit with 5.6" LCD touch screen
4551093	ECTC3-4	Reversing Camera Wiring Loom 3m (ECTC3-4)
4742605	PJA-08-M	Sleeve Heatproof 1/2" ID (Pyrojacket)
4742609	PJA-16	Sleeve Heatproof 1" ID (Pyrojacket)
5053005	PST-16	Tape Pyrosil 1"
1917698	#N/A	ENG LABEL - RADIO MEMORY
1916435	#N/A	ENG LABEL - CABIN
1917151	#N/A	ENG LABEL - MAIN
1917791	#N/A	ENG LABEL - PUMP
1920181	#N/A	ENG LABEL - MAIN BATTERY
1916436	#N/A	ENG LABEL - AUX BATTERY
1923911	#N/A	ENG LABEL - BATTERY CHARGERS
3125182	S5510	Fuseable Link Resetable 10 Amp S55 Panel Mount
3125250	CB255-30	Fuseable Link Resetable 30 Amp (255 Series)
3125300	CB185F-60	Fuseable Link Resetable 60 Amp
3125500	CB185F-100	Fuseable Link Resetable 100A
3125520	CB185F-150	Fuseable Link Resetable 150A
3125185	S55Boot	Boot Rubber Fuseable Link Resetable (s55)
4745550	SBI212	Solenoid Smart 12v 200amp
1092000	482	Battery SMF 70ZZ
3123200	FH01	Fuse Holder Blade 4 Way Flush Mount
3124555	55710BL	Fuse Blade STD 10amp Circuit Breaker Manual Reset
2691197	IN5408	Diode 3Amp Axial
1916332	1916332	Separator Battery Cable
5048200	TAPE-15-FYG-DG	Tape 3M Diamond Grade 15mm Yellow / Green
5048208	TAPE-25-FYG-DG	Tape3M Diamond Grade 25mm Yellow / Green
5048210	TAPE-30-FYG-DG	Tape 3M Diamond Grade 30mm Yellow / Green
2765690	0	Fire Curtains (Radiant Heat Shield) Landcruiser 70
5154005	TO-PZQ6460230	Towbar Toyota Landcruiser LC70 S/Cab
5154060	T55048	Towbar Lockable Pin (Hayman Reese)
4500003	58x22/A	Recovery Hitch & Shackle Combo (50mm Towbar Rec)
4740810	810-011	Siren Speaker 128db 100W (D100B)
1108910	905-8815	Battery Isolator Littlefuse 880175 DPST
3356448	XTP6BB	Light LED Strobe Blue 12/24v (XTP6BB)
3356449	XTP6RR	Light LED Strobe Red 12/24v (XTP6RR)
3356603	DLB1010LED	Light Driving LED 580mm 100W 9000lumens Combo
3356620	DLWIRE-KIT-12V	Light Driving Loom 12v (DL)

3279001	20893100	Hose Suction Rubber Extremeflex Versiflo 38mm
3279001	20893100	Hose Suction Rubber Extremeflex Versiflo 38mm
3303602	20025619	Hose Black 19mm Fire Rubber Frontier (Horizon 200)
3303800	569-559254	Hose Black 25mm Fire Rubber
3304001	PFTPR12	Hose Translucent 1/2 -230PSI
3306000	14125-04	Hose 1/4" Nylon Tube Black
1919233	#N/A	ENG LABEL - PUMP AREA LIGHT - 30 x 11 - 3.5 TEXT - RED ON WHITE
1911681	#N/A	ENG LABEL - IGNITION SWITCH - L SHAPED - 3 TEXT - RED ON WHITE
1914818	#N/A	ENG LABEL - NS WORK LIGHT - 25 x 11 - 3.5 TEXT - RED ON WHITE
1914819	#N/A	ENG LABEL - OS WORK LIGHT - 25 x 11 - 3.5 TEXT - RED ON WHITE
1920033	#N/A	ENG LABEL - BUZZER MUTE - 32 x 7 - 3.5 TEXT - RED ON WHITE
1916439	#N/A	ENG LABEL - PUMP PANEL - 32 X 11 - 3.5 TEXT - RED ON WHITE
1916433	#N/A	ENG LABEL - HOSE REEL - 28 X 11 - 3.5 TEXT - RED ON WHITE
1923853	#N/A	ENG LABEL - ISOLATE BATTERIES WARNING - 170 x 30 - WHITE ON RED
1916436	#N/A	ENG LABEL - AUX BATTERY - 34 X 11 - 3.5 TEXT - RED ON WHITE
1920181	#N/A	ENG LABEL - MAIN BATTERY - 16 X 11 - 3.5 TEXT - RED ON WHITE
1923858	#N/A	ENG LABEL - CASE ONE - 27 X 11 - 3.5 TEXT - RED ON WHITE
1923857	#N/A	ENG LABEL - BATTER SPRAY - 34 X 11 - 3.5 TEXT - RED ON WHITE
1917807	#N/A	ENG LABEL - EXTERNAL SPEAKERS - 24 X 11 - 3.5 TEXT - RED ON WHITE
1914864	#N/A	ENG LABEL - CHECK BODY - 25 x 11 - 3.5 TEXT - RED ON WHITE
1920033	#N/A	ENG LABEL - BUZZER MUTE - 32 x 7 - 3.5 TEXT - RED ON WHITE
1914858	#N/A	ENG LABEL - UNDER TRAY LIGHTS - 25 x 11 - 3.5 TEXT - RED ON WHITE
1917698	#N/A	ENG LABEL - RADIO MEMORY - 23 X 11 - 3.5 TEXT - RED ON WHITE
1916435	#N/A	ENG LABEL - CABIN - 18 X 11 - 3.5 TEXT - RED ON WHITE
1917151	#N/A	ENG LABEL - MAIN - 16 X 11 - 3.5 TEXT - RED ON WHITE
1917791	#N/A	ENG LABEL - PUMP - 18 X 11 - 3.5 TEXT - RED ON WHITE
1916436	#N/A	ENG LABEL - AUX BATTERY - 34 X 11 - 3.5 TEXT - RED ON WHITE
1920181	#N/A	ENG LABEL - MAIN BATTERY - 16 X 11 - 3.5 TEXT - RED ON WHITE
1923911	#N/A	ENG LABEL - BATTERY CHARGERS - 46 X 11 - 3.5 TEXT - RED ON WHITE
1920522	#N/A	ENG LABEL - 30kg SWL - 60 X 16 - 10 TEXT - WHITE ON BLACK
4831540		0 Sticker "First Aid"
1908351	#N/A	ENG LABEL - EMERGENCY START - 43 X 46 - 5 TEXT - WHITE ON BLACK

18 APPENDIX F – WARRANTY POLICY

This document sets out the warranties that are given by Quik Corp Pty Ltd (ABN 18 081 235 556) in relation to the Product purchased from or manufactured by Quik Corp.

1. Definitions

1.1. In this warranty policy:

“**Quik Corp**” means Quik Corp Pty Ltd (ABN 18 081 235 556);

“**Customer**” means the party who originally acquired the Product from Quik Corp, or an authorised distributor, reseller or dealer for Quik Corp, for their own use.

“**OEM Equipment**” means the items of equipment fitted to the product by Quik Corp and which items have been manufactured by others and have their own manufacturer’s warranty.

“**Product**” means the goods or machinery that the Customer acquired and which were manufactured by Quik Corp.

2. Warranty

2.1. Subject to clause 3 and clause 4, Quik Corp warrants to the Customer that the Product will be free from proven defects in material and workmanship for twelve months from the date of purchase by the Customer, unless a specific warranty period applies to a component listed in appendix A.

2.2. The warranty is not transferable.

3. Limitations

3.1. This warranty does not cover damages resulting from shipping and handling, abuse, accidents, alterations, normal wear or failure to maintain or use the Quik Corp product with due care.

3.2. Quik Corp does not warrant that the operation of the product will be uninterrupted or error free. The Customer must read and follow all instructions and manuals for the setup, maintenance and use of the Product. If the Customer fails to do so, the product may not function correctly and may suffer other damage.

3.3. This warranty does not extend to OEM equipment which has its own warrant and the Customer must rely on the OEM equipment warranty for any defects in material or workmanship relating to the OEM equipment.

3.4. This warranty does not extend to cover corrosion due to any cause nor to any damage to painted or anodised surfaces that occurs after the Customer takes delivery of the product.

3.5. This warranty does not cover time required to diagnose a warranty problem.

3.6. The use of parts other than Quik Corp parts for repair of warranted items will automatically negate any warranty. Warranted components must be replaced with genuine Quik Corp parts.

3.7. Repairs by an unauthorised agent will automatically forfeit any warranty. Warranty repairs must be carried out by Quik Corp or an authorised Quik Corp Dealer/Service Agent only.

3.8. This warranty does not cover transportation or insurance costs for Products needing repair or replacement of warranted components. Nor does it cover any freight or

insurance costs in obtaining new parts or returning old parts to Quik Corp for inspection purposes.

- 3.9. The time taken to remove and re-install a warranted part or component into other brands of equipment will not be covered by the Quik Corp warranty. Only parts and labour directly attributable to the repair of the Quik Corp unit is covered.
- 3.10. Quik Corp does not pay for cleaning, or clean the Product, accessories or work area before or after the warranty repair.
- 3.11. Quik Corp assumes no responsibility for improper choice of models or where products are used in excess of rated capacities and design functions, or under abnormal conditions. We make available a free technical service to help with any product selection, application or situation.

4. Repair or Replace

- 4.1. During the warranty period, Quik Corp or its authorised Dealer/Service Agent shall repair or replace, at Quik Corp's discretion, without charge for parts and standard labour, any part of the Quik Corp Product which fails because of defects in material or workmanship unless the damage arises from:
 - 4.1.1. Failure resulting from neglect or misuse, such as improper operation, lack of required maintenance or continued use of the Product after the discovery of a defect which results in greater damage to the Product;
 - 4.1.2. Deteriorated or failed components such as but not limited to diaphragms, O-rings, hoses, seals, electrical wiring and connections damaged by corrosive chemicals, dirt and sand, excessive heat or moisture. The Customer should ensure the type and strength of chemicals used in the Product are compatible with the design of the Product;
 - 4.1.3. The use of accessories, hardware, or software which were not manufactured by, installed by or approved in writing by Quik Corp;
 - 4.1.4. The use of consumable items such as but not limited to oils, lubricants, diaphragms, O-rings, hoses seals, gaskets, filter elements, flow meters, clutches, drive belts, pivot pins, paint, batteries, radio transmitters, radio relays, push buttons, switches, hose rollers, aerials, spray guns and nozzles as these items are considered to be normal wear items and are not warranted;
 - 4.1.5. Component failure caused by not performing scheduled maintenance service such as oils, grease, failure to clean tanks, pumps, filters, spray lines, nozzles or any other components and not tightening or replacing loose or missing bolts, nuts, fittings, shields and covers;
 - 4.1.6. Damage or machine failure caused by carelessness or accidental damage, improper operation, inappropriate transportation or storage of the Product;
 - 4.1.7. Any contamination or leakages caused or induced by the Customer;
 - 4.1.8. Any use or operation of the Product outside the physical, electrical or environmental specifications of the Product;

- 4.1.9. Any alterations, modifications, attachments or unauthorised repairs to the Product which have not been authorised in writing by Quik Corp; and
- 4.1.10. Failures due to faulty or inadequate electrical sources of power.

5. OEM Warranties

- 5.1. All OEM (Original Equipment Manufacturer) components are covered by the Original Manufacturer's Warranty. It is the Customer's responsibility to familiarise themselves with these warranties, and subject to clause 7, that is the only warranty given to the customer in respect of that part of the Product.

6. Warranty Claim Procedure

- 6.1. To obtain warranty service:
 - 6.1.1. The Warranty Registration Form must be returned to Quik Corp by the Customer within 14 days of taking delivery of the Product;
 - 6.1.2. The Customer must read the Operating manual before operating the Product;
 - 6.1.3. The Customer must provide with notice of the defect Quik Corp within the warranty period and within 14 days of discovery of the claimed problem, and allow reasonable time for replacement or repair.
- 6.2. Quik Corp may, at its discretion, request the Customer to deliver the alleged defective parts to an authorised servicing Dealer/Service Agent or to Quik Corp. Transportation of the Product to the authorised servicing Dealer/Service Agent or Quik Corp for warranty work is the responsibility of the Customer and is at the Customer's expense. Alternatively, the Customer may request a Quik Corp service technician to travel to the site of the Product to effect repairs or replacement, however the reasonable travel costs (including traveling time) of the service technician must be paid for by the Customer.
- 6.3. Any service outside the scope of this warranty will be charged for at Quik Corp's rates and terms then in effect.

7. Other

- 7.1. This warranty is in lieu of all other warranties (except those of title), expressed or implied, and there are no warranties of merchantability or fitness for a particular purpose.
- 7.2. Unless the Product has been purchased for personal, domestic or household use, any liability of Quik Corp to the Customer arising under statute which may not be excluded restricted or modified by agreement in limited to an amount equal to, as determined by Quik Corp:
 - 7.2.1. Replacement of the Product or supply of equivalent Product;
 - 7.2.2. The repair of the Product;
 - 7.2.3. The payment of the cost of replacing or repairing the Product; or
 - 7.2.4. Refund of the purchase price paid by the Customer.

- 7.3. Subject to clause 7.2, in no event shall Quik Corp or the authorised Dealer/Service Agent be liable for any loss of profit or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from the Product or any defect.
- 7.4. The benefits under this Warranty are in addition to other rights and remedies under a law in relation to the Product.
- 7.5. The judgement of Quik Corp in all cases of claims under this warranty shall be final and conclusive and the Customer agrees to accept its decisions on all questions as to defect, repair and to the exchange of any part or parts.

18.1 Component Warranties

- Davey Twin Pump – Manufacturer’s warranty
- Honda GX200 Engine – Manufacturer’s warranty
- Hose Reel – 6 Years
- Poly Tank - 15 Years (Subject to OEM terms and conditions)
- Stainless Steel Plumbing (manufactured) – 20 years
- Pressure and Compound Gauges – 2 years
- Valves, Fittings and Hoses – 5 Year
- Hardware (locks for lockers, gas struts) – 1 Year
- Tray – 10 Years
- Locker Frame Work – 5 years
- Electrical – 1 year
- Other items not specified – 1 year or OEM/manufacturer’s warranty.