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Viper Hovercraft is a division of Nell Fabrication

Viper Cruiser Hovercraft Plans/kit Price list

Introduction

The Viper Cruiser was originally designed in 1996 as a light offshore performance cruiser. The design has evolved over 30 years and still remains the most advanced small plywood kit on the market.

The Viper Cruiser design, flows through all the present Viper production designs. Simple, easy, practical hovercraft offering outstanding performance and safety. It is a high performance design, yet is simple and inexpensive to build.

Viper Cruiser is designed for the "do-it-yourselfer" who would like to build his own hovercraft, but buy the current technology kit parts that can be too complex to make, such as the fan duct and drive system. Basically, you are building a plywood, foam sandwich version of our early Viper 4 model hull, using the same power module components that we presently use today.

The Viper Cruiser builder makes the hull from marine plywood using a traditional "stitch and glue" method. There are no stringers or complex internal structure. This light weight design, gets its strength by using a foam sandwich technique and integrated foam buoyancy. The hull is surprisingly light, but very strong and safe.

The Viper Cruiser plan/assembly manual explains in a step by step process how to cut out, assemble and fit out a Viper Cruiser Hull. The manual is written in layman's terms and includes hundreds of drawings to assist each stage of the build.

The plan / assembly manual is supplied in a protective binder, with each page contained in a removable, clear plastic insert.

The Plans are **\$185.00** plus GST

The 90+ page manual contains the following:

- List of kit contents and materials.
- Technical information on bonding, fibreglassing and sealing plywood.
- Plans of each individual timber panel, baton and foam panel.
- Panel layout drawings to assist cut out and reduce wastage.
- Hull and fit out assembly instructions.
- Cross-section drawings and wiring diagrams
- Skirt templates.
- Operating and maintenance instructions.

Engine choices

The standard Kit engines are:

- 64hp, water cooled 582 UL-99 Rotax
- 55hp air cooled 3202 Hirth
- 65hp air cooled 3203V Hirth,

Fuel injection option for the Hirth engines is available.

What materials are needed ?

FIBREGLASS :

16 kg	Epoxy Resin & Hardener
1.5kg	Epoxy adhesive
4kg	Clear epoxy primer
150m	50mm F/G Tape
20m	1m, 280—300gm woven cloth
3m	1,500mm Kevlar 170gm woven cloth
12kg	Polyurethane expanding foam (Two part)
3.3sq/mt	10mm D/Cell foam
2kg	Qcell filler powder

PLYWOOD:

1	5 ply, 2400 x 1200 x 6mm (marine grade)
9	3 ply, 2400 x 1200 x 3mm (marine grade)

TIMBER:

30m	20 x 20mm Meranti or similar
1.5m	20 x 40mm Meranti or similar
1.5m	20 x 50mm Meranti or similar
1.6m	20 x 100mm Meranti or similar
1.5m	20 x 120mm Meranti or similar
1m	100 x 15 Hard wood (Skids)

PAINT:

4ltr	Epoxy Undercoat
4ltr	Epoxy Thinner/Cleaner
4ltr	Polyurethane Gloss
2ltr	Polyurethane Thinner

MINIMUM TOOLS & CONSUMABLES:

- Power drill
- Assorted drill bits
- Jigsaw
- Hand or power plane
- Router or power saw
- 80mm Hole saw
- 38mm Hole saw
- 32mm Hole saw
- Hot glue gun
- Basic carpentry and hand tools
- Mixing containers
- Scissors
- Masking tape
- Plastic tape
- Paint brushes
- Scales
- Domestic sewing machine
- Sandpaper
- Rubbing block
- Dust mask
- Disposable gloves and overalls
- Protective glasses



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Viper Cruiser kit Price List. Valid to 30/12/18.

- All prices exclude GST
- Prices do not include freight

Starter pack: \$230

- 1 x Skirt hook set
- 1 x Air deflector
- 2 x Fiberglass engine mount

Hull fit out pack: \$350

- 2 x Air vent
- 1 x Inspection hatch
- 4 x Bung plug assembly
- 2 x Cleat and fasteners
- 1 x Small fiberglass windshield
- 1 x Seat kit (covers and foam)
- 1 x Air cavity / Duct sealing foam
- 3 x Viper Cruiser Decals

Steering pack: \$980

- 1 x Steering cable
- 2 x Two ball joints
- 1 x Rudder kit
- 1 x Goose neck
- 1 x Steering shaft kit
- 1 x Handle bars

Fuel system pack: \$495

- 1 x 30L Fuel tank, cap and fittings
- 1 x Fuel hose, primer and clamps
- 1 x Fuel pump mounting bracket
- 1 x Fuel breather, hose and clamps

Skirt pack: \$1,350

- 30m x Skirt Material
- 1 x SDS panel and retaining plates
- 200 x cable ties
- 200 x Skirt screws
- 12m x Skirt batten material

Electrical pack: \$980

- 1 x Tachometer / Hour meter
- 1 x Fuel gauge and sender
- 1 x Voltmeter
- 1 x Water temp guage and sender unit (rotax) or -
- 1 x Cylinder temp & sender (hirth and Briggs and Stratton)
- 1 x Key starter Switch
- 2 x Circuit breaker
- 1m x Battery cable and lugs
- 4m x 7 core cable
- 1 x Assorted terminals
- 1 x Bus plate
- 1 x Strobe light
- 1 x Waterproof switch
- 1 x Battery

55hp 3202 Hith Engine/thrust fit out pack (V4 duct) \$4,180

(without engine):

- 1 x Engine frame galvanized
- 1 x Flex hub assembly with pulley
- 1 x Bottom drive pulley
- 1 x Drive belt
- 9 x 5ZL fan blades
- 1 x 9 Blade hub machined to suit Viper drive
- 1 x Fan trim, assembly and balance
- 1 x Front and rear Spinner kit
- 1 x Fan Duct
- 1 x Engine frame to duct mounting studs and pre assembly
- 1 x Stud and rubber mount kit
- 1 x Air filter box
- 1 x Fan guard & fittings
- 1 x Exhaust mounting kit

65hp 3203 Hith engine/thrust fit out pack (V5 duct) \$5,620

(without engine):

- 1 x Engine frame galvanized
- 1 x Flex hub assembly with pulley
- 1 x Bottom drive pulley
- 1 x Drive belt
- 8 x 5ZL fan blades
- 1 x 8 Blade hub machined to suit Viper drive
- 1 x Fan trim, assembly and balance
- 1 x Front spinner
- 1 x Spinner and flow straightener kit
- 1 x Elevator kit
- 1 x Fan Duct
- 1 x Engine frame to duct mounting studs and pre assembly
- 1 x Stud and rubber mount kit
- 1 x Air filter and vent tube
- 1 x Fan guard & fittings
- 1 x Exhaust mounting kit

65hp Rotax 582 Engine/thrust fit out pack (V5 duct) \$5,920

(without engine):

- 1 x Engine frame galvanized
- 1 x Flex hub assembly with pulley
- 1 x Bottom drive pulley
- 1 x Drive belt
- 8 x 5ZL fan blades
- 1 x 8 Blade hub machined to suit Viper drive
- 1 x Fan trim, assembly and balance
- 1 x Front spinner
- 1 x Rear Spinner and flow straightener kit
- 1 x Elevator kit
- 1 x Fan Duct
- 1 x Engine frame to duct mounting studs and pre assembly
- 1 x Stud and rubber mount kit
- 1 x Air filter and vent tube
- 1 x Fan guard & fittings
- 1 x Radiator mounting kit
- 1 x Exhaust mounting kit



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Engines

Rotax 582 Engine assembly pack : \$9,520

- 1 x Rotax 582UL 99 MOD DCDI with:
 - 180 Deg exhaust, oil injection and oil tank
- 1 x After muffler kit
- 1 x Single Radiator
- 1 x Overflow bottle
- 1 x Electric starter set
- 1 x Air filter - dual
- 1 x Starter solenoid
- 1 x Regulator rectifier
- 1 x Radiator adaptor set including hoses, clamps and fasteners
- 1 x Dual ign kill unit
- 1 x fuel pump

Hirth 3203 (65hp) Engine assembly pack : \$8,910

- 1 x Hirth 3203V with:
 - 180 Deg exhaust
- 1 x After muffler kit
- 1 x Electric and pull starter
- 2 x Air filter
- 1 x Regulator rectifier
- 1 x Starter solenoid
- 1 x Fuel pump

Hirth 3202 (55hp) Engine assembly pack : \$8,510

- 1 x Hirth 3203V with:
 - 180 Deg exhaust
- 1 x After muffler kit
- 1 x Electric and pull starter
- 2 x Air filter
- 1 x Regulator rectifier
- 1 x Starter solenoid
- 1 x fuel pump

Engine control pack (Hirth and Rotax): \$410

- 1 x Throttle control and grips
- 1 x Choke control
- 1 x Throttle and choke cable kit

Optional accessories / parts:

- 1 x Viper 4/5 Engine cover **\$360**
- 1 x Viper 5X Engine cover **\$430**
- 1 x Elevator kit for V4 Duct **\$1,400**
- 1 x Hirth—Oil Injection system and oil tank including modified throttle cable **\$700**
- 1 x Hirth—Fuel injection **\$1,500**

Important Note:

The 55hp 3202 Hirth uses the original plywood engine cover or the optional Viper 4 engine cover.

The 3203 Hirth uses the optional Viper 4/5 engine cover.

The 582 Rotax uses the optional Viper 5X engine cover.

Without optional engine cover for the 3203 and 582, the plywood engine cover will need to be altered for clearance.

The 55hp 3202 Hirth uses the uses the early Viper 4 fan duct. It has no flow straightener vanes or elevator system. A optional elevator system is available.

The 65hp Hirth and the 65hp Rotax use the current Viper 5 fan duct. Flow straightener vanes and elevator system is included.

When using the larger Viper 5 duct, minor alterations to rear deck and engine bay panels are needed. These alterations are explained in the power module assembly instructions supplied with the kit.