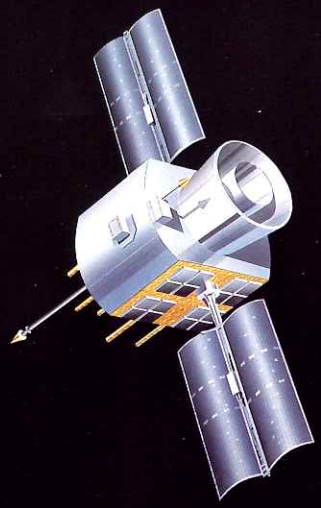
JRC GPS NAVIGATOR

JLR-6800

GPS/NAVSTAR (Global Positioning System/Navigation System with Timing And Ranging)



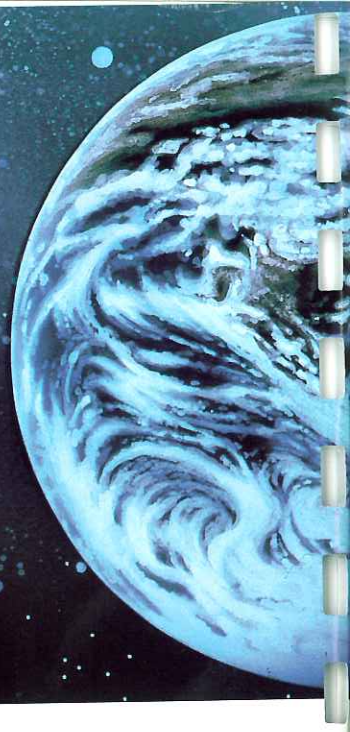
8-channel GPS receiver for highly accurate positioning

Differential GPS Function

JRC Japan Radio Co., Ltd.

The JLR-6800 GPS Ensures Extremely High Positioning Accuracy

The Global Positioning System is a constellation of 21 satellites and 3 spares orbiting some 11 miles above the earth. These satellites provide an all-weather, continuous 24-hour service for two- and three-dimensional position fixing with an extremely high accuracy to an unlimited number of authorized users.
The JLR-6800 maintains fully automatic, continuous tracking of available satellites. It receives their orbital data to calculate its position, speed and time with extremely high accuracy. The JLR-6800 of compact, lightweight and rugged design can flexibly been installed anywhere on every size and type of boat and ship.



FEATURES

Multichannel Reception

The multichannel GPS navigator receives the orbital data of up to 8 satellites simultaneously by JRC's unique advanced software and ensures highly accurate and stable position fixing.

Fully Automatic Reception and Positioning

Once it is powered on before the initial data (position/date) is entered, the JLR-6800 automatically starts operating. Its satellite selection, receiving and position fixing are under microprocessor control. The correction to a magnetic compass bearing and the geodetic correction are also automatic.

Various Navigational Functions

The JLR-6800 can indicate not only positional data such as latitude/longitude, (eventually altitude), course and speed, but also various navigational data including waypoints, distance, bearing and time to go to a destination, and course deviation. In addition, it can offer sophisticated functions such as route tracking, clock and stop-watch, course made good, velocity along route, and velocity toward destination.

Differential GPS Function

The JLR-6800 can receive the differential GPS data from the beacon receiver and improves the accuracy of position fixing remarkably.

Easy-to-See Large LCD and CDI

The JLR-6800 incorporates an easy-to-see, back-lit large liquid crystal display (LCD) which can indicate all necessary data simultaneously. It also offers a course deviation indication (CDI) in the form of an easy-to-see bargraph on the LCD screen, facilitating accurate rudder control for safety of navigation.

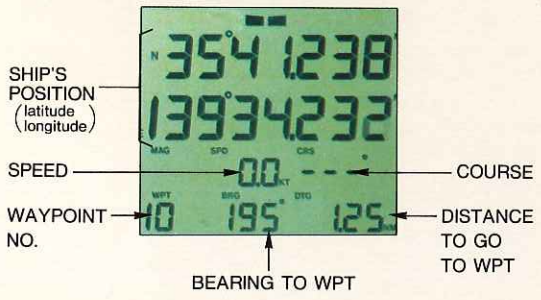
Ample Options

The JLR-6800 can interface with various optional devices such as a color plotter, a hardcopy printer, a DR interface, versatile functionality.

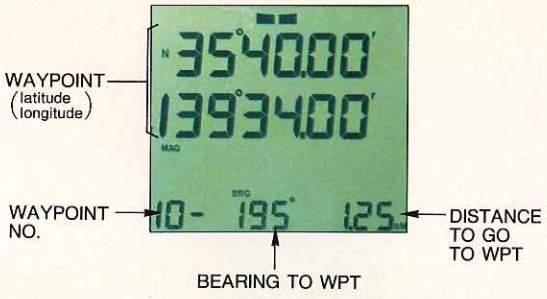
The JLR-6800 GPS Navigator is designed for use with the Phase II Full Scale Development and Test System as of 1992. JRC is not responsible for any possible multifunction of the equipment which may be caused by a partial change of the System in future.

DISPLAYS

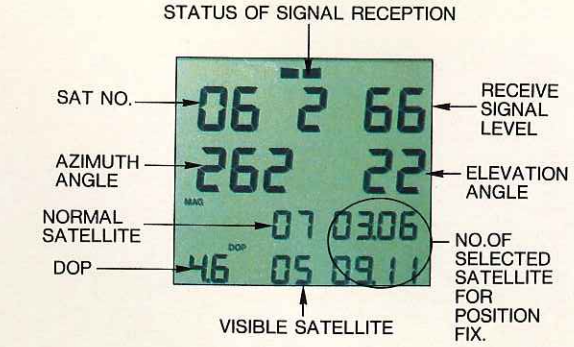
POSITION



WAYPOINT



SATELLITE



SPECIFICATIONS

Measuring accuracy:	Position	15m RMS
	Speed	0.2knot RMS
		(When HDOP≦2.5, without SA)
Receiving frequency:		1575.42MHz (L1, C/A code)
Receiving sensitivity:		−130dBm
Dynamic range:		25dB
Signal acquisition and tracking:		Fully automatic by microcomputer control
Differential GPS function:		Comply with RTCM SC-104 data format (Type 1, 2, 9)
Maximum number of tracked satellites:		8
Manual data entry:		By key switches
Data display:		Large LCD
Back lighting:		EL for LCD and lamps for key switches
Waypoint memory capacity:		99 points
Memory protection:		By internal back-up battery
Clock:		Internal permanent quartz clock
Route function:		I route by setting beginning point and ending point
Display items:		Position (latitude/longitude and altitude) Course and speed Date and time Satellite data Range, bearing and time to destination Course deviation
Audible alarms:		Arrival, anchor watch, off-course and boundary
Correction:		Position correction (geodetic datum/manual) Magnetic compass correction (automatic/manual)
Data ports:		3 indepent user selectable (NMEA0180/NMEA0183/JRC) 1 for RS-232C or RS-422
Power supply:	Standard	DC10~40V, 12W or less
	Option	AC100~115V/AC220~230V ±10%
Operational temperature:	Antenna	−25~+70°C
	Receiver indicator	−15~+55°C

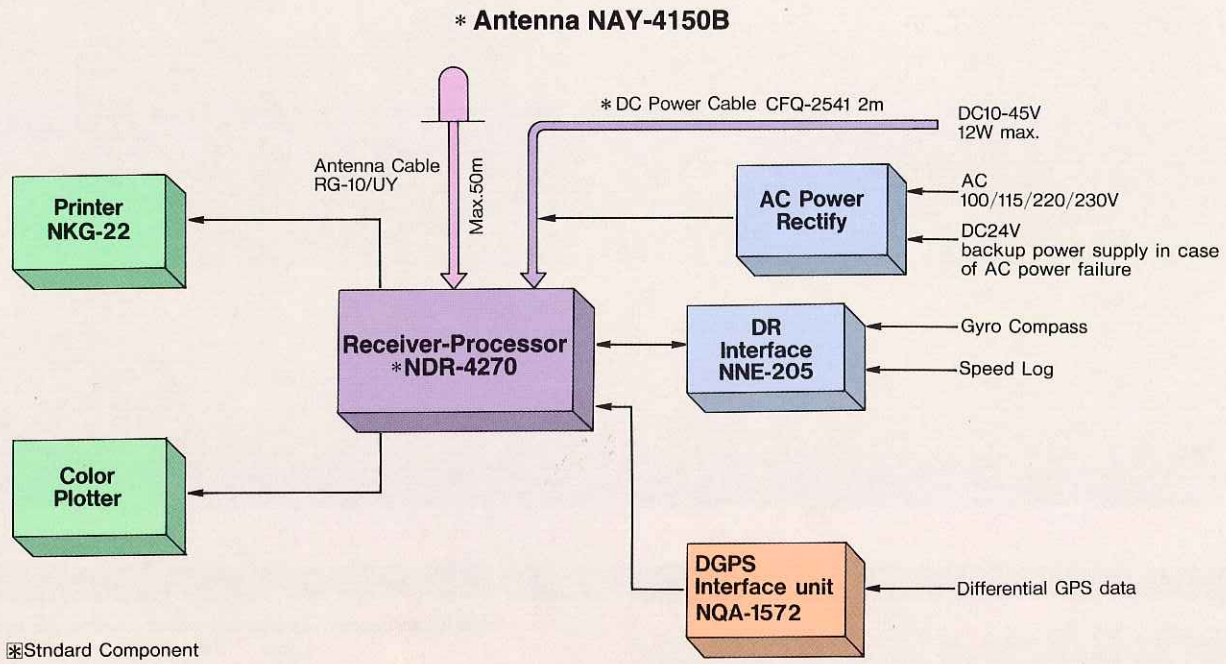
STANDARD COMPONENTS

Component	Model	Q'ty
Receiver-Indicator	NNN-6800	1
Antenna	NAY-4150B	1
Antenna Connector	N-P1006	2
DC Power Cable	CFQ-2541	1
Spare Parts		1 set
Instruction Manual		1 vol.
Operation Card		1 copy

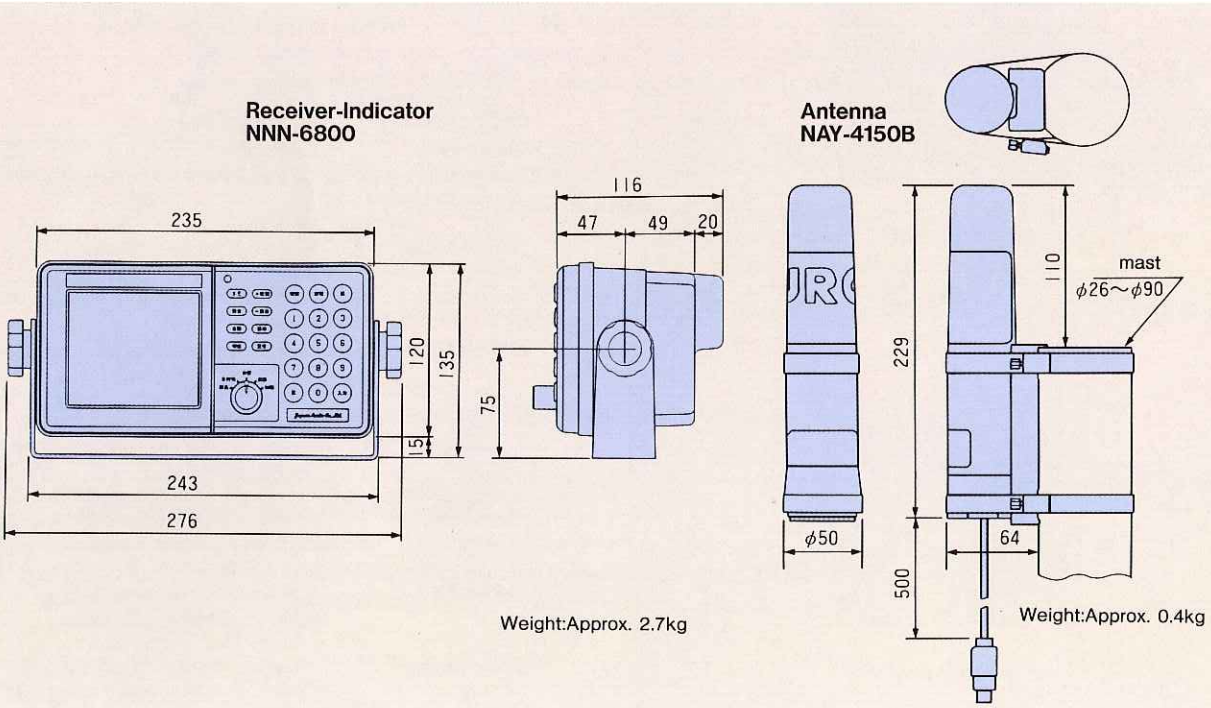
OPTIONS

AC Power Supply Unit, NBA-3581A/3747
DR interface, NNE-205
Printer, NKG-22
Color Plotter, NWU-300/55
Antenna Cable, RG-10/UY

■GENERAL SYSTEM DIAGRAM



■DIMENSIONS(mm)& WEIGHT



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