



# *MiniCommand*





## MiniCommand - Positive Control, Compact, Simple, Affordable

MiniCommand provides single lever control of electronically actuated diesel engines and marine transmissions in a robust, compact package.

Designed for pleasure craft up to 50 feet in length with a maximum of two control stations, the MiniCommand control processor incorporates the logic circuits for two engines in one compact package. This single unit design allows the MiniCommand processor to fit in smaller spaces while maintaining two completely separate operating systems.

MiniCommand can be equipped with the same control heads as the MicroCommander, CruiseCommand, and ClearCommand control systems. In addition, ZF Marine Electronics introduces the new 4200 Series control head a derivative of the popular 5200 series SmartCommand control head.

MiniCommand is a reasonably priced control system having features of control systems costing significantly more. MiniCommand continues the ZF Marine Electronics tradition of making boat handling and docking easy and effortless.

Normal-profile 4200  
Control Head



Low-profile 4200LP  
Control Head



MC2000 Control Head



463 Control Head

### Standard features of the MiniCommand system

- Start interlock - prevents the engine from starting while the transmission is in gear.
- Warm up mode - enables engine speed only with the transmission locked in Neutral. This allows the engine to get up to operating temperature more quickly in preparation for departure. Warm up mode is also useful for engine testing.
- Cruise mode - is the standard operating condition. In this mode the operator has single lever control of clutch and throttle with one lever for each engine. Two engine systems can easily be operated with one hand.
- Single lever mode - allows for multi engine operation of shift and throttle control utilizing one single lever.
- Automatic "open loop" engine synchronization - maintains the same speed on multiple engines. Engine synchronization improves fuel economy and reduces both noise and vibration.



### Available Options

- MiniCommand is compatible with ZF Marine Electronics 400, 500, 700, MC2000, and 4000 series control heads. Tournament levers and handheld controls can also be utilized.
- Automatic power selector - offers increased power supply redundancy.
- "Open loop" trolling valve control - available for transmissions with electronic trolling valves. This feature controls clutch slippage for

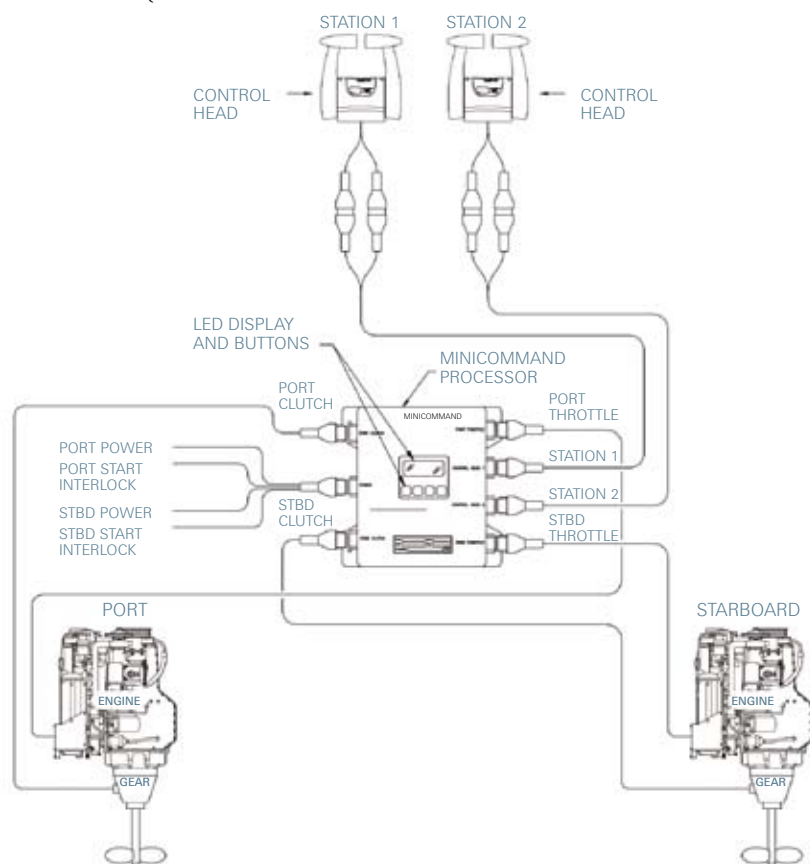
hull speeds lower than engine idle rpm. The same control heads used for clutch and throttle enable trolling valve operation in an unlimited range without additional switches. The MiniCommand processor can be ordered with or without trolling function.

### Technical features

- Compatible with 12 or 24 volt systems.
- Diesel engines only.
- Maximum two stations.
- Two electronic throttle outputs available:
  - Analog throttle output (PWM, 4-20MA, 0-5V, Frequency)
  - CAN Interface for VM Motori engines.
- Twin screw application built into one enclosure, with two microprocessors for redundancy (one for each engine and gear).
- Single lever control of transmission direction and engine speed.
- Proportional pause on emergency reversal protection.
- Two on/off solenoid outputs for transmission control (ahead and astern clutches).

- Start interlock relay contacts for safe engine start.
- Daylight viewable LEDs (light emitting diodes) for status indication.
- Audible tones for warnings and faults.
- Push buttons and display for ease in set up and troubleshooting.
- "Open loop" synchronization of engine speed.
- The MiniCommand processor is designed with side mounted plug connectors for quick and easy installations and neatly organized cable routing.

MI2002  
MiniCommand Processor



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