

Cat® Three60 Precision Control System

Cat® Three60 Precision Control is designed for use with Cat electronically controlled marine propulsion engines, combining thrusters and conventional propeller drives in one system.



The joystick controller and the lever head controller provide smooth operation and high confidence when maneuvering using two modes:

The Lever Mode

- Controls the conventional propeller drive trains using the lever head controller
- Controls the thrusters using the optional thruster control panels

The Joystick Mode

- Controls the conventional propeller drive trains and thrusters using the joystick controller

CUSTOMER BENEFITS

- Remarkably easy to learn
- “Push, twist, and go” directional maneuvering
- Superior slow speed vessel control
- Access to full or incremental power in any direction
- Smooth shifting from forward to reverse and propeller control down to 50 rpm

FEATURES

- Revolutionizes docking and slow speed maneuvering for diesel powered, conventional driveline vessels
- Simultaneously actuates and controls engines, transmissions, and thrusters with intuitive, easy fingertip movements
- Instantaneously controls all aspects of vessel direction and speed
- Eliminates rudder and control lever activities during docking
- Hydraulic thrusters will not time out – a benefit over electrical thrusters
- Propeller control down to 50 rpm

SCOPE OF SUPPLY

Mandatory Equipment

Electrical System

Power Train Controller (2)
Joystick Controller (1)
Lever Control Head (1)
Joystick (1)
Harnesses (10-12)

Hydraulic System

Bow Thruster, Lube Kit (1)
Bow Tunnel (1)
Manifold (1)
Pump, Oil Cooler (2)
Heat Exchanger (2)
Reservoir (1)

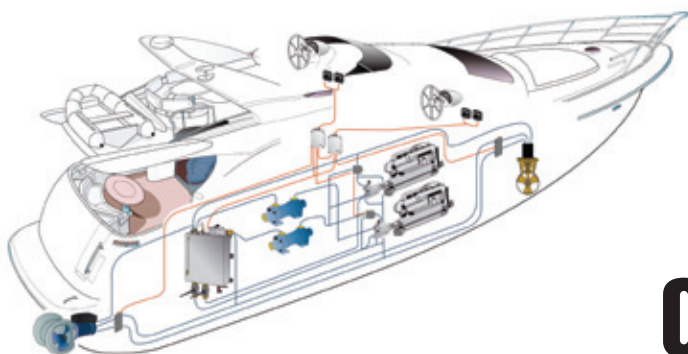
Optional Equipment

Electrical System

Lever Control Head (2)
Digital Joystick (7)
Digital Thruster Control Panel (8)
Joystick Harness (7)
Palm Beach Control Head

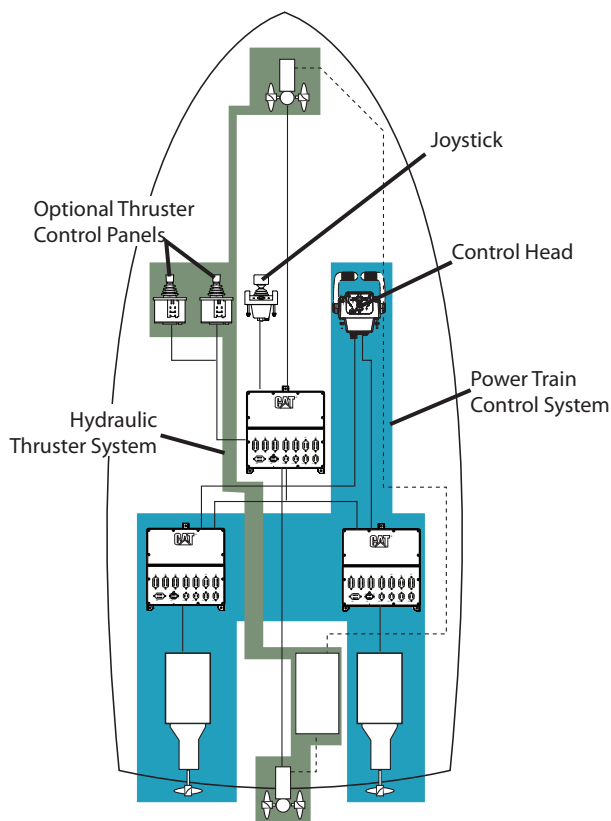
Hydraulic System

Stern Thruster (1)
Stern Tunnel (1)
Reservoir (1)



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TYPICAL SYSTEM CONFIGURATION



SYSTEM REQUIREMENTS

Along with Cat electronically controlled marine propulsion engines, this system requires Twin Disc QuickShift® transmissions, throttle control, electrical harnesses and sensors, bow thruster, and hydraulic system components.

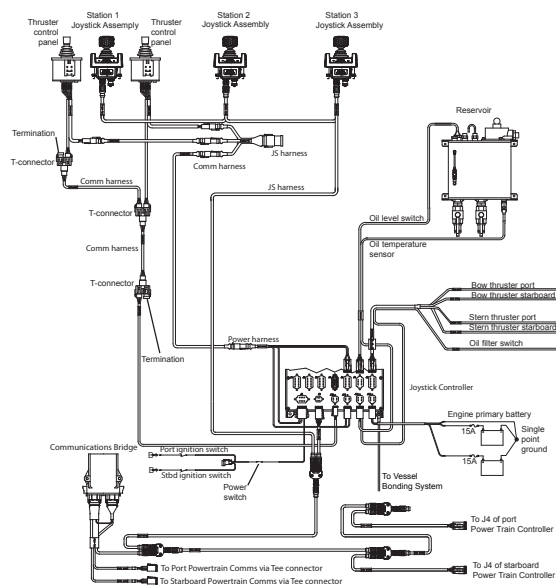
THRUSTER OPTIONS

Thruster options are dependent on vessel length, displacement, and power. The thruster option then determines the tunnel length and inner diameter.

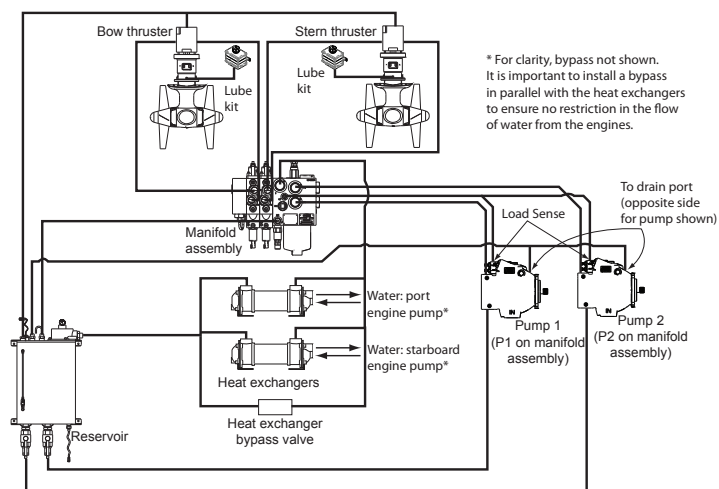
CT220	42-78' open, 49-75' fly, 485 lbs nominal thrust
CT300	56-102' open, 59-92' fly, 661 lbs nominal thrust
CT400	65-115' open, 69-108' fly, 881 lbs nominal thrust
CT550	88-124' open, 92-118' fly, 1213 lbs nominal thrust
CT600	95-141' open, 98-134' fly, 1323 lbs nominal thrust

NOTE: These guidelines are approximate. The system must be specifically designed for each vessel. Please refer to the A&I guide (LEBM0006).

ELECTRICAL SYSTEM – JOYSTICK



HYDRAULIC SYSTEM



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LEHM0059-01
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