

F200/F150

INTEGRATED STEERING

Yamaha Brings Integrated Steering to Popular F200 and F150 Outboards

Yamaha's esteemed F200 and F150 DEC and Mechanical outboards now feature a newly designed look and integrated steering; a level up in smart control options with the advent of integrated electro-hydraulic steering for the 2.8L DEC models and integrated hydraulic steering for the 2.8L and 2.7L mechanical models.

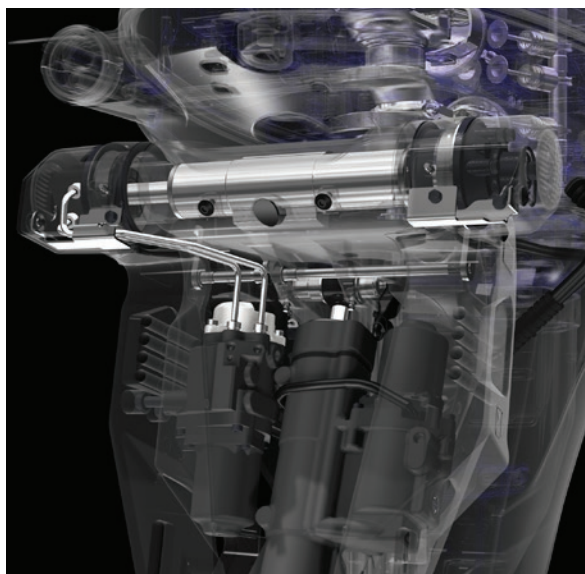
Integrated steering allows boat builders to use the space savings and streamlined appearance to create more feature-rich, desirable boats with premium benefits. These new four-cylinder integrated steering models expand this ability to even more models of single and twin outboard-powered craft so more boaters can experience the same first-class control, convenience, and comfort. Initially, F200 DEC models available solely in Yamaha's pearlescent white, F150 DEC models available in pearlescent white and traditional gray, and mechanical models available in traditional gray, with both colors becoming available across all models in the future.



F200 DEC Model

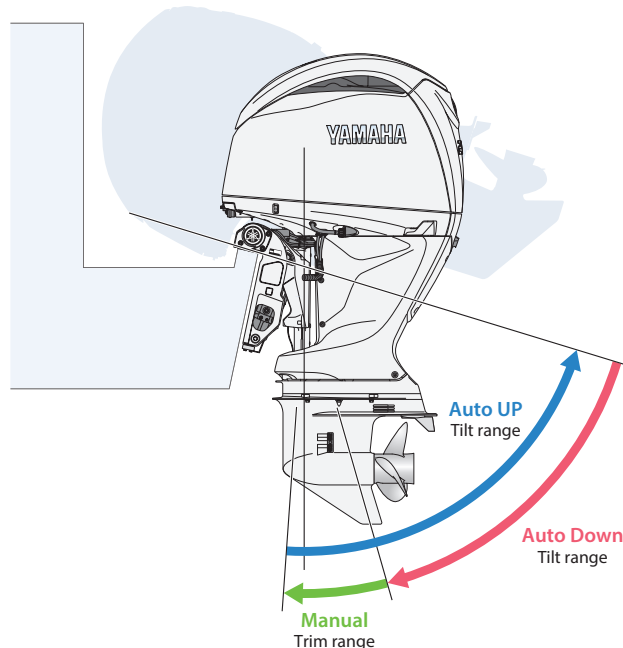
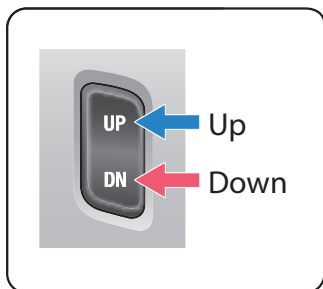
INTEGRATED ELECTRO-HYDRAULIC STEERING: 2.8L F200/F150 DEC

This plug and play system uses less rigging component real estate. The electric helm employs steer-by-wire technology to engage the low profile, under cowling Steering Control unit and to control the hydraulic pump, which is tucked neatly into the bracket, outside of the boat. Electro-hydraulic steering-equipped outboards offer smooth, responsive power steering that's fully compatible with the complete Helm Master® EX system, including the Full Maneuverability Joystick package. The compact construction of integrated electro-hydraulic steering also provides more bilge, splash well and transom space than conventional steering systems.



Also new for 2.8L F200 and F150 DEC models is the addition of Yamaha's TotalTilt® feature for faster, easier engine tilting. It allows complete tilt up from any position with a simple double-push of the "UP" trim/tilt button, or full tilt down (to bottom of tilt range) by the same double push of the "DOWN" trim/tilt button. For safety, a warning horn will sound just before and during these operations. The operator can stop movement and the horn anywhere in between by pressing the tilt button again.

TotalTilt comes the factory defaulted to "OFF." Use the Yamaha CL5 or MFDI-equipped display to change the default setting if this function is desired. Be sure to consult the owner's manual for instructions.



INTEGRATED HYDRAULIC STEERING: 2.8L F200 AND 2.7L F150 MECHANICAL

One of Yamaha's most popular outboard families now offers the convenience of integrated hydraulic steering. Featuring the same new streamlined look as the electro-hydraulic steering models, these outboards combined a conventional hydraulic helm and lines* with an integrated hydraulic cylinder. Simple in design yet offering all the space-saving, premium benefits of integrated steering, new 2.8L F200 and 2.7L F150 mechanical models offer a fresh look and smooth, precise non-powered control.

Available for single and twin outboard applications**, the new integrated hydraulic steering system propels one of Yamaha's most popular outboard families into the next generation of enhanced boating experiences.

*Helm and hydraulic lines from helm to outboard purchased separately.

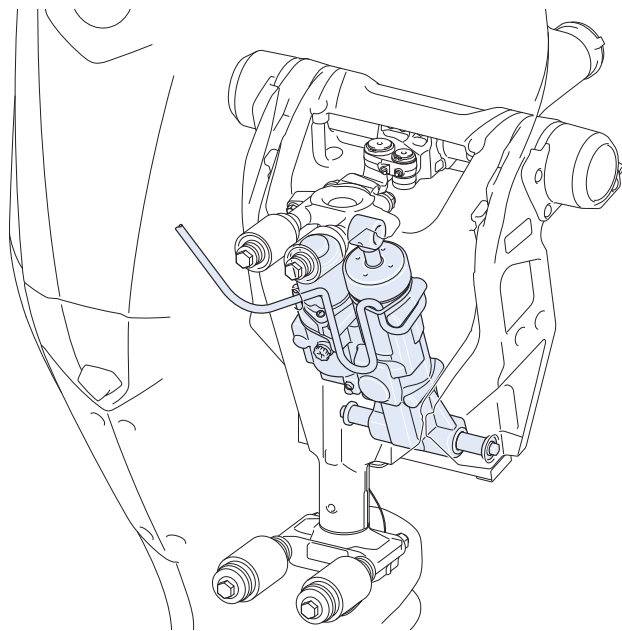
**A tie bar is required for twin applications.



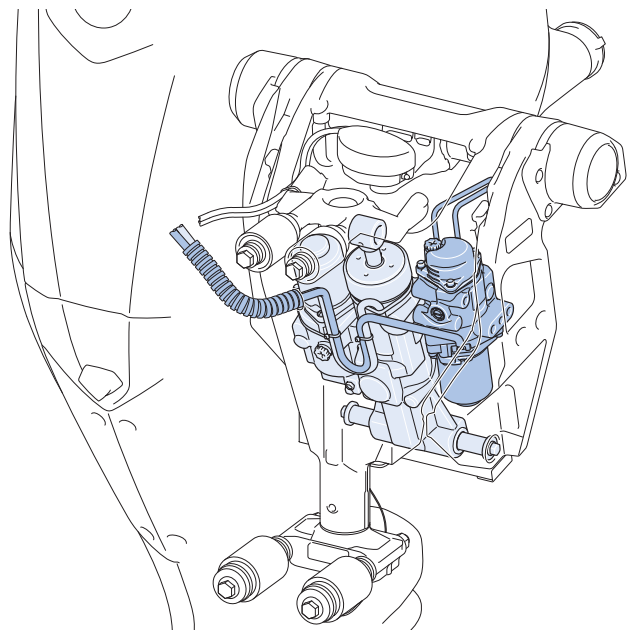
F150 and F200 Mechanical models

INTEGRATED STEERING SYSTEMS: A SIDE-BY-SIDE COMPARISON

The new 2.8L and 2.7L outboards use the same mounting footprint as their predecessor and can be installed by boat builders or dealers.



Integrated hydraulic steering system



Integrated electro-hydraulic steering system

FEATURES MAP - 2.8L F200/F150 DEC

- ECM control system
- Variable trolling RPM
- Digital Electronic Control (DEC)
- 50-Amp high output alternator
- Closed fuel vapor system
- Fuel vaporization control system
- Large water separator with water sensor

- 2 factory colors
- Elegant, sleek, lightweight design
- Plastic lightweight bottom cowling
- Intake air draining system

- Bolted flywheel
- 16-valve, DOHC, In-line 4
- Multi-point electronic fuel injection
- Direct ignition
- Variable Camshaft Timing (VCT)
- Offset crankshaft
- Twin balance shaft
- Long intake manifold/Precise single throttle
- Blow-by gas reburning system
- Tensioner
- 4 into 1 exhaust system

- Integrated electro-hydraulic steering system
- TotalTilt™ function with integrated tilt limit
- Long span mounting system

- Special treatment strong gears
- Shift Dampener System (SDS)
- Counter rotation system

Rigging Accessories

- Propeller light (optional)
- Helm Master™ EX compatibility

YAMAHA Ideal Anti-Corrosion System

- Special aluminum alloy:YDC30
- Self-sacrificing anodes
- Freshwater flushing device
- Electrodeposited inside/outside paint process
- Anodic exhaust coating (alumite)

Warning & Protection

- Over-heat warning
- Over-rev limiter
- Low oil pressure warning
- Knock control
- Fail-safe system
- Yamaha Diagnostic System (YDIS)
- Start-in-gear protection
- YAMAHA immobilizer

INTEGRATED STEERING MODEL AVAILABILITY*

Outboard Model #	DEC Model	Mechanical Model	Jet Model	Weight (kg)	Weight (lbs)
F150XSA	X			237	522
LF150XSA	X			237	522
F150XSA2	X			237	522
LF150XSA2	X			237	522
F200XSA2	X			238	525
LF200XSA2	X			238	525
F150LC		X		231	509
LF150LC		X		231	509
F150XC		X		238	525
LF150XC		X		238	525
F200LC		X		234	516
F200XC		X		235	518
LF200XC		X		235	518
F150JC			X	225	496

Note the following models are discontinued:
F175LA, F175XA, F175LCA, F175XCA and LF175XCA.
The VF175 SHO models remain in production.

*Anticipated availability is Spring 2023

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REMEMBER to always observe all applicable boating laws. Never drink and drive. Dress properly with a USCG-approved personal floatation device and protective gear. Boat smart from the start. Take a boating safety course and get a free vessel safety check annually for your boat. For more information, contact: United States Coast Guard Auxiliary online at www.cgaux.org, or United States Power Squadrons at 888-for-usps or www.usps.org.

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