

DIESEL OUTBOARD MOTORS

D27/D36
19.9~26.5kW(27~36hp)

YANMAR

Diesel Outboards that Work

Boat owners quickly relate to the strong advantages of diesels.

- lower chance of electrical trouble.
- much better fuel efficiency.
- long, reliable work-filled life.

When all 3 are combined, the case for a diesel becomes overwhelming. But what about small boats? Virtually unobtainable? That was until Yanmar launched its D series diesel outboards, creating waves of excitement amongst user and the industry alike!

Now instead of fickle performance common to so many gasoline engines, the diesel outboard presents operational savings and long-term strengths that make pure sense to the commercial operator.

Good for Long Hours at Low Revs

For trolling, working nets, fish farms, for any low speed operation the diesel can't be equalled. The special combustion chamber, new cooling system (with double thermostats) allow long hours of idling, cooling water temperature is kept high by the seawater thermostat, and at high speed the exhaust temperature thermostat lowers the cooling water temperature. The engine responds to the work speed.

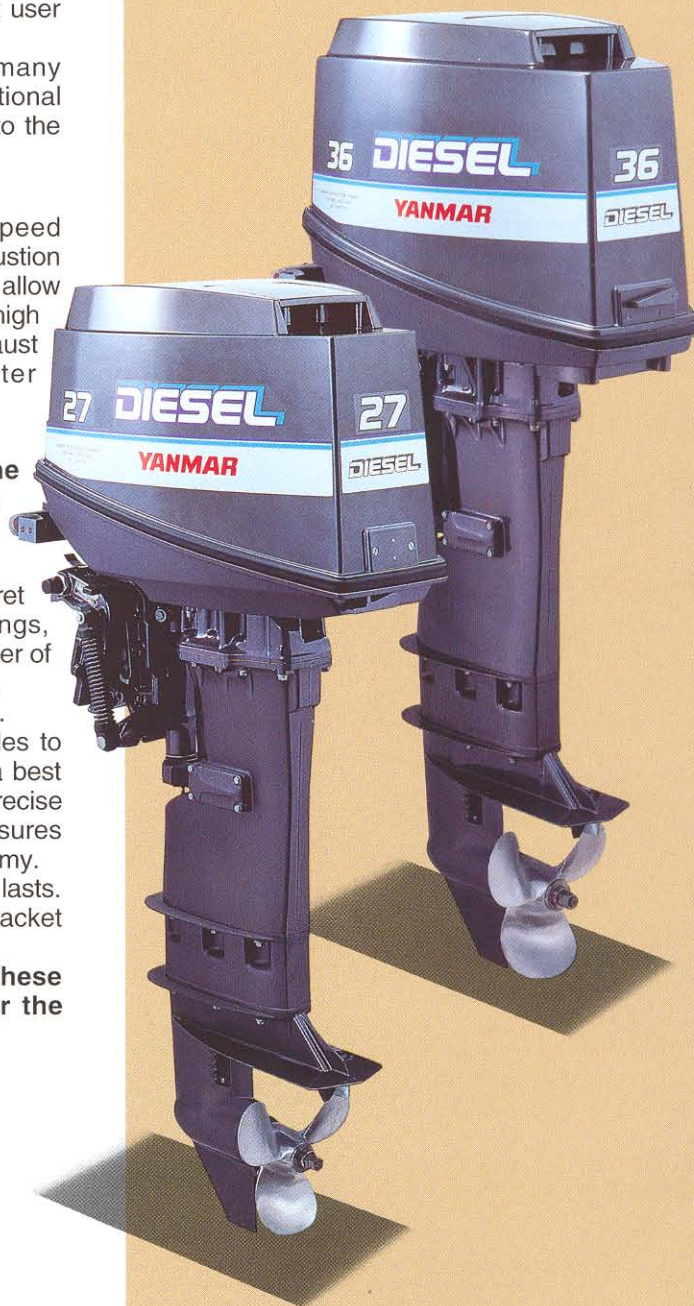
A New Diesel Image

The shriek of the gas outboard is replaced by the domesticated throb of a diesel. Easy on your mind, easy on the neighbors.

Technically Superior

A unique one piece aluminum block and head is one secret of this remarkable outboard. Substantial weight savings, dispensing with head gaskets, and removing also a number of potential leak sources; these are all very real advantages. Special cast iron cylinder liners are bonded into the block. Miniature fuel injection pumps are combined with nozzles to form "unit injectors" which are super-compact, and are a best match for these high-speed, direct injection engines. Precise fuel metering, quick response, extra high injector pressures helps smoother running, cleaner exhausts and fuel economy. High protection and high finish give you an outboard that lasts. With 5 painting processes, and anodes on both the bracket and the case, your unit is protected inside and out.

With reliable power and a heart to work all day, these engines have truly marked a "coming of age" for the diesel outboard.



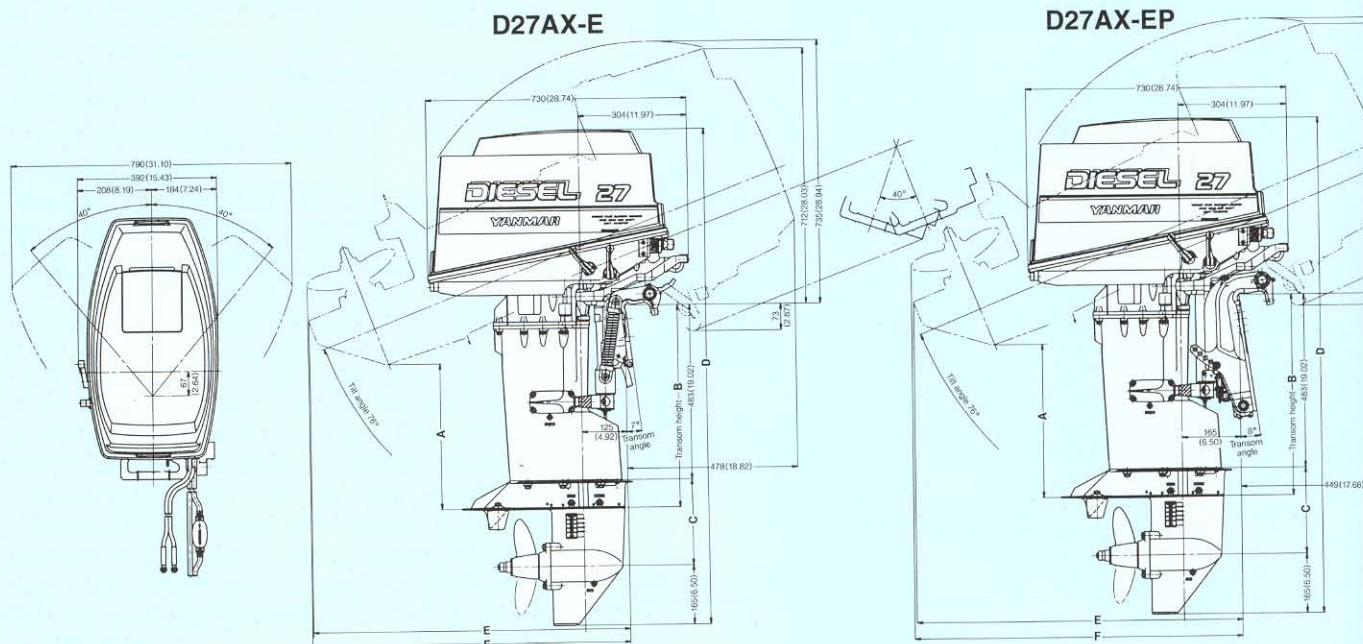
Photograph may show optional equipment.

SPECIFICATIONS

Model			D27		D36	
Type			AX-E	AX-EP	AX-E	AX-EP
Engine						
Type			4-cycle, Water cooled, Vertical Crankshaft Diesel Engine			
No. of cylinder			3			
Bore × stroke		mm (in.)	70 × 70 (2.76 × 2.76)		82 × 70 (3.23 × 2.76)	
Displacement		cc (cu. in.)	808 (49)		1109 (68)	
Max. output		hp(kW)/rpm	27(19.9)/4500		36(26.5)/4500	
Combustion system			Direct injection			
Cooling system			Direct sea-water cooling by rubber impeller pump			
Lubrication system			Forced lubrication with trochoid pump			
Starting system			Electric with emergency rope start			
Generator			AC dynamo built in flywheel, 12V-10A			
Drive device						
Clutch type			Dog type clutch			
Reduction ratio		Ahead/Astern	1.846/1.846			
Direction of rotation			Clockwise viewed from propeller			
Lubrication system			Oil bath			
Tilt up system			Manual	Hydraulic	Manual	Hydraulic
Control device						
Engine speed control			Remote control, Detail for optional accessories.			
Clutch control						
Steering						
Transom installation			Through bolts with nuts			
Fuel oil			Diesel fuel oil or kerosene (Add lube oil, 30:1)			
Fuel oil tank capacity		ℓ(cu. in.)	24 (1465)			
Lube oil			Engine: SAE 15W40, API CD/Drive: SAE 80W90, API Gear oil #90			
Dry weight	L-type	kg (lbs)	94 (207)	102 (225)	116 (256)	120 (265)
	LL-type	kg (lbs)	95 (209)	103 (227)	117 (258)	121 (267)
	UL-type	kg (lbs)	96 (212)	104 (229)	118 (260)	122 (269)

DIMENSIONS Unit: mm(in.)

D27



D27AX-E

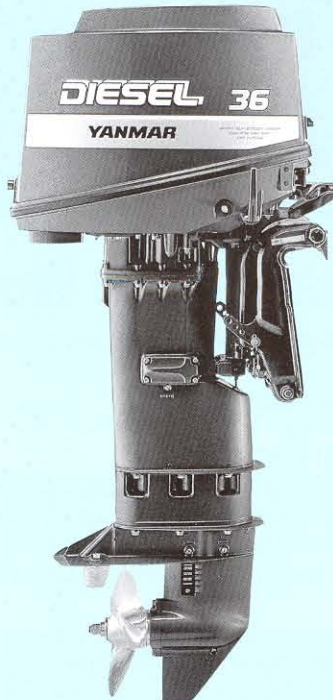
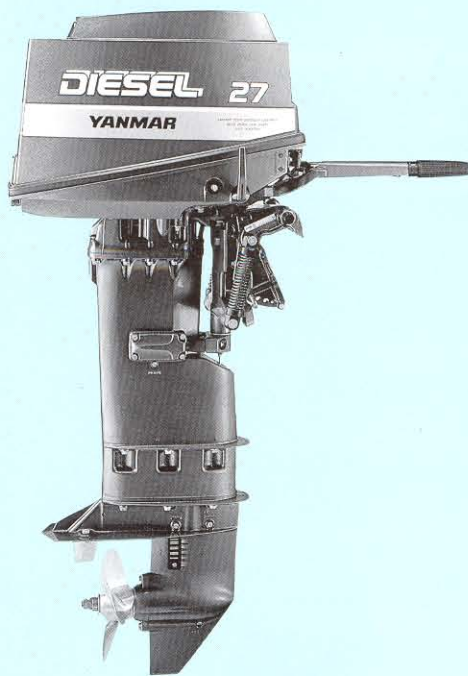
	A	B	C	D	E	F
L-type	402 (15.83)	560 (22.05)	239 (9.41)	1380 (54.33)	889 (35.00)	892 (35.12)
LL-type	442 (17.40)	623 (24.53)	302 (11.89)	1443 (56.81)	947 (37.28)	952 (37.48)
UL-type	482 (18.98)	685 (26.97)	364 (14.33)	1505 (59.25)	1005 (39.57)	1009 (39.72)

D27AX-EP

	A	B	C	D	E
L-type	428 (16.85)	560 (22.05)	239 (9.41)	1380 (54.33)	911 (35.87)
LL-type	467 (18.39)	623 (24.53)	302 (11.89)	1443 (56.81)	971 (38.23)
UL-type	506 (19.92)	685 (26.97)	364 (14.33)	1505 (59.25)	1021 (40.16)

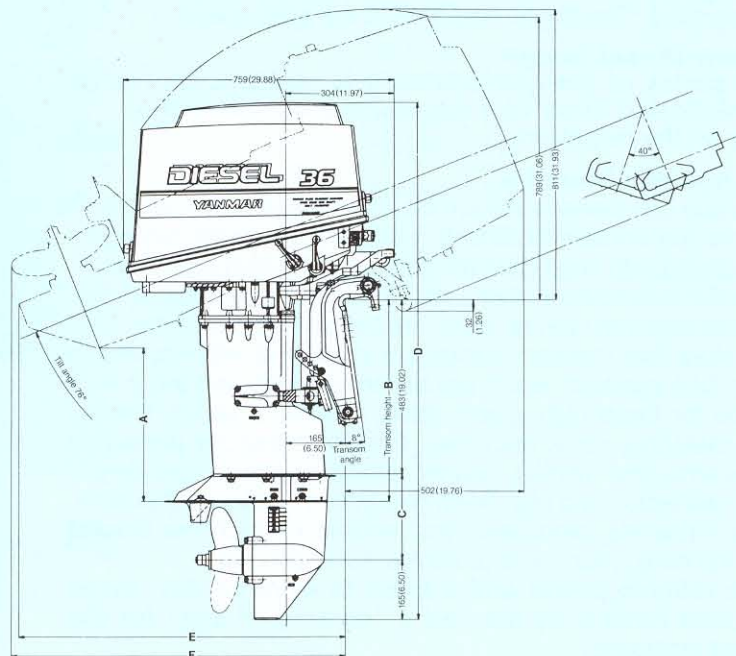
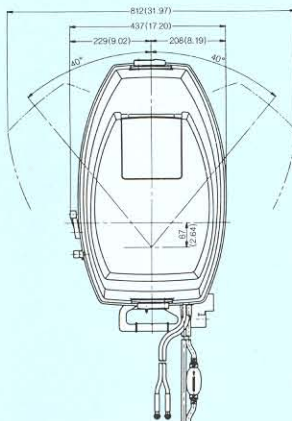
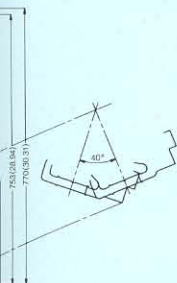
D27

D36



Bar handle available as option

D36



F
918 (36.14)
977 (38.46)
1034 (40.71)

D36AX-E

	A	B	C	D	E	F
L-type	428 (16.85)	560 (22.05)	239 (9.41)	1438 (56.61)	913 (35.94)	934 (36.77)
LL-type	467 (18.39)	623 (24.53)	302 (11.89)	1501 (59.09)	971 (38.23)	993 (39.09)
UL-type	506 (19.92)	685 (26.97)	364 (14.33)	1563 (61.54)	1029 (40.51)	1051 (41.38)

ACCESSORIES

○ : Standard ▲ : Option × : Not available

Accessories	Model	D27		D36	
		AX-E	AX-EP	AX-E	AX-EP
Transom length, L-type, 560 mm		○	○	○	○
Transom length, LL-type, 623 mm		○	○	○	○
Transom length, UL-type, 685 mm		○	○	○	○
Charging dynamo, 12V-10A		○	○	○	○
Charging dynamo, 12V-20A		▲	▲	▲	▲
Bolts & nuts for outboard motor clamp		○	○	○	○
Remote control bracket for engine speed & clutch shift control		○	○	○	○
Remote control bracket for steering control		○	○	○	○
Bar handle control		▲	▲	▲	▲
Hydraulic tilt switch		×	○	×	○
Spare parts kit		▲	▲	▲	▲
Half tilt device		▲	▲	▲	▲
Special overhauling tool kit		▲	▲	▲	▲
F.O. tank (24ℓ), hose 2 m & connect parts		○	○	○	○
Tool kit		○	○	○	○
Operation manual		○	○	○	○
Propeller clamp kit		○	○	○	○
Propeller, 3-10.5 × 9		▲	▲	×	×
Propeller, 3-10.5 × 9.5		▲	▲	×	×
Propeller, 3-10.5 × 10		▲	▲	×	×
Propeller, 3-10.5 × 10.5		▲	▲	×	×
Propeller, 3-10.5 × 11		▲	▲	×	×
Propeller, 3-10.5 × 11.5		▲	▲	×	×
Propeller, 3-10.5 × 12		▲	▲	×	×
Propeller, 3-10.5 × 12.5		▲	▲	×	×
Propeller, 3-10.5 × 13		▲	▲	×	×
Propeller, 3-11.5 × 9		×	×	▲	▲
Propeller, 3-11.5 × 10		×	×	▲	▲
Propeller, 3-11.5 × 10.5		×	×	▲	▲
Propeller, 3-11.5 × 11		×	×	▲	▲
Propeller, 3-11.5 × 11.5		×	×	▲	▲
Propeller, 3-11.5 × 12		×	×	▲	▲
Propeller, 3-11.5 × 12.5		×	×	▲	▲
Propeller, 3-11.5 × 13		×	×	▲	▲
Propeller, 3-11.5 × 14		×	×	▲	▲
Propeller, 3-11.5 × 15		×	×	▲	▲
*Remote control Ass'y, S-type (Standard) (included: Starter switch, Manual engine stop, L.O. alarm lamp)		○	○	○	○
*Remote control Ass'y, A-type (included: Starter switch, Manual engine stop, Type 2 panel, Wireharness 5 m, 2 m, Alarm panel)		▲	▲	▲	▲
*Remote control Ass'y, B-type (Included: Engine stop solenoid, Wireharness 2 m, Extension wireharness 5 m)		▲	▲	▲	▲
*Remote control Ass'y, C-type (Included: Remote control head NA12, Engine stop solenoid, Wireharness 2 m, Extension wireharness 5 m)		▲	▲	▲	▲
*Remote control Ass'y, D-type (Included: Remote control head NA12, Engine stop solenoid, Wireharness 5 m, 2 m, Alarm panel with Tachometer, Hour meter)		▲	▲	▲	▲

*Refer to detail table

DETAILS OF REMOTE CONTROL ASS'Y

● : Equipped on Eng. ○ : In packing × : Not included

Ass'y Name			S	A	B	C	D
Engine Speed Governor Shift	Remote control head	Model NA12 inc. Start, Stop, Kill & Tilt switch	×	×	×	○	○
	Cable Bracket		○	○	○	○	○
	Push pull cable	Local supply	×	×	×	×	×
Steering	Handle	Local supply	×	×	×	×	×
	Bracket (Connecting kit)		○	○	○	○	○
Starting Device	Starter switch	Switch	●	○	×	×	×
		inc. Handle: NA12	×	×	×	○	○
	Relay		×	●	●	●	●
Engine Stopping Device	Lever stop (Manual type)		●	×	●	●	●
	Manual stop cable, 7m		×	○	×	×	×
	Engine stop solenoid & Relay		×	×	●	●	●
Kill-SW.	inc. Handle: NA12 (Electric)		×	×	×	○	○
Lube oil Alarm lamp	Equipped on Eng.		●	×	×	×	×
Tachometer sensor			×	×	×	×	●
Tilt SW.	inc. Handle: NA12		×	×	×	○	○
Instrument panel	Type 2 panel	Bracket for engine stop knob and blind cover	×	○	×	×	×
Alarm panel	Lamps	Overheat, L.O. pressure and dynamo charge	×	○	×	×	○
	Buzzer	Overheat, L.O. pressure and dynamo charge					
	Tachometer & Hour meter		×	×	×	×	○
Wire-harness	Engine side	Engine side wireharness	●	×	×	×	×
		2m length, 1 pc. 2m length (Alarm), 1 pc.	×	●	×	×	×
		2m length, 1 pc. 2m length (Alarm), 1 pc.	×	×	●	●	●
	Panel side	5m, Type 2, 1 pc. 5m (Alarm), 1 pc.	×	○	×	×	×
		5m (Alarm), 2 pc.	×	×	×	×	○
	Extension	5m, inc. Tilt extension 1 pc. 5m (Alarm), 1 pc.	×	×	○	○	○

Note: All data subject to alteration without notice.

YANMAR DIESEL ENGINE CO., LTD.



1-32, Chayamachi, Kitaku, Osaka 530-8311, Japan
Telephone: 06-6376-6411 Facsimile: 06-6377-1242