Service Bulletin

Bulletin No. 2016-01
OEM No. 2016-01

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Important New Model Information—115 Pro XS FourStroke 2.1L

Models Affected

Models Covered	Serial Number Or Year
115 Pro XS FourStroke 2.1L	2B225488 and Above

Scope

Worldwide

Situation

The purpose of this bulletin is to highlight key features of the new 115 Pro XS FourStroke 2.1L models and how they differ from the standard production models. Refer to Outboard Service Bulletin 2014-01, Important New Model Information—75/80/90/100/115 FourStroke 2.1L for additional information common to these models.

- New 115 Pro XS specifications
- New 115 Pro XS top/lower cowl decals
- New 115 Pro XS maintenance decal
- New 115 Pro XS ECM calibrations
- Command Thrust (CT) or standard gearcase
- Flo-Torq propeller hub kit recommendations
- New 115 Pro XS propeller chart information

Specifications

Model	115 Pro XS
Full throttle RPM range	5300–6300 RPM
Idle speed RPM	700 RPM at operating temperature 700–800 RPM cold warm-up 700–800 RPM idle charge*
Troll control RPM range - optional accessory	550–1000 RPM

NOTE: *An asterisk (*) indicates that base idle RPM can automatically increase to as high as 800 RPM to compensate for a low battery charge condition. The higher idle RPM will allow the engine's charging system to charge the battery at a higher rate. The increased idle RPM setting will vary as needed to help maintain the battery state of charge. Activating the optional Troll Control accessory will override this battery compensation feature and maintain the desired Troll Control RPM as set by the operator.*

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115 Pro XS Top/Lower Cowl Decals

115 Pro XS top/lower cowl decals

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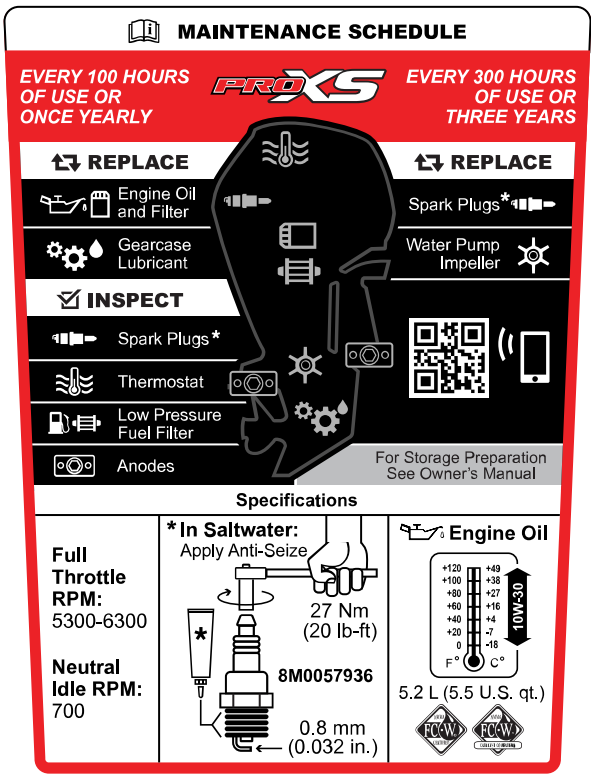
115 Pro XS Maintenance Schedule Decal

A maintenance schedule decal is applied to 115 Pro XS models. The full throttle RPM has been elevated from 5000–6000 RPM on the standard model 115 FourStroke 2.1L, to 5300–6300 RPM on the 115 Pro XS FourStroke 2.1L.



115 Pro XS ECM Calibrations

- Wide-open throttle range: 5300–6300 RPM
- Idle charge feature added
  - The ECM on this outboard model will compensate for a low battery voltage condition by running at an increased engine idle speed (from 700 to 800 RPM) to provide increased charging. Refer to the table below for expected charging under standard conditions.

    NOTE: *Standard conditions include; air temperature, water temperature, correct propeller, engine mounting, and normal electrical loads on the battery.*

Idle RPM		Net Charging (Amps)
700		5.0–6.0
Idle charge strategy is engaged	725	6.0–7.0
	750	6.5–7.5
	775	7.5–8.5
	800	8.0–9.0

- Engine serial number stored in ECM

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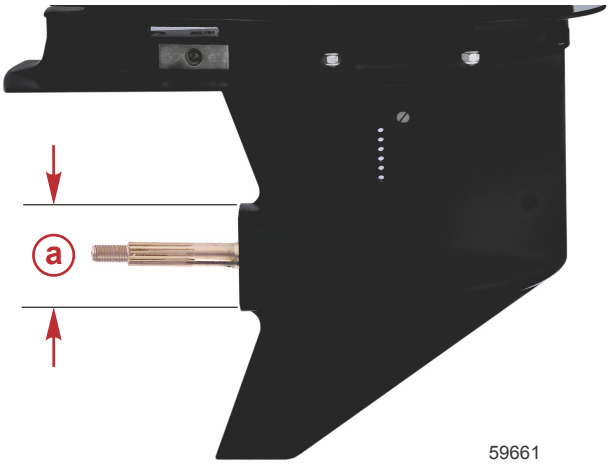
- Supports descriptive text faults or Mercury Universal fault codes

59656

Command Thrust (CT) or Standard Gearcase

115 Pro XS FourStroke 2.1L models are available with either a Command Thrust (CT) or standard gearcase.



59661

Standard gearcase—2.07:1 gear ratio

a - 4.2 in. torpedo diameter

59657

Command Thrust (CT) gearcase—2.38:1 gear ratio

a - 4.9 in. torpedo diameter

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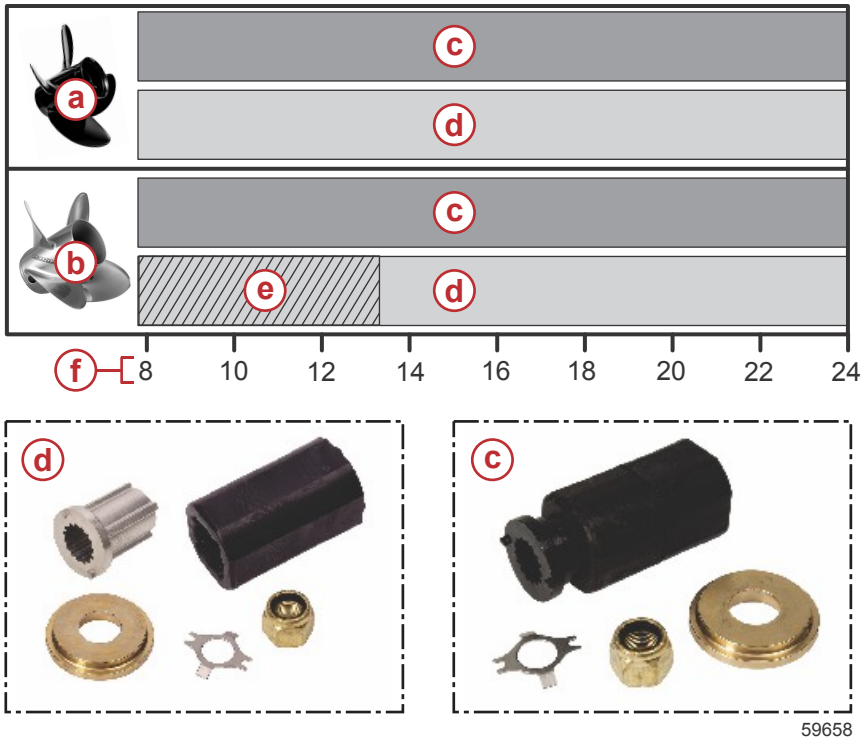
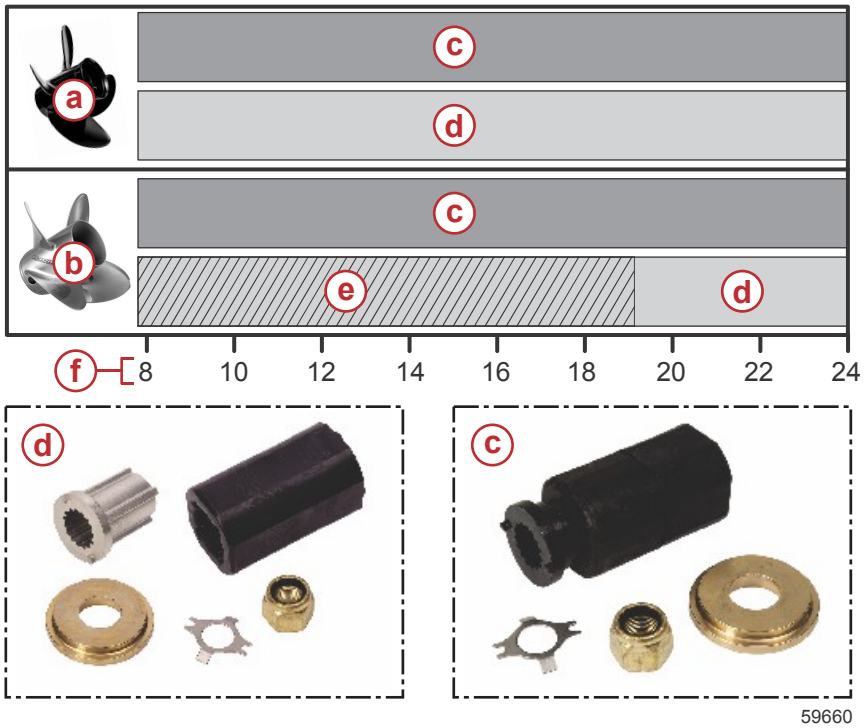
Flo-Torq Propeller Hub Kit Recommendations



Standard gearcase—2.07:1 gear ratio

- **a -** Aluminum propellers
- **b -** Stainless steel propellers
- **c -** Flo-Torq III hub
- **d -** Flo-Torq II hub
- **e -** Clutch rattle may occur
- **f -** Propeller pitch

Use Flo-Torq III hubs for best resistance to clutch rattle. Rattle will most likely be noticed when using a Flo-Torq II hub with stainless propellers less than 14 pitch.



Command Thrust (CT) gearcase—2.38:1 gear ratio

- **a -** Aluminum propellers
- **b -** Stainless steel propellers
- **c -** Flo-Torq IV hub
- **d -** Flo-Torq II hub
- **e -** Clutch rattle may occur
- **f -** Propeller pitch

Use Flo-Torq IV hubs for best resistance to clutch rattle. Rattle will most likely be noticed when using a Flo-Torq II hub with stainless propellers less than 20 pitch.

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Propeller Information Chart

115 Pro XS FourStroke 2.1L Standard Gearcase

- Wide-open throttle RPM: 5300–6300
- Recommended transom heights: 50.8 cm (20 in.), 63.5 cm (25 in.)
- Right-hand rotation (RH)
- Gear reduction: 2.07:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Weight	Approx. Boat Length	Speed Range	Propeller P/N	Propeller Name
13.50	26	3	Stainless Steel	Up to 680 kg (1500 lb)	Up to 4.8 m (16 ft)	90–111 km/h (56–69 mph)	16996A46	Laser II
13.50	24	3	Stainless Steel	Up to 771 kg (1700 lb)	Up to 5.2 m (17 ft)	84–101 km/h (52–63 mph)	16994A46	Laser II
13.80	23	4	Stainless Steel	726–907 kg (1600–2000 lb)	4.6–5.2 m (15–17 ft)	79–97 km/h (49–60 mph)	825936A46	Trophy
12.50	23	3	Aluminum	726–907 kg (1600–2000 lb)	4.6–5.2 m (15–17 ft)	79–97 km/h (49–60 mph)	77350A45	Black Max
13.50	22	3	Stainless Steel	771–953 kg (1700–2100 lb)	4.6–5.5 m (15–18 ft)	74–92 km/h (46–57 mph)	16992A46	Laser II
12.70	21	4	Stainless Steel	816–1043 kg (1800–2300 lb)	4.8–5.5 m (16–18 ft)	69–89 km/h (43–55 mph)	8M0055551	Spitfire X7
13.80	21	4	Stainless Steel	816–1043 kg (1800–2300 lb)	4.8–5.5 m (16–18 ft)	69–89 km/h (43–55 mph)	825934A47	Trophy
13.30	21	3	Stainless Steel	816–1043 kg (1800–2300 lb)	4.8–5.5 m (16–18 ft)	69–89 km/h (43–55 mph)	899006A46	Laser II
12.80	21	3	Aluminum	816–1043 kg (1800–2300 lb)	4.8–5.5 m (16–18 ft)	69–89 km/h (43–55 mph)	77348A45	Black Max
13.30	20	3	Stainless Steel	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	16990A46	Laser II
12.70	19	4	Stainless Steel	907–1225 kg (2000–2700 lb)	4.8–6.1 m (16–20 ft)	61–79 km/h (38–49 mph)	8M0055550	Spitfire X7
13.80	19	4	Stainless Steel	907–1225 kg (2000–2700 lb)	4.8–6.1 m (16–20 ft)	61–79 km/h (38–49 mph)	825932A46	Trophy
13.80	19	3	Stainless Steel	907–1225 kg (2000–2700 lb)	4.8–6.1 m (16–20 ft)	61–79 km/h (38–49 mph)	899004A46	Laser II
12.80	19	4	Aluminum	907–1225 kg (2000–2700 lb)	4.8–6.1 m (16–20 ft)	61–79 km/h (38–49 mph)	8M8026600	Spitfire
13.00	19	3	Aluminum	907–1225 kg (2000–2700 lb)	4.8–6.1 m (16–20 ft)	61–79 km/h (38–49 mph)	77346A45	Black Max
13.00	18	3	Stainless Steel	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–74 km/h (35–46 mph)	16988A46	Vengeance
13.00	17	4	Stainless Steel	1043–1497 kg (2300–3300 lb)	5.2–6.4 m (17–21 ft)	50–71 km/h (31–44 mph)	8M0055549	Spitfire X7
13.80	17	4	Stainless Steel	1043–1497 kg (2300–3300 lb)	5.2–6.4 m (17–21 ft)	50–71 km/h (31–44 mph)	825930A46	Trophy
12.80	17	4	Aluminum	1043–1497 kg (2300–3300 lb)	5.2–6.4 m (17–21 ft)	50–71 km/h (31–44 mph)	8M8026590	Spitfire
13.30	17	3	Aluminum	1043–1497 kg (2300–3300 lb)	5.2–6.4 m (17–21 ft)	50–71 km/h (31–44 mph)	77344A45	Black Max
13.10	16	3	Stainless Steel	1089–1724 kg (2400–3800 lb)	5.3–6.7 m (18–22 ft)	45–66 km/h (28–41 mph)	16986A46	Vengeance

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Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Weight	Approx. Boat Length	Speed Range	Propeller P/N	Propeller Name
13.30	16	3	Aluminum	1089–1724 kg (2400–3800 lb)	5.3–6.7 m (18–22 ft)	45–66 km/h (28–41 mph)	854360A45	Black Max
13.50	15	4	Stainless Steel	1225–1950 kg (2700–4300 lb)	5.3–7.0 m (18–23 ft)	40–60 km/h (25–37 mph)	8M0055548	Spitfire X7
13.30	15	3	Stainless Steel	1225–1950 kg (2700–4300 lb)	5.3–7.0 m (18–23 ft)	40–60 km/h (25–37 mph)	854354A46	Vengeance
12.80	15	4	Aluminum	1225–1950 kg (2700–4300 lb)	5.3–7.0 m (18–23 ft)	40–60 km/h (25–37 mph)	8M8026580	Spitfire
13.80	15	3	Aluminum	1225–1950 kg (2700–4300 lb)	5.3–7.0 m (18–23 ft)	40–60 km/h (25–37 mph)	77342A45	Black Max
13.40	14	3	Stainless Steel	1361–2223 kg (3000–4900 lb)	5.8–7.3 m (19–24 ft)	35–55 km/h (22–34 mph)	17314A46	Vengeance
13.90	14	3	Aluminum	1361–2223 kg (3000–4900 lb)	5.8–7.3 m (19–24 ft)	35–55 km/h (22–34 mph)	854352A45	Black Max
14.00	13	4	Stainless Steel	1497–2812 kg (3300–6200 lb)	6.1–7.9 m (20–26 ft)	29–50 km/h (18–31 mph)	8M0055547	Spitfire X7
13.80	13	4	Aluminum	1497–2812 kg (3300–6200 lb)	6.1–7.9 m (20–26 ft)	29–50 km/h (18–31 mph)	8M8026570	Spitfire Pontoon
14.00	13	3	Aluminum	1497–2812 kg (3300–6200 lb)	6.1–7.9 m (20–26 ft)	29–50 km/h (18–31 mph)	77340A45	Black Max
14.00	12	3	Stainless Steel	1724–3447 kg (3800–7600 lb)	6.4+ m (21+ ft)	24–45 km/h (15–28 mph)	17312A46	Vengeance
13.80	11	4	Aluminum	2042–4400 kg (4500–9700 lb)	Pontoon	1–39 km/h (1–24 mph)	8M8026560	Spitfire Pontoon
14.00	11	3	Aluminum	2132+ kg (4700+ lb)	House/Work	1–39 km/h (1–24 mph)	77338A45	Black Max

115 Pro XS FourStroke 2.1L Command Thrust (CT) Gearcase

- Wide-open throttle RPM: 5300–6300
- Recommended transom heights: 50.8 cm (20 in.), 63.5 cm (25 in.)
- Right-hand rotation (RH)
- Gear reduction: 2.38:1

Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Weight	Approx. Boat Length	Speed Range	Propeller P/N	Propeller Name
14.00	26	3	Stainless Steel	726–907 kg (1600–2000 lb)	Up to 5.2 m (17 ft)	77–95 km/h (48–59 mph)	8M8023160	Fury
14.60	26	3	Stainless Steel	726–907 kg (1600–2000 lb)	Up to 5.2 m (17 ft)	77–95 km/h (48–59 mph)	825874A47	Tempest Plus
14.00	25	3	Stainless Steel	771–953 kg (1700–2100 lb)	4.6–5.2 m (15–17 ft)	74–92 km/h (46–57 mph)	8M8023140	Fury
14.60	25	3	Stainless Steel	771–953 kg (1700–2100 lb)	4.6–5.2 m (15–17 ft)	74–92 km/h (46–57 mph)	825866A47	Tempest Plus
14.00	24	3	Stainless Steel	816–1043 kg (1800–2300 lb)	4.6–5.5 m (15–18 ft)	69–89 km/h (43–55 mph)	8M8023120	Fury
14.60	24	3	Stainless Steel	816–1043 kg (1800–2300 lb)	4.6–5.5 m (15–18 ft)	69–89 km/h (43–55 mph)	825872A47	Tempest Plus
14.60	23	3	Stainless Steel	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	825864A47	Tempest Plus

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Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Weight	Approx. Boat Length	Speed Range	Propeller P/N	Propeller Name
13.30	23	5	Stainless Steel	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	815762A46	HighFive
14.00	23	4	Stainless Steel	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	825906A48	VenSura
13.50	23	3	Stainless Steel	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	16320A46	Vengeance
14.00	23	4	Aluminum	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	8M0084497	Spitfire
14.00	23	3	Aluminum	862–1089 kg (1900–2400 lb)	4.8–5.8 m (16–19 ft)	66–84 km/h (41–52 mph)	832834A45	Black Max
13.50	22	3	Stainless Steel	907–1225 kg (2000–2700 lb)	4.8–5.8 m (16–19 ft)	61–80 km/h (38–50 mph)	899202A46	Enertia
14.60	22	3	Stainless Steel	907–1225 kg (2000–2700 lb)	4.8–5.8 m (16–19 ft)	61–80 km/h (38–50 mph)	8M8026820	Tempest Plus
13.80	21	3	Stainless Steel	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	899002A46	Enertia
14.60	21	3	Stainless Steel	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	825862A47	Tempest Plus
13.30	21	5	Stainless Steel	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	815760A46	HighFive
14.00	21	4	Stainless Steel	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	825902A48	VenSura
13.80	21	3	Stainless Steel	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	16318A46	Vengeance
14.00	21	4	Aluminum	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	8M0084496	Spitfire
14.30	21	3	Aluminum	953–1315 kg (2100–2900 lb)	4.8–6.1 m (16–20 ft)	56–76 km/h (35–47 mph)	832832A45	Black Max
13.80	20	3	Stainless Steel	998–1406 kg (2200–3100 lb)	5.2–6.4 m (17–21 ft)	53–72 km/h (33–45 mph)	899000A46	Enertia
14.00	19	3	Stainless Steel	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	898998A46	Enertia
14.60	19	3	Stainless Steel	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	825860A47	Tempest Plus
13.30	19	5	Stainless Steel	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	815758A46	HighFive
14.00	19	4	Stainless Steel	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	825900A48	VenSura
14.00	19	3	Stainless Steel	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	16316A46	Vengeance
14.00	19	4	Aluminum	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	8M0084495	Spitfire
14.50	19	3	Aluminum	1089–1588 kg (2400–3500 lb)	5.3–6.7 m (18–22 ft)	48–68 km/h (30–42 mph)	832830A45	Black Max
14.20	18	3	Steel	1179–1769 kg (2600–3900 lb)	5.3–7.0 m (18–23 ft)	43–63 km/h (27–39 mph)	898996A46	Enertia
14.50	17	3	Stainless Steel	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	898994A46	Enertia
14.60	17	3	Stainless Steel	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	8M8026790	Tempest Plus

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Diameter	Pitch	No. of Blades	Material	Approx. Gross Boat Weight	Approx. Boat Length	Speed Range	Propeller P/N	Propeller Name
13.50	17	5	Stainless Steel	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	821154A46	HighFive
14.30	17	4	Stainless Steel	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	825898A48	VenSura
14.50	17	3	Stainless Steel	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	16314A46	Vengeance
14.00	17	4	Aluminum	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	8M0084494	Spitfire
15.00	17	3	Aluminum	1225–2041 kg (2700–4500 lb)	5.3–7.3 m (18–24 ft)	39–60 km/h (24–37 mph)	832828A45	Black Max
14.70	16	3	Stainless Steel	1361–2359 kg (3000–5200 lb)	5.8–7.6 m (19–25 ft)	34–55 km/h (21–34 mph)	898992A46	Enertia
15.00	15	3	Stainless Steel	1497–2631 kg (3300–5800 lb)	6.1–7.9 m (20–26 ft)	31–50 km/h (19–31 mph)	898990A46	Enertia
15.30	15	3	Aluminum	1497–2631 kg (3300–5800 lb)	6.1–7.9 m (20–26 ft)	31–50 km/h (19–31 mph)	78116A45	Black Max
15.30	14	3	Stainless Steel	1724–3175 kg (3800–7000 lb)	6.4–8.2 m (21–27 ft)	26–45 km/h (16–28 mph)	898988A46	Enertia
14.00	14	4	Aluminum	1724–3175 kg (3800–7000 lb)	6.4–8.2 m (21–27 ft)	26–45 km/h (16–28 mph)	8M0084493	Spitfire
15.60	13	3	Stainless Steel	1950–4037 kg (4300–8900 lb)	Pontoon	21–40 km/h (13–25 mph)	8M0070074	Enertia
16.00	13	3	Aluminum	1950–4037 kg (4300–8900 lb)	Pontoon	21–40 km/h (13–25 mph)	78114A45	Black Max
14.00	12	4	Aluminum	2268+ kg (5000+ lb)	Pontoon/Work	16–35 km/h (10–22 mph)	8M0084491	Spitfire
16.00	12	3	Aluminum	2268+ kg (5000+ lb)	Pontoon/Work	16–35 km/h (10–22 mph)	16436A45	Black Max
16.00	11	3	Stainless Steel	3175+ kg (7000+ lb)	Pontoon/Work	1–31 km/h (1–19 mph)	8M0070079	Enertia
16.00	11	3	Aluminum	3175+ kg (7000+ lb)	Pontoon/Work	1–31 km/h (1–19 mph)	78112A45	Black Max

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