

Flat Rate Guide

AA and newer models

EVINRUDE[®]
E-TEC[®]



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PREFACE

This manual provides Warranty Flat Rate Allowances for outboard models manufactured in 2013 and later. These manuals can also be useful in determining shop hours required to perform non-warranty service work.

All flat rate times are based on the actual time required for a factory trained technician to complete the various operations using the appropriate hand tools and BRP special tools.

Flat rate times include a diagnostic allowance as well as time for the removal and re-installation of all components necessary to complete the repair. Where appropriate, the flat rate time may also include an allowance for performance tests with recommended test equipment.

Notes Codes - Details for specific repair procedure

1	Authorization required prior to repair/parts order – Contact After Sales Support
2	Includes return packaging
3	Contact After Sales Support for assistance if needed.
4	When servicing or replacing two or more components, call for prior authorization.
5	Add 0.5 (H101) for lower engine cover removal when replacing injector/coil assembly on bottom cylinder(s) or replacing lower tube assembly.
6	Includes timing verification
7	Add 1.0 for Counter Rotation Models
8	Flat rate time includes removal of lower engine covers.
9	Flat rate time includes removal of oil reservoir. Add 0.5 for removing lower covers (H101) for bottom injector only.
10	Use failing part number 8888885 for software updates <u>unless</u> the EMM software update is being performed as a result of a <u>specific warranty bulletin</u> . Refer to the applicable warranty bulletin for unique failing part numbers related to specific warranty campaigns.
11	Replacement Item Only – Do NOT order parts. Contact After Sales Support.
12	Add EP10 (0.5hr) when replacing an unprogrammed EMM.

Flat rate times do not include time for painting or repainting. If the warranty repair includes painting, see flat rate “Y” codes.

Flat rate times do not include the additional work required for removal of corroded screws. Dealers in salt water areas may add this time, when appropriate. See flat rate “Y” codes for outboards. Only **one** salt water allowance may be submitted for each major repair. **Any additional time required due to corrosion will be the responsibility of the customer.** (See applicable Limited Warranty statement.)

Flat rate times shown in this manual are the maximum times allowed for a given repair. Flat rate times are not cumulative. Only use the flat rate time for the longest operation. In such cases where a claim contains overlapping flat rates, After Sales Support will reduce the time accordingly. Be aware of this when comparing flat rate hours claimed with the actual hours paid. **If Flat Rate times overlap, this extra time will be cut from the claim without notification.**

If diagnosing an ignition system problem and it is found to be a fuel system problem instead, then the ignition diagnostic time cannot be claimed. In many cases, it may not be necessary to diagnose or test a problem, yet the flat rate time for that job will include diagnostic /testing time. We believe the occasional loss of time will be more than made up this way.

Consult the Warranty Guide for detailed information on the manufacturer’s limited warranty and instructions for the preparation, submission, and payment of warranty claims. Questions regarding flat rates can be submitted via “Case” on BOSSWeb.

EVINRUDE E-TEC ENGINES



15HO, 25, 30 (575 CC) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead - Replace	2,6,8, 11	P101	7.0
Head, Cylinder and Gasket	8	P102	3.0
Thermostat or Water Pressure Relief Valve		P106	1.5
Cover, Exhaust or Gasket		P108	2.8
Cylinder and Crankcase - Reseal	1,6,8	P109	4.6
Cylinder and Crankcase - Rebuild	1,6,8	P110	9.5
Crankshaft - Replace	1,6,8	P111	7.0
Seal, Crankshaft - Upper	6,8	P112	3.6
Seal, Crankshaft - Lower	6,8	P113	4.8
Upper Main Bearing	6,8	P114	4.8
Gasket, Powerhead to Adapter	8	P117	2.8
Midsection	Note	Code	Time
Cover, Lower Engine (One or Both)	11	H101	0.5
Steering Arm Assembly		H102	1.7
Steering Handle, Tiller (includes harness or switch replacement)		H103	1.5
Cable, Throttle Control (Tiller)		H104	1.8
Swivel Bracket	3	H105	3.8
Stern Bracket (One or Both)		H107	1.0
Lower Mount Bracket		H110	1.5
Lever or Handle, Shift (Tiller)		H111	1.0
Tilt Tube		H114	0.8
Arm, Trail Lock – (Motor Support)		H115	0.3
Lever and Shaft, Trail Lock		H116	0.3
Tilt/Run Lever & Shaft or Linkage		H117	0.2
Reverse Lock - Links, Levers or Springs		H118	1.0
Lever, Tilt Lock		H119	0.2
Motor Mounts - Upper		H121	0.9
Housing, Exhaust (Outer)	1	H122	4.0
Housing, Exhaust (Inner) & Megaphone – Water Tube and /or Upper Grommet		H123	2.8
Thrust Mounts - Lower		H126	0.8
Muffler, Exhaust		H129	0.7
Steering Friction Washer		H130	0.5
Gearcase	Note	Code	Time
Gearcase Assembly	1, 2, 11	G101	1.3
Gearcase Assembly - Reseal (complete)		G102	2.6
Gearcase Housing Only - Replace	1	G103	3.0
Pinion Bearing - Replace	1	G104	2.8
Propeller Shaft Bearing Housing - Replace		G105	0.7
Propeller Shaft Bearing Housing - Rebuild		G106	0.9
Gear, Reverse Only - Replace	1	G107	0.8
Drive Shaft Seals	1	G108	1.6
Cover, Shift Rod or Bushing, Shift Rod or O-Ring, Shift Rod		G109	1.6
Shaft, Propeller or Clutch Dog/Shifter	1	G110	2.9
Gear, Forward and/or Pinion	1	G111	2.9
Shift Housing and/or Forward Bearing Assembly	1	G112	2.9
Water Pump		G113	1.4
Recoil Start	Note	Code	Time
Manual (Recoil) Start Assembly - Replace		M101	0.2
Cord (Rope)		M103	0.5
Pawls & Springs		M106	1.0
Starter Repair		M106	1.0

15, 25, 30 (575 CC) EVINRUDE E-TEC

Electrical/Ignition	Note	Code	Time
Flywheel	6	E101	1.2
Stator	6	E103	2.0
Ignition Coil Assembly (One)		E111	1.7
Ignition Coil Assembly (Each Additional)		E112	0.2
Engine Wiring Harness	8	E117	3.0
Switch, Neutral Safety (Engine Mounted)	8	E118	1.5
Electric Starter Motor - Replace	8	E120	1.0
Electric Starter Motor - Repair	8	E121	2.0
Drive, Electric Starter Motor - Repair/Replace	6	E122	2.0
Solenoid, Electric Start		E123	1.0
Water Temperature Switch/Sensor (Engine Mounted)		E126	0.8
EMM Assembly	1,3,6,8,12	E127	1.7
EMM - Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	0.8
Sensor, Throttle Position (TPS)		E135	0.8
Sensor, Air Temperature (AT)		E137	0.8
Battery Charge Module	8	E138	1.2
Fuel System/Oil System	Note	Code	Time
Intake Manifold/Reed Plate - Repair/Replace	8	F107	2.5
Fuel Lift Pump Assembly	8	F121	1.3
Fuel Filter Assembly		F122	0.5
Vapor Separator (VST) / Electric Fuel Pump Assembly	8	F126	1.5
Oil Manifold and Pick-up Assembly and Oil Level Switch		F127	1.3
Oil Tank (Integral) – Replace	8	F131	1.5
Fuel Injector Assembly - Replace or Service (One)	3,9	F134	2.2
Fuel Injector Assembly - Replace (Each Additional)	4,9	FX34	0.4
Throttle Body Assembly	8	F137	1.7
Power Trim	Note	Code	Time
Power Trim and Tilt Assembly - Replace	2	T101	1.5
Manifold - Rebuild/Replace		T102	3.2
Motor and Cable Assembly, TNT - Replace		T103	1.4
Motor and Cable Assembly, TNT - Rebuild		T104	1.9
Pump, Trim Fluid		T106	1.7
Tilt Cylinder - Repair		T110	2.0
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, Etc.		T113	1.8
External Check Valves		T114	1.4
Relay Assembly, TNT		T115	1.0
Sending Unit		T121	0.8

40, 50, 60 (52.7 CU. IN.) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead - Replace	2,6,8,11	P101	7.5
Cylinder Head and O-Ring Seal	8	P102	3.5
Thermostat/Pressure Relief Valve		P106	1.7
Exhaust Cover or Gasket		P108	3.5
Cylinder and Crankcase - Reseal	1,6,8	P109	4.0
Cylinder and Crankcase - Rebuild	1,6,8	P110	9.5
Crankshaft - Replace	1,6,8	P111	7.0
Upper Crankshaft Seal	6,8	P112	4.0
Lower Crankshaft Seal	6,8	P113	4.0
Upper Main Bearing	6,8	P114	4.0
Lower Main Bearing	6,8	P115	7.0
Upper Motor Mounts	8	P116	3.7
Gasket, Powerhead to Adapter	8	P117	3.1
Grommet and Insert, Exhaust Relief	8	P119	1.0
Midsection	Note	Code	Time
Engine Cover, Lower (One or Both)	11	H101	0.5
Steering Arm Assembly	1	H102	3.3
Steering Handle (Tiller)		H103	1.4
Cable or Gear - Throttle Control - (Tiller)		H104	1.3
Swivel Bracket	3	H105	4.0
Stern Brackets (One or Both)		H107	1.0
Lower Mount Bracket		H110	0.4
Shift Lever or Handle (Tiller)		H111	1.5
Tilt Assist/Cylinder		H112	1.4
Cable, Tilt Assist		H113	0.8
Tilt Tube		H114	0.8
Trail Lock Arm (Motor Support)		H115	0.3
Lever and Shaft - Trail Lock		H116	0.3
Tilt/Run Lever & Shaft or Linkage		H117	0.2
Links, Levers or Springs - Reverse Lock		H118	1.0
Lever, Tilt Lock		H119	0.2
Upper Mounts		H121	3.0
Housing, Exhaust - Outer	1	H122	5.0
Housing, Exhaust - Inner		H123	2.8
Water Tube and/or Upper Grommet		H125	1.9
Lower Motor Mounts		H126	0.5
Water Valve Assembly	5	H128	0.5
Gearcase	Note	Code	Time
Gearcase Assembly	1,2, 11	G101	2.0
Gearcase Assembly - Reseal (Complete)	1	G102	3.0
Gearcase Housing Only - Replace	1	G103	4.0
Pinion Bearing - Replace	1	G104	4.2
Propshaft Bearing Housing - Replace		G105	0.8
Propshaft Bearing Housing - Rebuild		G106	1.0
Reverse Gear Only - Replace	1	G107	0.9
Lower Driveshaft or Upper Bearing Housing Replace (requires shimming)	1	G108	3.0
Shift Rod Cover/Bushing/O-Ring		G109	2.0
Propshaft or Shifter Clutch Dog	1	G110	3.1
Forward and/or Pinion Gear	1	G111	4.0
Shift Housing and/or Forward Bearing Assembly	1	G112	3.4
Water Pump or Upper Bearing Housing Reseal		G113	2.0

40, 50, 60 (52.7 CU. IN.) EVINRUDE E-TEC

Recoil Starter	Note	Code	Time
Recoil Starter - replace		M101	0.2
Starter Cord		M103	0.5
Starter Bracket		M104	0.3
Starter Lockout		M105	0.3
Electrical/Ignition	Note	Code	Time
Flywheel	6	E101	0.9
Flywheel Cover		E102	0.2
Stator	6	E103	2.0
Ignition Coil Assembly (One)		E111	2.0
Ignition Coil Assembly (Each Additional)		E112	0.2
Engine Wiring Harness	8	E117	3.0
Neutral Safety Switch (Engine Mounted)	8	E118	0.7
Electric Starter Motor - Replace	8	E120	1.0
Electric Starter Motor - Repair	8	E121	2.0
Starter Drive - Repair/Replace	6	E122	2.0
Solenoid, Electric Start		E123	1.0
Water Temperature Switch/Sensor (Engine Mounted)		E126	0.8
EMM Assembly	1,3,6,8,12	E127	1.7
EMM – Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	0.8
Sensor, Throttle Position (TPS)		E135	0.8
Sensor, Air Temperature (AT)		E137	0.8
Capacitor	8	E138	1.2
Fuel System/Oil System	Note	Code	Time
Intake Manifold/Reed Plate - Repair/Replace	8	F107	2.5
Fuel Lift Pump Assembly	8	F121	1.0
Fuel Filter Assembly		F122	0.5
Vapor Separator (VST) and Electric Fuel Pump Assembly	8	F126	1.0
Oil Manifold Pick-up Assembly and Oil Level Switch		F127	1.0
Oil Tank (Integral) - Replace	8	F131	1.3
Fuel Manifold Assembly - Return	8	F132	1.5
Fuel Manifold Assembly - Supply	8	F133	1.5
Fuel Injector Assembly - Replace or Service (One)	3,9	F134	1.5
Fuel Injector Assembly - Replace (Each Additional)	4,9	FX34	0.8
Fuel Manifolds - All/O-Rings	8	F135	2.5
Throttle Body Assembly	8	F137	1.5
Power Trim	Note	Code	Time
Power Trim and Tilt Assembly - Replace	2	T101	1.5
Manifold - Rebuild/Replace		T102	3.2
Motor and Cable - Replace		T103	1.4
Motor and Cable - Repair		T104	1.9
Oil Pump		T106	1.7
Tilt Cylinder - Repair		T110	2.0
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, etc.		T113	1.8
External Check Valves		T114	1.4
Relay Assembly, TNT		T115	1.0
Switch, TNT (Lower Motor Cover)		T117	0.7
Sending Unit		T121	0.8

65, 75, 90 (79 CU. IN.) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead - Replace	2,6,8, 11	P101	7.5
Cylinder Head and O-Ring Seal (One)	8	P102	3.5
Thermostat/Pressure Relief Valve (One)		P106	1.7
Cover, Exhaust or Gasket		P108	2.7
Cylinder and Crankcase - Reseal	1,6,8	P109	4.0
Cylinder and Crankcase - Rebuild	1,6,8	P110	9.5
Crankshaft - Replace	1,6,8	P111	7.0
Seal, Crankshaft (Upper)	6,8	P112	4.0
Seal, Crankshaft (Lower)	6,8	P113	4.0
Upper Main Bearing	1,6,8	P114	4.0
Lower Main Bearing	1,6,8	P115	7.0
Upper Motor Mounts	8	P116	3.7
Gasket, Powerhead to Adapter	8	P117	3.1
Grommet and Insert, Exhaust Relief	8	P119	1.0
Midsection	Note	Code	Time
Engine Cover, Lower (One or Both)	11	H101	0.5
Steering Arm Assembly - Pivot Shaft		H102	3.5
Cable or Gear - Throttle Control - (Tiller) "W" models		H104	1.3
Swivel Bracket	3	H105	4.5
Thrust Rollers or Pads Swivel Bracket (Both)		H106	0.2
Stern Brackets (One or Both)		H107	1.5
Lower Motor Mount Bracket		H110	3.5
Shift Lever		H111	1.5
Tilt Tube		H114	1.0
Trail Lock Arm - Motor Support		H115	0.3
Lever and Shaft, Trail Lock		H116	0.3
Lever, Tilt Lock		H119	0.3
Housing, Exhaust - Outer	1	H122	6.8
Housing, Exhaust - Inner – Upper	1	H123	6.3
Housing, Exhaust - Inner – Lower		H124	2.5
Water Tube and/or Upper Grommet		H125	2.7
Lower Motor Mounts		H126	1.5
Gearcase	Note	Code	Time
Gearcase Assembly	2, 11	G101	2.0
Gearcase Assembly – Reseal (Complete)		G102	3.8
Gearcase Housing Only - Replace	1	G103	5.0
Pinion Bearing - Replace	1	G104	5.4
Propshaft Bearing Housing - Replace		G105	1.0
Propshaft Bearing Housing - Rebuild		G106	1.4
Reverse Gear Only - Replace	1	G107	1.2
Lower Driveshaft or Upper Bearing Housing Replace (requires shimming)	1	G108	4.0
Shift Rod Cover/Bushing/O-Ring		G109	3.0
Propshaft or Shifter Clutch Dog	1	G110	4.0
Forward and/or Pinion Gear	1	G111	5.0
Shift Housing and/or Forward Bearing Assembly	1	G112	4.8
Water Pump or Upper Bearing Housing Reseal		G113	2.0

65, 75, 90 (79 CU. IN.) EVINRUDE E-TEC

Electrical/Ignition	Note	Code	Time
Flywheel	6	E101	0.9
Flywheel Cover		E102	0.2
Stator	6	E103	2.0
Ignition Coil Assembly (One)		E111	2.0
Ignition Coil Assembly (Each Additional)		E112	0.2
Engine Wiring Harness	8	E117	3.0
Switch, Neutral Safety (Engine Mounted)	8	E118	0.7
Electric Starter Motor - Replace	8	E120	1.0
Electric Starter Motor - Repair	8	E121	2.0
Starter Drive - Repair/Replace	6	E122	2.0
Solenoid, Electric Start		E123	1.0
Water Temperature Switch/Sensor (Engine Mounted)		E126	0.8
EMM Assembly	1,3,6,8,12	E127	1.7
EMM - Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	0.8
Sensor, Throttle Position (TPS)		E135	0.8
Sensor, Air Temperature (AT)		E137	0.8
Capacitor	8	E138	1.2
Fuel System/Oil System	Note	Code	Time
Intake Manifold/Reed Plate - Repair/Replace	8	F107	2.5
Fuel Lift Pump Assembly	8	F121	1.0
Fuel Filter Assembly		F122	0.5
Vapor Separator (VST) and Electric Fuel Pump Assembly	8	F126	1.0
Oil Manifold and Pick-up Assembly/Grommet/Clamp		F127	1.0
Oil Tank (Integral) Replace	8	F131	1.3
Fuel Manifold Assembly - Return	8	F132	1.5
Fuel Manifold Assembly - Supply	8	F133	1.5
Fuel Injector Assembly - Replace or Service (One)	3,9	F134	1.5
Fuel Injector Assembly - Replace (Each Additional)	4,9	FX34	0.8
Fuel Manifolds All/O-Rings	8	F135	2.5
Throttle Body Assembly	8	F137	1.5
Power Trim	Note	Code	Time
Power Trim and Tilt Assembly - Replace	2	T101	1.8
Manifold - Rebuild/Replace		T102	3.0
Motor and Cable - Replace		T103	1.6
Motor and Cable - Rebuild		T104	2.1
Valve Body and Pump Assembly. - Replace		T105	2.2
Reservoir - Replace		T107	1.6
Tilt Cylinder - Repair		T110	2.3
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, etc.		T113	2.0
Relay Assembly, TNT		T115	1.0
Switch, TNT (Lower Motor Cover)		T117	0.7
Sending Unit		T121	1.0
Switch, Trim Limit		T122	1.0

90HO, 115, 115HO 60° V4 (105 CU. IN / 1.7L) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead - Replace	2, 6, 11	P101	8.4
Cylinder Head and O-Ring Seal (One)		P102	2.2
Cylinder Head and O-Ring Seal (Both)		P103	3.0
Thermostat (One)		P106	1.7
Thermostat (Both)		P107	2.0
Cylinder and Crankcase - Reseal	1, 6	P109	5.4
Cylinder and Crankcase - Rebuild	1, 6	P110	10.9
Crankshaft - Replace	1, 6	P111	8.9
Upper Crankshaft Seal	6	P112	7.7
Lower Crankshaft Seal	6	P113	7.7
Upper Main Bearing	1, 6	P114	7.7
Lower Main Bearing	1, 6	P115	9.8
Upper Motor Mounts		P116	3.2
Gasket, Powerhead to Adapter		P117	3.0
Grommet, Exhaust Relief	8	P119	0.7
Exhaust Back Pressure Fitting &/or Muffler		P120	1.2
Water Pressure Relief Valve Assembly		P121	2.5
Midsection	Note	Code	Time
Engine Cover, Lower (One or Both)	1	H101	0.5
Steering Arm Assembly - Pivot Shaft		H102	3.5
Swivel Bracket	3	H105	4.5
Thrust Rollers or Pads Swivel Bracket (Both)		H106	0.2
Stern Brackets (One or Both)		H107	1.5
Lower Mount Bracket		H110	3.5
Shift Lever		H111	1.5
Tilt Tube		H114	1.0
Trail Lock Arm, Motor Support		H115	0.3
Lever and Shaft, Trail Lock		H116	0.3
Lever, Tilt Lock		H119	0.3
Housing, Exhaust - Outer and Exhaust Valve	1	H122	6.8
Lower Motor Mounts		H126	1.5
Gearcase	Note	Code	Time
Gearcase Assembly	2, 11	G101	2.0
Gearcase Assembly - Reseal (Complete)	1	G102	3.8
Gearcase Housing Only - Replace	1	G103	5.0
Pinion Bearing - Replace	1	G104	5.4
Propshaft Bearing Housing - Replace		G105	1.0
Propshaft Bearing Housing - Rebuild		G106	1.4
Reverse Gear Only - Replace	1	G107	1.2
Lower Driveshaft or Upper Bearing Housing Replace (requires shimming)	1	G108	4.0
Shift Rod Cover/Bushing/O-Ring	1	G109	2.5
Propshaft or Shifter Clutch Dog	1	G110	4.0
Forward and/or Pinion Gear	1	G111	5.0
Shift Housing and/or Forward Bearing Assembly	1	G112	4.8
Water Pump or Upper Bearing Housing Reseal		G113	2.0
Fuel System / Oil System	Note	Code	Time
Intake Manifold / Reed Plate - Repair/Replace	6	F107	1.5
Fuel Hose or Connectors - Repair/Replace		F116	0.5
Pick Up Assembly, Oil Tank		F119	1.5
Fuel Lift Pump Assembly		F121	1.1
Fuel Filter Assembly		F122	0.5

90HO, 115, 115HO 60° V4 (105 CU. IN / 1.7L) EVINRUDE E-TEC

Fuel System / Oil System - Continued	Note	Code	Time
Sensor, Water in Fuel		F123	0.5
Vapor Separator (VST) and Electric Fuel Pump Assembly		F126	1.0
Oil Injector and Manifold Assembly		F127	1.8
Rear Oil Distribution Manifold		F128	1.0
Sensor, Oil Pressure		F131	1.0
Fuel Injector Assembly - Replace (One)	4,5	F134	1.7
Fuel Injector Assembly - Replace (Each Additional)	4,5	FX34	0.5
Fuel Manifold (One or Both) or All O-Rings	5	F135	2.0
Throttle Body Assembly		F137	0.8
Electrical / Ignition	Note	Code	Time
Flywheel	6	E101	2.0
Flywheel Cover - Lower	6	E102	1.5
Stator	6	E103	2.4
Ignition Coil Assembly (One)		E111	1.7
Ignition Coil Assembly (Each Additional)		E112	0.1
Engine Wiring Harness		E117	2.0
Electric Starter Motor - Replace		E120	1.0
Electric Starter Motor - Repair		E121	2.0
Solenoid - Electric Start		E123	1.0
Sensor, Temperature		E126	1.0
EMM Assembly	1,3,6,12	E127	2.0
EMM – Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	1.0
Sensor, Throttle Position (TPS)		E135	0.7
Sensor, Air Temperature		E137	0.5
Capacitor		E138	1.0
Actuator, Exhaust Valve		E139	2.0
Control Module, Exhaust Valve		E140	1.5
Power Trim	Note	Code	Time
Power Trim and Tilt Assembly - Replace	2	T101	1.8
Manifold - Rebuild/Replace		T102	3.0
Motor and Cable Assembly - Replace		T103	1.6
Motor and Cable Assembly - Rebuild		T104	2.1
Valve Body and Pump Assembly. - Replace		T105	2.2
Reservoir - Replace		T107	1.6
Trim Cylinder - Repair (One)		T108	2.1
Trim Cylinder - Repair (Both)		T109	2.3
Tilt Cylinder - Repair		T110	2.3
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, etc.		T113	2.0
Relay Assembly, TNT		T115	0.8
Switch, TNT (Lower Motor Cover)		T117	0.7
Sending Unit		T121	1.0
Switch, Trim Limit		T122	1.0

135HO, 150, 175, 200 60° V6 (158 CU. IN. / 2.6 L) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead - Replace	2, 6, 11	P101	10.1
*Additional time to re-configure ICON		PX01	2.0
Cylinder Head and O-Ring Seal (One)		P102	2.5
Cylinder Head and O-Ring Seal (Both)		P103	3.5
Thermostat (One)		P106	1.7
Thermostat (Both)		P107	2.0
Cylinder and Crankcase - Reseal	1, 6	P109	6.0
Cylinder and Crankcase - Rebuild	1, 6	P110	12.5
Crankshaft - Replace	1, 6	P111	9.5
Upper Crankshaft Seal	6	P112	7.7
Lower Crankshaft Seal	6	P113	7.7
Upper Main Bearing	1, 6	P114	7.7
Lower Main Bearing	1, 6	P115	9.8
Upper Motor Mounts		P116	3.2
Gasket, Powerhead to Adapter		P117	3.0
Grommet, Exhaust Relief	8	P119	0.7
Exhaust Pressure Fitting &/or Muffler		P120	1.2
Water Pressure Relief Valve Assembly		P121	2.5
Midsection	Note	Code	Time
Engine Cover, Lower (One or Both)	11	H101	0.5
Steering Arm Assembly - Pivot Shaft		H102	4.0
Swivel Bracket	3	H105	4.5
Thrust Rollers or Pads Swivel Bracket (Both)		H106	0.2
Stern Bracket (One or Both)		H107	1.5
Lower Motor Mount Bracket		H110	3.5
Shift Lever		H111	1.8
Tilt Tube		H114	1.0
Trail Lock Arm, Motor Support		H115	0.3
Lever and Shaft, Trail Lock		H116	0.3
Lever, Tilt Lock		H119	0.3
Housing, Exhaust - Outer	1	H122	6.8
Housing, Exhaust - Inner - Upper	1	H123	6.3
Housing, Exhaust - Inner - Lower		H124	2.5
Water Tube and/or Grommet		H125	2.7
Lower Motor Mounts		H126	1.5
Gearcase	Note	Code	Time
Gearcase Assembly	2, 11	G101	2.0
Gearcase Assembly - Reseal (Complete)	1	G102	3.8
Gearcase Housing Only - Replace	1	G103	5.0
Pinion Bearing - Replace	1	G104	5.4
Propshaft Bearing Housing - Replace		G105	1.0
Propshaft Bearing Housing - Rebuild		G106	1.4
Reverse Gear Only - Replace	1, 7	G107	1.3
Lower Driveshaft or Upper Bearing Housing Replace (requires shimming)	1	G108	4.0
Shift Rod Cover/Bushing/O-Ring	1	G109	2.5
Propshaft or Shifter Clutch Dog	1	G110	4.0
Forward and/or Pinion Gear	1	G111	5.0
Shift Housing and/or Forward Bearing Assembly	1	G112	4.8
Water Pump or Upper Bearing Housing Reseal		G113	2.0
Fuel System / Oil System	Note	Code	Time
Intake Manifold / Reed Plate - Repair/Replace (One)		F107	1.5
Fuel Hose or Connectors - Repair/Replace		F116	0.5
Fuel Lift Pump Assembly		F121	1.1

135HO, 150, 175, 200 60° V6 (158 CU. IN. / 2.6 L) EVINRUDE E-TEC

Fuel System / Oil System - Continued	Note	Code	Time
Fuel Filter Assembly		F122	0.5
Sensor, Water in Fuel		F123	0.5
Vapor Separator (VST) and Electric Fuel Pump Assembly		F126	1.0
Oil Injector and Manifold Assembly		F127	1.8
Rear oil distribution manifold		F128	1.0
Sensor, Oil Pressure		F131	1.0
Fuel Injector Assembly - Replace (One)	4,5	F134	1.7
Fuel Injector Assembly - Replace (Each Additional)	4,5	FX34	0.5
Fuel Rails (One or Both) or All O-Rings	5	F135	2.2
Throttle Body Assembly		F137	1.0
Electrical/ Ignition	Note	Code	Time
Flywheel	6	E101	2.0
Flywheel Cover - Lower	6	E102	1.5
Stator	6	E103	2.4
Ignition Coil Assembly (One)		E111	1.7
Ignition Coil Assembly (Each Additional)		E112	0.1
Engine Wiring Harness		E117	2.0
Electric Starter Motor - Replace		E120	1.0
Electric Starter Motor - Repair		E121	2.0
Solenoid - Electric Start		E123	1.0
Sensor, Temperature		E126	1.0
EMM Assembly	1,3,6,12	E127	2.0
EMM – Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	1.0
Sensor, Throttle Position (TPS)		E135	0.7
Sensor, Air Temperature		E137	0.5
Capacitor		E138	1.0
Actuator, Shift ["DE" / ICON equipped model only]	1,8	E143	1.5
Actuator, Throttle ["DE" / ICON equipped model only]	1,8	E144	1.5
Electronic Servo Module (ESM) ["DE" / ICON equipped model only]	1,8	E145	1.5
Fuse, ESM (30 Amp) ["DE" / ICON equipped model only]		E146	0.5
Plug, Engine Identity (0,1,2,3, or 4) ["DE" / ICON equipped model only]		E147	0.5
Plate, Actuator Mounting ["DE" / ICON equipped model only]	8	E148	2.0
Link, Throttle Actuator ["DE" / ICON equipped model only]		E149	0.5
Link, Shift Actuator to Lever ["DE" / ICON equipped model only]	8	E150	1.5
Power Trim	Note	Code	Time
Power Trim and Tilt Assembly - Replace	2	T101	1.8
Manifold - Rebuild/Replace		T102	3.0
Motor and Cable Assembly - Replace		T103	1.6
Motor and Cable Assembly - Rebuild		T104	2.1
Valve Body and Pump Assembly - Replace		T105	2.2
Reservoir - Replace		T107	1.6
Trim Cylinder - Repair (One)		T108	2.1
Trim Cylinder - Repair (Both)		T109	2.3
Tilt Cylinder - Repair		T110	2.3
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, etc.		T113	2.0
Relay Assembly		T115	0.8
Switch, TNT (Lower Motor Cover)		T117	0.7
Sending Unit		T121	1.0
Switch, Trim Limit		T122	1.0

200, 225, 250 90° V6 (200 CU. IN. / 3.3 L) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead - Replace	2, 6, 11	P101	11.4
*Additional time to re-configure ICON		PX01	2.0
Cylinder Head and Gasket (One)		P102	2.7
Cylinder Head and Gasket (Both)		P103	3.7
Thermostat (One)		P106	1.7
Thermostat (Both)		P107	2.0
Cylinder and Crankcase - Reseal	1, 6	P109	6.2
Cylinder and Crankcase - Rebuild	1, 6	P110	13.5
Crankshaft - Replace	1, 6	P111	9.5
Upper Crankshaft Seal	6	P112	3.0
Lower Crankshaft Seal		P113	4.2
Upper Main Bearing	6	P114	3.0
Lower Main Bearing		P115	4.8
Gasket, Powerhead to Adapter		P117	3.9
Water Pressure Valve Assembly		P121	1.0
Midsection	Note	Code	Time
Engine Cover, Lower (One or Both)	11	H101	0.5
Steering Arm Assembly - Pivot Shaft		H102	3.5
Swivel Bracket	3	H105	4.5
Thrust Rollers or Pads Swivel Bracket (Both)		H106	0.2
Stern Bracket (One or Both)		H107	1.5
Lower Motor Mount Bracket		H110	3.5
Shift Lever		H111	1.5
Tilt Tube		H114	1.0
Trail Lock Arm - Motor Support		H115	0.3
Lever and Shaft - Trail Lock		H116	0.3
Lever - Tilt Lock		H119	0.3
Adapter, Powerhead to Exhaust Housing		H120	6.5
Upper Motor Mounts		H121	4.1
Exhaust Housing - Outer	1	H122	6.8
Exhaust Housing - Inner - Upper	1	H123	6.5
Exhaust Housing - Inner - Lower		H124	2.5
Water Tube and/or Upper Grommet		H125	5.2
Lower Motor Mounts		H126	1.5
Exhaust Back Pressure Fitting		H127	1.2
Gearcase	Note	Code	Time
Gearcase Assembly	2, 11	G101	2.0
Gearcase Assembly - Reseal (Complete)	1	G102	3.8
Gearcase Housing Only - Replace	1	G103	5.0
Pinion Bearing - Replace	1	G104	5.4
Propshaft Bearing Housing - Replace		G105	1.2
Propshaft Bearing Housing - Rebuild	7	G106	1.4
Reverse Gear Only - Replace	1	G107	1.3
Lower Driveshaft or Upper Bearing Housing Replace (requires shimming)	1	G108	4.0
Shift Rod Cover/Bushing/O-Ring	1	G109	2.5
Propshaft or Shifter Clutch Dog	1	G110	4.0
Forward and/or Pinion Gear	1	G111	5.0
Shift Housing and/or Forward Bearing Assembly	1	G112	4.8
Water Pump or Upper Bearing Housing Reseal		G113	2.0
Additional Time for Pressed Rear Bearing Carrier		GX02	0.4
Fuel System / Oil System	Note	Code	Time
Intake Manifold/Reed Plate - Repair/Replace	6	F107	1.9
Fuel Hoses or Connectors - Repair/Replace		F116	0.5
Fuel Lift Pump Assembly		F121	1.0

200, 225, 250 90° V6 (200 CU. IN. / 3.3 L) EVINRUDE E-TEC

Fuel System / Oil System - Continued	Note	Code	Time
Fuel Filter Assembly		F122	0.5
Sensor, Water in Fuel		F123	0.5
Vapor Separator and Electric Fuel Pump Assembly		F126	1.0
Oil Injector Assembly - Replace Manifold Assembly	8	F127	1.5
Rear Oil Pump Assembly		F128	1.0
Sensor, Oil Pressure		F131	0.5
Fuel Injector Assembly - Replace or Service (One)	4,5	F134	1.5
Fuel Injector Assembly - (Each Additional)	4,5	FX34	0.5
Fuel Rails (One or Both) or All O-Rings	5	F135	2.2
Throttle Body Assembly		F137	0.5
Electrical / Ignition	Note	Code	Time
Flywheel	6	E101	0.7
Stator	6	E103	2.0
Ignition Coil Assembly (One)		E111	2.0
Ignition Coil Assembly (Each Additional)	5	E112	0.4
Engine Wiring Harness		E117	1.5
Switch, Shift Assist		E118	1.0
Electric Starter Motor - Replace		E120	1.0
Electric Starter Motor - Repair		E121	2.0
Solenoid - Electric Start		E123	1.0
Sensor, Temperature		E126	1.0
EMM Assembly	1,3,6,12	E127	2.0
EMM – Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	1.0
Sensor, Throttle Position (TPS)		E135	1.2
Sensor, Air Temperature (AT)		E137	0.5
Capacitor		E138	0.7
Sensor, Cylinder Knock (One or Both)		E142	1.0
Actuator, Shift ["DE" / ICON equipped model only]	1,8	E143	1.5
Actuator, Throttle ["DE" / ICON equipped model only]	1,8	E144	1.5
Electronic Servo Module (ESM) ["DE" / ICON equipped model only]	1,8	E145	1.5
Fuse, 30amp, ESM ["DE" / ICON equipped model only]		E146	0.5
Engine Identity Plug (0, 1, 2, 3 or 4) ["DE" / ICON equipped model only]		E147	0.5
Plate, Actuator Mounting ["DE" / ICON equipped model only]	8	E148	2.0
Link, Throttle Actuator ["DE" / ICON equipped model only]		E149	0.5
Link, Shift Actuator to Lever ["DE" / ICON equipped model only]	8	E150	1.5
Power Trim	Note	Code	Time
Power Trim and Tilt Assembly - Replace	2	T101	1.8
Manifold - Rebuild/Replace		T102	3.0
Motor and Cable Assembly – Replace		T103	1.6
Motor and Cable Assembly – Rebuild		T104	2.1
Valve Body and Pump Assembly. - Replace		T105	2.2
Reservoir – Replace		T107	1.6
Trim Cylinder - Repair (One)		T108	2.1
Trim Cylinder - Repair (Both)		T109	2.3
Tilt Cylinder – Repair		T110	2.3
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, Etc.		T113	2.0
Relay Assembly, TNT		T115	0.8
Switch, TNT (Lower Motor Cover)		T117	0.7
Sending Unit		T121	1.0
Switch, Trim Limit		T122	1.0

250HO, 300 90° V6 (210 CU. IN. / 3.4 L) EVINRUDE E-TEC

Powerhead	Note	Code	Time
Powerhead Assembly – Replace*	2,6, 11	P101	11.4
*Additional time to re-configure ICON [DE/ICON-equipped models only]		PX01	2.0
Cylinder Head and Gasket (One)		P102	2.7
Cylinder Head and Gasket (Both)		P103	3.7
Thermostat Assembly (One)		P106	1.7
Thermostat Assembly (Both)		P107	2.0
Cylinder and Crankcase Assembly - Reseal	1,6	P109	6.2
Cylinder and Crankcase Assembly - Rebuild	1,6	P110	13.5
Crankshaft Assembly - Replace	1,6	P111	9.5
Crankshaft Seal, Upper	6	P112	3.0
Crankshaft Seal, Lower		P113	4.2
Main Bearing, Upper	6	P114	3.0
Main Bearing, Lower		P115	4.8
Gasket, Crankcase to Adapter		P117	3.9
Valve, Pressure Relief Assembly		P121	1.0
Midsection	Note	Code	Time
Cover, Lower Engine (One or Both)	11	H101	0.5
Steering Arm Assembly		H102	3.5
Swivel Bracket	1, 3	H105	4.5
Thrust Rollers or Pads (Both)		H106	0.2
Stern Bracket (One or Both)		H107	1.5
Mount Bracket - Lower		H110	3.5
Lever, Shift		H111	1.5
Tilt Tube		H114	1.0
Arm, Trail Lock Motor Support		H115	0.3
Lever and Shaft, Trail Lock		H116	0.3
Lever, Tilt Lock		H119	0.3
Rubber Mount Assembly – Upper		H121	4.1
Housing, Exhaust - Outer	1	H122	6.8
Adaptor, Exhaust – Inner	1	H123	6.5
Housing, Exhaust – Lower Inner		H124	2.5
Water Tube and/or Upper Grommet	1	H125	5.2
Rubber Mount – Lower		H126	1.5
Fitting, Exhaust Back Pressure		H127	1.2
Gearcase	Note	Code	Time
Gearcase Assembly	2, 11	G101	2.0
Gearcase Assembly - Reseal (Complete)	1	G102	3.8
Gearcase (Housing Only) – Replace	1	G103	5.0
Bearing, Pinion - Replace	1	G104	5.4
Propeller Shaft Bearing Housing - Replace		G105	1.2
Propeller Shaft Bearing Housing - Rebuild	7	G106	1.4
Gear, Reverse Only - Replace	1	G107	1.3
Lower Driveshaft or Upper Bearing Housing - Replace (requires shimming)	1	G108	4.0
Shift Rod (Cover/Bushing/O-Ring)	1	G109	2.5
Propeller Shaft or Clutch Dog (Shifter)	1	G110	4.0
Gear, Forward and/or Pinion	1	G111	5.0
Shift Housing and/or Forward Bearing Assembly	1	G112	4.8
Water Pump		G113	2.0
Additional Time for Pressed Rear Bearing Carrier		GX02	0.4
Fuel System / Oil System	Note	Code	Time
Intake Manifold/Reed Plate - Repair/Replace	6	F107	1.9
Fuel Hoses or Connectors - Repair/Replace		F116	0.5
Fuel Lift Pump Assembly		F121	1.0

250HO, 300 90° V6 (210 CU. IN. / 3.4 L) EVINRUDE E-TEC

Fuel System / Oil System - Continued	Note	Code	Time
Lift Pump Assembly (Lower), Fuel		FX21	0.5
Fuel Filter Assembly		F122	0.5
Sensor, Water in Fuel		F123	0.5
Fuel Vapor Separator & Pump		F126	1.0
Oil Pump	8	F127	1.5
Oil Pump Assembly (Rear)		F128	1.0
Sensor, Oil Pressure		F131	0.5
Fuel Injector Assembly - Replace or Service (One)	4,5	F134	1.5
Fuel Injector Assembly - (Each Additional)	4,5	FX34	0.5
Fuel Rail Assembly (One or Both) or All O-Rings	5	F135	2.2
Throttle Body Assembly or Gasket		F137	0.5
Electrical / Ignition	Note	Code	Time
Flywheel	6	E101	0.7
Stator	6	E103	2.0
Ignition Coil (One)		E111	2.0
Ignition Coil (Each Additional)		E112	0.4
Harness, Engine		E117	1.5
Switch, Shift Assist		E118	1.0
Starter Motor Assembly - Replace		E120	1.0
Starter Motor Assembly - Repair		E121	2.0
Solenoid, Electric Start		E123	1.0
Sensor, Engine Temperature (ET)		E126	1.0
EMM Assembly	1,3,6,12	E127	2.0
EMM – Software Reprogram	10	EP10	0.5
Sensor, Crankshaft Position (CPS)	6	E128	1.0
Sensor, Throttle Position (TPS)		E135	1.2
Sensor, Air Temperature (AT)		E137	0.5
Capacitor		E138	0.7
Sensor, Knock (One or Both)		E142	1.0
Actuator, Shift ["DE" / ICON equipped model only]	1,8	E143	1.5
Actuator, Throttle ["DE" / ICON equipped model only]	1,8	E144	1.5
Module , Electronic Servo (ESM) ["DE" / ICON equipped model only]	1,8	E145	1.5
Fuse, ESM - 30amp ["DE" / ICON equipped model only]		E146	0.5
Plug ,Engine Identity (0, 1, 2, 3 or 4) ["DE" / ICON equipped model only]		E147	0.5
Plate, Actuator Mounting ["DE" / ICON equipped model only]	8	E148	2.0
Link, Throttle Actuator ["DE" / ICON equipped model only]		E149	0.5
Link, Shift Actuator to Lever ["DE" / ICON equipped model only]	8	E150	1.5
Power Trim (TNT) / Hydraulic Assembly	Note	Code	Time
Hydraulic Assembly - Replace	2	T101	1.8
Manifold - Rebuild/Replace		T102	3.0
Motor and Cable Assembly - Replace		T103	1.6
Motor and Cable Assembly - Rebuild		T104	2.1
Valve Body and Pump Assembly - Replace		T105	2.2
Reservoir & Cap Assembly - Replace		T107	1.6
Trim Cylinder - Repair (One)		T108	2.1
Trim Cylinder - Repair (Both)		T109	2.3
Tilt Cylinder - Repair		T110	2.3
Manual Release Valve		T112	0.5
Internal Valves, Spring, O-Rings, Etc.		T113	2.0
Relay Assembly, TNT		T115	0.8
Switch, TNT (Lower Motor Cover)		T117	0.7
Sending Unit Assembly		T121	1.0
Switch, Tilt Limit		T122	1.0

ACCESSORIES



CONTROLS

Mechanical Controls (See ICON System for digital controls)	Note	Code	Time
Remote Control Assembly - External Mount - Replace		R101	1.4
Remote Control Assembly - External - Repair	***	R102	1.2
Remote Control Assembly - Binnacle Mount - Replace		R103	1.6
Remote Control Assembly - Binnacle - Repair	***	R104	1.3
Remote Control Assembly - Concealed Mount - Replace		R105	1.8
Remote Control Assembly - Concealed Mount - Repair	***	R106	2.0
Handle, Shift and Throttle Control - Replace		R107	0.7
Shift or Throttle Cable - Replace		R108	1.0
Switch, Trim (Control Handle)		R109	1.0
Horn (Clamped to Modular Wiring Harness)		R110	0.7
Horn (Mounted Inside Control Box)		R111	1.2
Switch, Ignition/Key (in Dash)		R112	0.5
Switch, Stop (in Dash)		R113	0.7
Modular Wiring Harness (Engine to Dash)		R114	1.4

*** Remote control repair includes the repair or replacement of any internal component such as switches, levers, cams or electrical cables etc.

SYSTEMS CHECK GAUGES

Analog Gauges	Note	Code	Time
Replace Gauge - One		GR1	0.5
Replace Gauge - Each Additional		GR2	0.3
Instrument Panel		GR3	1.0

FUEL SYSTEM

Fuel System	Note	Code	Time
Fuel Tank - Manifold Repair or Replace (3 or 6 Gallons)		F118	0.8
Oil Tank - Pick Up Assembly		F119	1.5

TILLER ARM

Tiller Arm	Note	Code	Time
Tiller Arm Assembly (Complete) – Replace		DT01	2.2
Switch, Ignition/Key		DT02	0.7
Button, Start (15HO – 30hp only)		DT03	0.5
Switch, Stop & Lanyard (15HO – 30hp only)		DT04	1.0
Switch, Trim		DT05	1.0
Cable, Shift / Throttle – Replace (One or both)		DT06	0.5
Cable, Shift / Throttle - Adjustment (Factory built tiller models only)	1	DT07	1.3
Lever / Handle, Shift (15HO – 30hp only)		DT08	1.3
Lever / Handle, Shift (all others)		DT09	0.3
Device, Steering Friction (15HO – 30hp only)		DT10	0.7
Handle, Steering		DT11	1.4
Handle, Steering (Inner) / Twist Grip Assembly		DT12	1.4
Control, Throttle Friction		DT13	1.8
Harness, Wiring - Replace		DT14	1.2

I-COMMAND

Digital Gauges	Note	Code	Time
Replace Gauge		ID01	0.5
Replace Gauge - Each Additional		ID02	0.3
Harness - EMM		ID03	1.0
Harness Kit - Ignition, TNT / 12ft - 28ft		ID04	1.5
Harness Kit - Ignition, TNT / 15ft - 25ft (Dual Engine)		ID05	2.0
Harness Kit - Ignition, TNT / 20ft - 25ft (Triple Engine)		ID06	2.5
Harness Adapter - Multiple Engine / 6ft – 10ft		ID07	1.5
Tee		ID08	0.5
Terminator		ID09	0.5
Power Supply (Single Engine)		ID10	0.5
Power Supply (Multiple Engine)		ID11	1.0
Cable, Network BUSS (1ft – 6 ft)		ID12	0.5
Cable, Network BUSS (15ft – 25ft)		ID13	1.0
Converter, Fuel Level - I0		ID14	1.0
Converter, Fuel Level - I1		ID15	0.5
Converter, Fuel Level - I2		ID16	1.0
Converter, Fuel Level (Un-configured)		ID17	1.0
Sender, Oil (1.8 gal.)		ID18	1.5
Sender, Oil (3.0 gal.)		ID19	1.5
Converter - Oil Level - I0		ID20	1.0
Converter - Oil Level - I1		ID21	1.0
Converter - Oil Level - I2		ID22	1.0
Sensor, Water Pressure (block mounted)		ID23	0.5
Sensor, Water Pressure - Engine - I0 (NMEA style)		ID24	1.0
Sensor, Water Pressure - Engine - I1 (NMEA style)		ID25	1.0
Sensor, Water Pressure - Engine - I2 (NMEA style)		ID26	1.0
Hose - Water Pressure Kit		ID27	1.5
Elbow - Water Pressure Kit		ID28	0.5
Adaptor – Wiring Harness Assembly		ID29	0.5
GPS - Quick Mount		ID31	1.0
GPS - Module		ID32	1.5
Speed and Fuel Economy Kit		ID33	2.0
Memory Module		ID34	1.0
Sensor, Sea Water Temperature		ID35	1.5
Speedometer, Paddle Wheel		ID36	1.5
Tri-ducer - Transom Mount		ID37	1.5
Transducer - Transom Mount		ID38	1.5
Tri-ducer - Thru Hull		ID39	2.0
Gauge - Software Update		ID40	0.5

ICON Gauges

Digital Gauges	Note	Code	Time
Replace Gauge – 5 in. & 3.5 in.		IG01	1.0
Replace Gauge – 2 in.		IG02	0.5
Replace Gauge - Each Additional		IG03	0.5
Harness - Tachometer Gauge		IG03	1.0
Harness - Speedometer Gauge		IG04	1.0
Harness - 2 in. Gauge		IG05	0.5
Harness, Analog Input		IG06	0.5
Switch, Backlight Adjustment (Dimmer)		IG07	0.5
Tee - Connector		IG08	0.5
Terminator		IG09	0.5
Power Supply (Single Engine)		IG10	0.5
Power Supply (Multiple Engine)		IG11	1.0

ICON System

Digital Controls and NMEA Network	Note	Code	Time
Actuator, Shift		IE01	1.0
Actuator, Throttle		IE02	1.0
Backbone, Buss Cable – 20ft, 25ft		IE03	0.5
Extension, Buss Cable - 1ft, 2ft, 4ft		IE04	0.5
Extension, Buss Cable – 10ft, 15ft, 20ft		IE05	1.0
Electronic Servo Module (ESM)		IE06	1.0
Fuse, 3 Amp, Key (Master Power)		IE07	0.5
Fuse, 10 Amp, Network Power Cable		IE08	0.5
Fuse, ESM (30amp)		IE09	0.5
Gateway Module		IE10	1.0
Hub, 6-Port		IE11	1.5
Switch Panel, Ignition/Key (Master Power)		IE12	0.5
Switch Panel, Key / Start / Stop (One or Two Engines)		IE13	0.7
Cable, Network Power – (10ft or 25ft)		IE14	0.5
Plug, Engine Identity (0, 1, 2, 3 or 4)		IE15	0.5
Remote Control, Binnacle (Single) - 1 Engine	1	IE16	1.6
Remote Control, Binnacle (Dual) - 2, 3, 4, 5 Engines	1	IE17	1.6
Remote Control, Concealed Side Mount (CSM) - 1 Engine	1	IE18	2.0
Panel, Start / Stop Switch – 2, 3, 4, 5 Engines		IE20	0.7
Panel, Start / Stop Switch – Concealed Side Mount (CSM) Control		IE21	0.5
Trim Plate, Control Head		IE22	0.5
Panel, Trim / Tilt Switch - 3, 4, 5 Engines		IE23	0.7
Plate, Actuator Mounting		IE24	1.5
Link, Throttle Actuator		IE25	0.5
Link, Shift Actuator	8	IE26	1.5

MISCELLANEOUS

VOUCHERS - FLUID AND MISCELLANEOUS

The following part numbers have been established to issue credit vouchers. These part numbers represent an average amount of gearcase lube, power trim and tilt fluid, and engine oil used when making warranty repairs. Select the correct part number from the following list and enter it in the "List All Parts Used in Repair" section of the warranty claim form.

Part Number	Outboard Gearcase Lube	Dealer Net U.S.	Dealer Net CA
090102	4-15 HP 2 & 4 Stroke	\$3.40	\$4.11
090103	25-70 HP 2 & 4 Stroke	\$10.15	\$11.20
090104	2 & 4 Stroke V-4	\$12.76	\$14.08
090105	V-6	\$12.76	\$14.08

IMPORTANT: Gearcase lube dollar amounts (Dealer Net) are based on a single gallon quantity using Evinrude/Johnson HPF-Pro™

Part Number	Engine Oil	Dealer Net U.S.	Dealer Net CA
090303	E-TEC® engine oil	7.05	7.75

IMPORTANT: Engine oil dollar amounts (Dealer Net) are a single quart (based on 55-gallon bulk quantity).

Part Number	Miscellaneous Category	Dealer Net U.S.	Dealer Net CA
090301	Paint, Primer, Degreaser, or Marine Cleaner	\$6.50	\$6.95
090302	Heli – Coil Insert	\$1.00	\$1.20
090304	Trim & Tilt – Outboard	\$2.50	\$2.95
090305	Rope Manual Start – Outboard	\$3.92	\$4.32
090306	Bulk Hose - Outboard	\$4.19	\$4.61

ADDITIONAL ALLOWANCE

Outboard	Note	Code	All others	3 Cyl	V4	V6
Saltwater Allowance (for Major Assembly only)	1,3	Y102	0.3	0.4	0.5	0.5
Priming and Painting		Y103	0.6	0.7	0.8	0.9
Heli-Coil Repair (One)	2	Y104	0.3	0.3	0.3	0.3

1. Y102 Saltwater allowance may not be used on new motors.
2. May be used in conjunction with other flat rate codes that may be needed to expose the area to be repaired.
3. Major assembly examples include: powerhead, gearcase, exhaust housing

NOTE: See Fluid and Miscellaneous section of this manual for part numbers for paint, Heli-Coils, etc.

CUSTOMER COMMENT CODES

BRP has revised the customer comment codes to assist our Quality Assurance Department. This change will help BRP identify and correct any problem areas in a timely manner. New numbers have been assigned to these codes. We now have fewer codes, which will make your selection easier.

These comment codes are to be used to describe the condition of the failing part number used on the claim. Choose the comment code from the list that is best suited for the failure.

Cosmetics/Paint

- 201 - Chipped
- 202 - Peeling/Flaking
- 203 - Cracked
- 204 - Scratched/Scraped
- 205 - Run/Sag
- 206 - Blistered
- 207 - Corrosion

Shipping/Packaging

- 210 - Missing part in package
- 211 - Wrong part in package
- 212 - Damaged in shipment

General

- 208 - Missing part on engine
- 209 - Wrong part on engine
- 213 - Grounded/Shorted
- 214 - Open circuit
- 215 - Burned
- 216 - High output
- 217 - No/Low output
- 218 - Warning malfunction
- 219 - Erratic/Intermittent
- 220 - Adjustment
- 221 - Foreign material
- 222 - Noisy
- 223 - Mis-machined
- 224 - Mis-assembled
- 225 - Tight/Sticking
- 226 - Kinked/Bent
- 227 - Seized/Scuffed
- 228 - Restricted
- 229 - Pinched
- 230 - Fractured/Broken
- 231 - Split
- 232 - Stripped
- 233 - Loose
- 234 - Leaking
- 235 - Cut
- 236 - Deformed/Warped
- 237 - Rounded
- 238 - Software Revision
- 239 - Field Campaign

This Business Reply Form is for your convenience to request a review of a Flat Rate Time Standard. The information you provide will assist in our efforts to pay for warranty work fairly. Thank you for your help.

Address: _____ Phone: _____
 City, State, _____
 Zip: _____ Date: _____
 Engine _____ Serial # _____
 Model #: _____ (Optional): _____

Did the type of boat significantly affect repair time? _____

Make of Boat: _____ Model: _____ Year: _____

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

In House use only:

Authorization

NOTES

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