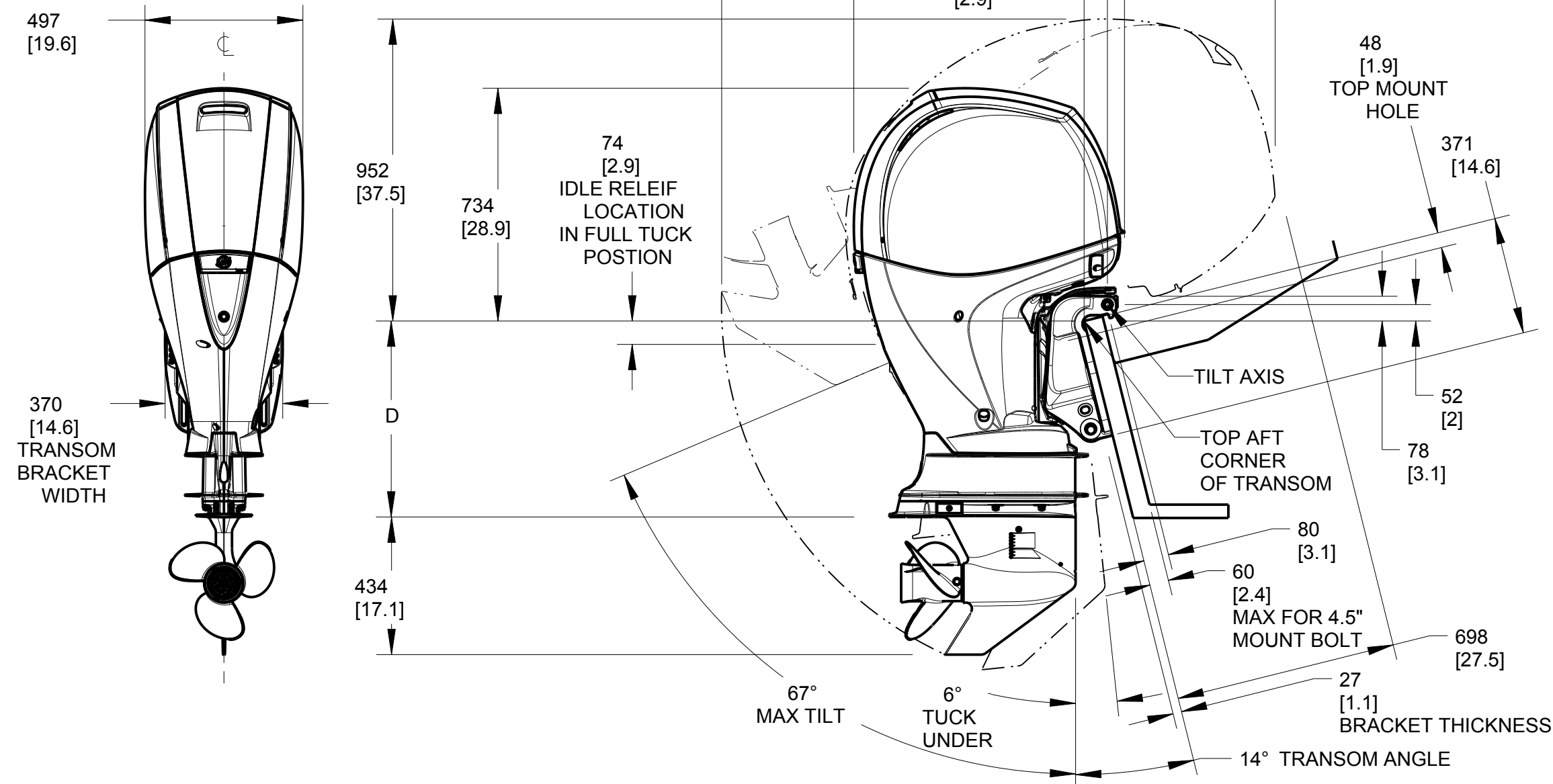


**NOTES:**

1. TORQUE TRANSM MOUNTING BOLTS TO 55± 5 lb-ft
2. PRIMARY DIMENSION UNITS ARE IN METRIC.  
INCH UNITS ARE WITHIN PARENTHESIS.
3. TILT POSITION IS BASED ON ABYC-S-12 14 DEGREE TRANSM ANGLE.  
A TRANSM WITH AN ANGLE GREATER THAN 14 DEGREE WILL REDUCE THE MAXIMUM TILT ANGLE AND INCREASE TUCK UNDER ANGLE.
4. DIMENSION FROM BOAT TRANSM ARE WHEN OUTBOARD IS MOUNTED THRU TOP OUTBOARD TRANSM BRACKET HOLE.  
HOLES ARE SPACED 19MM [3/4"] APART.
5. SEE ABYC S-12 STANDARD FOR ALL OTHER MOTOR WELL DIMENSIONS.
6. CG LOCATIONS FOR SPRUNG MASS PORTION OF OUTBOARD AND ASSUME A NUETRAL POSITION WITH NO ENGINE FLUIDS.

- LONG SHAFT:  
352.9 mm [13.9"] AFT OF THE TILT TUBE  
81.6 mm [3.21"] ABOVE THE TILT TUBE.
- EXTRA LONG SHAFT:  
309.0 mm [12.17"] AFT OF THE TILT TUBE  
52.6 mm [2.07"] ABOVE THE TILT TUBE.
7. DRY WEIGHT:  
150 L = 206 KG (455 LB.)  
150 XL = 211 KG (465 LB.)



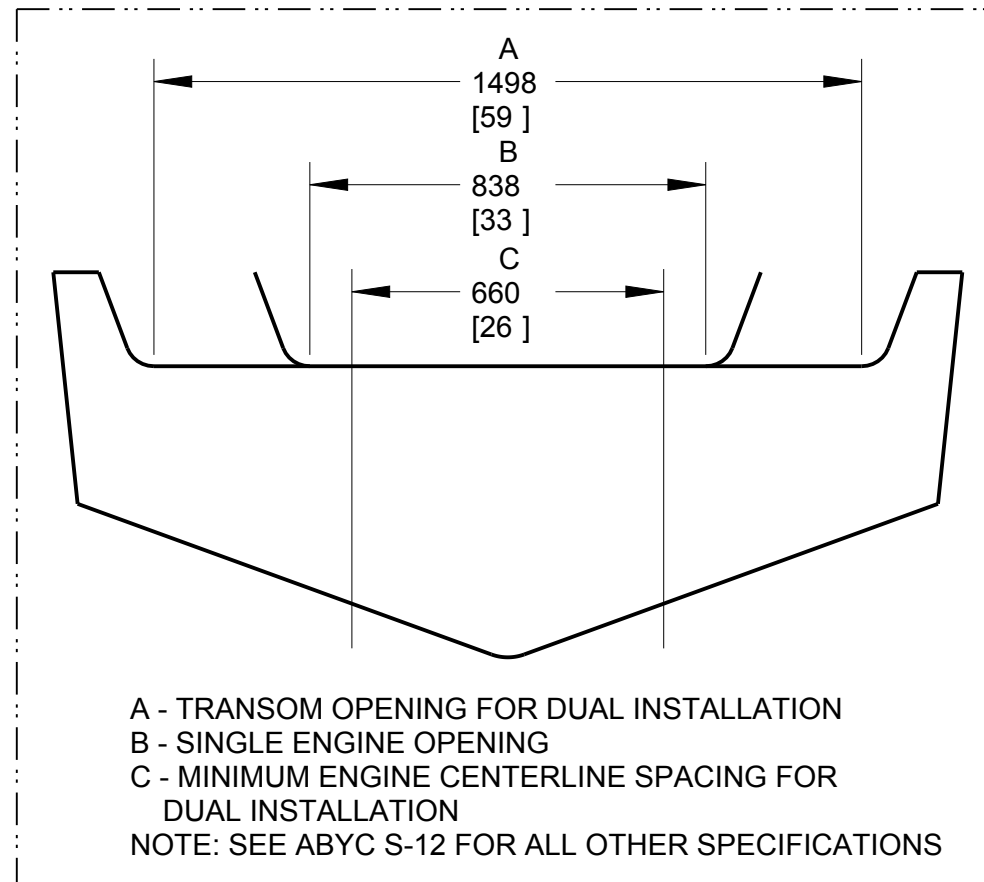
LET	REVISIONS	BY	DATE	ECN/CP
A	DRAWING RELEASED	GEA	7-NOV-2011	27324-11

MODEL 150HP 4-STROKE		
	LONG SHAFT	EXTRA LONG SHAFT
D	491 [19.3]	618 [24.3]
E	1026 [40.3]	1143 [45]

0 KPC'S PER MERC SPEC M-251-G AS NOTED BY <input type="checkbox"/> OR <input type="checkbox"/>		
TOTAL KPC'S FOR ALL DRAWING SHEETS		
MATERIAL	NA PER MERC SPEC:	
FINISH	NA PER MERC SPEC:	
REF SPECS	M-251-G	
THE INFORMATION CONTAINED IN THIS DOCUMENT IS TO BE TREATED AS TRADE SECRET AND CONFIDENTIAL TO MERCURY MARINE		
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994		
THIRD ANGLE PROJ	UNLESS OTHERWISE SPECIFIED	
	METRIC TOLERANCE	ALL DIMENSIONS ARE IN MILLIMETERS DIMENSIONS ARE AFTER PLATING BREAK ALL SHARP EDGES CHAM. TAPPED HOLES 90° X THD DIA MACHINED SURFACES <input checked="" type="checkbox"/> THREAD LENGTH = FULL THREADS
SCALE: 1:16	LINEAR	±
DO NOT SCALE	ANGLES	±
MANUF CAST	MATL ENG	
MANUF MACH / ASSY	PROCUREMENT	
QUALITY	PRODUCT LINE	TITLE
APPROVED	DATE	150-4S
S. HALLEY	7-NOV-2011	INSTALLATION DRAWING
CHECKED	DESIGNED	PART NUMBER
T. KRUPP	G. ANDERSON	8M0054886
		SHEETS
		1 of 2

**NOTES:**

1. STATIC WATERLINE MUST BE BELOW THE IDLE RELIEF OPENING (LOCATED AT REAR OF OUTBOARD) WHEN OUTBOARD IS AT FULL TUCK. INCREASE OUTBOARD MOUNTING HEIGHT OR ADJUST BOAT LOAD IF IDLE RELIEF IS BELOW STATIC WATERLINE AT FULL TUCK.
2. ALL MODELS ARE SHIPPED WITH 12 ft. OF 4 AWG BATTERY CABLES. MAX. LENGTH IS THE SUM OF BOTH POSITIVE AND NEGATIVE CABLES
3. TRANSOM DRILLING FIXTURE P/N: 98234A2
4. FLYWHEEL PULLER/OUTBOARD LIFTING PLATE P/N: 91-895343T02.
5. ENGINE PROPPING RPM RANGE:  
150hp = 5000-5800
6. FUEL LINE ID = 9.5 mm (3/8 IN.).
7. A FUEL LINE PRIMER BULB IS NOT REQUIRED BUT MAY BE INSTALLED.
8. GAS/OIL/LUBRICATION SPECIFICATIONS:  
MINIMUM FUEL OCTANE RATING:  
USA AND CANADA = 87 (R+M)/2  
OUTSIDE USA AND CANADA +90 RON  
ENGINE OIL:  
NMMA FC-W SYNTHETIC BLEND SAE 25W-40  
NMMA FC-W 10W-30  
GEARCASE OIL:  
HIGH PERFORMANCE GEAR LUBE P/N 92-883722K01  
HYDRAULIC STEERING FLUID:  
HYDRAULIC HELM STEERING FLUID P/N:862014Q1
9. RIGGING AND SENSOR KITS:  
SMARTCRAFT PITOT SENSOR KIT P/N:8M0059530  
SMARTCRAFT WATER PRESSURE KIT P/N: 8M0059531  
TRIM LIMIT KIT P/N: 8M0059532  
DIGITAL TO ANALOG TRIM SENSOR CONVERTER P/N: 8M0059529  
WATER SEPERATING FUEL FILTER KIT P/N:8M0059528



LET	REVISIONS	BY	DATE	ECN/CP
A	DRAWING RELEASE	GEA	7-NOV-2011	27324-11

**OUTBOARD TRANSOM MOUNTING HARDWARE - SHIPPED WITH OUTBOARD**

PART NO.	PART NAME	DESCRIPTION
10-67755-1	TRANSOM BOLT	1/2 IN. x 20 x 4.50 IN. (2.25 IN. THREAD)
11-826711-17	NYLON INSERT LOCKNUT	1/2 IN. x 20 x 0.609 IN. THICK
12-28421	WASHER - INNER	0.516 IN. ID x 1.50 IN. OD x .0125 IN. THICK
12-54012	WASHNER - OUTER	0.53 IN. ID x 0.87 IN. OD x 0.1046 IN. THICK

**AVAILABLE TRANSOM MOUNTING BOLTS**

PART NO.	PART NAME	DESCRIPTION
10-67755005	TRANSOM BOLT	1/2 IN. x 20 x 2.5 IN. (1.25 IN. THREAD)
10-67755006	TRANSOM BOLT	1/2 IN. x 20 x 3.5 IN. (1.25 IN. THREAD)
10-814259	TRANSOM BOLT	1/2 IN. x 20 x 4.00 IN. (2.25 IN. THREAD)
10-67755-1	TRANSOM BOLT	1/2 IN. x 20 x 4.50 IN. (2.25 IN. THREAD)
10-67755003	TRANSOM BOLT	1/2 IN. x 20 x 5.50 IN. (3.25 IN. THREAD)
10-67755-2	TRANSOM BOLT	1/2 IN. x 20 x 6.50 IN. (2.75 IN. THREAD)
8M0028080	TRANSOM BOLT	1/2 IN. x 20 x 7.50 IN. (2.75 IN. THREAD)

**BATTERY CABLES (SEE NOTE 2)**

AWG	MAX LENGTH - METERS/(FEET)
2	12.2 (40)
1	15.2 (50)
1/0	19.6 (64)
2/0	24.4 (80)

0 KPC'S PER MERC SPEC M-251-G AS NOTED BY  OR   
 TOTAL KPC'S FOR ALL DRAWING SHEETS

MATERIAL XXX  
 PER MERC SPEC:

FINISH XXX  
 PER MERC SPEC:

REF SPECS M-251-G

THE INFORMATION CONTAINED IN THIS DOCUMENT IS TO BE TREATED AS TRADE SECRET AND CONFIDENTIAL TO MERCURY MARINE

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

UNLESS OTHERWISE SPECIFIED	
METRIC	TOLERANCE
LINEAR	±
ANGLES	±
MANUF CAST	MATL ENG
MANUF MACH / ASSY	PROCUREMENT
QUALITY	PRODUCT LINE
APPROVED	DATE
CHECKED	DESIGNED
TITLE	
PART NUMBER	
SHEETS	



150-4S  
 INSTALLATION DRAWING  
 8M0054886  
 2 OF 2