



MID-SECTION

Section 5A - Clamp/Swivel Brackets & Driveshaft Housing

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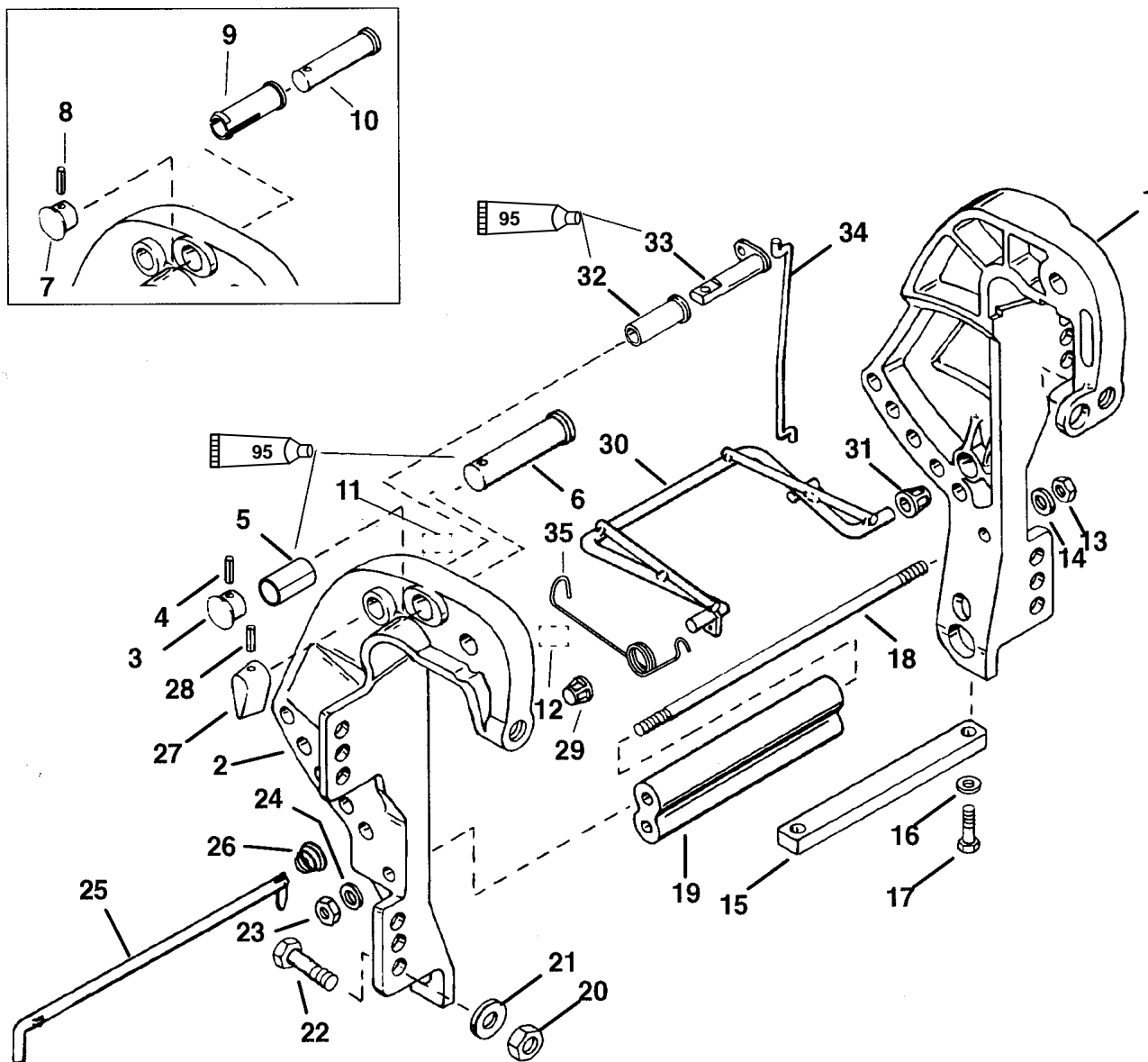
Specifications

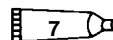
MID-SECTION	Transom Height: Short Shaft Long Shaft Steering Pivot Range Tilt Pin Positions Full Tilt Up Angle Allowable Transom Thickness	15 in. (38 cm) 20 in. (51 cm) 90° 5 + Shallow Water 70° 2-3/8 in. (60.3 mm)
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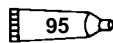




CLAMP BRACKET (Remote Control)



 7 Loctite 271 Thread Locker

 95 2-4-C Marine Lubricant with Teflon

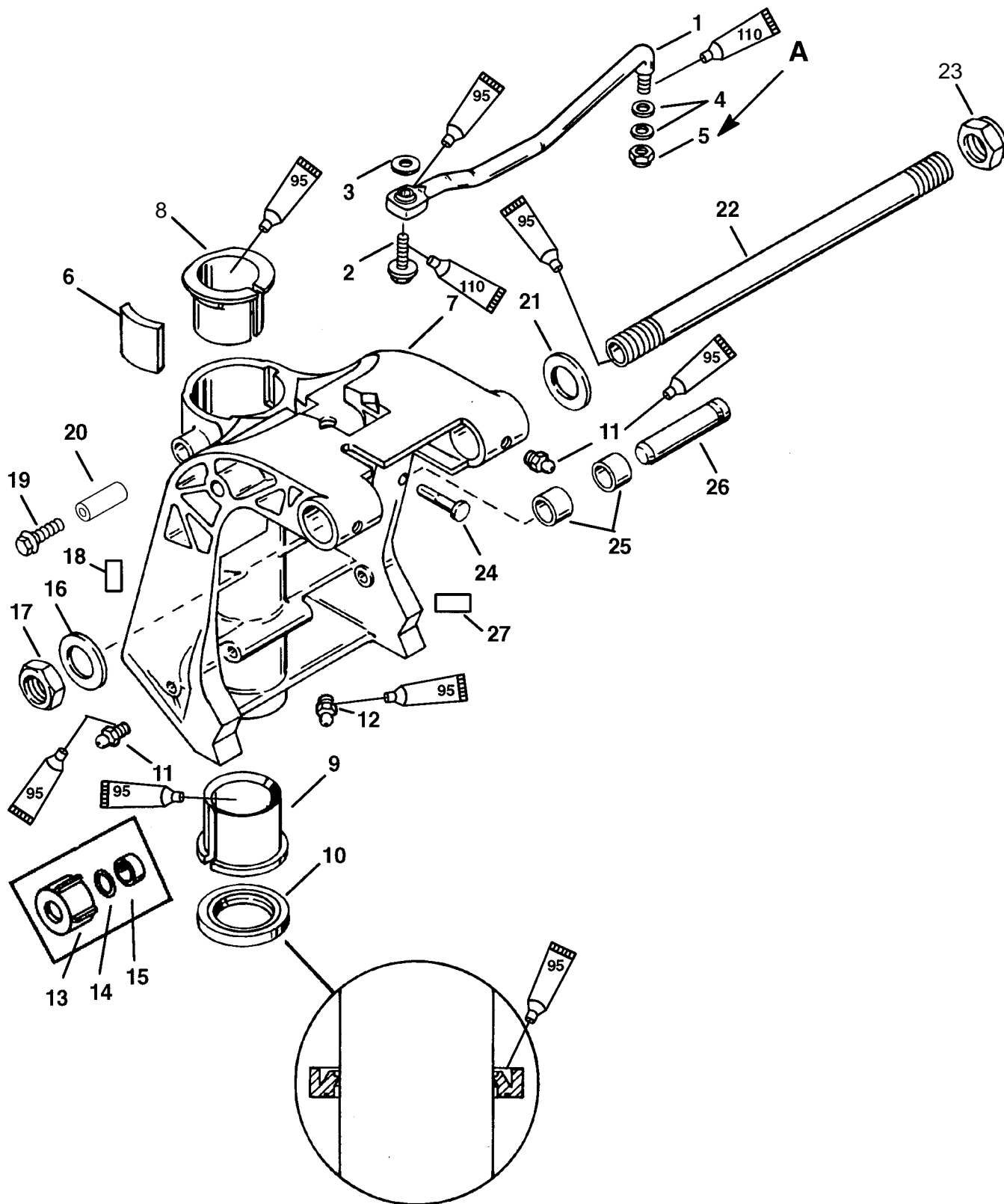


CLAMP BRACKET (Remote Control)

REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N-m
1	1	CLAMP BRACKET (PORT) (BLACK)			
	1	CLAMP BRACKET (PORT) (GRAY)			
	1	CLAMP BRACKET (PORT) (GRAND CANYON) (BLACK)			
2	1	CLAMP BRACKET (STBD) (BLACK)			
	1	CLAMP BRACKET (STBD) (GRAY) USE W/ .56 O.D. Ref. #10			
	1	CLAMP BRACKET (STBD) (GRAND CANYON) (BLACK)			
	1	CLAMP BRACKET (STBD) (BLACK)			
	1	CLAMP BRACKET (STBD) (GRAY) USE W/ .75 O.D. Ref. #6			
	1	CLAMP BRACKET (STBD) (GRAND CANYON) (BLACK)			
	1	CLAMP BRACKET (STBD) (GRAND CANYON) (BLACK)			
3	1	CAP-Tilt Stop Pin			
4	1	ROLL PIN O.D. of Ref. # 6 is .75 &			
5	1	BUSHING Ref. # 5 is NOT FLANGED			
6	1	PIN-Tilt Stop			
7	1	CAP-Tilt Stop Pin			
8	1	ROLL PIN O.D. of Ref. # 10 is .56 &			
9	1	BUSHING Ref. # 9 is FLANGED			
10	1	PIN-Tilt Stop			
11	1	DECAL-Shallow Water			
12	1	DECAL-Tilt Lock			
13	1	NUT (M10 x 1.5)		28	38
14	1	WASHER			
15	1	ANODE			
16	2	WASHER NON GRAND CANYON			
17	2	SCREW (M6 x 25)	60		7
18	1	STUD (M10 x 277)			
19	1	SPACER			
20	4	NUT (M10 x 1.5)		Drive Tight	
21	4	WASHER			
22	4	SCREW (.500-20 x 4 IN.)			
23	1	NUT (M10 x 1.5) NON GRAND CANYON		28	38
24	1	WASHER			
25	1	TILT LOCK PIN			
26	1	SPRING			
27	1	LEVER-Shallow Water Drive			
28	1	ROLL PIN			
29	1	BUSHING (PLASTIC)			
30	1	ROD-Shallow Water Drive			
31	1	BUSHING (PLASTIC)			
32	1	BUSHING			
33	1	ARM			
34	1	LINK ROD			
35	1	SPRING			



SWIVEL BRACKET



 2-4-C Marine Lubricant with Teflon

 4-Stroke Outboard Oil

A = TORQUE NUT 120 lb. in. (13.5 N.m) AND THEN BACK OFF 1/4 TURN.

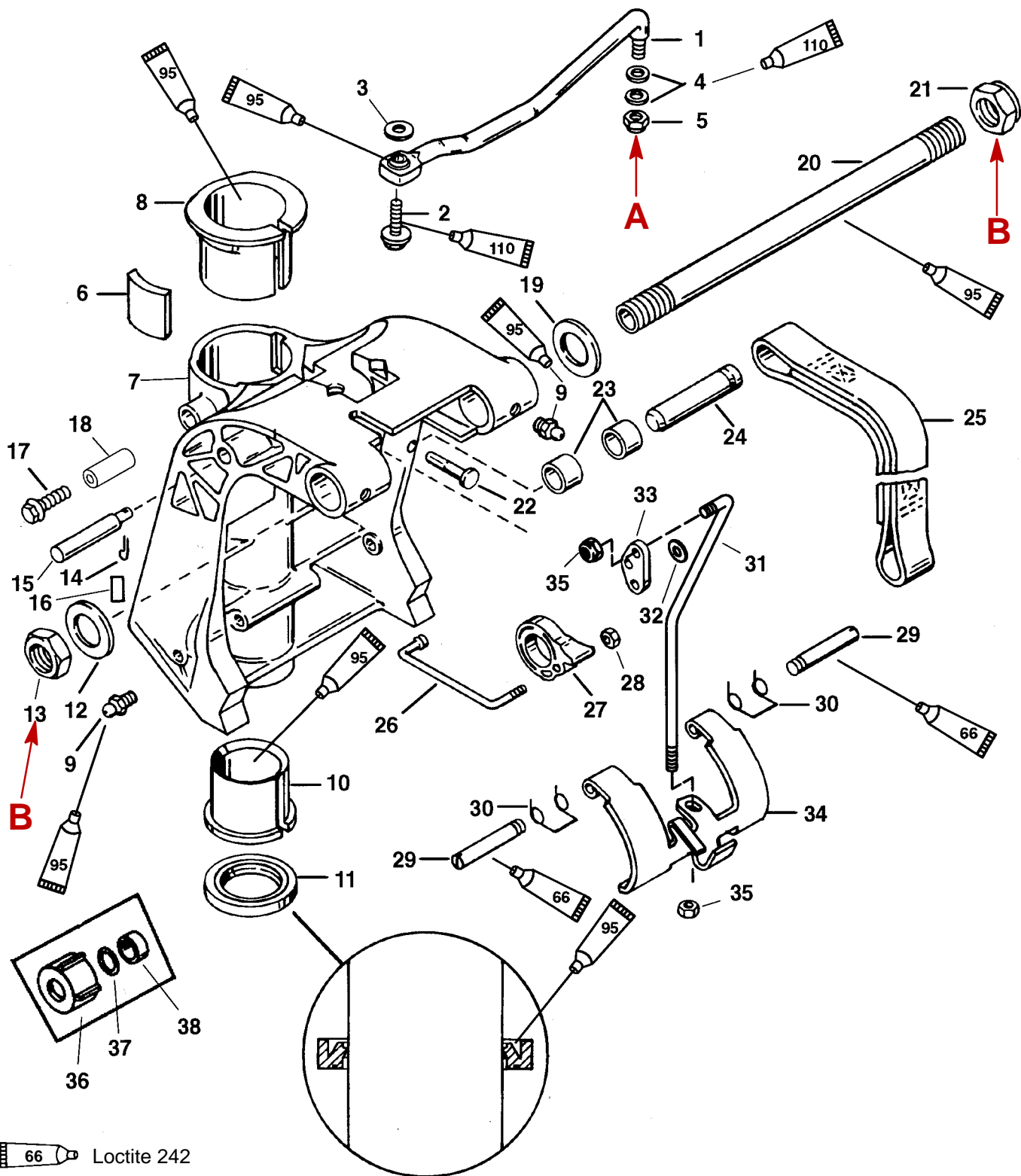
**SWIVEL BRACKET**

REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N·m
1	1	LINK ROD			
2	1	SCREW (1-1/2 IN.)		20	27.0
3	1	WASHER NON HANDLE			
4	2	WASHER			
5	2	NUT (.375-24)	120*		13.5*
6	1	PUCK (ELECTRIC)			
7	1	SWIVEL BRACKET (BLACK)			
	1	SWIVEL BRACKET (GRAY)			
8	1	BUSHING			
9	1	BUSHING (LOWER)			
10	1	SEAL			
11	3	GREASE FITTING	33		3.5
12	1	GREASE FITTING (HANDLE)	33		3.5
13	1	SEAL KIT			
14	1	O RING NON HANDLE			
15	1	SPACER			
16	1	WASHER			
17	1	NUT (.875-14)			
18	1	DECAL-Serial Overlamine			
19	1	SCREW (M8 x 10) MANUAL HANDLE			Drive Tight
	1	SCREW (M8 x 25) ELECTRIC			Drive Tight
20	1	SEAL			
21	1	WASHER			
22	1	TILT TUBE			
23	1	NUT			
24	1	PIN (TRILOBE)			
25	2	BUSHING			
26	1	PIVOT PIN (UPPER)			
27	1	DECAL-Co-pilot			

A = TORQUE NUT 120 lb. in. (13.5 N.m) AND THEN BACK OFF 1/4 TURN.



SWIVEL BRACKET (Remote Control)



66 Loctite 242

95 2-4-C Marine Lubricant with Teflon

110 4-Stroke Outboard Oil

A = TIGHTEN NUT UNTIL IT SEATS AND THEN BACK OFF 1/4 TURN.

B = TIGHTEN NUT TO 32 LB. FT. (43 N.M) AND THEN BACK OFF 1/4 TURN.

**SWIVEL BRACKET (Remote Control)**

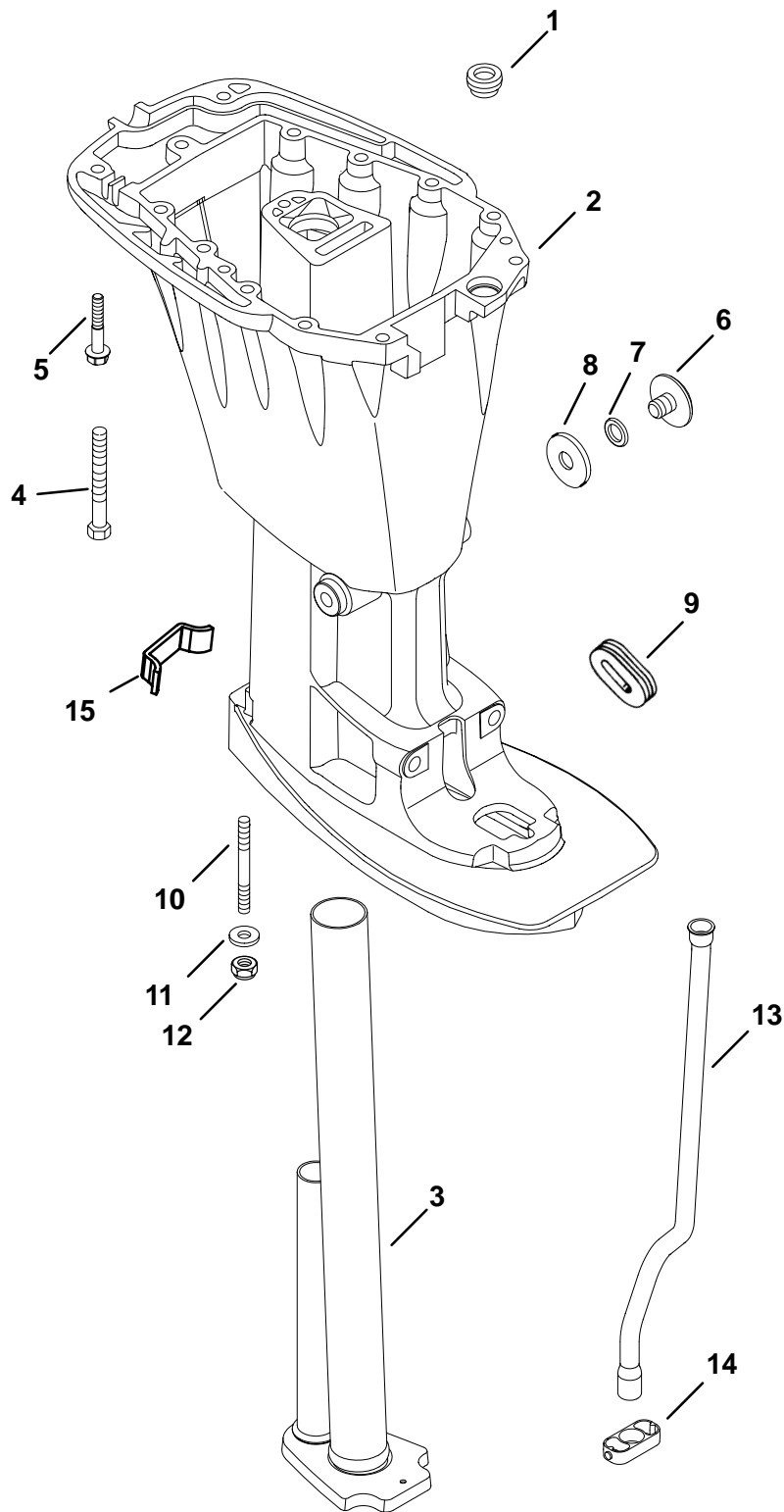
REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N-m
1	1	LINK ROD			
2	1	SCREW (1-1/2 IN.)	240	20	27
3	1	WASHER			
4	2	WASHER			
5	2	NUT (.375-24)	*		
6	1	PUCK-Co-pilot			
7	1	SWIVEL BRACKET ASSEMBLY (BLACK)			
	1	SWIVEL BRACKET ASSEMBLY (GRAY)			
8	1	BUSHING (UPPER)			
9	3	GREASE FITTING			
10	1	BUSHING (LOWER)			
11	1	SEAL			
12	1	WASHER			
13	1	NUT (.875-14)			
14	1	COTTER PIN			
15	1	PIVOT PIN-Reverse Lock			
16	1	DECAL-Serial Overlaminates			
17	1	SCREW (M8 x 1.25 x 25)		Drive Tight	
18	1	SEAL			
19	1	WASHER			
20	1	TILT TUBE			
21	1	NUT (.875-14)	**		
22	1	PIN (TRILOBE)			
23	2	BUSHING			
24	1	PIVOT PIN (UPPER)			
25	1	STRAP-Tilt Stop			
26	1	LINK-Reverse Lock (UPPER)			
27	1	LEVER-Reverse Lock			
28	1	NUT	90		10
29	2	PIN-Reverse Lock			
30	2	SPRING-Reverse Lock			
31	1	LINK-Reverse Lock			
32	1	WASHER			
33	1	ARM-Reverse Lock			
34	1	REVERSE LOCK			
35	2	NUT			
36	1	SEAL			
37	1	O RING			
38	1	SPACER			

***A** = TIGHTEN NUT UNTIL IT SEATS AND THEN BACK OFF 1/4 TURN.

****B** = TIGHTEN NUT TO 32 LB. FT. (43.4 N.M) AND THEN BACK OFF 1/4 TURN.



DRIVESHAFT HOUSING



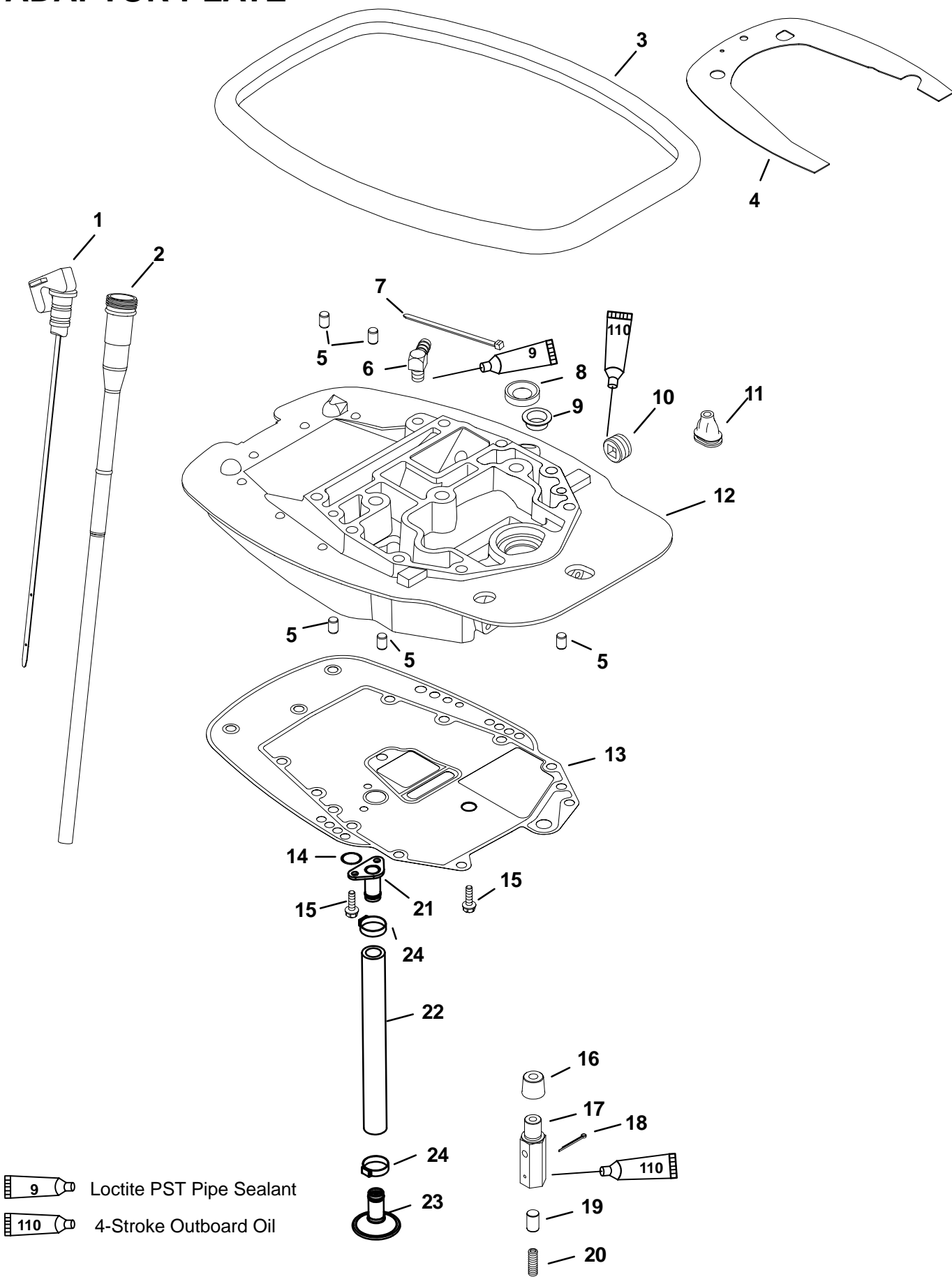


DRIVESHAFT HOUSING

REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N-m
1	1	SEAL–water tube			
2	1	DRIVESHAFT HOUSING (SHORT) (BLACK)			
	1	DRIVESHAFT HOUSING (SHORT) (GRAY)			
	1	DRIVESHAFT HOUSING (LONG) (BLACK)			
	1	DRIVESHAFT HOUSING (LONG) (GRAY)			
3	1	EXHAUST PIPE (SHORT)			
	1	EXHAUST PIPE (LONG)			
4	8	SCREW–Adaptor Plate		28	38
5	5	SCREW (M8 x 45)		28	38
6	1	DRAIN PLUG		17.5	23.5
7	1	GASKET			
8	2	BUMPER			
9	1	GROMMET (LONG)			
10	1	STUD	144		16.5
11	1	WASHER			
12	1	NUT		40	54
13	1	WATER TUBE (SHORT)			
	1	WATER TUBE (LONG)			
14	1	GUIDE			
15	1	BUMPER (LONG)			



ADAPTOR PLATE



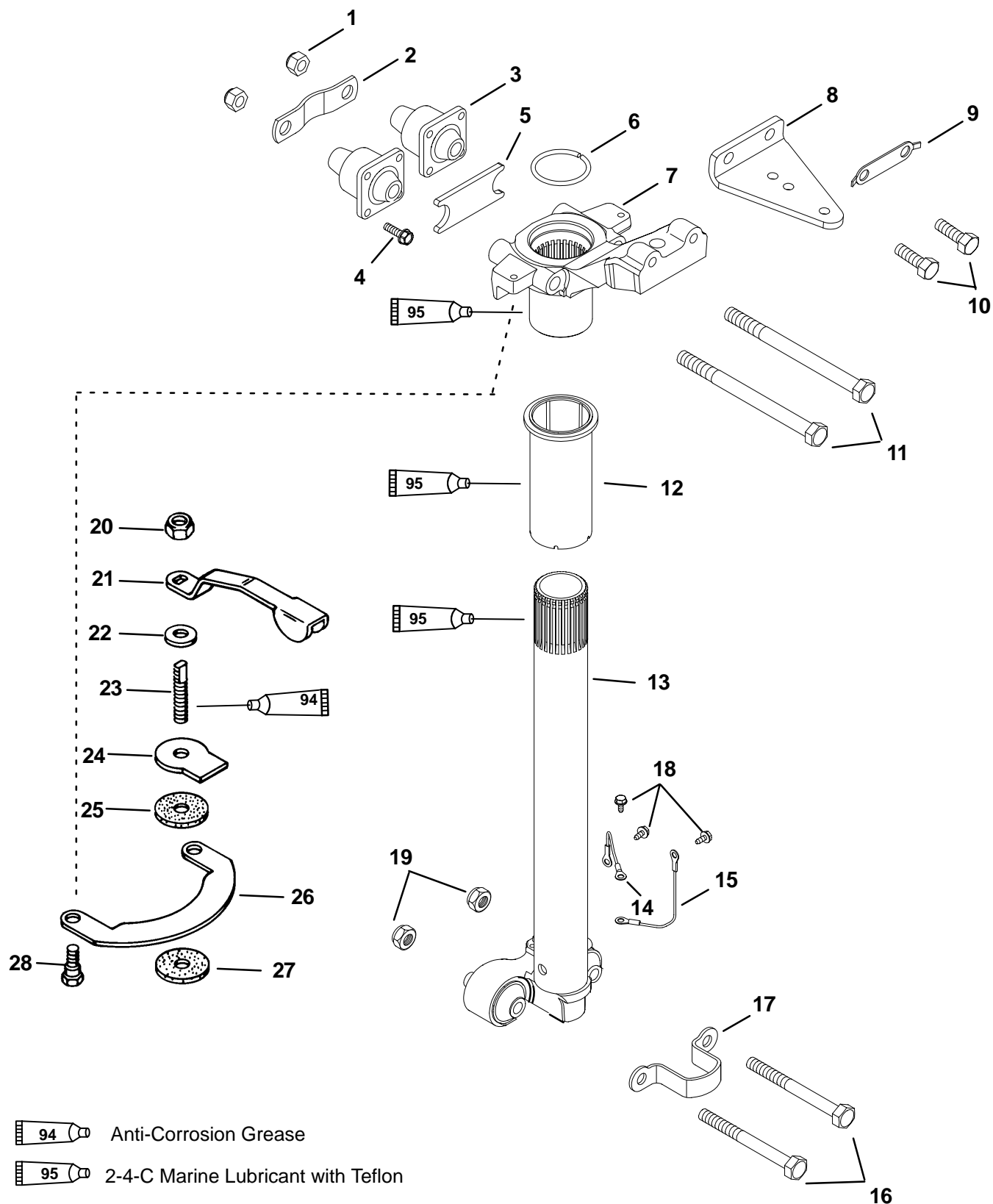


ADAPTOR PLATE

REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N-m
1	1	DIPSTICK			
2	1	DIPSTICK TUBE			
3	1	SEAL			
4	1	HEAT SHIELD			
5	5	DOWEL PIN			
6	1	ELBOW			
7	2	STA-STRAP			
8	1	SEAL-driveshaft			
9	1	BUSHING			
10	1	PLUG-oil passage			
11	1	GROMMET			
12	1	ADAPTOR PLATE			
13	1	GASKET			
14	1	O RING			
15	3	SCREW (M6 x 1 x 20)	75		8.5
16	1	DEFLECTOR-Oil			
17	1	BODY-oil pressure relief		34	46
18	1	COTTER PIN			
19	1	PLUNGER			
20	1	SPRING			
21	1	PLATE-Top Oil Pickup			
22	1	HOSE-Oil Pickup			
23	1	BAFFLE			
24	2	CLAMP			



STEERING ARM



**STEERING ARM**

REF. NO.	QTY.	DESCRIPTION	TORQUE		
			lb. in.	lb. ft.	N-m
1	2	NUT		50	68
2	1	STRAP			
3	2	MOUNT			
4	8	SCREW (M6 x 20)	130		14.7
5	1	BUMPER			
6	1	RETAINING RING			
7	1	STEERING ARM (BLACK)			
	1	STEERING ARM (GRAY)			
8	1	BRACKET			
9	1	TAB WASHER ELECTRIC			
10	2	SCREW (M10 x 1.5 x 30)		32.5	44
11	2	BOLT (M12 x 1.75 x 154)		50	68
12	1	SPACER (SHORT)			
	1	SPACER (LONG)			
13	1	SWIVEL TUBE (SHORT)			
	1	SWIVEL TUBE (LONG)			
14	1	GROUND STRAP			
15	1	GROUND STRAP			
16	2	BOLT (M10 x 1.5 x 105)		32.5	44
17	1	BRACKET			
18	3	SCREW(SELF-TAPPING)	Drive Tight		
19	2	NUT	25		2.8
20	1	NUT (.375-24)	25		2.8
21	1	LEVER-Co-Pilot			
22	1	WASHER			
23	1	ROD (THREADED) HANDLE			
24	1	BRACKET PLATE			
25	1	DISC			
26	1	PLATE			
27	1	DISC			
28	2	SCREW (Hex Shoulder)	70		8.0