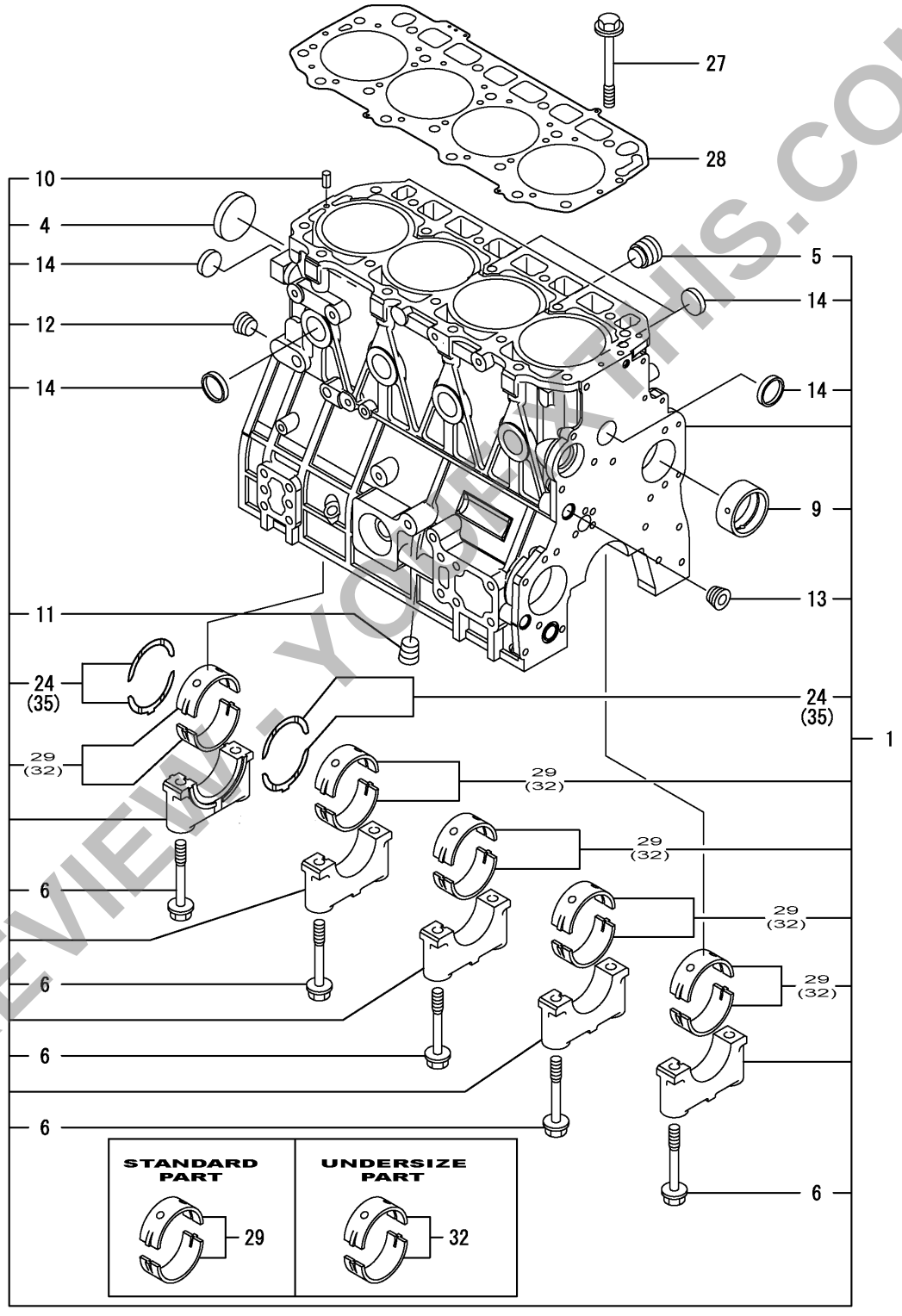
CYLINDER BLOCK



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Ref. No.	Part No.	Description	Quantity 4TNV98
1	197827	BLOCK ASSY, CYLINDER (ZNMS, ZNMS2, ZNGT AND ZNTBL)	1
	197831	BLOCK ASSY, CYLINDER (T-ZNMS, T-ZXNMS, T-ZXNMS2 AND T-ZNTBL)	1
4	186486	PLUG 55	1
5	425-34722	PLUG	1
6	186491	BOLT, METAL CAP	10
9	186493	BUSH, CAMSHAFT	1
10	425-34783	SPRING PIN 6 X12	2
11	425-36260	PLUG PT3/8, SCREW	1
12	425-36260	PLUG PT3/8, SCREW	1
13	425-36260	PLUG PT3/8, SCREW	1
14	425-34726	PLUG 30	8
24	186494	BEARING ASSY, THRUST	2
27	186485	BOLT, HEAD	18
28	186513	GASKET, CYLINDER HEAD	1
29	186635	MAIN BEARING SET	5
32	197591	MAIN BEARING OS=0.25	5
35	197592	BEARING, THRUST OS=0.25	2

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TORQUE SPECIFICATIONS

Use these torque values when tightening hardware (excluding locknuts, and self-tapping, thread-forming, and sheet metal screws) unless otherwise specified.

UNIFIED NATIONAL THREAD	GRADE 2		GRADE 5		GRADE 8	
	DRY	LUBED	DRY	LUBED	DRY	LUBED
8-32	19*	14*	30*	22*	41*	31*
8-36	20*	15*	31*	23*	43*	32*
10-24	27*	21*	43*	32*	60*	45*
10-32	31*	23*	49*	36*	68*	51*

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Introduction

This manual covers the Yanmar 4TNV98-ZNMS (and Turbocharged version), the 4TNV98T-ZXNMS, the 4TNV98-ZNMS2, the 4TNV98-ZNGT, the 4TNV98T-ZXNMS2, and 4TNV98-ZNTBL (and Turbocharged version) engines with the following part numbers:

TABLE 1. Engines Covered In This Parts Manual

Engine Part Number	Engine Model	Machine Make/Model	Serial Number Ranges
192809	4TNV98-ZNMS	Mustang 2066	005551 - 006100
192809	4TNV98T-ZNMS	Mustang 2076/2086	Mustang 2076: 005151 - 005700

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Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
105602	16	11	138123	40	29	186300	64	21	186391	8	58
137930	54	25	138127	4	21	186301	42	75	186391	14	55
137935	52	6	138127	58	8	186302	30	6	186401	8	35
137947	4	33	138127	60	8	186302	36	21	186401	10	39
137948	4	20	138130	4	28	186303	38	61	186401	14	34
137949	4	45	138132	38	15	186303	42	61	186406	8	3
137950	66	30	138132	40	15	186308	52	22	186406	10	5
137953	30	11	138133	4	22	186311	42	64	186406	14	1
137953	32	11	138136	36	31	186314	8	30	186407	50	40
137953	34	11	138139	4	5	186314	10	34	186410	8	21
137953	36	11	138140	8	49	186314	14	29	186410	10	25

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Ref. No.	Part No.	Description	Quantity ZNTBL/T-ZNTBL
1	197615	COOLER ASSY, OIL (T-ZNTBL)	1
2	197481	O-RING (T-ZNTBL)	1
3	186587	STUD, LUB.OIL FILTER (ZNTBL)	1
	138072	BOLT, L.O.COOLER (T-ZNTBL)	1
4	197616	BRACKET, OIL COOLER (T-ZNTBL)	1
5	188567	JOINT (T-ZNTBL)	1
6	197619	PIPE, COOLING WATER (T-ZNTBL)	1
7	138093	ELBOW PT3/8 (T-ZNTBL)	1
8	186442	PIPE, C.W. (T-ZNTBL)	1
10	186443	PROTECTER, CW-T (T-ZNTBL)	1
11	137953	CLAMP 140 (T-ZNTBL)	1
12	197790	CLAMP 25 (T-ZNTBL)	4
13	186609	O-RING 1A G-60.0	1
14	197606	DIPSTICK (ZNTBL)	1
	197870	DIPSTICK (T-ZNTBL)	1
15	425-34825	GUIDE, DIPSTICK	1
16	425-34827	O-RING 1A P-10A	1
17	186569	CASE ASSY, LUB. OIL (ZNTBL)	1
	186451	CASE ASSY, LUB. OIL (T-ZNTBL)	1
19	186582	ADAPTER	1
20	186580	COVER	1
21	186302	STUD, LUB.OIL FILTER	1
22	195568	FILTER 80 X 80L	1
23	197734	BRACKET ASSY, LUB.OIL (ZNTBL)	1
	186570	SPACER(LO, FILTER (ZNTBL ONLY - NOT SHOWN)	1
	197740	BRACKET ASSY, LUB.OIL (T-ZNTBL)	1
25	186582	ADAPTER	2
26	197735	PIPE, LUB.OIL (ZNTBL)	1
	197744	PIPE, LUB.OIL (ZNTBL)	1
	197482	LO-T (T-ZNTBL)	2
27	186665	CLAMP 200 (T-ZNTBL)	1
28	186666	PROTECTOR (T-ZNTBL)	1
29	186595	SEAL WASHER 30S	1
30	186610	O-RING 1A G70.0,NBR (T-ZNTBL)	1
31	425-34766	BOLT M8 X 50 PLATED (ZNTBL)	2
	138136	BOLT M10 X 45 PLATED (T-ZNTBL AND ZNTBL)	2
32	138100	O-RING P20	1
33	186508	PIPE ASSY, LUB.OIL	1
38	425-34729	BOLT M8 X 12 PLATED	2
39	197710	GUIDE, DIPSTICK	1
40	186574	DIPSTICK (ZNTBL)	1
	197712	OIL, DIPSTICK (T-ZNTBL)	1

Following Parts Are For ZNTBL Engines Only

Ref. No.	Part No.	Description	Quantity ZNTBL
41	425-34684	SWITCH, (0.5KG)L.O.	1
42	197633	PIPE ASSY, LUB.OIL	1
43	186421	SUPPORT, PIPE	1
44	186468	BOLT ASSY, JOINT	2
45	425-34750	SEAL WASHER 8S	2
46	186600	JOINT BOLT 3	2
47	425-34750	SEAL WASHER 8S	2
48	425-34729	BOLT M8 X 12 PLATED	1
49	186565	PIPE	1
50	186300	BOLT, PIPE JOINT	2
51	425-34750	SEAL WASHER 8S	4
52	197711	GUIDE, LO GAUGE, CMP	1

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