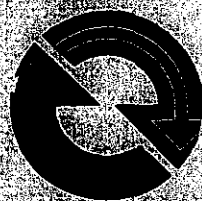


Detroit Diesel Engines



Detroit Diesel
Allison

Detroit
Diesel
Engines



Sales Tech
Data Book V
Vol. 2
Hydraulic
Housing
Data

SALES TECH DATA BOOK V

VOLUME 2

ENGINE FLYWHEEL HOUSING DATA



Detroit Diesel Allison
Division of General Motors Corporation

13400 West Outer Drive
Detroit, Michigan 48228



Detroit Diesel Allison

Division of General Motors Corporation

GENERAL MOTORS CORPORATION ■ 13400 West Outer Drive Detroit, Michigan, 48228
IN CANADA GENERAL MOTORS DIESEL LIMITED ■ LONDON ONTARIO

SALES TECHNICAL DATA BOOK V VOL. 2 18SA0105-02

Name _____

Address _____

Check each number of each supplement mailing as received and insert the pages in your Application Data Book at once.

1 ☐	16 ☐	31 ☐	46 ☐
2 ☐	17 ☐	32 ☐	47 ☐
3 ☐	18 ☐	33 ☐	48 ☐
4 ☐	19 ☐	34 ☐	49 ☐
5 ☐	20 ☐	35 ☐	50 ☐
6 ☐	21 ☐	36 ☐	51 ☐
7 ☐	22 ☐	37 ☐	52 ☐
8 ☐	23 ☐	38 ☐	53 ☐
9 ☐	24 ☐	39 ☐	54 ☐
10 ☐	25 ☐	40 ☐	55 ☐
11 ☐	26 ☐	41 ☐	56 ☐
12 ☐	27 ☐	42 ☐	57 ☐
13 ☐	28 ☐	43 ☐	58 ☐
14 ☐	29 ☐	44 ☐	59 ☐
15 ☐	30 ☐	45 ☐	60 ☐

IMPORTANT!

PLEASE COMPLETE AND MAIL
THE YELLOW REGISTRATION
CARD TO OBTAIN ALL REVISED
TECH DATA SUPPLEMENTS FOR
THIS BOOK IN THE FUTURE!

FIRST CLASS
PERMIT
No. 10688
Detroit, Michigan

BUSINESS REPLY CARD

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY

DETROIT DIESEL ALLISON
Division General Motors Corporation
13400 W. Outer Drive
Detroit, Michigan 48228

ATT'N: Technical Publications Dept. 80
Speed Code D-9

Even though you or someone in your firm registered an earlier Tech Data Book, you must forward the above registration card NOW so we can generate a new updated mailing list. Whether transferring the contents from your old binder into a new binder, or registering a new binder with total contents, failure to forward the yellow registration card will automatically exclude you from receiving any future Data Book supplements.

THE CHANGE OF ADDRESS registration card below is designed to notify us that the designated Book Holder's name and/or address has been changed subsequent to the initial registration.

FIRST CLASS
PERMIT
No. 10688
Detroit, Michigan

CHANGE OF ADDRESS

BUSINESS REPLY CARD

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

POSTAGE WILL BE PAID BY

DETROIT DIESEL ALLISON
Division General Motors Corporation
13400 W. Outer Drive
Detroit, Michigan 48228

ATT'N: Technical Publications Dept. 80
Speed Code D-9

MAIL THIS "CHANGE OF ADDRESS" REGISTRATION CARD ONLY WHEN THE DESIGNATED BOOK HOLDER'S NAME AND/OR ADDRESS IS CHANGED!

18SA0105-02

SALES TECH DATA BOOK V VOL 2

Supplements are issued periodically to keep this Data Book current with revisions. In order to receive these future supplements, you must complete and mail this card to Detroit Diesel Allison. This card is self-addressed and requires no postage.

Book Holder _____

Company Name _____

Address _____

City _____ State _____ Zip Code _____

Comments _____

18SA0105-02

SALES TECH DATA BOOK V VOL 2

Supplements are issued periodically to keep this Data Book current with revisions. In order to receive these future supplements, you must complete and mail this card to Detroit Diesel Allison. This card is self-addressed and requires no postage.

Book Holder _____

Company Name _____

Address _____

City _____ State _____ Zip Code _____

Comments _____

INTRODUCTION

The contents of the flywheel housing book are arranged according to engine series with tab dividers also identifying the SAE housing size for each engine series.

The part number index is in numerical sequence listing the pages where various flywheel housings are located. This index also shows the SAE housing size and the Uniform Parts Classification (U.P.C.) group of the flywheel housing. The part number index on pages is followed by a sequence listing of the U.P.C. groups.

Special Note

The listing of a flywheel in the index or sketch is for information purposes only. This means that any specific housing could be inactive or unavailable.

When using this data book to select a flywheel housing, always check with the factory to determine its availability, and for any other data required.

Page A following the U.P.C. listing identifies basic flywheel housing features which are referred to at the bottom of each sketch.

Flywheel Housing Dimensions - (Pages B1, B2 and B3)

Table 1 lists the standard dimensions of flywheel housings for DDA engines. It includes the distance between the butt of the crankshaft and the mounting face of the flywheel housing, SAE size, flywheel housing length (thickness), and the location of the butt of the crankshaft in relation to the rear of the block.

Table 2 lists the non-standard dimensions of flywheel housings for similar dimension locations.

Page C lists the standard SAE dimensions of clutch housings to assist in identifying the size of a particular housing.

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5100476	205	V-92	1	723, 728
5100477	206	V-92	1	721, 725
5100872	28.1	L-71	1	577
5100873	29.1	L-71	1	
5100876	207	V-92	1	
5100895	204	V-92	1	707
5101057	29.2	L-71	1	731
5101058	100	V-71	1	732
5101096	211	V-92	2	
5101146	212	V-92	2	733
5101186	126.1	V-71	Special	
5101187	126.2	V-71	Special	
5101381	199	16V-71,92	Frnt. Cvr.	
5101382	201	16V-71,92	Frnt. Cvr.	
5101440	70	L-71	2	
5108483	125	V-71	Special	377
5108629	89	V-71	1	NP
5109173	90	V-71	1	724
5109592	30	L-71	1	700

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5110718	20	L-71	1	44, 378
5110792	9	L-71	1	247
5111760	127	L-53	2	127
5111869	35	L-71	2	
5115845	36	L-71	2	262
5115846	45	L-71	2	261
5117222	87	V-71	1/2	318
5117225	119	V-71	2	343
5118943	31	L-71	1 1/2	
5119351	159	L-53	4	
5119352	156	L-53	4	
5119812	1	L-71	1	287
5119813	21	L-71	1	286
5120608	2	L-71	1	
5121179	163	L-53	Special	
5121588	10	L-71	1	128
5122662	124	V-71	2	326
5123101	11	L-71	1	
5123633	78	V-71	0	340, 554
5123719	179	6V-53	3	
5124359	118.1	V-71	2	284
5124815	88	16V-61	1/2	394

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5125652	164	L-53	Special	338
5128765	109	V-71	1	363
5128794	169	6V-53	2	
5129014	110	V-71	1	359
5130456	19	L-71	1	
5130551	128	L-53	2	
5130745	111	V-71	1	416
5130792	86	16V-71	0	434
5130956	112	V-71	1	
5130967	91	16V-71	1	
5131712	96	16V-71	1	421
5131909	76	L-71	3	419
				485
5132222	92	V-71	1	437
5132227	93	V-71	1	436
5132240	157	L-53	4	445
5132241	160	L-53	4	
5132242	158	L-53	4	444
5132243	161	L-53	4	447
5132245	135	L-53	3	457
5132247	131	L-53	2	455, 507, 568
5132248	129	L-53	2	454

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5132249	166	6V-53	1	462
5132250	170	6V053	2	452
5132251	176	6V-53	2	556
5132252	185	6V-53	3	451
5132253	180	6V053	3	449
5132254	181	6V-53	3	450
5132256	134	L053	2	469
5132257	141	L-53	3	
5132258	149	L-53	3	471
5132259	150	L-53	3	474
5132260	147	L-53	3	472,480
5132261	136	L-53	3	475
5132263	162	L-53	4	473
5132264	154	L-53	4	476
5132265	155	L-53	4	477
5132266	167	6V053	1	
5132267	186	6V053	3	463
5132268	142	L-53	3	464
5132269	137	L053	3	465
5132270	172	6V053	2	
5132271	173	6V-53	2	467
5132282	174	6V-53	2	453
5132454	97	V-71	1	309, 315, 415 418, 551, 529

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5132465	12	L-71	1	
5132579	138	L-53	3	
5132773	151	L-53	3	479
5132965	139	L-53	3	490
5132970	79	V-71	0	
5133931	197	8V-53	3	
5133935	189	8V-53	1	528
5133938	191	8V-53	1	
5134099	177	6V-53	2	503
5134270	188	6V-53	3	511, 512
5134423	22	L-71	1	206, 514
5134513	115	V-71	1	
5135310	168	6V-53	1	532
5135608	192	8V-53	2	
5135787	195	8V-53	2	
5135938	193	8V-53	2	548
5135961	194	8V-53	2	
5136248	144	L-53	3	
5136430	80	16V-71	0	564
5136473	3	L-71	1	198
5136769	152	L-53	3	
5136997	145	L-53	3	570

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5137293	187	6V-53	3	572
5137463	47	L-71	2	
5137464	38	L-71	2	
5137694	116	V-71	1 1/2	537, 638
5138459	55	L-71	2	584
5138507	4	L-71	1	583
5138882	178	6V-53	2	586
5139075	81	16V-1	0	590
5139154	175	6V-53	2	592
5139315	148	L-53	3	
5139568	153	L-53	3	598
5139949	213	V-149	0	595
5140107	190	8V-53	1	
5140165	5	L-71	1	600
5140370	171	6V-53	2	604
5140390	170	6V-53	2	604
5140393	183	6V-53	3	603
5140558	165	L-53	Special	605
5140661	99	V-71	1	607, 612
5140991	83	V-71	0	610
5141145	69	L-71	2	643
5141887	196	8V-53	2	630

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5141895	214	V-149	0	633
5142083	94	V-71	1	
5142190	71	L-71	2	
5142321	184	6V-53	3	635
5142403	6	L-71	1	647
5142405	37	L-71	2	646
5142630	133	L-53	2	609
5142688	72	L-71	2	650
5142740	126	V-71	Special	
5142861	122	V-71	2	653
5142980	120	V-71	2	654
5143502	84	16V-71	0	649
5143779	101	V-71	1	663
5143807	198	8V-53	3	660
5143941	102	V-71	1	675
5144481	103	V-71	1	
5144544	104	V-71	1	
5144612	29	L-71	1	665, 729
5144659	105	V-71	1	667
5144661	27	L-71	1	673
5144718	57	L-71	1	35, 614
5144790	95	16V-71	1	659
5144799	23	L-71	1	670
5144952	140	L-53	3	

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSINGS

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5145038	130	L-53	2	
5145101	106	V-71	1	
5145103	107	V-71	1	
5145105	113	16V-71	1	
5145106	114	V-71	1	
5145107	26	L-71	1	408
5145108	121	V-71	2	652, 685, 687
5145110	24	L071	1	208
5145111	28	L-71	1	
5145112	13	L-71	1	
5145571	75	L-71	3	241
5145764	210	V-92	1	705
5145881	58	L-71	2	581
5146128	59	L-71	2	669
5146129	60	L-71	2	
5146130	61	L-71	2	
5146255	1	6V-53	2	688
5146378	62	L-71	2	546
5146379	63	L-71	2	664
5146380	64	L-71	2	631
5146445	73	L-71	2	706
5146712	200	16V-92	Frt. Cvr.	

INDEX BY NUMERICAL LISTING
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6B NO.
5146862	118	V-71	2	690, 691
5146866	203	V-92	0	708
5146903	146	L-53	3	701, 702, 703
5146921	108	V-71	1	
5147078	39	L-71	2	695, 696
5147079	48	L-71	2	693, 694
5147086	56	L-71	2	692
5147263				698
5147264	209	V-92	1	
5147288	208	V-92	1	722, 727
5147312	81.1	12V-71	0	697
5147796	74	L-71	2	
5148209	44.2	L-71	2	715
5148210	54.1			712
5148211	44.1	L-71	2	713
5148212	54.2	L-71	1	714
5148278	143	L-53	3	711
5148388	176.1	6V-53	2	709
5148824	202	16V-92	Frnt. Cvr.	
5148954	131.1	L-53	2	720
5151442	65	L-71	2	
5151443	67	L-71	2	

INDEX BY NUMERICAL LISTONG
OF
FLYWHEEL HOUSING

PART NO.	PAGE NO.	ENGINE SERIES	SAE SIZE	GROUP 6 B NO.
5152924	14	L-71	1	
5156804	15	L-71	1	
5157507	38.1	L-71	2	
5157508	49	L-71	2	
5162986	85	V-71	0	
5173668	40	L-71	2	
5174919	16	L-71	1	
5177302	8	L-71	1	
5177886	51	L-71	2	
5177887	41	L-71	2	
5178462	68	L-71	2	575
5173667	50	L-71	2	
5182257	17	L-71	1	
5183093	77	L-71	Special	149
5184095	18	L-71	1	
5188068	33	L-71	1 1/2	
5188070	34	L-71	1 1/2	
5189484	42	L-71	2	48
5189486	52	L-71	2	47
5189487	43	L-71	2	125
5189488	53	L-71	2	427
5189489	54	L-71	2	126
5189490	44	L-71	2	127

INDEX BY GROUP 6B

<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>	<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>	<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>
30	5165791	326	5122662	451	5132252
35	5144718	338	5125652	452	5132250
44	5110718	340	5123633	453	5132282
47	5189486	343	5117225	454	5132248
48	5189484	355	5127926	456	5132244
53	5189657	359	5129014	455	5132247
54	5189656	363	5128765	457	5132245
125	5189487	377	5108483	462	5132249
126	5189489	378	5110718	463	5132267
127	5189490	394	5124815	464	5132268
128	5121588	408	5145107	465	5132269
149	5183093	415	5132454	467	5132271
154	5170611	416	5130745	468	5132255
198	5136473	417	5131761	469	5132256
206	5134423	418	5132454	471	5132258
208	5145110	419	5131909	472	5132260
241	5145571	421	5131712	473	5132263
247	5110792	427	5189488	474	5132259
261	5115846	434	5130792	475	5132261
262	5115845	436	5132227	476	5132264
284	5124359	437	5132222	477	5132265
286	5119813	444	5132242	479	5132773
287	5119812	445	5132240	480	5132266
309	5132454	447	5132243	485	5132215
315	5132454	449	5132253	490	5132965
318	5117222	450	5132254	503	5134099

INDEX BY GROUP 6B (CONT'D)

<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>	<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>	<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>
507	5132247	595	5139449	663	5143779
511	5134270	598	5139568	664	5146379
512	5134270	600	5140165	665	5144612
514	5134423	603	5140393	667	5144659
521	5132244	604	5140370	668	5144871
528	5133935	605	5140558	669	5146128
529	5132454	607	5140661	670	5144799
532	5135310	609	5142630	673	5144661
533	5135012	610	5140991	675	5143941
537	5137694	612	5140661	685	5145108
546	5146378	614	5144718	687	5145108
548	5135938	630	5141887	688	5146255
551	5132454	631	5146380	690	5146862
554	5123633	633	5141895	691	5146862
556	5132251	635	5142321	692	5147086
564	5136430	638	5137694	693	5147079
568	5132247	640	5146230	694	5147079
570	5136997	643	5141145	695	5147078
572	5137293	646	5142405	696	5147078
575	5178462	647	5142403	697	5147312
577	5100872	649	5143502	698	5147263
581	5145881	650	5142688	699	
583	5138507	652	5145108	700	5109592
584	5138459	653	5142861	701	5146903
586	5138882	654	5142980	702	5146903
590	5139075	659	5144790	703	5146903
592	5139154	660	5143807	704	5148188

INDEX BY GROUP 6B (CONT'D)

<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>	<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>	<u>GROUP NO.</u>	<u>PART NO. HOUSING</u>
705	5145764	732	5101058		
706	5146445	733	5101146		
707	5100895	734			
708	5146866	735			
709	5148388	736			
710		737			
711	5148278	738			
712	5148210	739			
713	5148211	740			
714	5148212				
715	5148209				
716					
717	5148574				
718	DX61939				
719	5148845				
720	5148954				
721	5100477				
722	5147288				
723	5100476				
724	5109173				
725	5100477				
726	DX68511				
727	5147288				
728	5100476				
729	5144612				
730					
731	5101057				

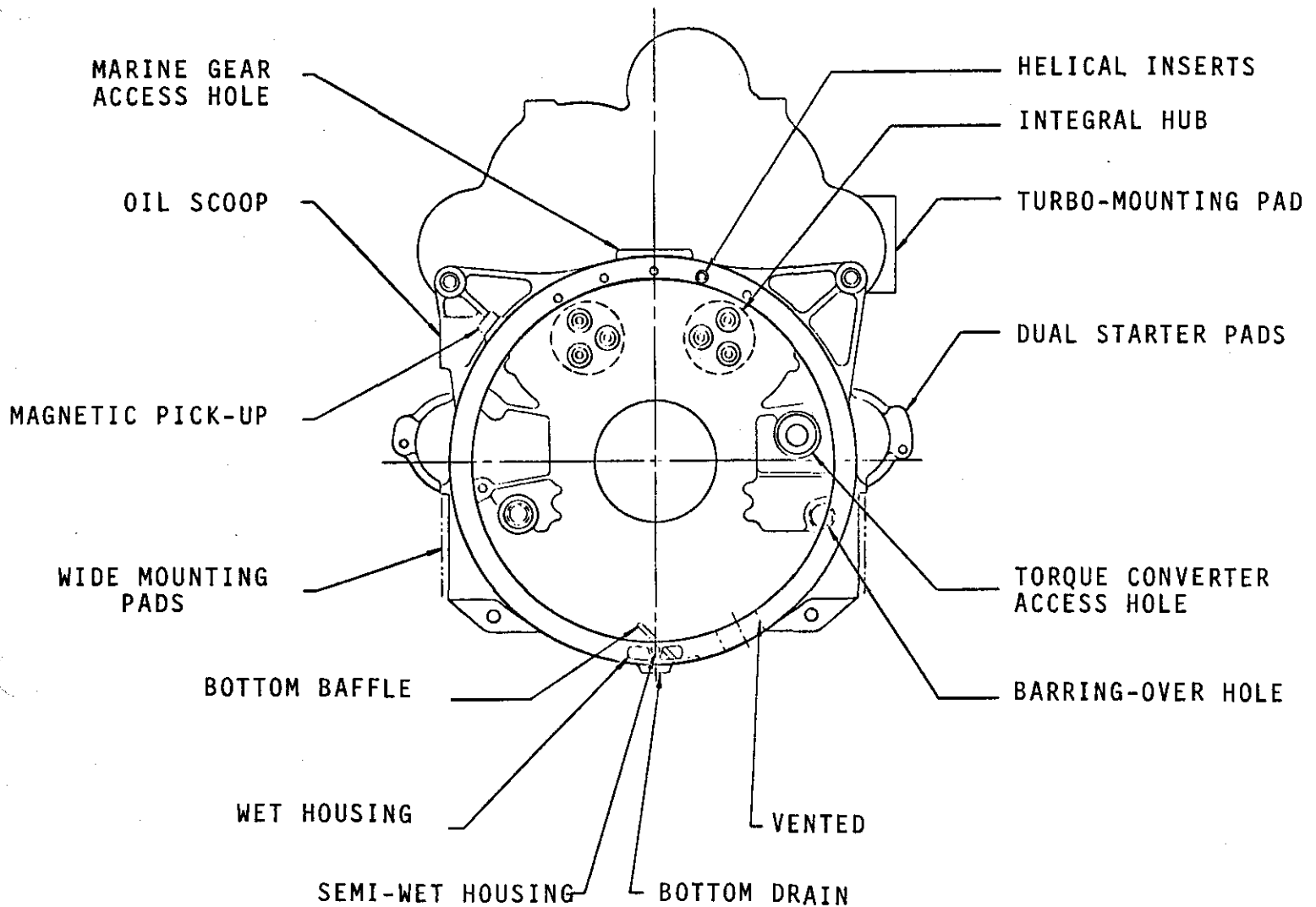
C

)

C

1957-1958

NOMENCLATURE AND IDENTIFICATION OF FLYWHEEL HOUSING FEATURES



FLYWHEEL HOUSING DIMENSIONS

Table 1

Lists the standard dimensions for the various sizes and models of flywheel housings used on D.D.A.D. engines.

Table 2

Lists the non-standard dimensions of flywheel housings by size and part number that are different from the standard dimensions as listed in Table 1.

THEORY OF THE EARTH

CHAPTER I

The Earth is a sphere, and its surface is covered by water. The land is divided into continents and islands. The continents are the large masses of land, and the islands are the smaller pieces of land. The water is divided into oceans and seas. The oceans are the large bodies of water, and the seas are the smaller bodies of water. The land is divided into countries and states. The countries are the large political divisions, and the states are the smaller political divisions. The water is divided into rivers and lakes. The rivers are the large bodies of water, and the lakes are the smaller bodies of water.

CHAPTER II

The Earth is a sphere, and its surface is covered by water. The land is divided into continents and islands. The continents are the large masses of land, and the islands are the smaller pieces of land. The water is divided into oceans and seas. The oceans are the large bodies of water, and the seas are the smaller bodies of water. The land is divided into countries and states. The countries are the large political divisions, and the states are the smaller political divisions. The water is divided into rivers and lakes. The rivers are the large bodies of water, and the lakes are the smaller bodies of water.

FLYWHEEL HOUSINGS DIMENSIONS
(STANDARDIZED)

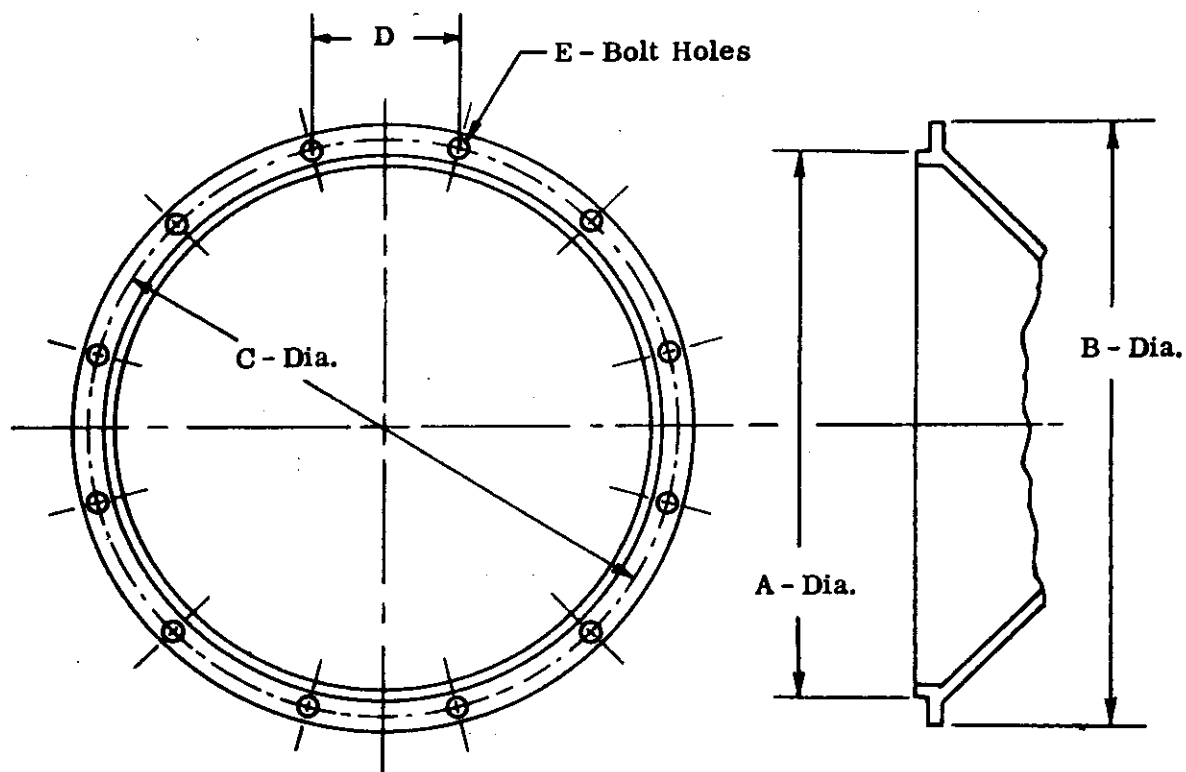
TABLE 1

Model	F/W Hsg. SAE No.	F/W Hsg. Length	Face F/W Hsg. To Butt of C/S	Rear Block To Butt of C/S
4-51	3	7.39	3.9391 $\pm$.0442	---
	2	7.93	4.4791 $\pm$.0442	---
2-71	2	6.7500	4.243 $\pm$.0292	2.807 $\pm$.017
3,4, 6-71	3	6.5312	3.924 $\pm$.0365	3.907 $\pm$.017
	2	7.0625	4.455 $\pm$.0365	2.907 $\pm$.017
	1	6.5312	3.924 $\pm$.0365	2.907 $\pm$.017
	1 1/2	6.47	3.863 $\pm$.0365	2.907 $\pm$.017
6-110	1/2	5.40	3.9477 $\pm$.0383	---
	1	6.10	4.6477 $\pm$.0383	---
12107	0	---	4.5629 $\pm$.044	---
V-71	2	7.062	4.446 $\pm$.0465	2.806 $\pm$.017
V-92	1 1/2	6.53	3.914 $\pm$.0465	2.806 $\pm$.017
	1	6.53	3.914 $\pm$.0465	2.806 $\pm$.017
	1/2	7.32	4.704 $\pm$.0465	2.806 $\pm$.017
	0	7.80	5.184 $\pm$.0465	2.806 $\pm$.017
L-53	4	6.30	3.954 $\pm$.048	2.546 $\pm$.024
	3	6.30	3.954 $\pm$.048	2.546 $\pm$.024
	2	6.30	3.954 $\pm$.048	2.546 $\pm$.024
6V-53	3	6.30	3.954 $\pm$.048	2.556 $\pm$.024
	2	6.30	3.954 $\pm$.048	2.556 $\pm$.024
	1	7.80	5.444 $\pm$.048	2.556 $\pm$.024
149	0	8.30	3.949 $\pm$.031	4.351 $\pm$.021

FLYWHEEL HOUSING DIMENSIONS
(NON-STANDARDIZED)

TABLE 2

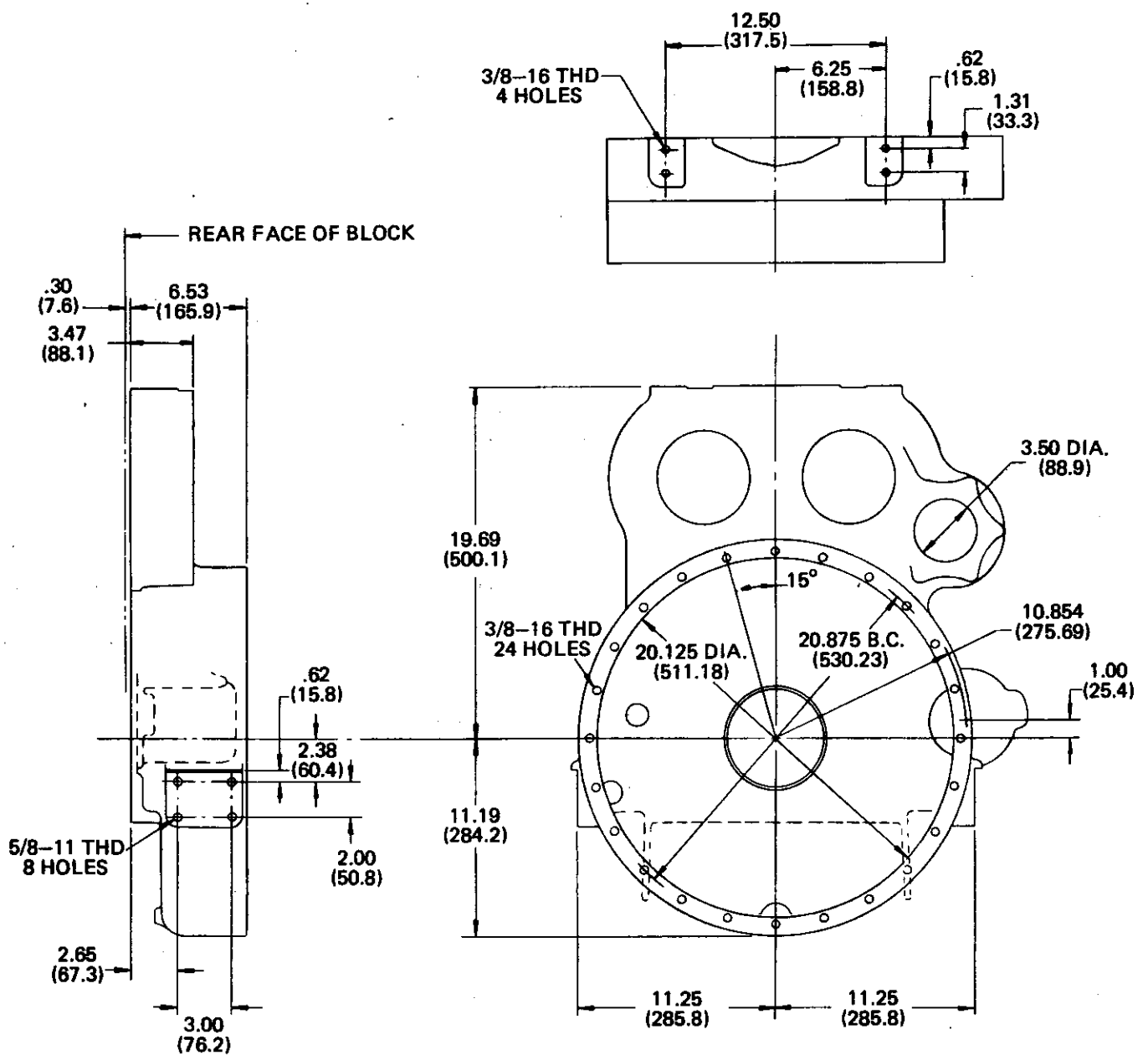
Model	F/W Hsg. SAE No.	F/W Hsg. Part No.	F/W Hsg. Length	Face Hsg. To Butt Crankshaft	Rear Block To Butt of Crankshaft
2-71	2	5168184	5.8750	3.373 $\pm$.0292	2.807 $\pm$.017
2-53	Spec	5121179	2.36	.014 $\pm$.048	2.546 $\pm$.024
L-53	3	5139568	5.26	2.914 $\pm$.048	2.546 $\pm$.024
L-53	Spec	5125652	2.36	.014 $\pm$.048	2.546 $\pm$.024
L-53	Spec	5140558	2.36	.014 $\pm$.048	2.546 $\pm$.024
6V-53	2	5128794	5.85	3.494 $\pm$.048	2.556 $\pm$.024
6V-53	3	5134270	4.55	2.194 $\pm$.048	2.556 $\pm$.024
L-71	1	5156806	6.78	4.173 $\pm$.0365	2.907 $\pm$.017
L-71	1	5156804	6.78	4.173 $\pm$.0365	2.907 $\pm$.017
	1 1/2	5118943	4.09	1.483 $\pm$.0365	2.907 $\pm$.017
	1 1/2	5188070	4.09	1.483 $\pm$.0365	2.907 $\pm$.017
	1 1/2	5184049	8.22	5.613 $\pm$.0365	2.907 $\pm$.017
	Spec	5183093	7.09	4.483 $\pm$.0365	2.907 $\pm$.017
V-71	0	5143502	8.94	6.324 $\pm$.0385	2.806 $\pm$.017
V-71	1	5134513	4.06	1.444 $\pm$.0385	2.806 $\pm$.017
V-71	2	5122662	4.06	1.444 $\pm$.0385	2.806 $\pm$.017
V-71	Spec	5108483	7.11	4.494 $\pm$.0385	2.806 $\pm$.017
V-71	Spec	5142740	5.00	2.384 $\pm$.0385	2.806 $\pm$.017
V-71	1 1/2	5137694	6.53	3.914 $\pm$.0385	2.806 $\pm$.017



SAE No.	A	B	C	D(b)	E	
					No.	Size
0	25 1/2	28	26 3/4	5 13/64	16	17/32
1/2	23	25 1/2	24 3/8	6 5/16	12	17/32
1(a)	20 1/8	21 3/4	20 7/8	5 13/16	12	15/32
2	17 5/8	19 3/4	18 3/8	4 3/4	12	13/32
3	16 1/8	17 3/4	16 7/8	4 3/8	12	13/32
4	14 1/4	15 7/8	15	3 57/64	12	13/32

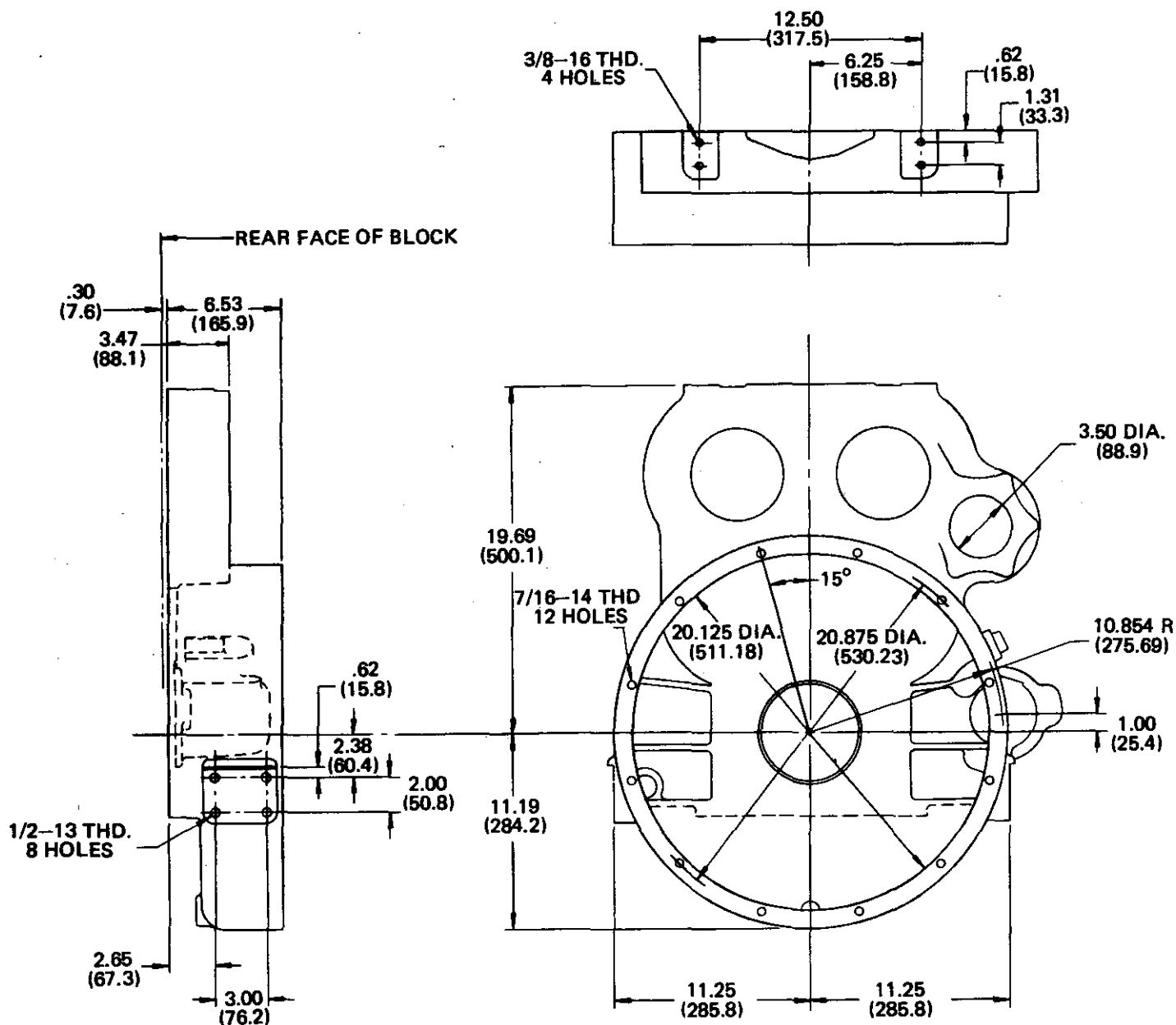
(a) Prior to 1953 the SAE No. 1 Housing specified holes for 3/8 Dia. Bolts.

(b) Nominal Chordal Dimension for reference only.



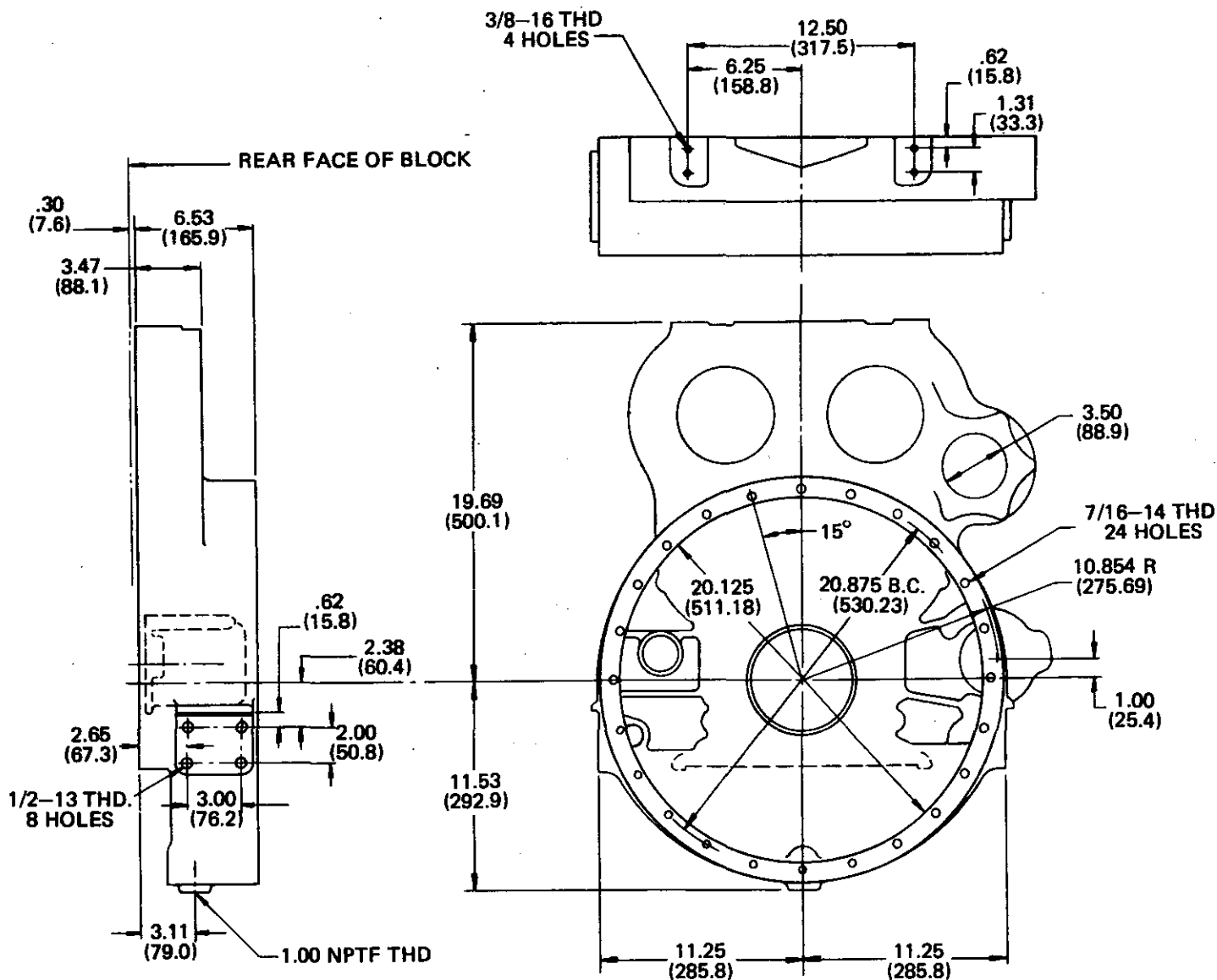
SPECIAL FEATURES		
MAGNETIC PICK-UP		HELICAL INSERTS
OIL SCOOP		DUAL STARTER PADS
WET HOUSING		WIDE MOUNTING PADS
SEMI-WET HOUSING		ADAPTOR BELL
VENTED-GENERATOR		ACCESS HOLE (BELL)
BARRING-OVER HOLE		SINGLE MTG. PAD
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN
BOTTOM BAFFLE	X	
INTEGRAL HUB		
TURBO-MOUNTING PAD		
MARINE GEAR ACC. HOLE		

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5119812		
SERVICE	X	PRODUCTION	X
PART NUMBER	5119812		



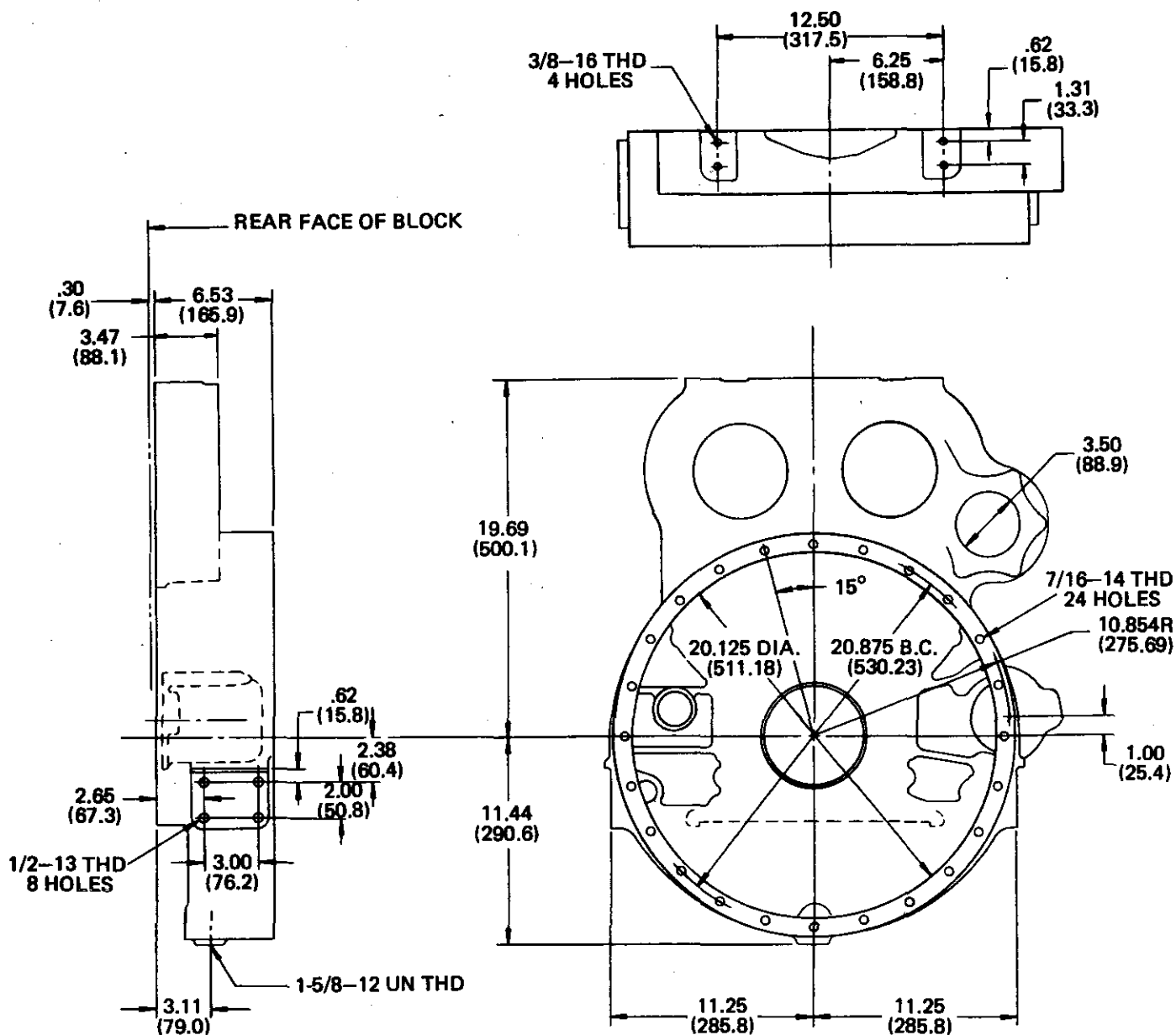
SPECIAL FEATURES			
MAGNETIC PICK-UP	X	HELICAL INSERTS	X
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM	X	CAST IRON	
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5142403		
SERVICE	X	PRODUCTION	X
PART NUMBER	5120608		



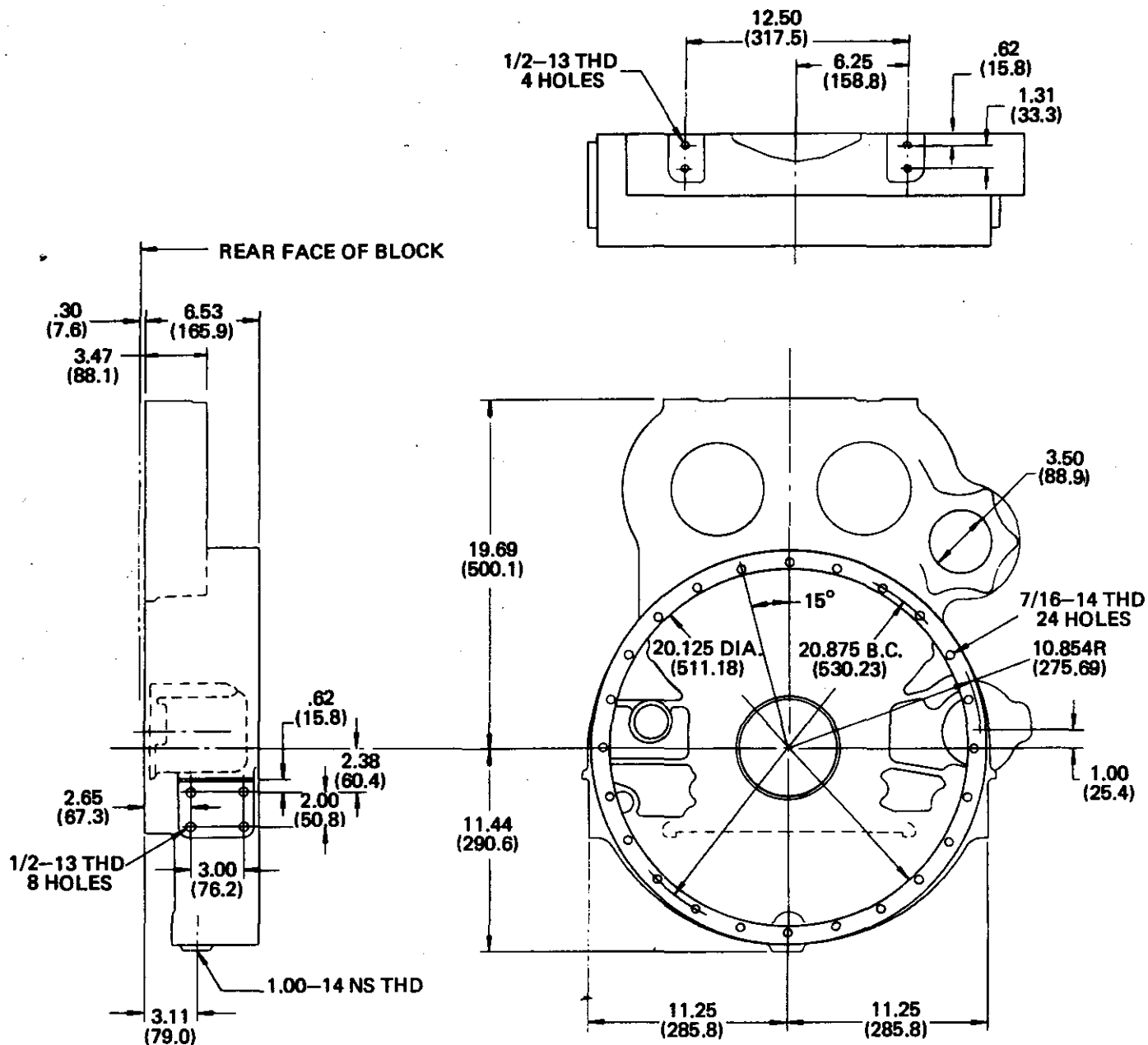
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5136473		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5136473		



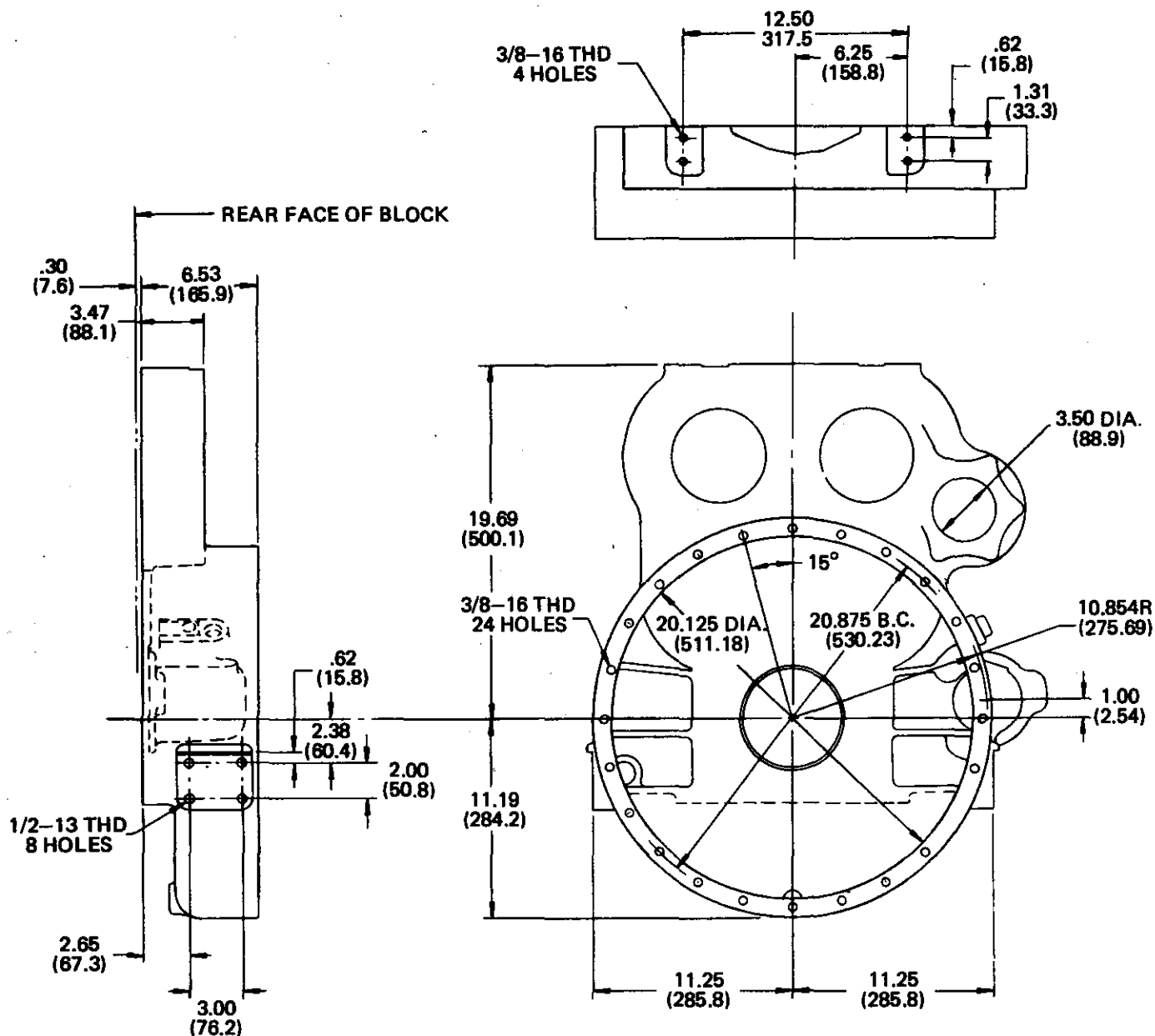
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5136473		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5138507		



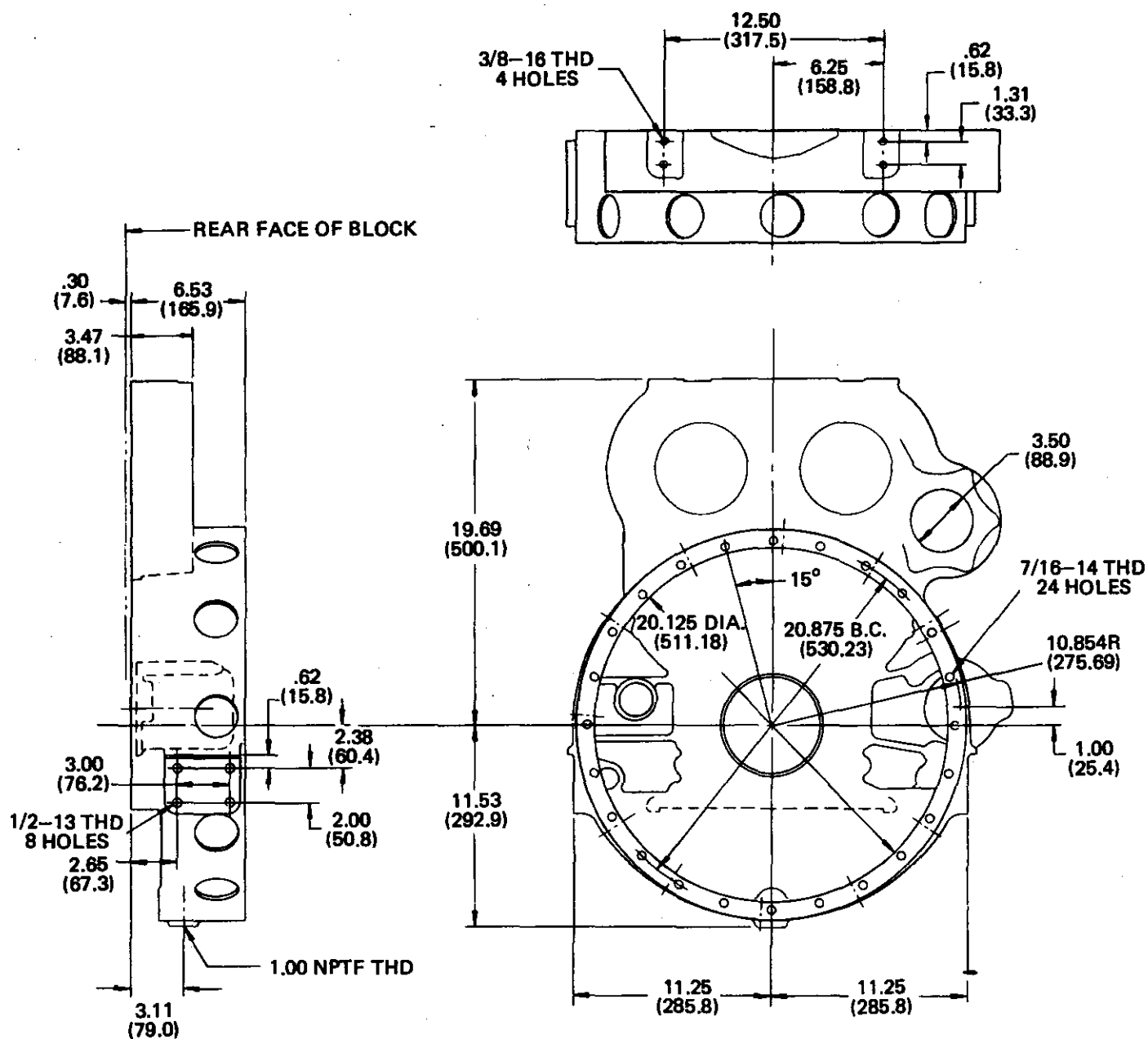
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5136473		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5140165		



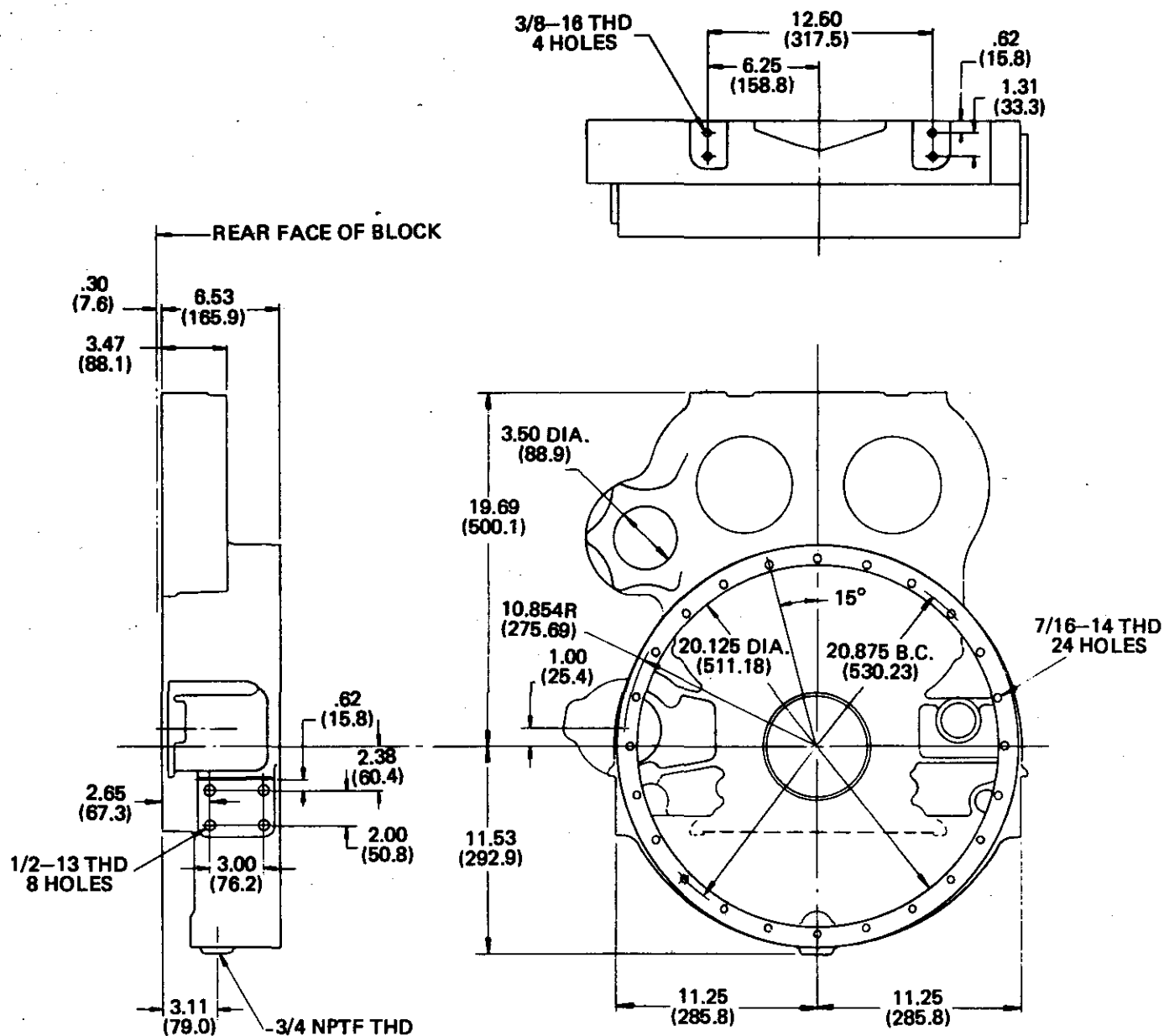
SPECIAL FEATURES			
MAGNETIC PICK-UP	X	HELICAL INSERTS	X
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM	X	CAST IRON	
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5142403		
SERVICE	X	PRODUCTION	X
PART NUMBER	5142403		



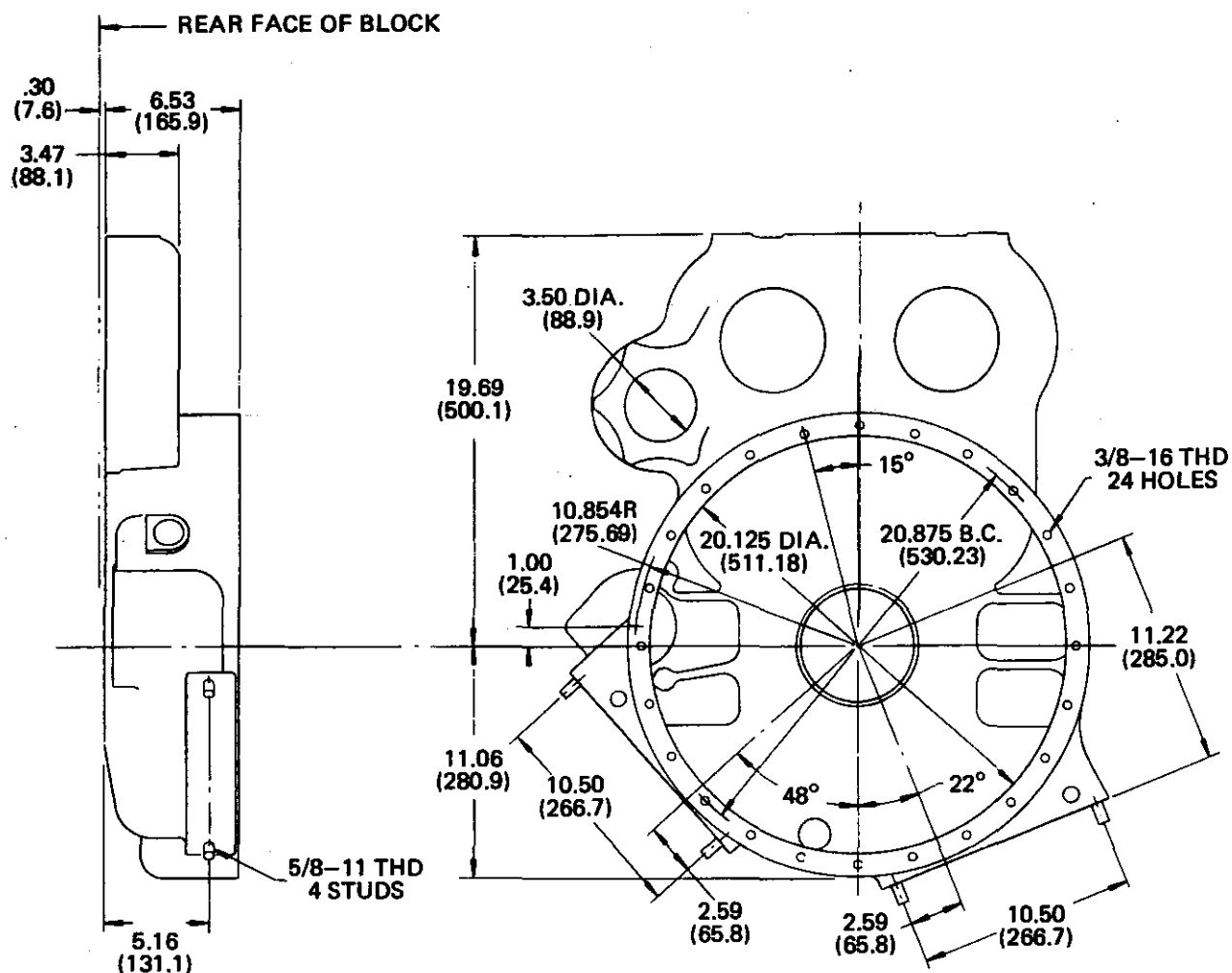
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR	X	ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5136473		
CHT 5132454			
SERVICE	X	PRODUCTION	
PART NUMBER	5177302		



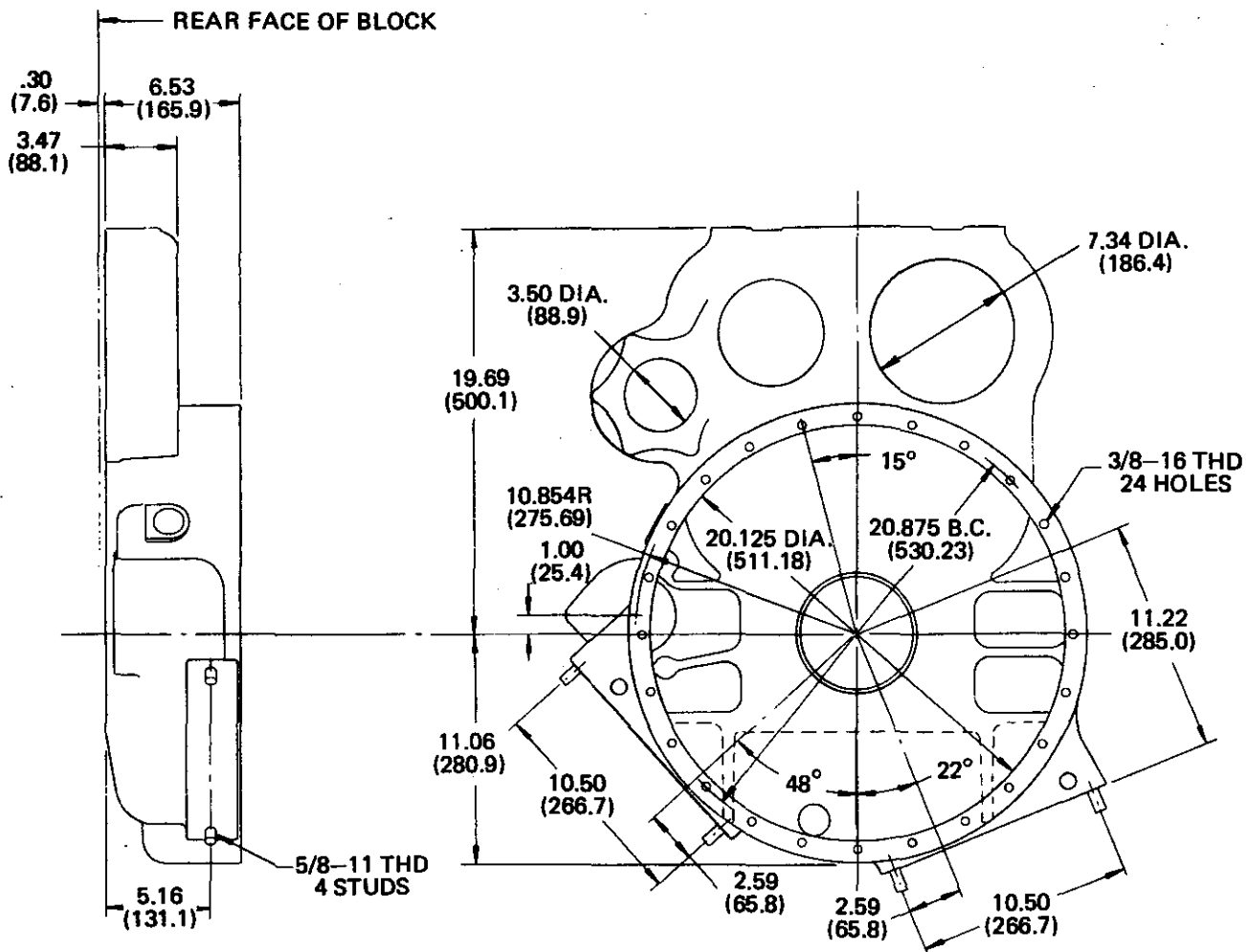
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5110792		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5110792		



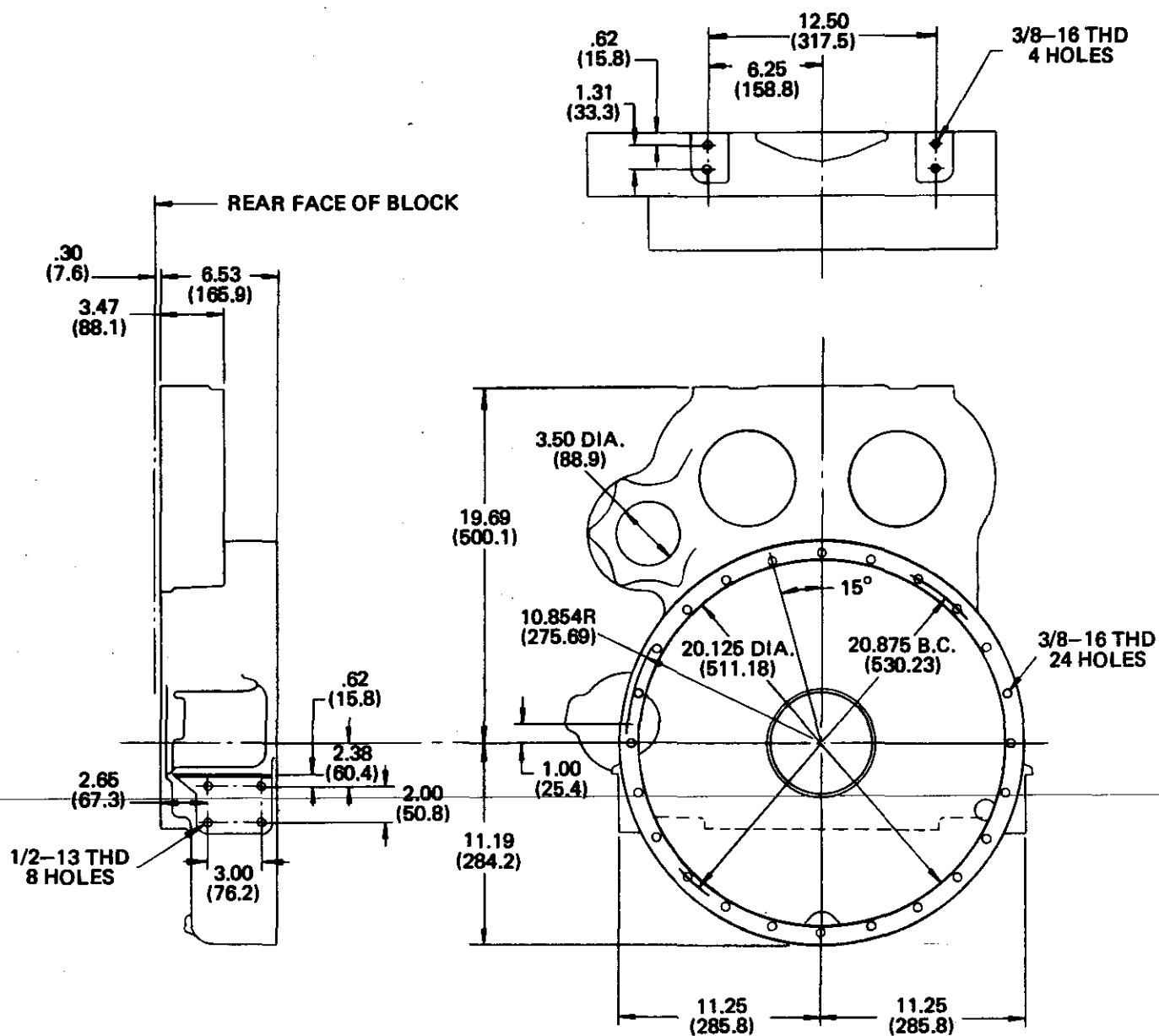
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM	X	CAST IRON	
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5121588		
SERVICE	X	PRODUCTION	X
PART NUMBER	5121588		



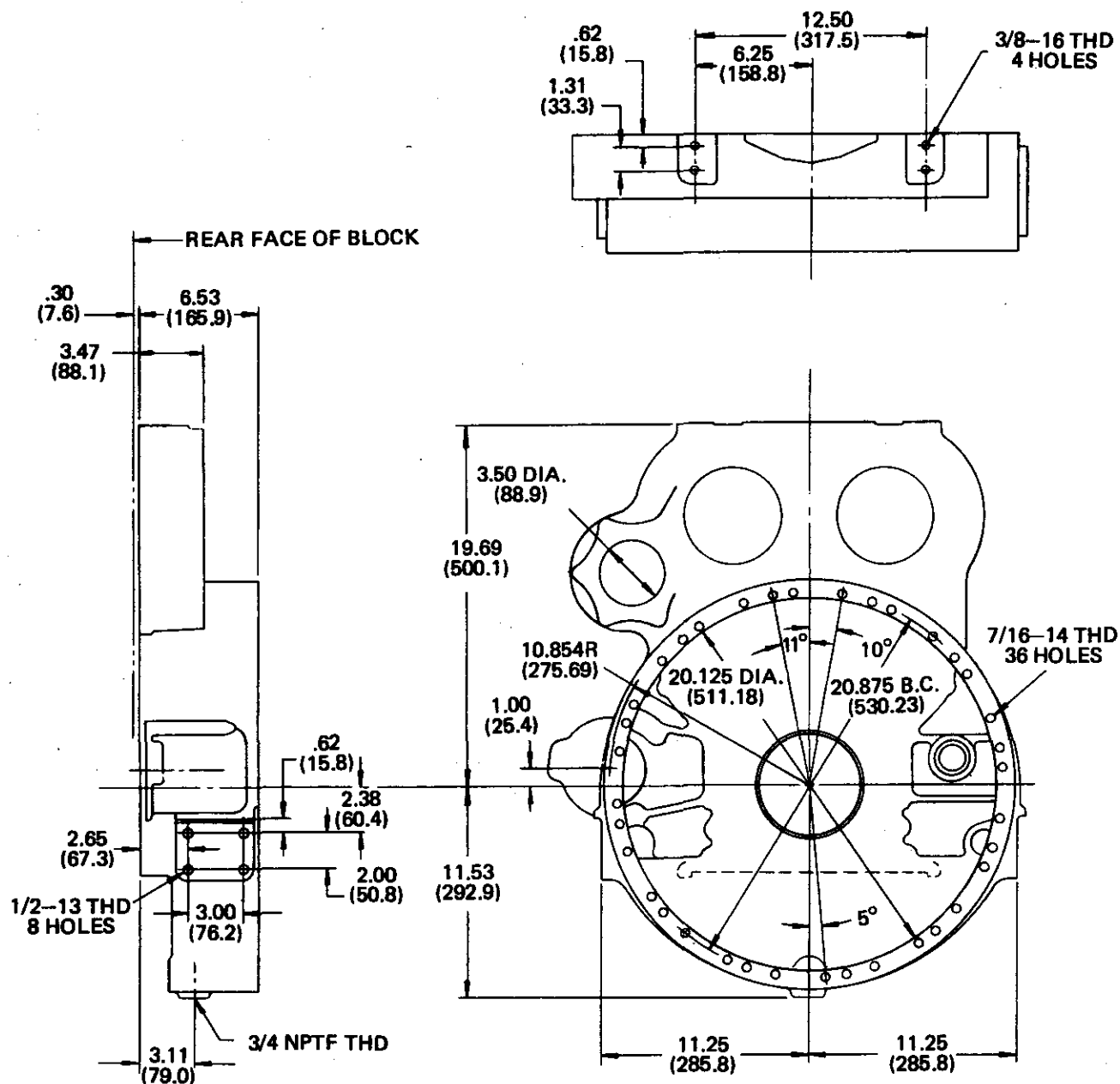
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM	X	CAST IRON	
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5123101		
SERVICE	X	PRODUCTION	
PART NUMBER	5123101		



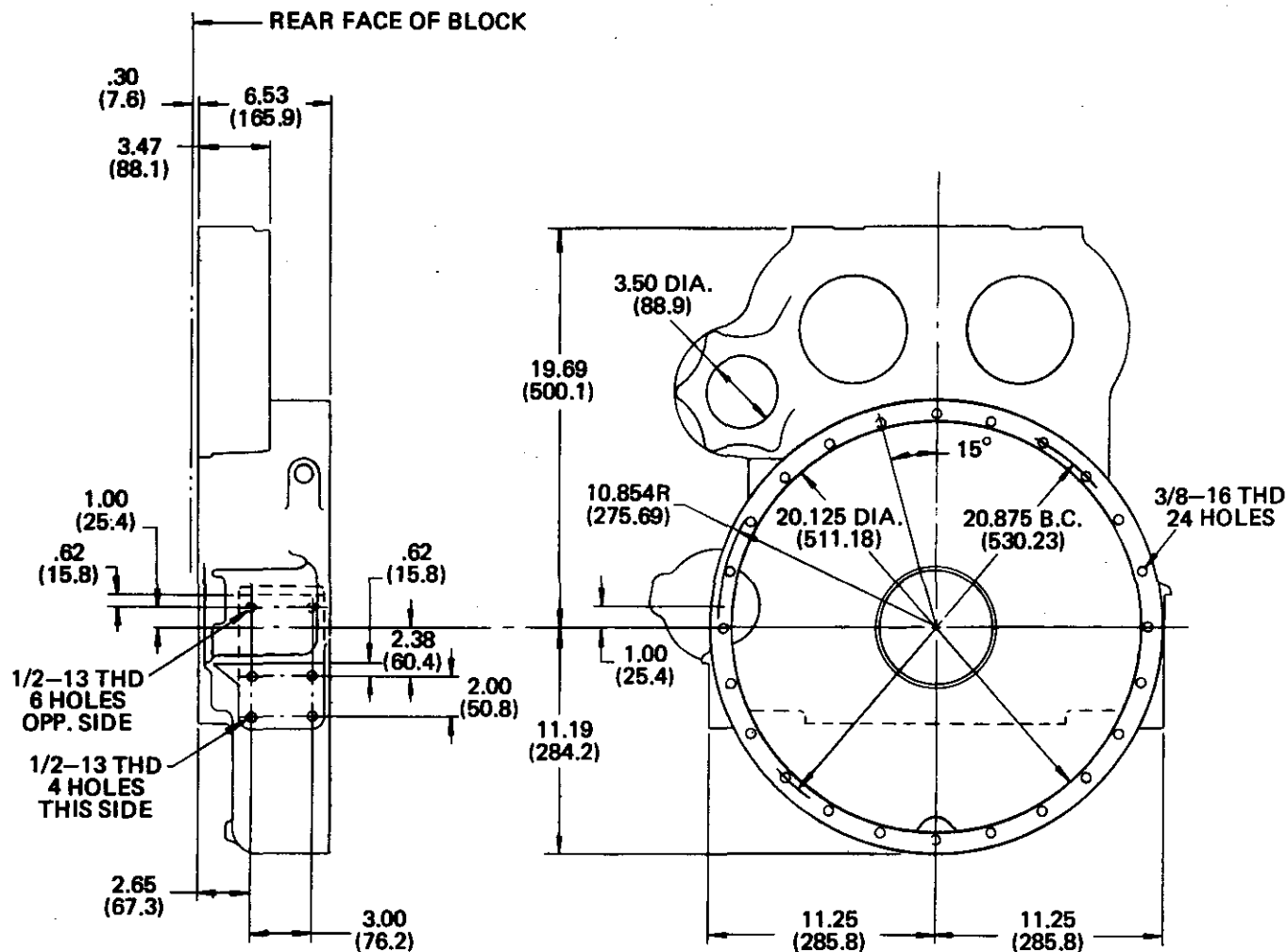
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD	SAND CAST	X
ALUMINUM	CAST IRON	X
STARTER	A or C TYPE	
CRANKSHAFT DIA.	4.686 (119.02)	
ENGINE TYPE	L71	
S.A.E. NUMBER	1	
CASTING PART NO.	5132465	
PATTERN EQUIPMENT ONLY		
SERVICE	PRODUCTION	
PART NUMBER	5132465	



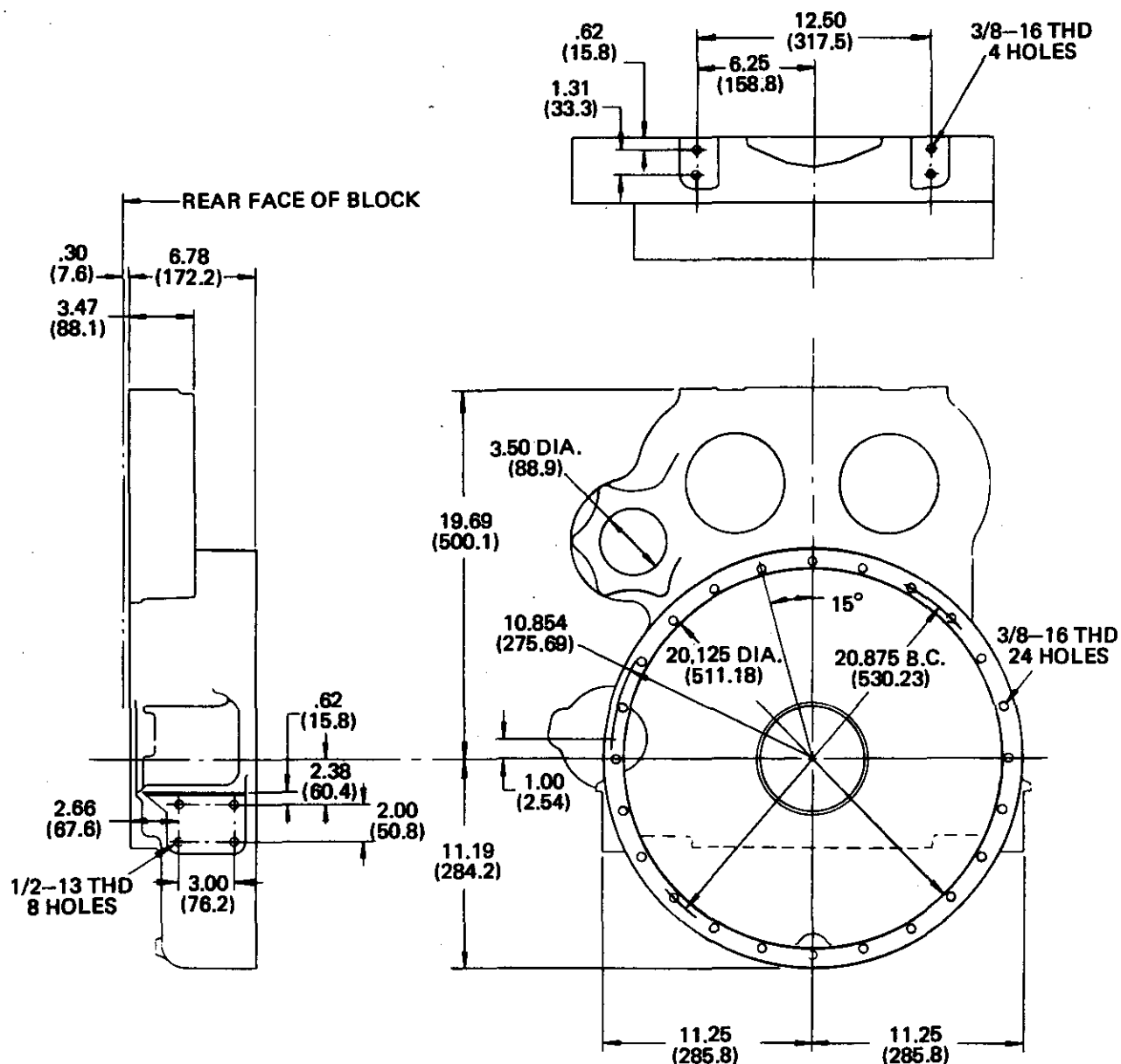
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5110792		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5145112		



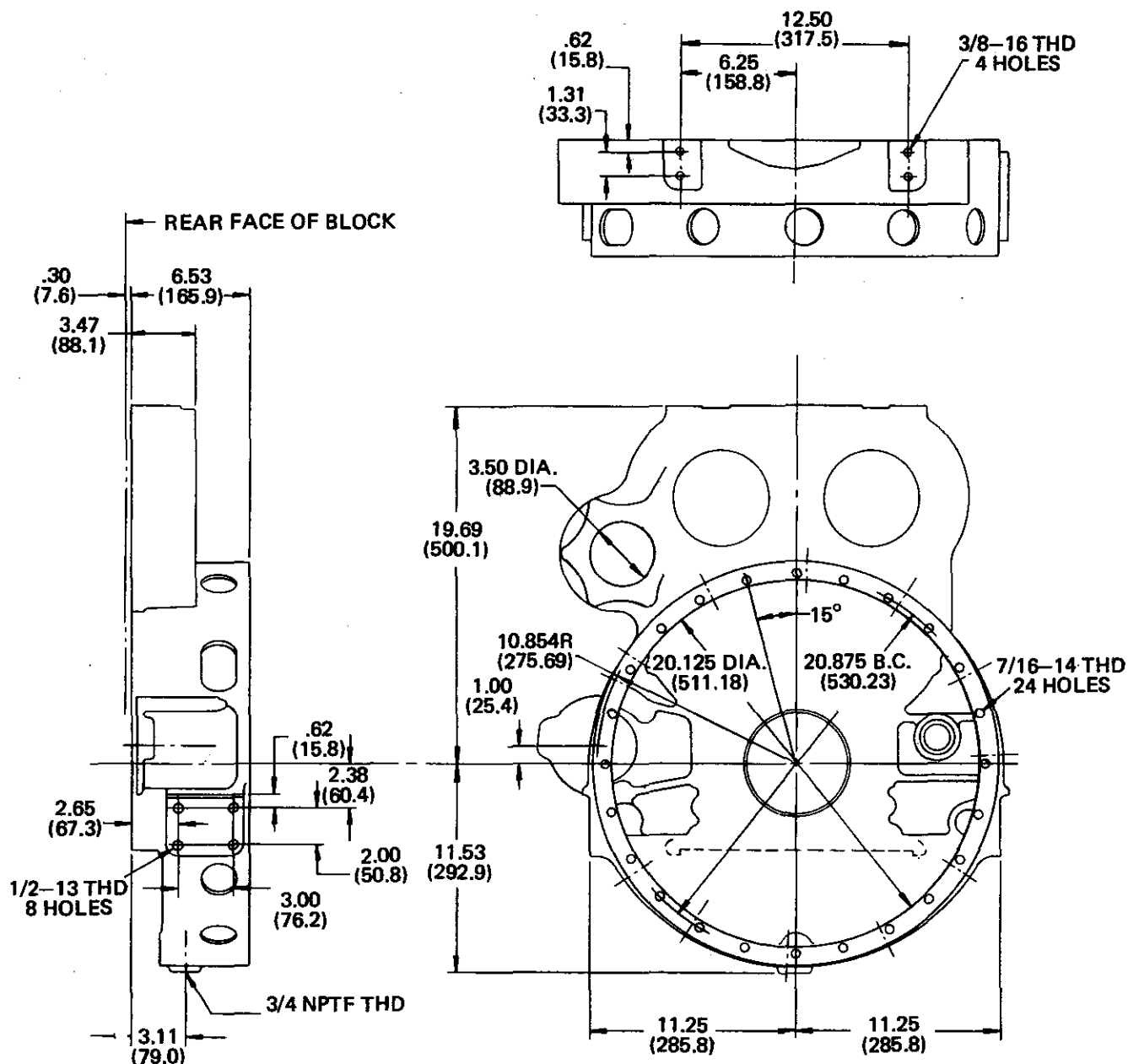
SPECIAL FEATURES		
MAGNETIC PICK-UP	HELICAL INSERTS	
OIL SCOOP	DUAL STARTER PADS	
WET HOUSING	WIDE MOUNTING PADS	
SEMI-WET HOUSING	ADAPTOR BELL	
VENTED-GENERATOR	ACCESS HOLE (BELL)	
BARRING-OVER HOLE	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	BOTTOM DRAIN	
BOTTOM BAFFLE		
INTEGRAL HUB		
TURBO-MOUNTING PAD		
MARINE GEAR ACC. HOLE		

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5152924		
SERVICE	X	PRODUCTION	
PART NUMBER	5152924		



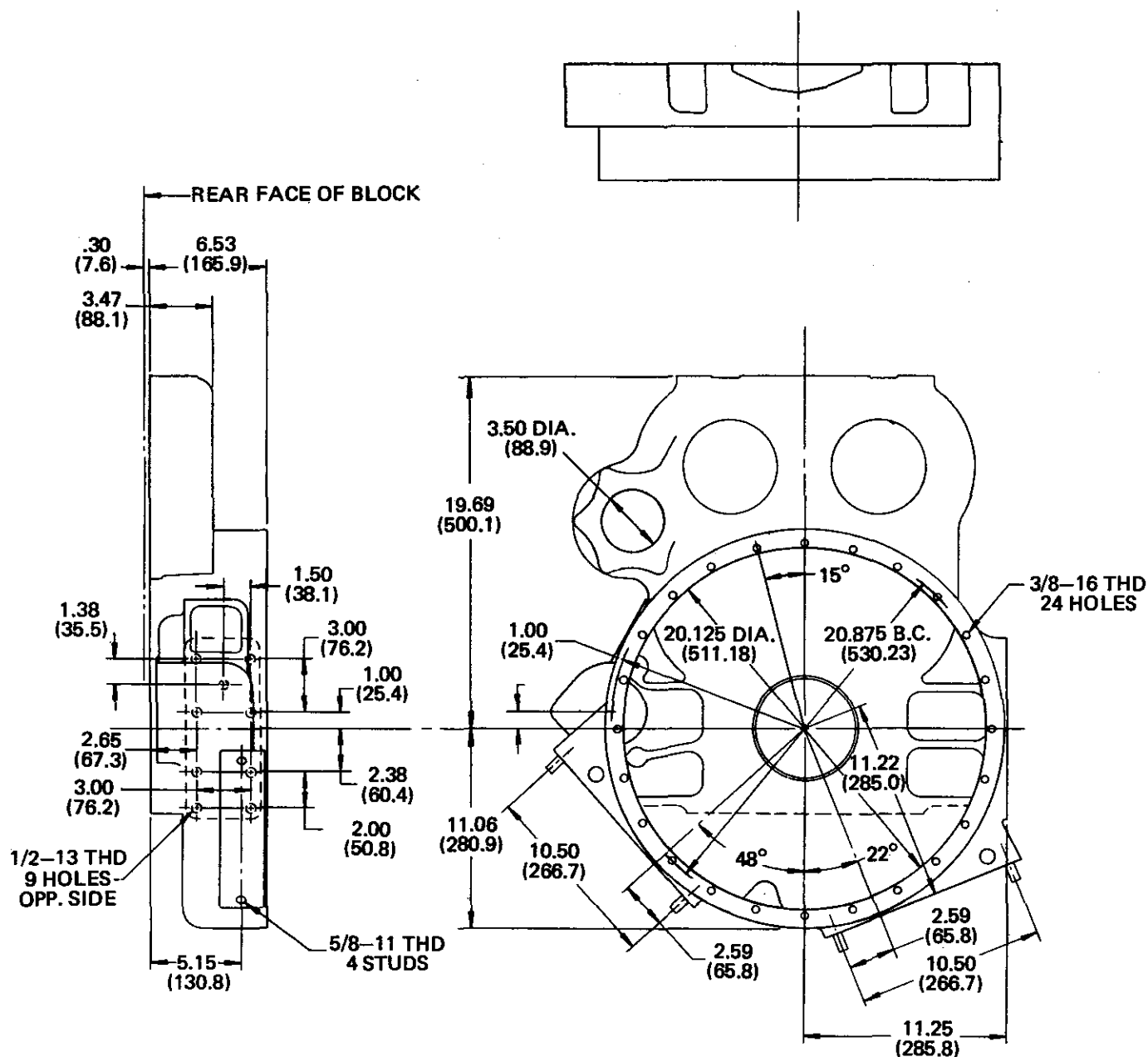
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE		SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5156804		
SERVICE	X	PRODUCTION	
PART NUMBER	5156804		



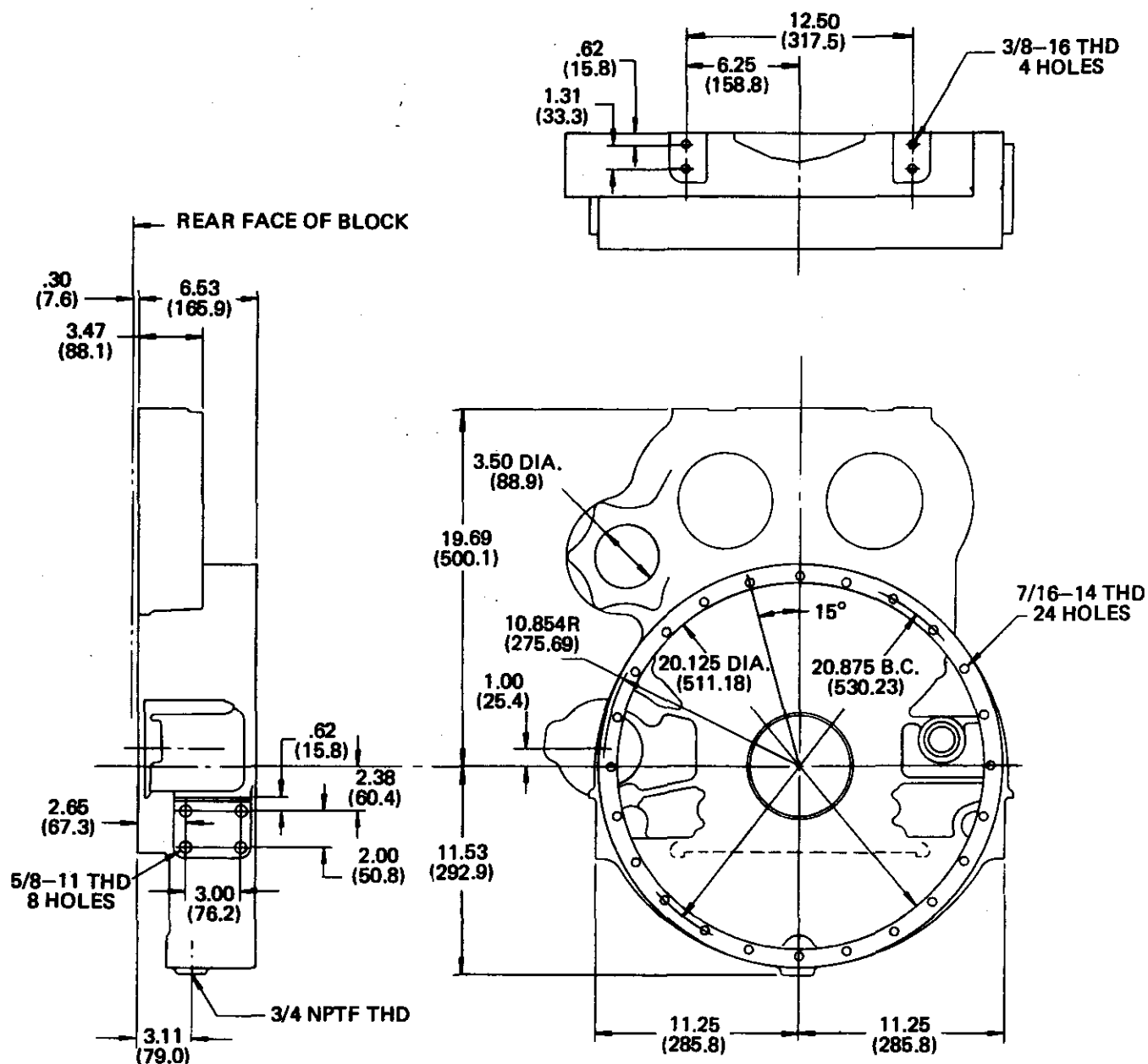
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR	X	ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5110792		
CHT 5132454			
SERVICE	X	PRODUCTION	
PART NUMBER	5174919		



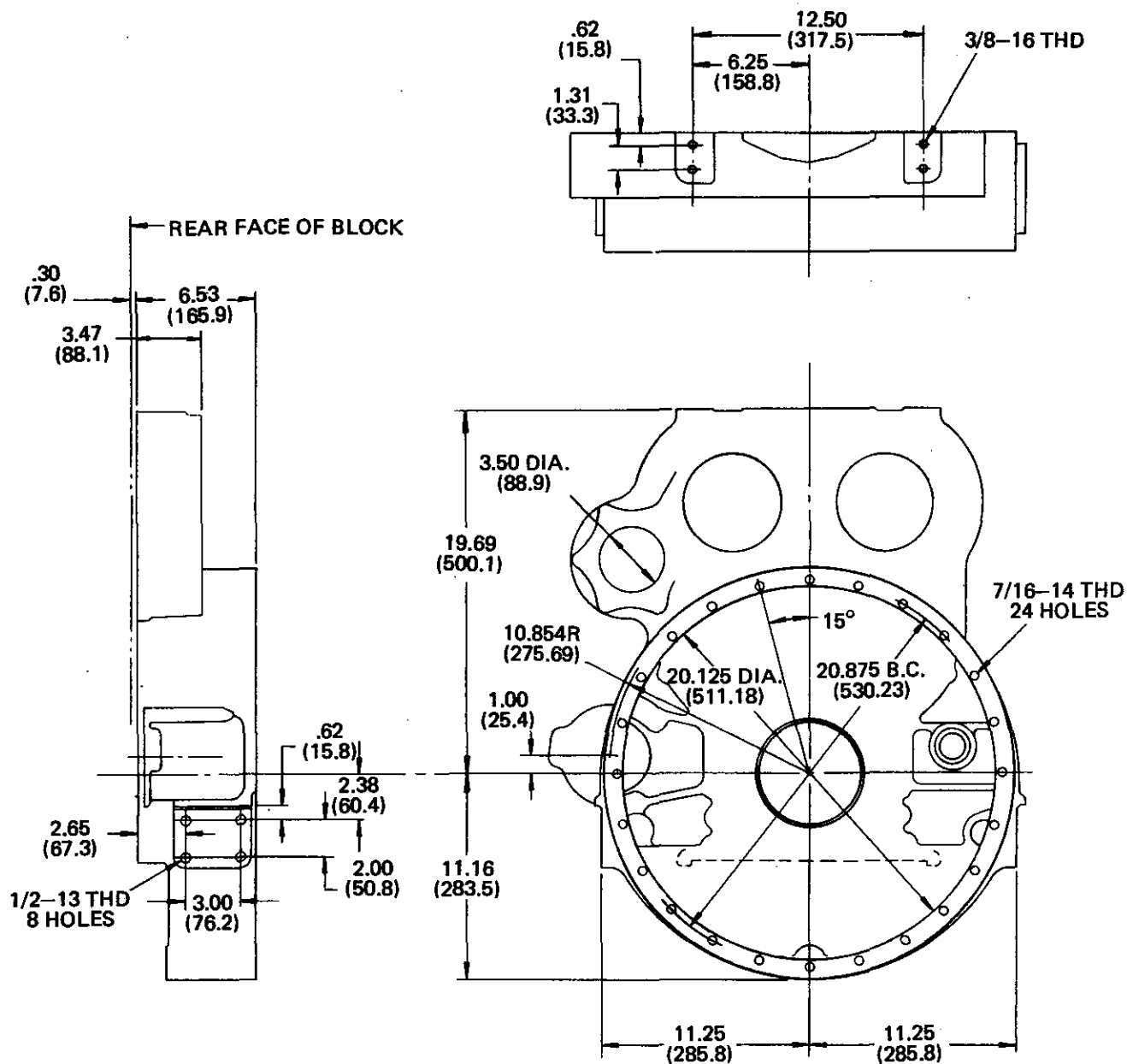
SPECIAL FEATURES			
MAGNETIC PICK-UP	HELICAL INSERTS		
OIL SCOOP	DUAL STARTER PADS		
WET HOUSING	WIDE MOUNTING PADS		
SEMI-WET HOUSING	ADAPTOR BELL		
VENTED-GENERATOR	ACCESS HOLE (BELL)	X	
BARRING-OVER HOLE	SINGLE MTG. PAD		
TORQUE CON. ACC. HOLE	BOTTOM DRAIN		
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5182257		
SERVICE	X	PRODUCTION	
PART NUMBER	5182257		



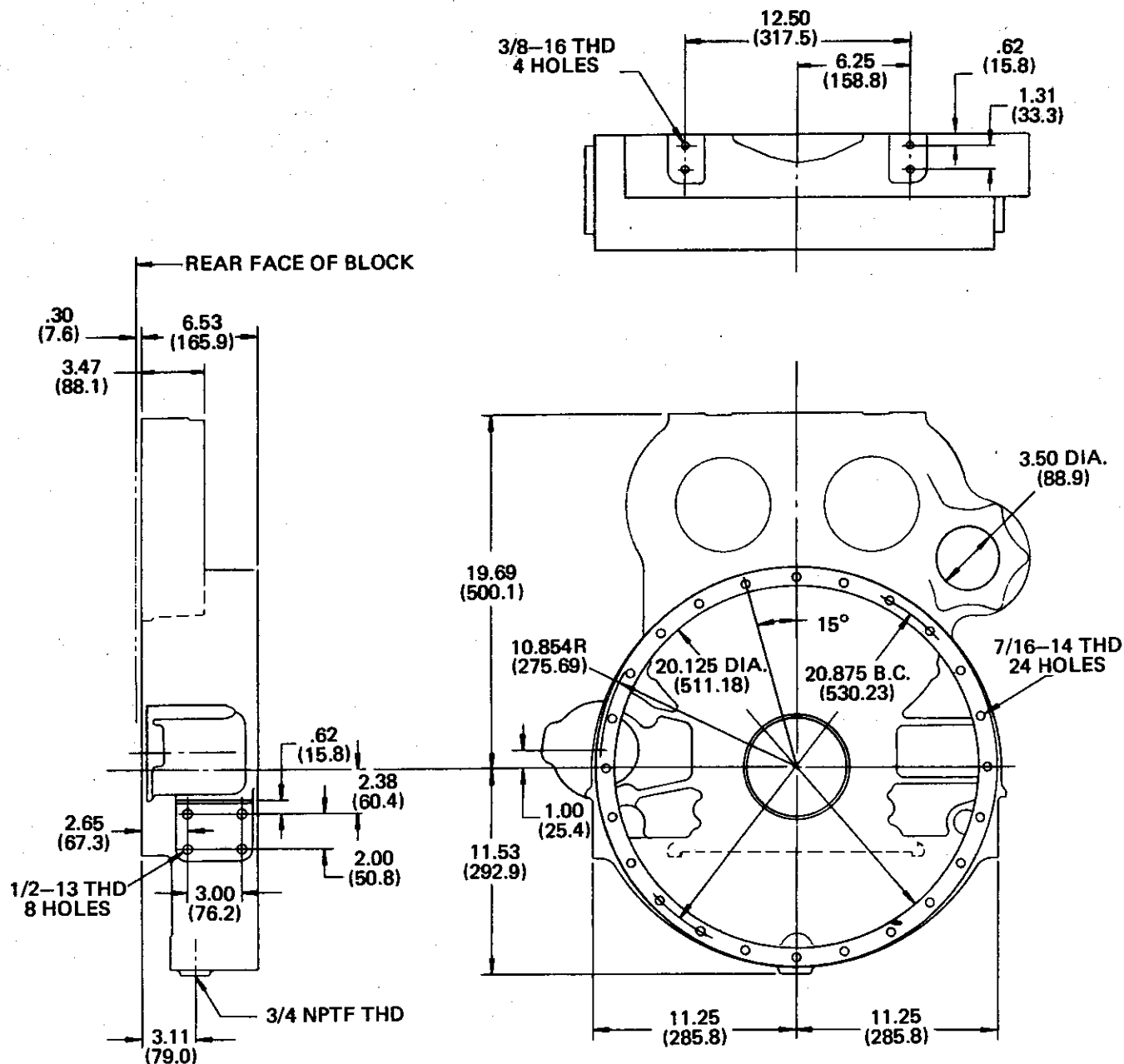
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5110792		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5184095		



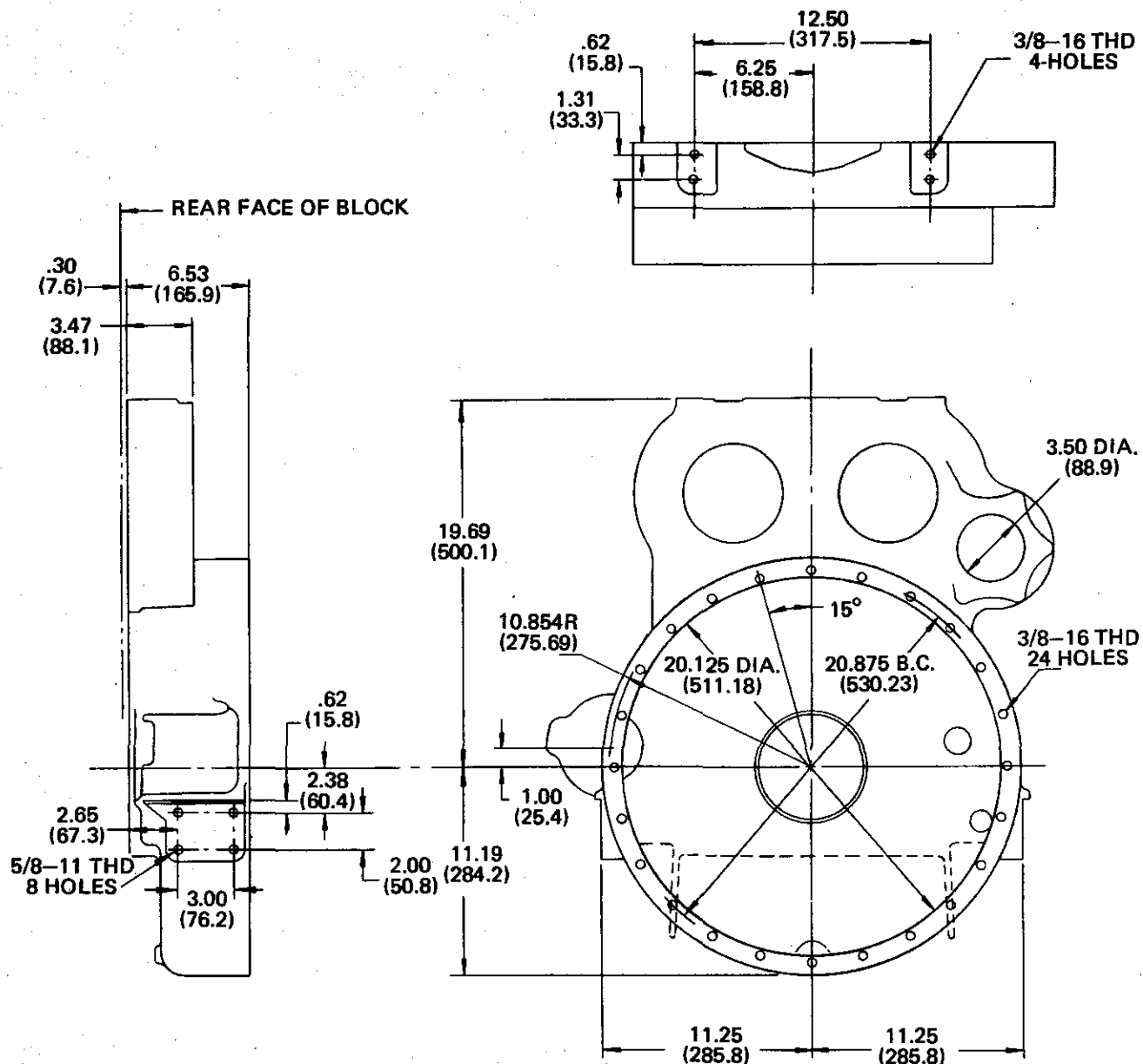
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5110792		
CHT 5132454			
SERVICE	X	PRODUCTION	
PART NUMBER	5130456		



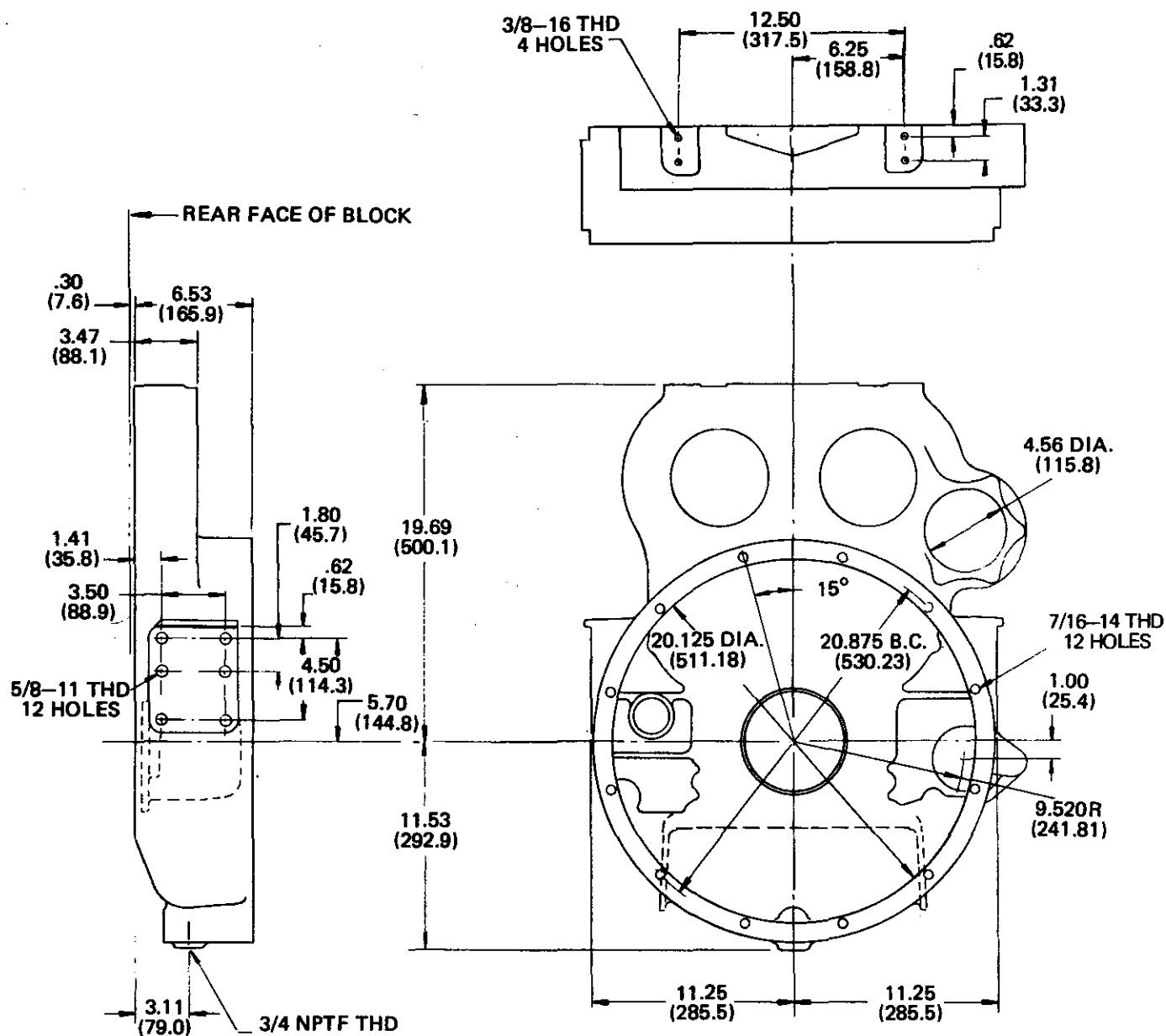
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING	X	ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5110718		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5110718		



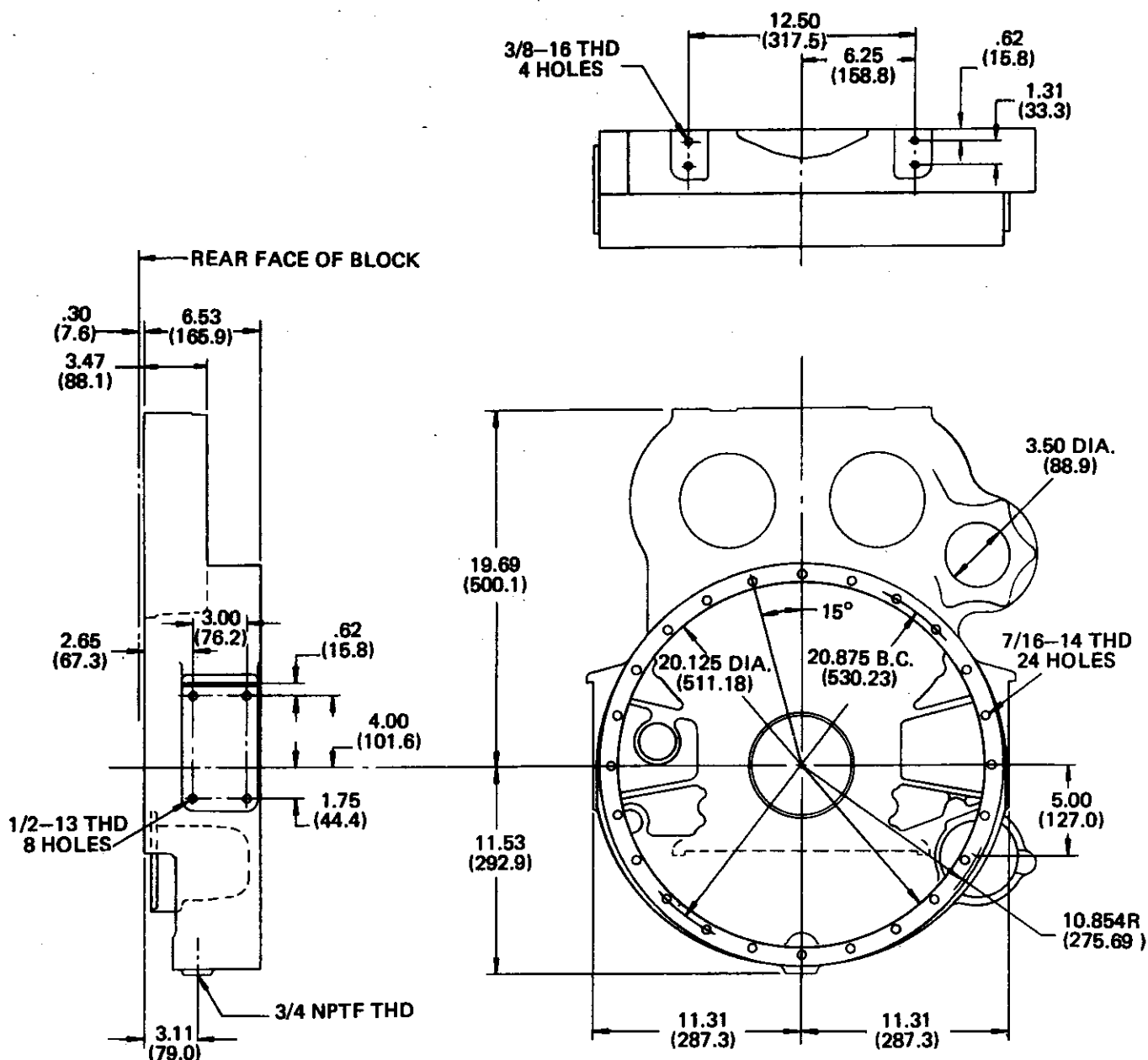
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5119813		
SERVICE	X	PRODUCTION	X
PART NUMBER	5119813		



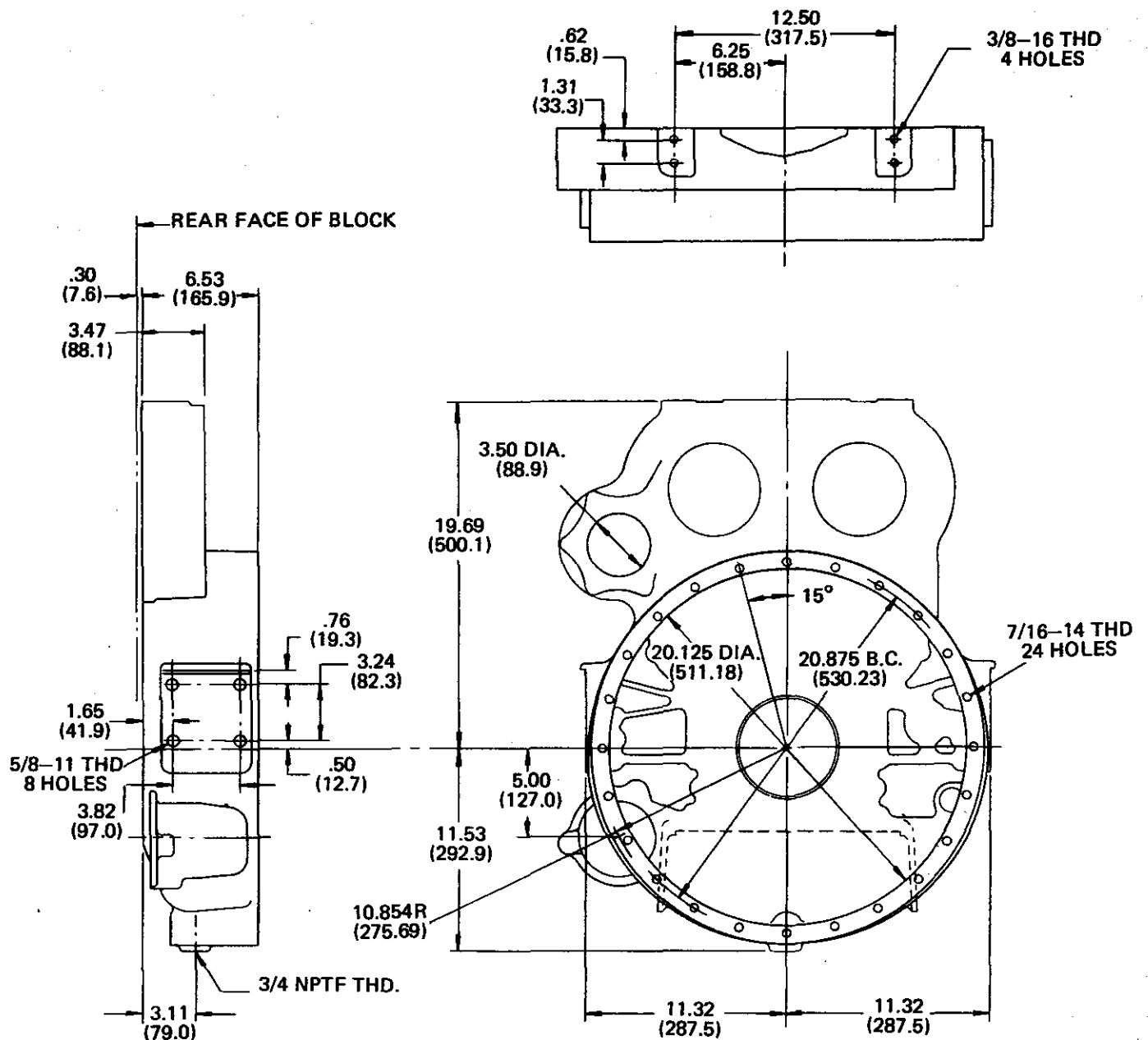
SPECIAL FEATURES		
MAGNETIC PICK-UP	HELICAL INSERTS	
OIL SCOOP	DUAL STARTER PADS	
WET HOUSING	WIDE MOUNTING PADS	
SEMI-WET HOUSING	ADAPTOR BELL	
VENTED-GENERATOR	ACCESS HOLE (BELL)	
BARRING-OVER HOLE	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	BOTTOM DRAIN	X
BOTTOM BAFFLE		
INTEGRAL HUB		
TURBO-MOUNTING PAD		
MARINE GEAR ACC. HOLE		

PERMANENT MOLD		SAND CAST	X
ALUMINUM	X	CAST IRON	
STARTER	A TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5144799		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5144799		



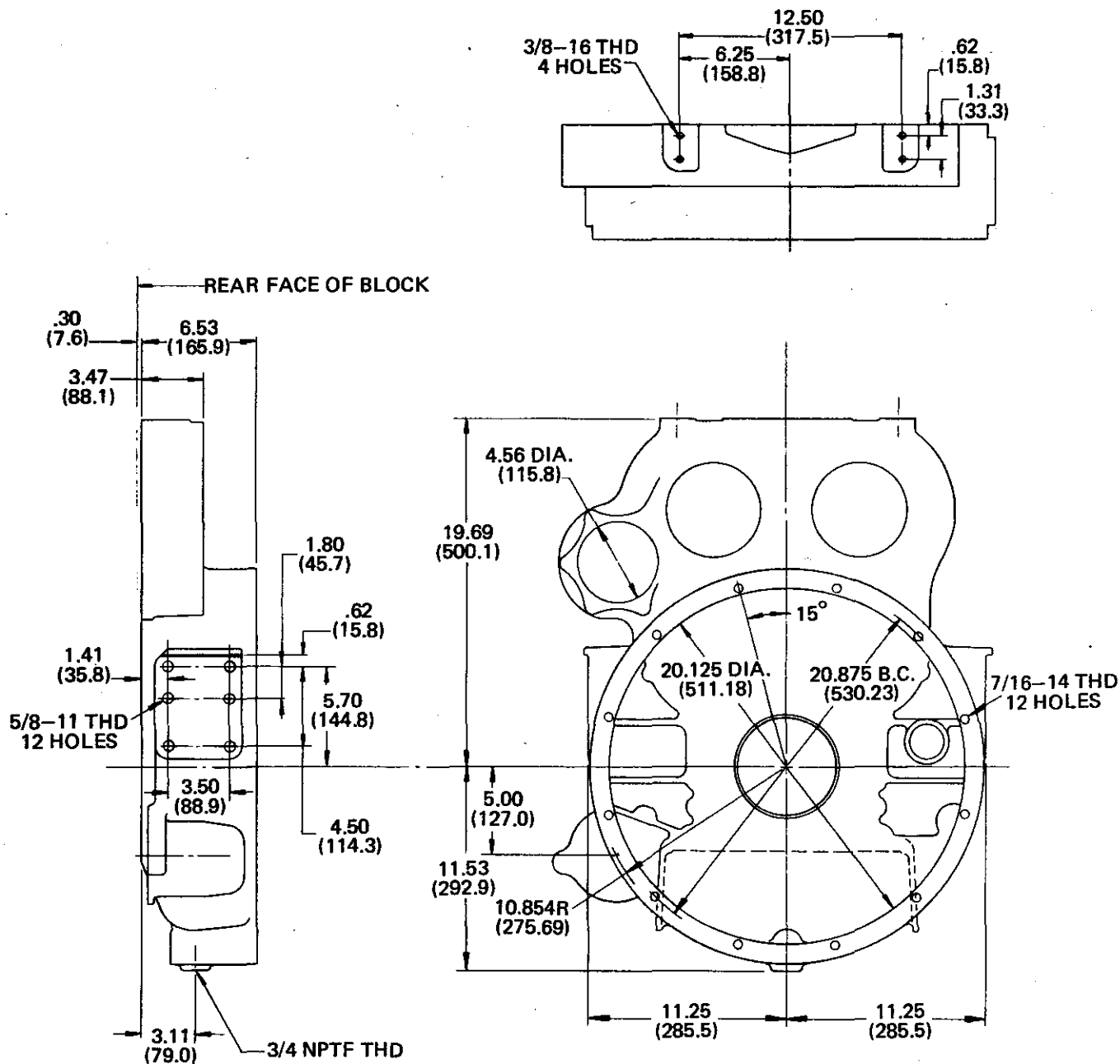
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5145110		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5145110		



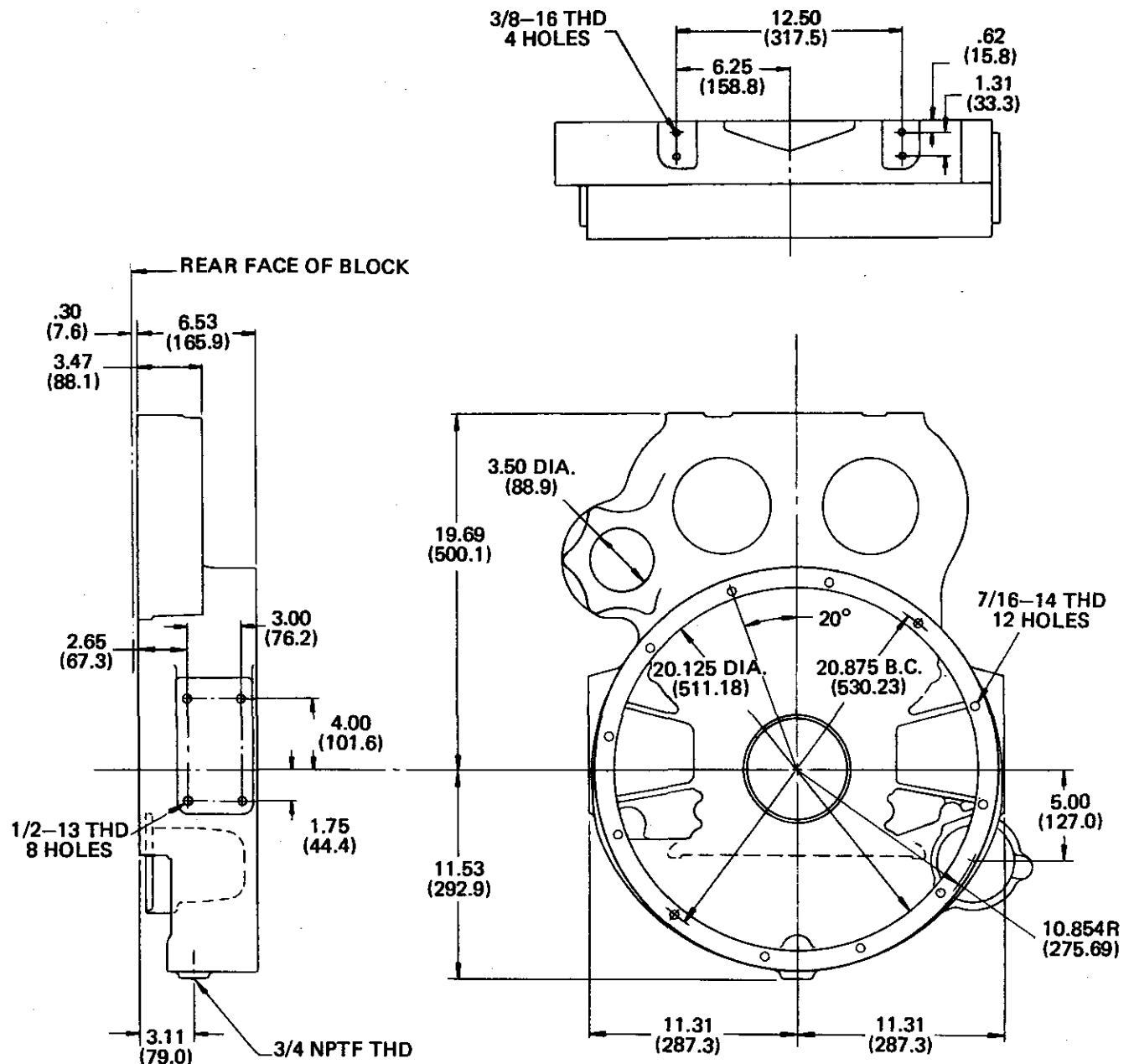
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5145107		
CHT 1532454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5145107		



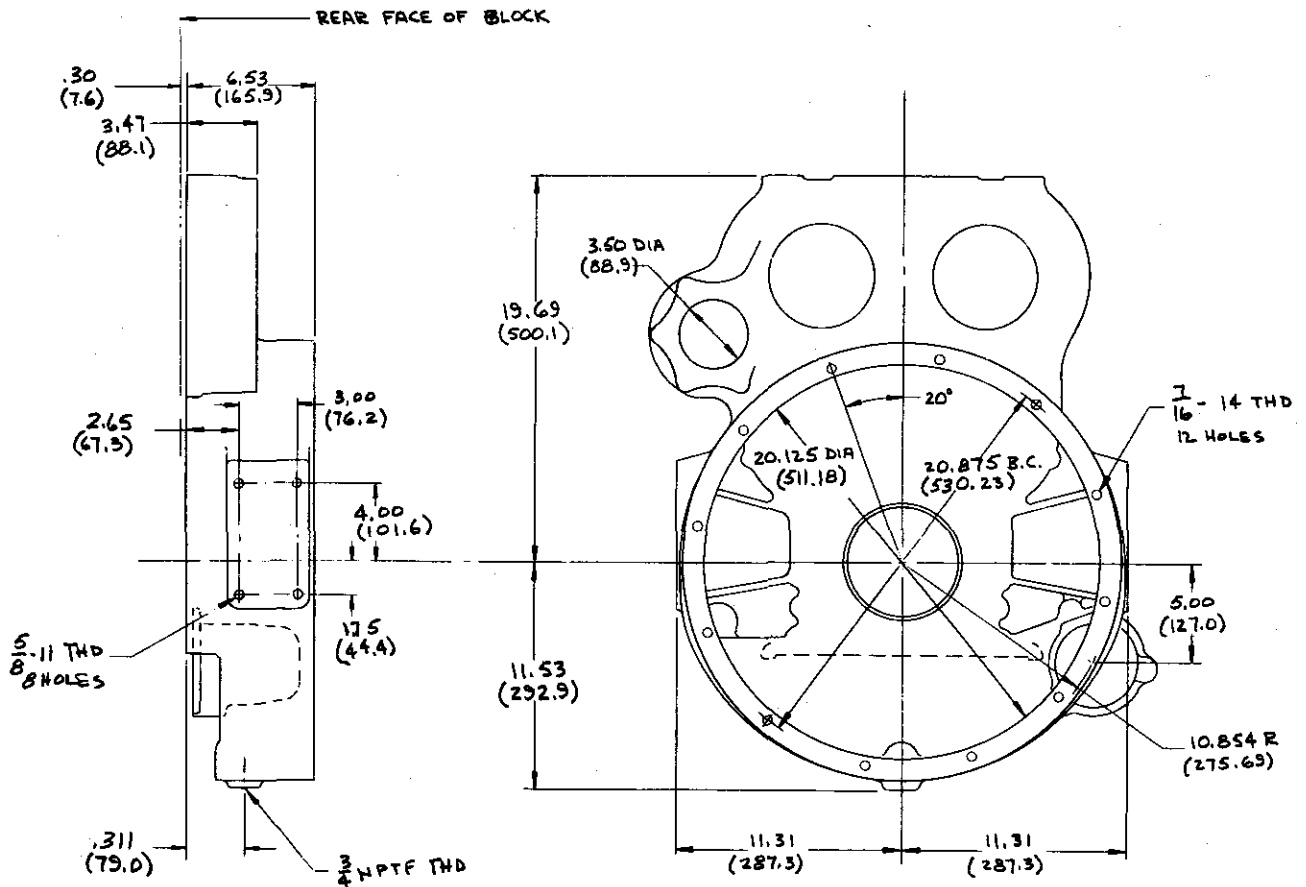
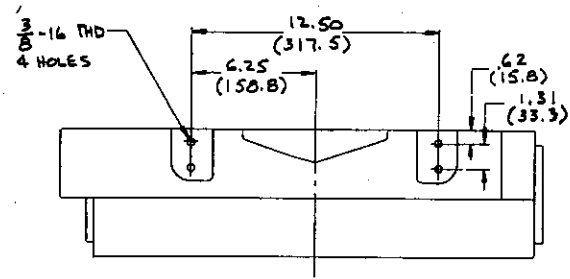
SPECIAL FEATURES			
MAGNETIC PICK-UP	HELICAL INSERTS		
OIL SCOOP	DUAL STARTER PADS		
WET HOUSING	WIDE MOUNTING PADS		
SEMI-WET HOUSING	ADAPTOR BELL		
VENTED-GENERATOR	ACCESS HOLE (BELL)		
BARRING-OVER HOLE	SINGLE MTG. PAD		
TORQUE CON. ACC. HOLE	BOTTOM DRAIN	X	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM	X	CAST IRON	
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L-71		
S.A.E. NUMBER	1		
CASTING PART NO.	5144661		
CHT 5144481			
SERVICE	X	PRODUCTION	X
PART NUMBER	5144661		



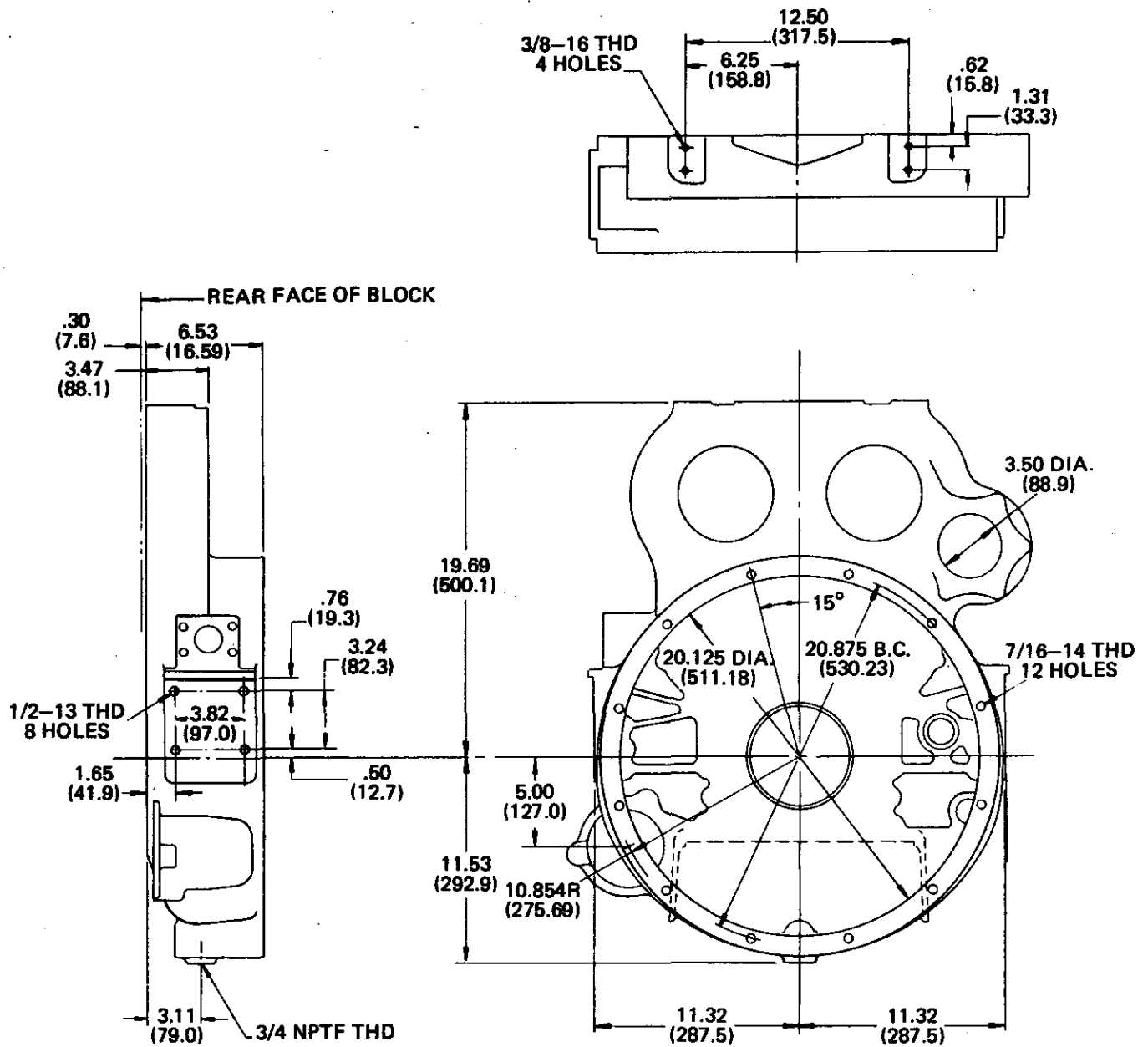
SPECIAL FEATURES		
MAGNETIC PICK-UP	HELICAL INSERTS	
OIL SCOOP	DUAL STARTER PADS	
WET HOUSING	WIDE MOUNTING PADS	
SEMI-WET HOUSING	ADAPTOR BELL	
VENTED-GENERATOR	ACCESS HOLE (BELL)	
BARRING-OVER HOLE	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	BOTTOM DRAIN	X
BOTTOM BAFFLE		
INTEGRAL HUB		
TURBO-MOUNTING PAD		
MARINE GEAR ACC. HOLE		

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5145111		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5145111		



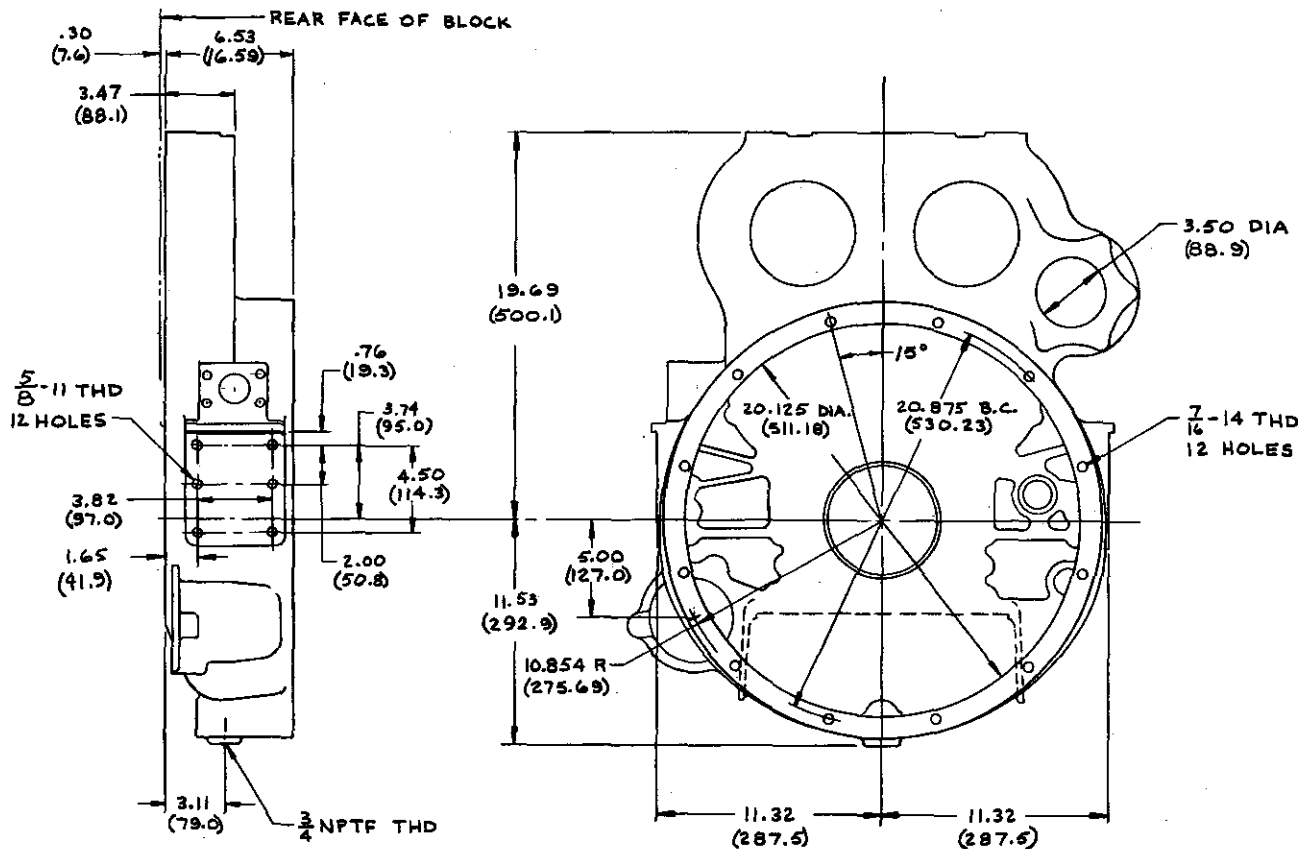
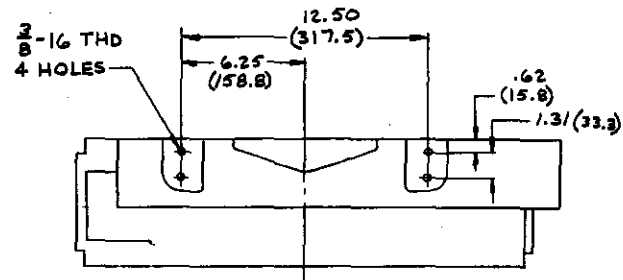
SPECIAL FEATURES		
MAGNETIC PICK-UP	HELICAL INSERTS	
OIL SCOOP	DUAL STARTER PADS	
WET HOUSING	WIDE MOUNTING PADS	
SEMI-WET HOUSING	ADAPTOR BELL	
VENTED-GENERATOR	ACCESS HOLE (BELL)	
BARRING-OVER HOLE	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	BOTTOM DRAIN	X
BOTTOM BAFFLE		
INTEGRAL HUB		
TURBO-MOUNTING PAD		
MARINE GEAR ACC. HOLE		

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5145111		
CHT 5132454			
SERVICE		PRODUCTION	X
PART NUMBER 5100872			



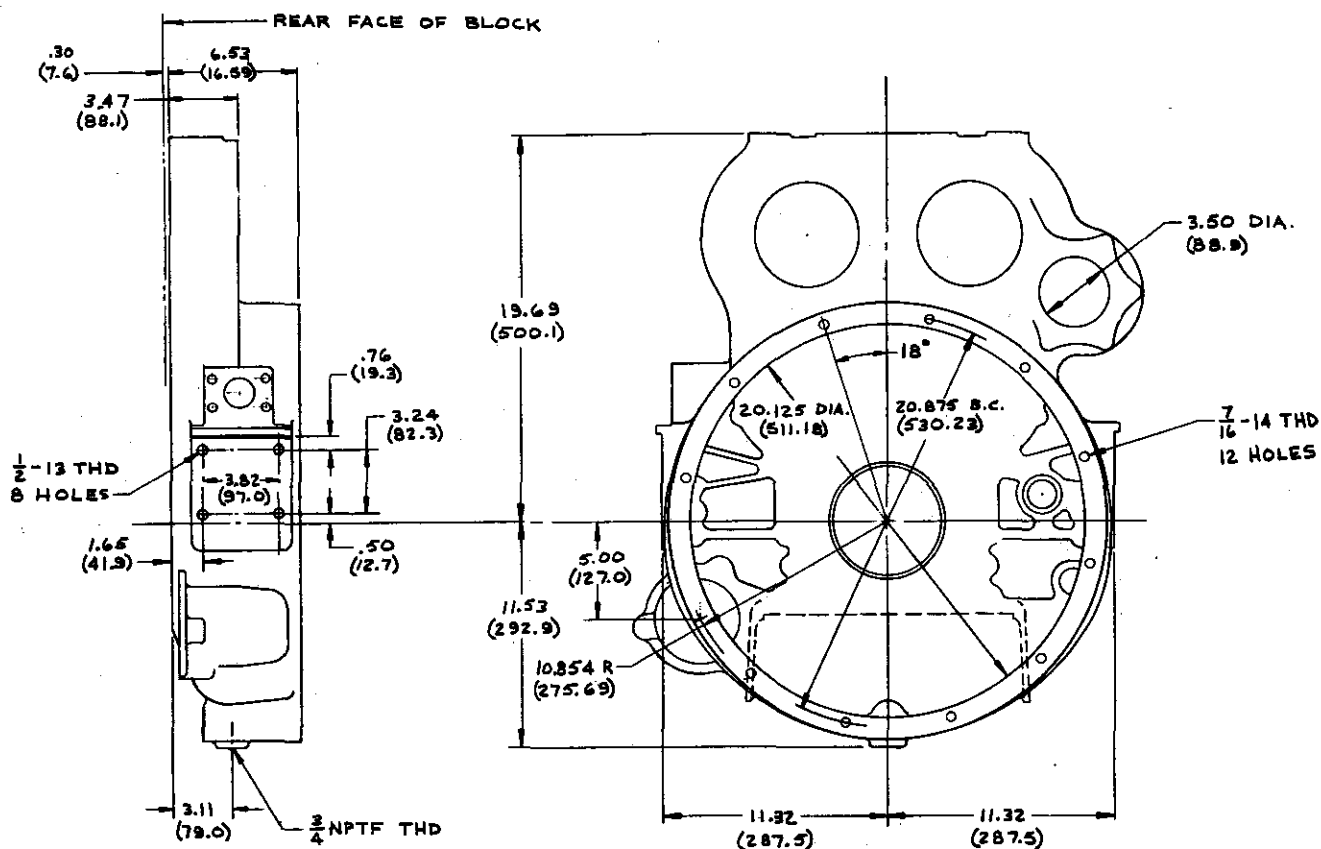
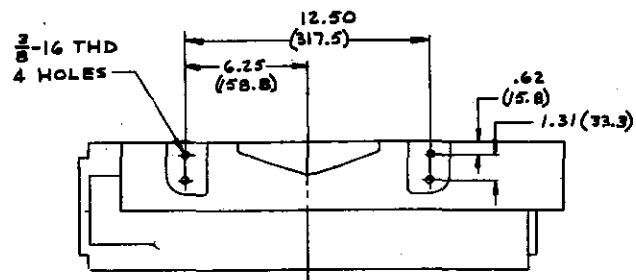
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP	X	DUAL STARTER PADS	
WET HOUSING	X	WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5144612		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5144612		



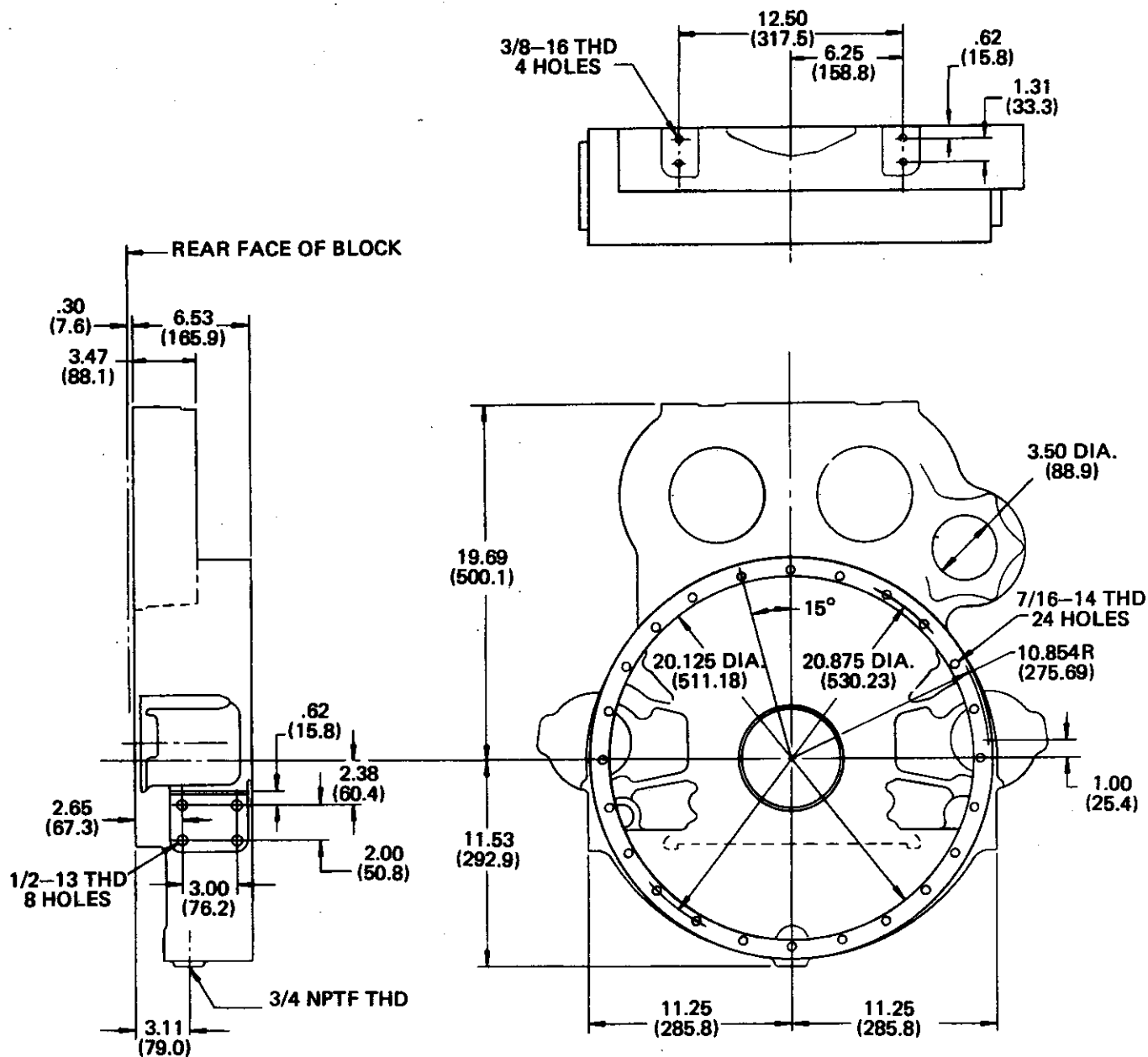
SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP	X	DUAL STARTER PADS	
WET HOUSING	X	WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	4144612		
CHT 5132454			
SERVICE		PRODUCTION	X
PART NUMBER 5100873			



SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP	X	DUAL STARTER PADS	
WET HOUSING	X	WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE	X	BOTTOM DRAIN	X
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5144612		
CHT 5132454			
SERVICE		PRODUCTION	X
PART NUMBER	5101057		



SPECIAL FEATURES			
MAGNETIC PICK-UP		HELICAL INSERTS	
OIL SCOOP		DUAL STARTER PADS	X
WET HOUSING		WIDE MOUNTING PADS	
SEMI-WET HOUSING		ADAPTOR BELL	
VENTED-GENERATOR		ACCESS HOLE (BELL)	
BARRING-OVER HOLE	X	SINGLE MTG. PAD	
TORQUE CON. ACC. HOLE		BOTTOM DRAIN	
BOTTOM BAFFLE			
INTEGRAL HUB			
TURBO-MOUNTING PAD			
MARINE GEAR ACC. HOLE			

PERMANENT MOLD		SAND CAST	X
ALUMINUM		CAST IRON	X
STARTER	A or C and A or B TYPE		
CRANKSHAFT DIA.	4.686 (119.02)		
ENGINE TYPE	L71		
S.A.E. NUMBER	1		
CASTING PART NO.	5109502		
CHT 5132454			
SERVICE	X	PRODUCTION	X
PART NUMBER	5109592		

L-770 481 1/2