

NOTE #1: ALL THREADS FOR BOLTS, NUTS AND NUT END OF STUDS TO BE #3 FIT
 BETWEN END OF STUDS TO BE #2 FIT. ALL THREADS TO CONFORM TO
 NATIONAL COARSE THREAD SERIES UNLESS OTHERWISE MARKED

NOTE #2: SURFACE INSPECTION ONLY

NOTE #3: MADE AS PER 43B11 TYPE A-3 SEMI-FINISHED REGULAR

NOTE #4: .016" THICK, CUT TO FIT JOINT BETWEEN CASE AND COVER

NOTE #5: HYDROSTATIC TEST PRESSURE 150% GAGE

NOTE #6: SEALING STRIP USE GRADE 25 SILVER SOLDER N.D. SPEC 47A13

NOTE #7: MATERIAL IS HEAT TREATED TO GIVE A MINIMUM HARDNESS OF 288 BRINELL

NOTE #8: COMMERCIAL MATERIALS SUBSTITUTED

NOTE #9: MATERIAL IS COLE DRAWN

NOTE #10: ONE SET OF BRASS IMPELLER AND CASING WEARINGS RINGS (PC-940 TOSS INTL)
 ASSEMBLED WITH COMPLETE RUBBER GASKETS TO SHOWN IN DETAIL

NOTE #11: ONE SET OF BRASS IMPELLER AND CASING WEARINGS RINGS (PC-940 44 #12 27)
 IS MACHINED WITH .016" DIA. EXTRA METAL ON WEARING SURFACES

NOTE #12: ONE SPRING CASING WEARING RING (PC-950) IS MACHINED WITH
 1/16" EXTRA METAL ON WEARING SURFACES

NOTE #13: FOR THE ORIGINAL INSTALLATION THE FOLLOWING MATERIAL IS SUBSTITUTED
 CHEMICAL COMPOSITION PHYSICAL PROPERTIES

NOTE #14: THE FOLLOWING MATERIAL MAY BE SUBSTITUTED
 CHEMICAL COMPOSITION PHYSICAL PROPERTIES

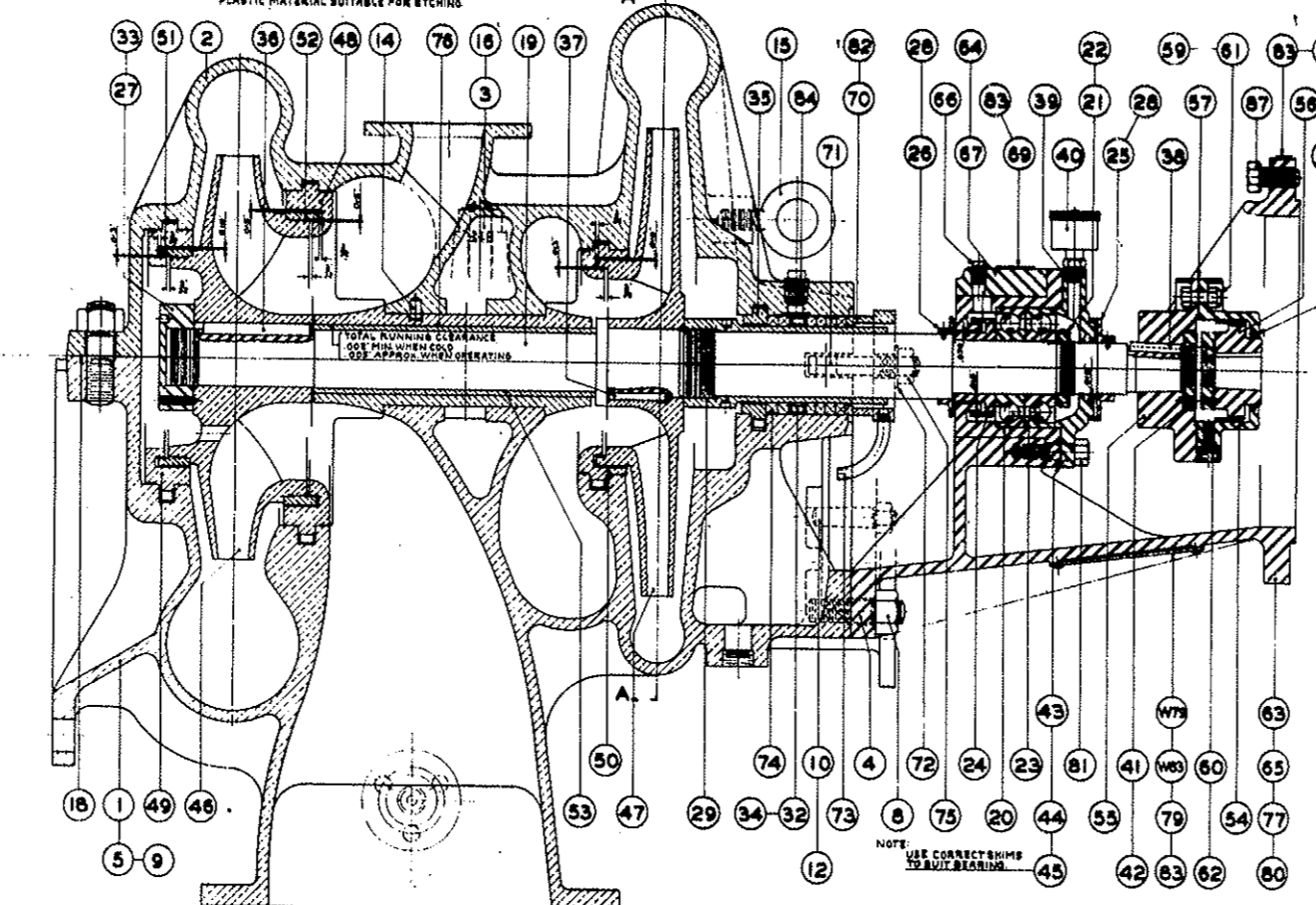
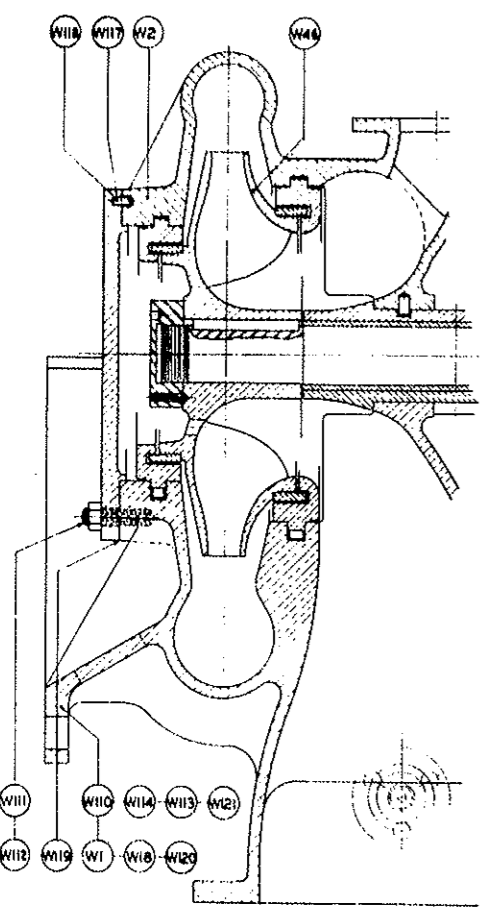
NOTE #15: MOTOR SHALL BE DYNAMICALLY BALANCED WITH ALL ROTATING PARTS ASSEMBLED
 AS PER NAVY DEPT SPECIFICATIONS 5-47-E-8

NOTE #16: MATERIAL IS CENTRIFUGALLY CAST, BRINELL HARDNESS 170 TO 212

NOTE #17: SUPPLIED BY JOHN WALDRON CORP. NEW BRUNSWICK, N.J.

NOTE #18: THE FOLLOWING MATERIAL IS SUBSTITUTED
 PLASTIC MATERIAL SUITABLE FOR ETCHING

LIST OF MATERIAL - QUANTITIES ARE FOR ONE UNIT EXCEPT SPARES WHICH ARE FOR ONE SHIP 4-UNITS PER SHIP									
ITEM NO.	NAME OF PIECE	MATERIAL	QTY	REMARKS	ITEM NO.	NAME OF PIECE	MATERIAL	QTY	REMARKS
1	PUMP CASE	WAVE BRONZE	1	SEE NOTE 1	1	PUMP CASE	WAVE BRONZE	1	SEE NOTE 1
2	PUMP CASE COVER	WAVE BRONZE	1	SEE NOTE 1	2	PUMP CASE COVER	WAVE BRONZE	1	SEE NOTE 1
3	IMPELLER (1ST STAGE)	BRASS	1	SEE NOTE 1	3	IMPELLER (1ST STAGE)	BRASS	1	SEE NOTE 1
4	IMPELLER (2ND STAGE)	BRASS	1	SEE NOTE 1	4	IMPELLER (2ND STAGE)	BRASS	1	SEE NOTE 1
5	IMPELLER (3RD STAGE)	BRASS	1	SEE NOTE 1	5	IMPELLER (3RD STAGE)	BRASS	1	SEE NOTE 1
6	IMPELLER (4TH STAGE)	BRASS	1	SEE NOTE 1	6	IMPELLER (4TH STAGE)	BRASS	1	SEE NOTE 1
7	IMPELLER (5TH STAGE)	BRASS	1	SEE NOTE 1	7	IMPELLER (5TH STAGE)	BRASS	1	SEE NOTE 1
8	IMPELLER (6TH STAGE)	BRASS	1	SEE NOTE 1	8	IMPELLER (6TH STAGE)	BRASS	1	SEE NOTE 1
9	IMPELLER (7TH STAGE)	BRASS	1	SEE NOTE 1	9	IMPELLER (7TH STAGE)	BRASS	1	SEE NOTE 1
10	IMPELLER (8TH STAGE)	BRASS	1	SEE NOTE 1	10	IMPELLER (8TH STAGE)	BRASS	1	SEE NOTE 1
11	IMPELLER (9TH STAGE)	BRASS	1	SEE NOTE 1	11	IMPELLER (9TH STAGE)	BRASS	1	SEE NOTE 1
12	IMPELLER (10TH STAGE)	BRASS	1	SEE NOTE 1	12	IMPELLER (10TH STAGE)	BRASS	1	SEE NOTE 1
13	IMPELLER (11TH STAGE)	BRASS	1	SEE NOTE 1	13	IMPELLER (11TH STAGE)	BRASS	1	SEE NOTE 1
14	IMPELLER (12TH STAGE)	BRASS	1	SEE NOTE 1	14	IMPELLER (12TH STAGE)	BRASS	1	SEE NOTE 1
15	IMPELLER (13TH STAGE)	BRASS	1	SEE NOTE 1	15	IMPELLER (13TH STAGE)	BRASS	1	SEE NOTE 1
16	IMPELLER (14TH STAGE)	BRASS	1	SEE NOTE 1	16	IMPELLER (14TH STAGE)	BRASS	1	SEE NOTE 1
17	IMPELLER (15TH STAGE)	BRASS	1	SEE NOTE 1	17	IMPELLER (15TH STAGE)	BRASS	1	SEE NOTE 1
18	IMPELLER (16TH STAGE)	BRASS	1	SEE NOTE 1	18	IMPELLER (16TH STAGE)	BRASS	1	SEE NOTE 1
19	IMPELLER (17TH STAGE)	BRASS	1	SEE NOTE 1	19	IMPELLER (17TH STAGE)	BRASS	1	SEE NOTE 1
20	IMPELLER (18TH STAGE)	BRASS	1	SEE NOTE 1	20	IMPELLER (18TH STAGE)	BRASS	1	SEE NOTE 1
21	IMPELLER (19TH STAGE)	BRASS	1	SEE NOTE 1	21	IMPELLER (19TH STAGE)	BRASS	1	SEE NOTE 1
22	IMPELLER (20TH STAGE)	BRASS	1	SEE NOTE 1	22	IMPELLER (20TH STAGE)	BRASS	1	SEE NOTE 1
23	IMPELLER (21ST STAGE)	BRASS	1	SEE NOTE 1	23	IMPELLER (21ST STAGE)	BRASS	1	SEE NOTE 1
24	IMPELLER (22ND STAGE)	BRASS	1	SEE NOTE 1	24	IMPELLER (22ND STAGE)	BRASS	1	SEE NOTE 1
25	IMPELLER (23RD STAGE)	BRASS	1	SEE NOTE 1	25	IMPELLER (23RD STAGE)	BRASS	1	SEE NOTE 1
26	IMPELLER (24TH STAGE)	BRASS	1	SEE NOTE 1	26	IMPELLER (24TH STAGE)	BRASS	1	SEE NOTE 1
27	IMPELLER (25TH STAGE)	BRASS	1	SEE NOTE 1	27	IMPELLER (25TH STAGE)	BRASS	1	SEE NOTE 1
28	IMPELLER (26TH STAGE)	BRASS	1	SEE NOTE 1	28	IMPELLER (26TH STAGE)	BRASS	1	SEE NOTE 1
29	IMPELLER (27TH STAGE)	BRASS	1	SEE NOTE 1	29	IMPELLER (27TH STAGE)	BRASS	1	SEE NOTE 1
30	IMPELLER (28TH STAGE)	BRASS	1	SEE NOTE 1	30	IMPELLER (28TH STAGE)	BRASS	1	SEE NOTE 1
31	IMPELLER (29TH STAGE)	BRASS	1	SEE NOTE 1	31	IMPELLER (29TH STAGE)	BRASS	1	SEE NOTE 1
32	IMPELLER (30TH STAGE)	BRASS	1	SEE NOTE 1	32	IMPELLER (30TH STAGE)	BRASS	1	SEE NOTE 1
33	IMPELLER (31ST STAGE)	BRASS	1	SEE NOTE 1	33	IMPELLER (31ST STAGE)	BRASS	1	SEE NOTE 1
34	IMPELLER (32ND STAGE)	BRASS	1	SEE NOTE 1	34	IMPELLER (32ND STAGE)	BRASS	1	SEE NOTE 1
35	IMPELLER (33RD STAGE)	BRASS	1	SEE NOTE 1	35	IMPELLER (33RD STAGE)	BRASS	1	SEE NOTE 1
36	IMPELLER (34TH STAGE)	BRASS	1	SEE NOTE 1	36	IMPELLER (34TH STAGE)	BRASS	1	SEE NOTE 1
37	IMPELLER (35TH STAGE)	BRASS	1	SEE NOTE 1	37	IMPELLER (35TH STAGE)	BRASS	1	SEE NOTE 1
38	IMPELLER (36TH STAGE)	BRASS	1	SEE NOTE 1	38	IMPELLER (36TH STAGE)	BRASS	1	SEE NOTE 1
39	IMPELLER (37TH STAGE)	BRASS	1	SEE NOTE 1	39	IMPELLER (37TH STAGE)	BRASS	1	SEE NOTE 1
40	IMPELLER (38TH STAGE)	BRASS	1	SEE NOTE 1	40	IMPELLER (38TH STAGE)	BRASS	1	SEE NOTE 1
41	IMPELLER (39TH STAGE)	BRASS	1	SEE NOTE 1	41	IMPELLER (39TH STAGE)	BRASS	1	SEE NOTE 1
42	IMPELLER (40TH STAGE)	BRASS	1	SEE NOTE 1	42	IMPELLER (40TH STAGE)	BRASS	1	SEE NOTE 1
43	IMPELLER (41ST STAGE)	BRASS	1	SEE NOTE 1	43	IMPELLER (41ST STAGE)	BRASS	1	SEE NOTE 1
44	IMPELLER (42ND STAGE)	BRASS	1	SEE NOTE 1	44	IMPELLER (42ND STAGE)	BRASS	1	SEE NOTE 1
45	IMPELLER (43RD STAGE)	BRASS	1	SEE NOTE 1	45	IMPELLER (43RD STAGE)	BRASS	1	SEE NOTE 1
46	IMPELLER (44TH STAGE)	BRASS	1	SEE NOTE 1	46	IMPELLER (44TH STAGE)	BRASS	1	SEE NOTE 1
47	IMPELLER (45TH STAGE)	BRASS	1	SEE NOTE 1	47	IMPELLER (45TH STAGE)	BRASS	1	SEE NOTE 1
48	IMPELLER (46TH STAGE)	BRASS	1	SEE NOTE 1	48	IMPELLER (46TH STAGE)	BRASS	1	SEE NOTE 1
49	IMPELLER (47TH STAGE)	BRASS	1	SEE NOTE 1	49	IMPELLER (47TH STAGE)	BRASS	1	SEE NOTE 1
50	IMPELLER (48TH STAGE)	BRASS	1	SEE NOTE 1	50	IMPELLER (48TH STAGE)	BRASS	1	SEE NOTE 1
51	IMPELLER (49TH STAGE)	BRASS	1	SEE NOTE 1	51	IMPELLER (49TH STAGE)	BRASS	1	SEE NOTE 1
52	IMPELLER (50TH STAGE)	BRASS	1	SEE NOTE 1	52	IMPELLER (50TH STAGE)	BRASS	1	SEE NOTE 1
53	IMPELLER (51ST STAGE)	BRASS	1	SEE NOTE 1	53	IMPELLER (51ST STAGE)	BRASS	1	SEE NOTE 1
54	IMPELLER (52ND STAGE)	BRASS	1	SEE NOTE 1	54	IMPELLER (52ND STAGE)	BRASS	1	SEE NOTE 1
55	IMPELLER (53RD STAGE)	BRASS	1	SEE NOTE 1	55	IMPELLER (53RD STAGE)	BRASS	1	SEE NOTE 1
56	IMPELLER (54TH STAGE)	BRASS	1	SEE NOTE 1	56	IMPELLER (54TH STAGE)	BRASS	1	SEE NOTE 1
57	IMPELLER (55TH STAGE)	BRASS	1	SEE NOTE 1	57	IMPELLER (55TH STAGE)	BRASS	1	SEE NOTE 1
58	IMPELLER (56TH STAGE)	BRASS	1	SEE NOTE 1	58	IMPELLER (56TH STAGE)	BRASS	1	SEE NOTE 1
59	IMPELLER (57TH STAGE)	BRASS	1	SEE NOTE 1	59	IMPELLER (57TH STAGE)	BRASS	1	SEE NOTE 1
60	IMPELLER (58TH STAGE)	BRASS	1	SEE NOTE 1	60	IMPELLER (58TH STAGE)	BRASS	1	SEE NOTE 1
61	IMPELLER (59TH STAGE)	BRASS	1	SEE NOTE 1	61	IMPELLER (59TH STAGE)	BRASS	1	SEE NOTE 1
62	IMPELLER (60TH STAGE)	BRASS	1	SEE NOTE 1	62	IMPELLER (60TH STAGE)	BRASS	1	SEE NOTE 1
63	IMPELLER (61ST STAGE)	BRASS	1	SEE NOTE 1	63	IMPELLER (61ST STAGE)	BRASS	1	SEE NOTE 1
64	IMPELLER (62ND STAGE)	BRASS	1	SEE NOTE 1	64	IMPELLER (62ND STAGE)	BRASS	1	SEE NOTE 1
65	IMPELLER (63RD STAGE)	BRASS	1	SEE NOTE 1	65	IMPELLER (63RD STAGE)	BRASS	1	SEE NOTE 1
66	IMPELLER (64TH STAGE)	BRASS	1	SEE NOTE 1	66	IMPELLER (64TH STAGE)	BRASS	1	SEE NOTE 1
67	IMPELLER (65TH STAGE)	BRASS	1	SEE NOTE 1	67	IMPELLER (65TH STAGE)	BRASS	1	SEE NOTE 1
68	IMPELLER (66TH STAGE)	BRASS	1	SEE NOTE 1	68	IMPELLER (66TH STAGE)	BRASS	1	SEE NOTE 1
69	IMPELLER (67TH STAGE)	BRASS	1	SEE NOTE 1	69	IMPELLER (67TH STAGE)	BRASS	1	SEE NOTE 1
70	IMPELLER (68TH STAGE)	BRASS	1	SEE NOTE 1	70	IMPELLER (68TH STAGE)	BRASS	1	SEE NOTE 1
71	IMPELLER (69TH STAGE)	BRASS	1	SEE NOTE 1	71	IMPELLER (69TH STAGE)	BRASS	1	SEE NOTE 1
72	IMPELLER (70TH STAGE)	BRASS	1	SEE NOTE 1	72	IMPELLER (70TH STAGE)	BRASS	1	SEE NOTE 1
73	IMPELLER (71ST STAGE)	BRASS	1	SEE NOTE 1	73	IMPELLER (71ST STAGE)	BRASS	1	SEE NOTE 1
74	IMPELLER (72ND STAGE)	BRASS	1	SEE NOTE 1	74	IMPELLER (72ND STAGE)	BRASS	1	SEE NOTE 1
75	IMPELLER (73RD STAGE)	BRASS	1	SEE NOTE 1	75	IMPELLER (73RD STAGE)	BRASS	1	SEE NOTE 1
76	IMPELLER (74TH STAGE)	BRASS	1	SEE NOTE 1	76	IMPELLER (74TH STAGE)	BRASS	1	SEE NOTE 1
77	IMPELLER (75TH STAGE)	BRASS	1	SEE NOTE 1	77	IMPELLER (75TH STAGE)	BRASS	1	SEE NOTE 1
78	IMPELLER (76TH STAGE)	BRASS	1	SEE NOTE 1	78	IMPELLER (76TH STAGE)	BRASS	1	SEE NOTE 1
79	IMPELLER (77TH STAGE)	BRASS	1	SEE NOTE 1	79	IMPELLER (77TH STAGE)	BRASS	1	SEE NOTE 1
80	IMPELLER (78TH STAGE)	BRASS	1	SEE NOTE 1	80	IMPELLER (78TH STAGE)	BRASS	1	SEE NOTE 1
81	IMPELLER (79TH STAGE)	BRASS	1	SEE NOTE 1	81	IMPELLER (79TH STAGE)	BRASS	1	SEE NOTE 1
82	IMPELLER (80TH STAGE)	BRASS	1	SEE NOTE 1	82	IMPELLER (80TH STAGE)	BRASS	1	SEE NOTE 1
83	IMPELLER (81ST STAGE)	BRASS	1	SEE NOTE 1	83	IMPELLER (81ST STAGE)	BRASS	1	SEE NOTE 1
84	IMPELLER (82ND STAGE)	BRASS	1	SEE NOTE 1	84	IMPELLER (82ND STAGE)	BRASS	1	SEE NOTE 1
85	IMPELLER (83RD STAGE)	BRASS	1	SEE NOTE 1	85	IMPELLER (83RD STAGE)	BRASS	1	SEE NOTE 1
86	IMPELLER (84TH STAGE)	BRASS	1	SEE NOTE 1	86	IMPELLER (84TH STAGE)	BRASS	1	SEE NOTE 1
87	IMPELLER (85TH STAGE)	BRASS	1	SEE NOTE 1	87	IMPELLER (85TH STAGE)	BRASS	1	SEE NOTE 1
88	IMPELLER (86TH STAGE)	BRASS	1	SEE NOTE 1	88	IMPELLER (86TH STAGE)	BRASS	1	SEE NOTE 1
89	IMPELLER (87TH STAGE)	BRASS	1	SEE NOTE 1	89	IMPELLER (87TH STAGE)	BRASS	1	SEE NOTE 1
90	IMPELLER (88TH STAGE)	BRASS	1	SEE NOTE 1	90	IMPELLER (88TH STAGE)	BRASS	1	SEE NOTE 1
91	IMPELLER (89TH STAGE)	BRASS	1	SEE NOTE 1	91	IMPELLER (89TH STAGE)	BRASS	1	SEE NOTE 1
92	IMPELLER (90TH STAGE)	BRASS	1	SEE NOTE 1	92	IMPELLER (90TH STAGE)	BRASS	1	SEE NOTE 1
93	IMPELLER (91ST STAGE)	BRASS	1	SEE NOTE 1	93	IMPELLER (91ST STAGE)	BRASS	1	SEE NOTE 1
94	IMPELLER (92ND STAGE)	BRASS	1	SEE NOTE 1	94	IMPELLER (92ND STAGE)	BRASS	1	SEE NOTE 1
95	IMPELLER (93RD STAGE)	BRASS	1	SEE NOTE 1	95	IMPELLER (93RD STAGE)	BRASS	1	SEE NOTE 1
96	IMPELLER (94TH STAGE)	BRASS	1	SEE NOTE 1	96	IMPELLER (94TH STAGE)	BRASS	1	SEE NOTE 1
97	IMPELLER (95TH STAGE)	BRASS	1	SEE NOTE 1	97	IMPELLER (95TH STAGE)	BRASS	1	SEE NOTE 1
98	IMPELLER (96TH STAGE)	BRASS	1	SEE NOTE 1	98	IMPELLER (96TH STAGE)	BRASS	1	SEE NOTE 1
99	IMPELLER (97TH STAGE)	BRASS	1	SEE NOTE 1	99	IMPELLER (97TH STAGE)	BRASS	1	SEE NOTE 1
100	IMPELLER (98TH STAGE)	BRASS	1	SEE NOTE 1	100	IMPELLER (98TH STAGE)	BRASS	1	SEE NOTE 1
101	IMPELLER (99TH STAGE)	BRASS	1	SEE NOTE 1	101	IMPELLER (99TH STAGE)	BRASS	1	SEE NOTE 1
102	IMPELLER (100TH STAGE)	BRASS	1	SEE NOTE 1	102	IMPELLER (100TH STAGE)	BRASS	1	SEE NOTE 1



ITEM NO.	NAME OF PIECE	MATERIAL	QTY	REMARKS
103	IMPELLER (101ST STAGE)	BRASS	1	SEE NOTE 1
104	IMPELLER (102ND STAGE)	BRASS	1	SEE NOTE 1
105	IMPELLER (103RD STAGE)	BRASS	1	SEE NOTE 1
106	IMPELLER (104TH STAGE)	BRASS	1	SEE NOTE 1
107	IMPELLER (105TH STAGE)	BRASS	1	SEE NOTE 1
108	IMPELLER (106TH STAGE)	BRASS	1	SEE NOTE 1
109	IMPELLER (107TH STAGE)	BRASS	1	SEE NOTE 1
110	IMPELLER (108TH STAGE)	BRASS	1	SEE NOTE 1
111	IMPELLER (109TH STAGE)	BRASS	1	SEE NOTE 1
112	IMPELLER (110TH STAGE)	BRASS	1	SEE NOTE 1
113	IMPELLER (111TH STAGE)	BRASS	1	SEE NOTE 1
1				