

## CHAPTER 8 — WEIGHT AND BALANCE

### CONTENTS — ILLUSTRATED PARTS BREAKDOWN

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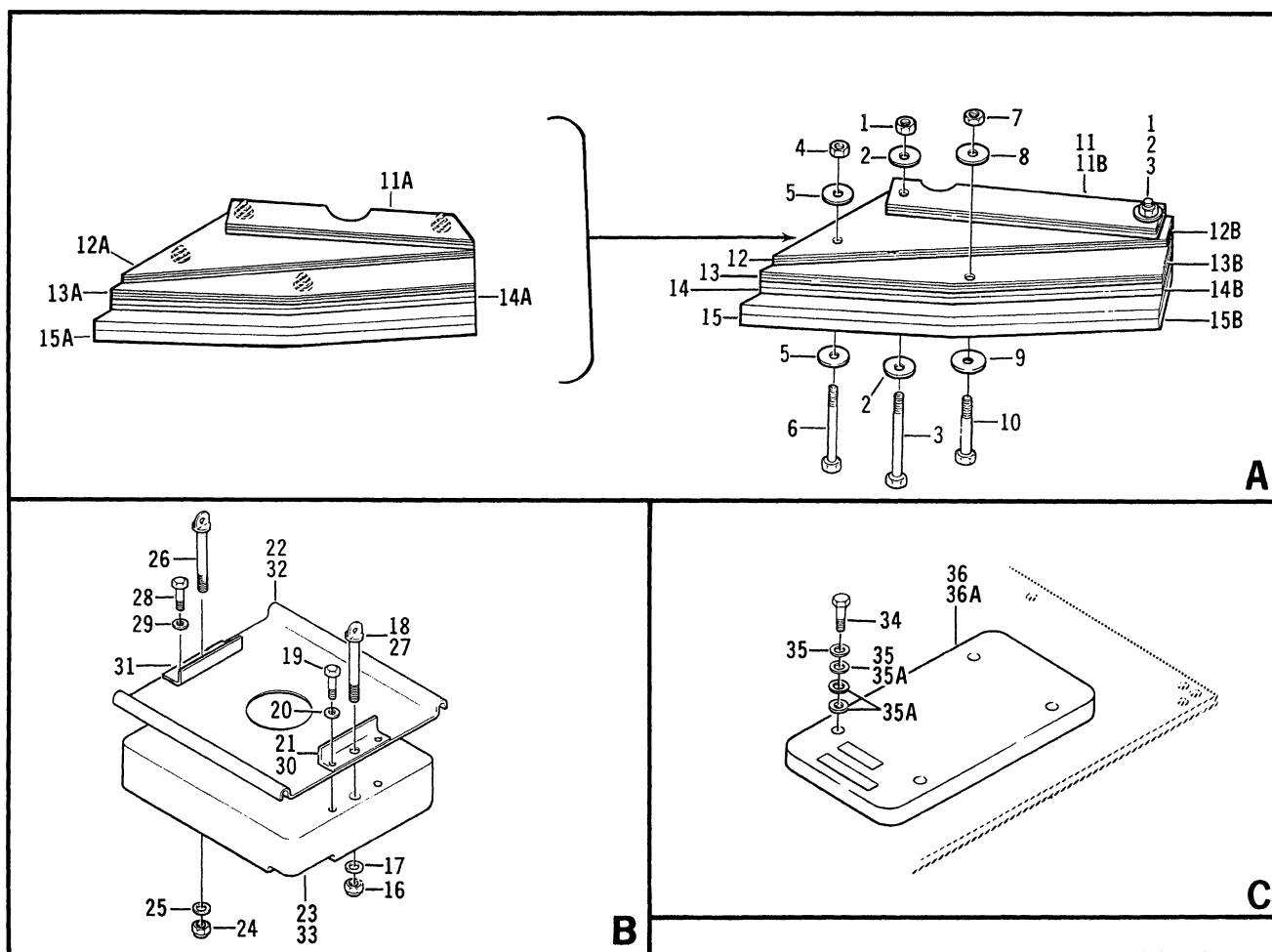
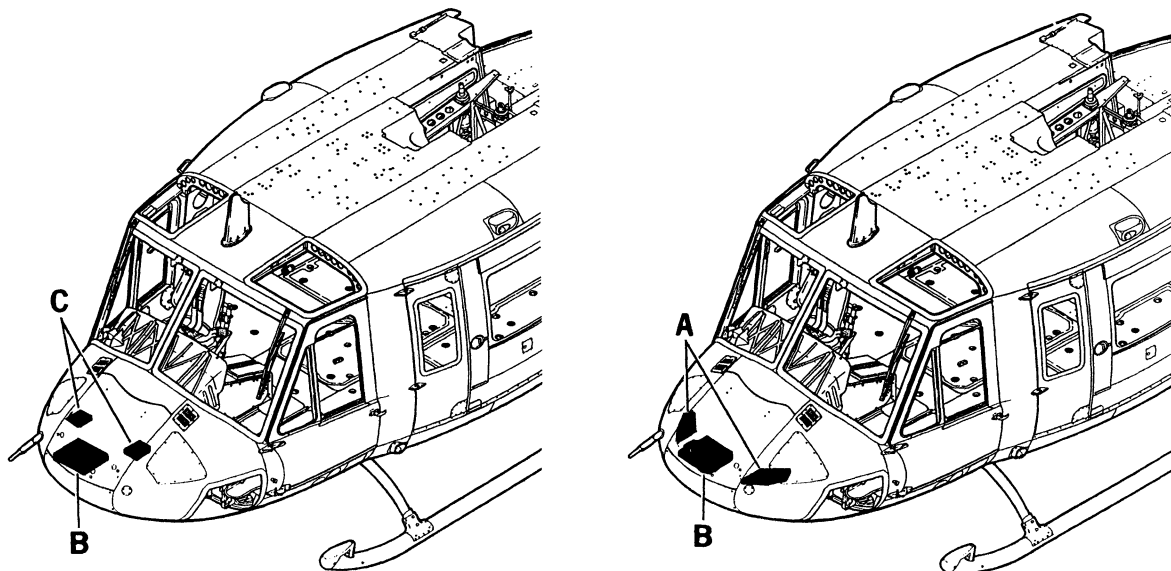

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Figure 8-1. Ballast Installation (Sheet 1 of 2)

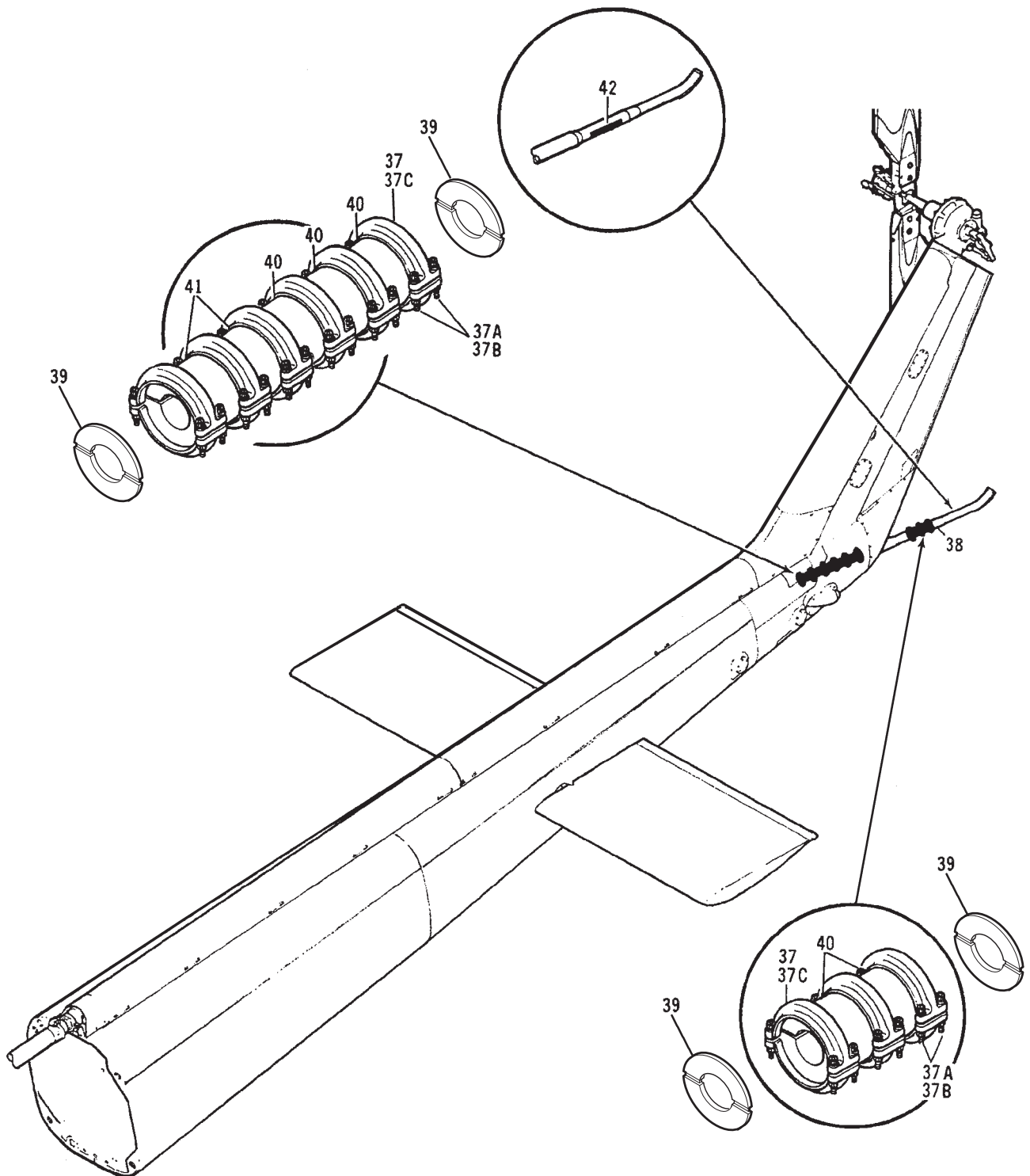


Figure 8-1. Ballast Installation (Sheet 2 of 2)

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(1) INDEX NUMBER	(2) PART NUMBER	(3) ITEM NAME	(4) UNIT PER ASSY	(5) A V A I L	(6) U O C
		<b>Figure 8-1. Ballast Installation</b>			
1	212-030-245-107	BALLAST INSTL (S/N 35049 THRU SUB) . . . . .	1	NP	
1	NAS679A4	. NUT (REPLACED BY MS21042L4) . . . . .	4	P	
1	MS21042L4	. NUT (REPLACES NAS679A4) . . . . .	4	SP	
2	AN970-4	. WASHER . . . . .	8	SP	
3	AN4-40A	. BOLT (NOTE 1) . . . . .	4	SP	
4	NAS679A4	. NUT (REPLACED BY MS21042L4) . . . . .	2	P	
4	MS21042L4	. NUT (REPLACES NAS679A4) . . . . .	2	SP	
5	AN970-4	. WASHER . . . . .	4	SP	
6	AN4-35A	. BOLT (NOTE 1) . . . . .	2	SP	
7	NAS679A4	. NUT (REPLACED BY MS21042L4) . . . . .	2	P	
7	MS21042L4	. NUT (REPLACES NAS679A4) . . . . .	2	SP	
8	AN970-4	. WASHER . . . . .	2	SP	
9	AN960-416	. WASHER (REPLACED BY NAS1149F0463P) . . . . .	2	NP	
9	NAS1149F0463P	. WASHER (REPLACES AN960-416) . . . . .	2	SP	
10	AN4-25A	. BOLT (NOTE 1) . . . . .	2	SP	
11	212-030-245-007	. BALLAST (NOTE 2) (REPLACED BY 212-030-245-147) . . . . .	3	NP	
11	212-030-245-147	. BALLAST (NOTE 2) (REPLACES 212-030-245-007) . . . . .	3	SP	
11A	212-030-245-121	. BALLAST (NOTE 2) (S/N 35049 THRU SUB) (REPLACED BY 212-030-245-151) . . . . .	3	NP	
11A	212-030-245-151	. BALLAST (NOTE 2) (REPLACES 212-030-245-121) . . . . .	3	P	
11B	212-030-245-007	. BALLAST (NOTE 2) (S/N 30504 THRU 31311, 35001 THRU 35048) (REPLACED BY 212-030-245-147) . . . . .	3	NP	
11B	212-030-245-147	. BALLAST (NOTE 2) (REPLACES 212-030-245-007) . . . . .	3	SP	
12	212-030-245-009	. BALLAST (NOTE 2) (REPLACED BY 212-030-245-149) . . . . .	3	NP	
12	212-030-245-149	. BALLAST (NOTE 2) (REPLACES 212-030-245-009) . . . . .	3	SP	
12A	212-030-245-123	. BALLAST (NOTE 2) (S/N 35049 THRU SUB) (REPLACED BY 212-030-245-153) . . . . .	3	NP	
12A	212-030-245-153	. BALLAST (NOTE 2) (REPLACES 212-030-245-123) . . . . .	3	P	
12B	212-030-245-009	. BALLAST (NOTE 2) (S/N 30504 THRU 31311, 35001 THRU 35048) (REPLACED BY 212-030-245-149) . . . . .	3	NP	
12B	212-030-245-149	. BALLAST (NOTE 2) (REPLACES 212-030-245-009) . . . . .	3	SP	
13	212-030-245-011	. BALLAST (NOTE 2) . . . . .	4	SP	
13A	212-030-245-125	. BALLAST (NOTE 2) (S/N 35049 THRU SUB) . . . . .	4	SP	
13B	212-030-245-011	. BALLAST (NOTE 2) (S/N 30504 THRU 31311, 35001 THRU 35048) . . . . .	4	SP	
14	212-030-245-013	. BALLAST (NOTE 2) . . . . .	2	SP	
14A	212-030-245-127	. BALLAST (NOTE 2) (S/N 35049 THRU SUB) . . . . .	2	SP	
14B	212-030-245-013	. BALLAST (NOTE 2) (S/N 30504 THRU 31311, 35001 THRU 35048) . . . . .	2	SP	
15	212-030-245-015	. BALLAST (NOTE 2) . . . . .	2	SP	
15A	212-030-245-129	. BALLAST (NOTE 2) (S/N 35049 THRU SUB) . . . . .	2	P	
15B	212-030-245-015	. BALLAST (NOTE 2) (S/N 30504 THRU 31311, 35001 THRU 35048) . . . . .	2	SP	
	212-030-177-001	BALLAST INSTL (S/N 30504 THRU 30596, 30604 THRU 30610) . . . . .	1	NP	
	212-030-177-005	BALLAST INSTL (S/N 30597 THRU 30603, 30611 THRU 30679) . . . . .	1	NP	
16	MS21042-5	. NUT (REPLACED BY MS21042L5) . . . . .	2	NP	
16	MS21042L5	. NUT, SELF-LOCKING (REPLACES MS21042-5) . . . . .	2	SP	
17	AN960PD516	. WASHER (REPLACED BY AN960JD516) . . . . .	2	P	
17	AN960JD516	. WASHER, FLAT (REPLACES AN960PD516) (REPLACED BY NAS1149D0563J) . . . . .	2	P	
17	NAS1149D0563J	. WASHER (REPLACES AN960JD516) . . . . .	2	SP	
18	AN44-37A	. EYEBOLT . . . . .	2	SP	
19	AN3-30A	. BOLT . . . . .	4	SP	
20	AN960PD10	. WASHER (REPLACED BY AN960JD10) . . . . .	4	SP	
20	AN960JD10	. WASHER (REPLACES AN960PD10) (REPLACED BY NAS1149D0363J) . . . . .	4	P	
20	NAS1149D0363J	. WASHER (REPLACES AN960JD10) . . . . .	4	SP	
21	212-030-176-001	. BRACKET . . . . .	2	SP	
22	212-030-175-001	. PAN (S/N 30504 THRU 30596, 30604 THRU 30610) . . . . .	1	NP	
22	212-030-175-003	. PAN (S/N 30597 THRU 30603, 30611 THRU 30697) (REPLACED BY 212-030-175-005) . . . . .	1	NP	

(1)	(2)	(3)	(4)	(5)	(6)
INDEX NUMBER	PART NUMBER	ITEM NAME	UNIT PER ASSY	A V A I L	U O C
		<b>Figure 8-1. Ballast Installation (Cont'd)</b>			
22	212-030-175-005	. PAN (REPLACES 212-030-175-003) . . . . .	1	SP	
23	212-030-173-001	. BALLAST (NOTE 2) (S/N 30504 THRU 30596, 30604 THRU 30610)	1	P	
23	212-030-173-007	. BALLAST (NOTE 2) (S/N 30597 THRU 30603, 30611 THRU 30679)	1	NP	
	212-030-177-007	BALLAST INSTL (S/N 30680 THRU 31311, 35001 THRU 35011) . . .	1	NP	
	212-030-177-101	BALLAST INSTL (S/N 35012 THRU 35068) . . . . .	1	NP	
	212-030-177-103	BALLAST INSTL (S/N 35069 THRU SUB) . . . . .	1	NP	
24	MS21042-5	. NUT (REPLACED BY MS21042L5) . . . . .	2	NP	
24	MS21042L5	. NUT, SELF-LOCKING (REPLACES MS21042-5) . . . . .	2	SP	
25	AN960PD516	. WASHER (REPLACED BY AN960JD516) . . . . .	2	P	
25	AN960JD516	. WASHER, FLAT (REPLACES AN960PD516) (REPLACED BY NAS1149D0563J) . . . . .	2	P	
25	NAS1149D0563J	. WASHER (REPLACES AN960JD516) . . . . .	2	SP	
26	AN44-31A	. EYEBOLT (NOTE 3) . . . . .	1	SP	
26	AN44-4A	. EYEBOLT (NOTE 3) . . . . .	1	SP	
27	AN44-37A	. EYEBOLT (NOTE 3) . . . . .	1	SP	
27	AN44-12A	. EYEBOLT (NOTE 3) . . . . .	1	SP	
28	AN3-31A	. BOLT (NOTE 6) . . . . .	4	SP	
28	NAS6203-10	. BOLT (NOTE 6) . . . . .	4	SP	
29	AN960PD10	. WASHER (REPLACED BY AN960JD10) . . . . .	4	SP	
29	AN960JD10	. WASHER (REPLACES AN960PD10) (REPLACED BY NAS1149D0363J) . . . . .	4	P	
29	NAS1149D0363J	. WASHER (REPLACES AN960JD10) . . . . .	4	SP	
30	212-030-176-001	. BRACKET, RESTRAINT, BATTERY . . . . .	1	SP	
31	212-030-176-003	. BRACKET, RESTRAINT, BATTERY . . . . .	1	SP	
32	212-030-175-005	. PAN, RESTRAINT, BATTERY . . . . .	1	SP	
33	212-030-173-009	. BALLAST (NOTE 2) (S/N 30680 THRU 31311, 35001 THRU 35080) (REPLACED BY 212-030-173-101) . . . . .	1	NP	
33	212-030-173-101	. BALLAST (NOTE 2) (REPLACES 212-030-173-009) . . . . .	1	SP	
34	NAS6604-9	. BOLT (NOTE 4) (S/N 35012 THRU SUB) . . . . .	8	SP	
34	NAS6604-17	. BOLT (NOTE 4) (S/N 35012 THRU SUB) . . . . .	8	SP	
34	NAS6604-25	. BOLT (NOTE 4) (S/N 35012 THRU SUB) . . . . .	8	SP	
34	NAS6604-42	. BOLT (NOTE 4) (S/N 35069 THRU SUB) . . . . .	8	SP	
34	NAS6604-50	. BOLT (NOTE 4) (S/N 35069 THRU SUB) . . . . .	8	SP	
34	NAS6604-58	. BOLT (NOTE 4) (S/N 35069 THRU SUB) . . . . .	8	SP	
34	NAS6604-34	. BOLT (NOTE 4, 5) (S/N 35012 THRU SUB) . . . . .	8	SP	
35	AN960PD416L	. WASHER (NOTE 5) (S/N 35012 THRU 35068) (REPLACED BY AN960JD416L) . . . . .	16	NP	
35	AN960JD416L	. WASHER (NOTE 5) (S/N 35012 THRU 35068) (REPLACES AN960PD416L) (REPLACED BY NAS1149D0416J) . . . . .	16	P	
35	NAS1149D0416J	. WASHER (NOTE 5) (S/N 35012 THRU 35068) (REPLACES AN960JD416L) . . . . .	16	SP	
35A	AN960PD416L	. WASHER (NOTE 5) (S/N 35069 THRU SUB) (REPLACED BY AN960JD416L) . . . . .	24	NP	
35A	AN960JD416L	. WASHER (NOTE 5) (S/N 35069 THRU SUB) (REPLACES AN960PD416L) (REPLACED BY NAS1149D0416J) . . . . .	24	P	
35A	NAS1149D0416J	. WASHER (NOTE 5) (S/N 35069 THRU SUB) (REPLACES AN960JD416L) . . . . .	24	SP	
36	222-031-357-101	. BALLAST (NOTE 2) (S/N 35012 THRU 35068) . . . . .	7	SP	
36A	222-031-357-101	. BALLAST (NOTE 2) (S/N 35069 THRU SUB) . . . . .	14	SP	
	212-030-435-001	BALLAST INSTL . . . . .	1	NP	
37	204-040-811-001	. CLAMP ASSY (NOTE 2) . . . . .	9	SP	
37A	52Z1835-048	. . NUT . . . . .	4	SP	
		(ALTERNATE PART)			
37A	D52Z1835-048	. . NUT . . . . .	4	P	
37B	MS9089-24	. . BOLT . . . . .	4	SP	
37C	204-040-809-001	. . CLAMP (NOTE 2) (REPLACED BY 204-040-809-003) . . . . .	2	NP	
37C	204-040-809-003	. . CLAMP ASSY (NOTE 2) (REPLACES 204-040-809-001) (REPLACED BY 204-040-811-001) . . . . .	2	P	

(1)	(2)	(3)	(4)	(5)	(6)
INDEX NUMBER	PART NUMBER	ITEM NAME	UNIT PER ASSY	A V A I L	U O C
		<b>Figure 8-1. Ballast Installation (Cont'd)</b>			
37C	204-040-811-001	. . CLAMP ASSY (NOTE 2) (REPLACES 204-040-809-003) . . . . .	2	SP	
38	MS9048-237	. PIN (REPLACED BY NAS561P8-26) . . . . .	1	NP	
38	NAS561P8-26	. PIN (REPLACES MS9048-237) . . . . .	1	SP	
39	204-071-566-005	. WASHER (NOTE 2) . . . . .	8	SP	
40	204-071-566-001	. BALLAST (NOTE 2) . . . . .	10	SP	
41	204-071-566-003	. BALLAST (NOTE 2) . . . . .	4	SP	
42	31-026-8F18	. DECAL (BALLAST INSIDE) (NOTE 7) (REPLACED BY 31-026-8B18)	1	NP	
42	31-026-8B18	. DECAL (BALLAST INSIDE) (NOTE 7) (REPLACES 31-026-8F18) .	1	SP	
		NOTE 1: BOLT LENGTHS TO BE DETERMINED ON INSTALLATION.			
		NOTE 2: QUANTITY SHOWN IS MAXIMUM AND IS DETERMINED BY SHIP CONFIGURATION. CHANGES BY OPERATOR SHOULD BE IN ACCORDANCE WITH BHT-212-MM.			
		NOTE 3: USE EYEBOLTS AN44-4A AND AN44-12A IN LIEU OF AN44-31A AND AN44-37A RESPECTIVELY IF BALLASTS ARE NOT REQUIRED.			
		NOTE 4: USE BOLTS NAS6604 BOLTS AS REQUIRED TO MATCH STACK UP OF BALLAST WEIGHTS 222-031-357 AND PANEL 212-030-066 THICKNESSES.			
		NOTE 5: USE ONE WASHER AN960JD416L UNDER HEAD OF ALL BOLTS NAS6604 EXCEPT FOR BOLTS NA56604-34, NAS6604-42, NAS6604-50 AND NAS6604-58, WHICH REQUIRE THREE WASHERS.			
		NOTE 6: USE BOLT NAS6203-10 IN LIEU OF AN3-31A IF BALLAST IS NOT REQUIRED.			
		NOTE 7: DECAL APPLIED ONLY IF BALLAST HAS BEEN ADDED. REFER TO BHT-212-MM.			
		<b>AVAIL CODE      DEFINITION</b>			
		P                    Procurable			
		NP                  Non Procurable			
		SP                  Normal Stock/Procurement			
		Please see Chapter 1 for additional information on availability codes as well as general use of the Illustrated Parts Breakdown Manual.			