

DEPARTMENT OF THE NAVY  
NAVAL SHIP SYSTEMS COMMAND  
WASHINGTON, D.C. 20360

IN REPLY REFER TO  
NAVSHIPSNOTE 9620  
Ser 6157E-3393  
13 October 1967

NAVSHIPS NOTICE 9620.

From: Commander, Naval Ship Systems Command  
To: Distribution List  
  
Subj: Shipboard electrical safety; electrical hazard  
associated with 450V plug connector of sub-  
mersible pump  
  
Ref: (a) FSN-5935-852-4200, Plug connector, 4 pin,  
grounded, 40 AMP 450 VAC, Navy std dwg.  
9000-S6202-73882, Rev L, Symbol 717  
(b) NAVSHIP TECH MANUAL, Chapter 60  
  
Encl: (1) Figure (1) 450V Plug assembly (FSN 5935-  
852-4200)

1. Purpose. The purpose of this Notice is to advise the addressees of a shock hazard from improper assembly of 450 volt plug, reference (a), provided for portable submersible pump, portable welders and chain hoists; and method of checking correct assembly of plug.

2. Problem. USS STURGEON (SSN 637) reported a shock hazard in subject plug if the plug pins are installed misoriented with respect to the plug aligning disk. This was disclosed when a routine check on submersible pump showed a zero ground on one of the phases of the motor; insertion of plug in a receptacle placed 450 volts on metal frame of pump. With reference to illustration, enclosure (1), disassembly of plug showed that although the phase A, B, C and ground pins were arrayed in proper sequence in plug pin holder, piece 73882-18, this assembly had been inserted in plug pin aligning disk, piece 73882-12, improperly rotated. As a result the ground pin was in phase C hole of piece 73882-12 and the A phase pin was in hole marked N of piece 73882-12.

3. Future plug manufacture. The feasibility of increasing the diameter of ground pin of plug, reference (a), to make it impossible to insert this ground pin into a live contact is being investigated.

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4. Action. It is requested that ships and stations using plug reference (a) check the internal wiring of plug in accordance with reference (b) articles 60-27 (4) and (5), before using equipment for first time and immediately after a repair of the equipment.

5. Cancellation. This Notice may be considered cancelled on inclusion of inspection specified in paragraph 4 in routine safety checks of subject equipment and for record purposes 1 May 1968.

*L. W. Wechsler*

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ENCLOSURE (1)

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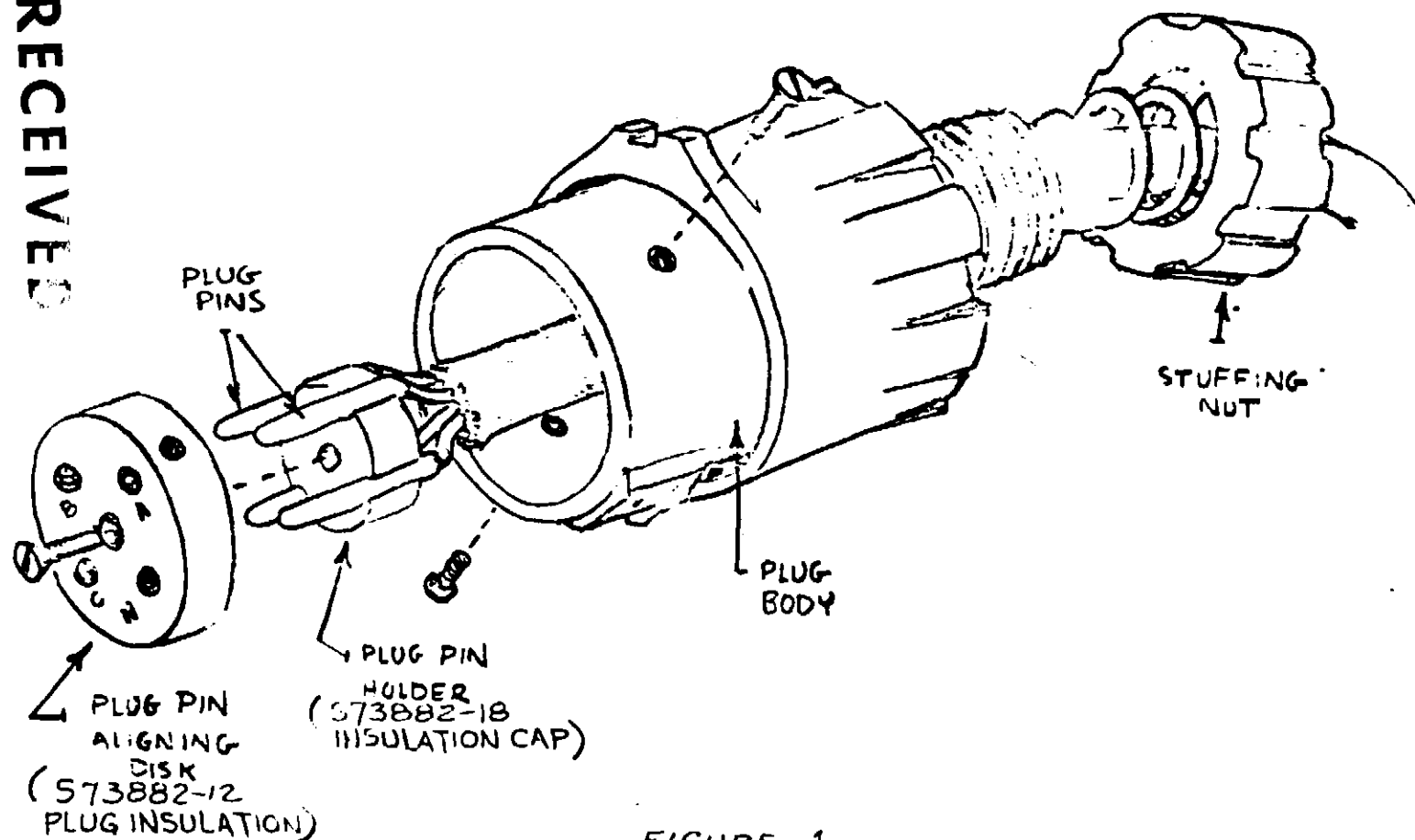


FIGURE 1

450 VOLT AC PLUG ASSEMBLY  
NIN 5935-852-4200  
NAVSEC DWG. 9000-SG202-73882

Encl.(1) to 6157E-3393