



# SERVICE BULLETIN

DATE: 30 JULY 1999

PAGE 1 OF 5

**MANDATORY**

\* Supersedes SB600N-023, dated 05 April 1999. **Reason for Revision:** Extend compliance time. Aircraft which have complied with SB600N-023 meet the intent of this revision.

## CYCLIC STICK REPLACEMENT

**NOTE:** Aircraft that have been modified to the requirements of this Service Bulletin no longer have to perform the requirements of SB600N-021R1.

### 1. PLANNING INFORMATION

**A. Aircraft Affected:**

All model 600N helicopters, serial number RN003 thru RN051.

**B. Assembly/Components Affected By This Notice:**

Pilot and Co-Pilot Cyclic Control Stick Assemblies (P/N 369D24285-505, 369D24285-507, 369D24285-905, 369D24285-907, 369D24286-513, 369D24286-509, 369D24286-909 and 369D24286-913); Pilot and Co-Pilot Sockets (P/N 369A7141, 369D7141-5 and 369A7802, 369D7802-3) and Co-Pilot Cyclic Tube (P/N 369D27132-501 and 369D27132-503).

**C. Reason:**

To replace life-limited cyclic control assemblies with unlimited life and improved cyclic control assemblies. Failure to perform the requirements of this Service Bulletin will result in having to perform repetitive aircraft inspections and replacement of cyclic sticks as described in SB600N-021R1.

**D. Description:**

Procedures in this Bulletin provide owners and operators with information pertaining to replacing life-limited cyclic control assemblies with unlimited life cyclic control assemblies.

**E. Time of Compliance:**

The requirements of this Bulletin shall be accomplished within the next 300 hours of helicopter operation or no later than 14 January 2000.

**F. FAA Approval:**

The technical design aspects of this Bulletin are FAA Approved.

**G. Manpower:**

10.0 man-hours.

**H. Interchangeability:**

None

**MANDATORY**

DATE: 30 JULY 1999

PAGE 2 OF 5

# SERVICE BULLETIN

/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///

## I. Material/Part Availability:

Contact MDHS Warranty and Repair Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Cyclic Stick Assembly, Pilot, Left Hand Command	600N7140B1 (consists of 600N7141-1 socket and 600N7132-501 tube)	1	MDHI
Cyclic Stick Assembly, Pilot, Right Hand Command	600N7140B3 (consists of 600N7141-1 socket and 600N7132-501 tube)	1	MDHI
Cyclic Stick Assembly, Co-Pilot, Left Hand Command	600N7801B1 (consists of 600N7802-1 socket and 600N7132-501 tube)	1	MDHI
Cyclic Stick Assembly, Co-Pilot Right Hand Command	600N7801B3 (consists of 600N7802-1 socket and 600N7132-501 tube)	1	MDHI
Connector	MS3476W18-32P	2	MDHI
Backshell	M85049/55-18W	2	MDHI
Sleeving	HS5330-1524 (RM 012518) HS5330-1531 (RM 012519)	A/R A/R	MDHI or Commercial
Tie Strap	MS3367-6-0	A/R	MDHI or Commercial

## J. Warranty Policy:

Replacement parts will be supplied by MDHI at no cost to the operator. A spares credit will be provided to compensate for labor (not to exceed 10 man-hours).

## K. Tooling:

Stripping tool (standard)

Crimping tool - MS22520/101-102 or equivalent (MS22520/701-702 or MS22520/201-202)

Insertion tools (M81969/14-02 or equivalent)

## L. Weight and Balance:

N/A

## M. Electrical Load Data:

N/A

/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///



# SERVICE BULLETIN

DATE: 30 JULY 1999

PAGE 3 OF 5

**/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///**

## **N. Other Publications Affected:**

Illustrated Parts Catalog (CSP-IPC-4)

## **2. ACCOMPLISHMENT INSTRUCTIONS**

Refer to Figure 1 Wiring Schematic while performing the requirements of this Service Bulletin.

- (1). Remove cyclic control stick assemblies from the helicopter per instructions in the Handbook of Maintenance Instructions, Section 67-10-00.
- (2). Identify each wire harness subassembly before removing from cyclic assembly for ease on reinstallation (black, green, red, yellow, white) forward hole; (gray, blue, purple twist, green twist) aft hole.
- (3). Securely attach leader string or safety wire to individual wire assemblies before removing from cyclic stick assembly for convenience of reassembly.
- (4). Cut and discard P109/P130 plugs as close to the back of the plug as possible.
- (5). Remove cyclic grip from stick assembly by removing screw per the HMI, Section 67-10-20.
- (6). Carefully remove grip and wire harness from the cyclic stick assembly.
- (7). Reinstall the wire harness sub-assemblies into new stick assembly. Ensure proper location of previously identified wire harness subassemblies.
- (8). Install cyclic grip to stick assembly per the HMI, Section 67-10-20.
- (9). Install new sleeving and new backshell (P/N M85049/55-18W) onto wire harness.
- (10). Using wire stripping tool and crimper, strip and crimp new pins onto wire harness.
- (11). Using insertion tool M81969/14-02 or equivalent, insert pins into the appropriate sockets of the connector (P/N MS3476W18-32P). Ensure pins have locked into the plug. Insert new red closeout plugs in unused sockets.
- (12). Assemble new connector (P109/P130). Position backshell onto plug.
- (13). As necessary, secure wire harness to stick assembly using tie straps.
- (14). Install cyclic stick assemblies into the helicopter per the HMI, Section 67-10-00.
- (15). Perform an operational check of the cyclic stick assemblies per the HMI, Section 67-10-00.
- (16). Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

## **3. DISPOSITION OF PARTS REMOVED**

Return to MDHI.

## **4. POINTS OF CONTACT**

For further assistance, contact your local MDHI Field Service Representative (refer to the latest revision of the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 891-6342. DATAFAX: (480) 891-6782.

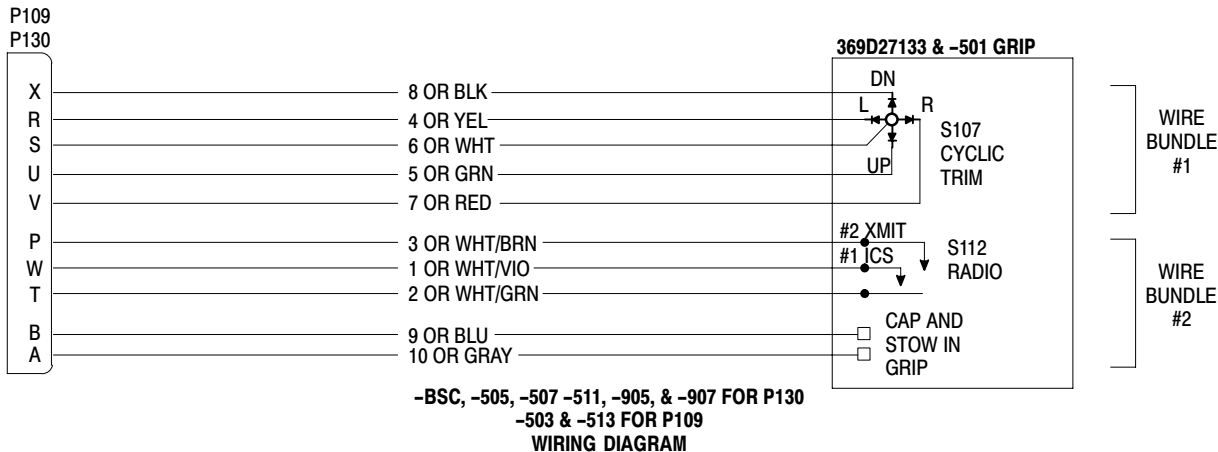
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DATE: 30 JULY 1999

PAGE 4 OF 5

# SERVICE BULLETIN

**MANDATORY MANDATORY MANDATORY**



88-774

**Figure 1. Cyclic Stick Assembly Wiring Schematic.**

**MANDATORY MANDATORY MANDATORY**



# SERVICE BULLETIN

DATE: 30 JULY 1999

PAGE 5 OF 5

**/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///**

## McDonnell Douglas Helicopter Systems Service Bulletin Response Form

Fax to (602) 891-6782

Operator or Company Name:

Location:

Bulletin No.:

Title:

Aircraft Ser. No.:

Date of Compliance:

Person Who Signed-Off Bulletin:

Tele:

Fax:

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