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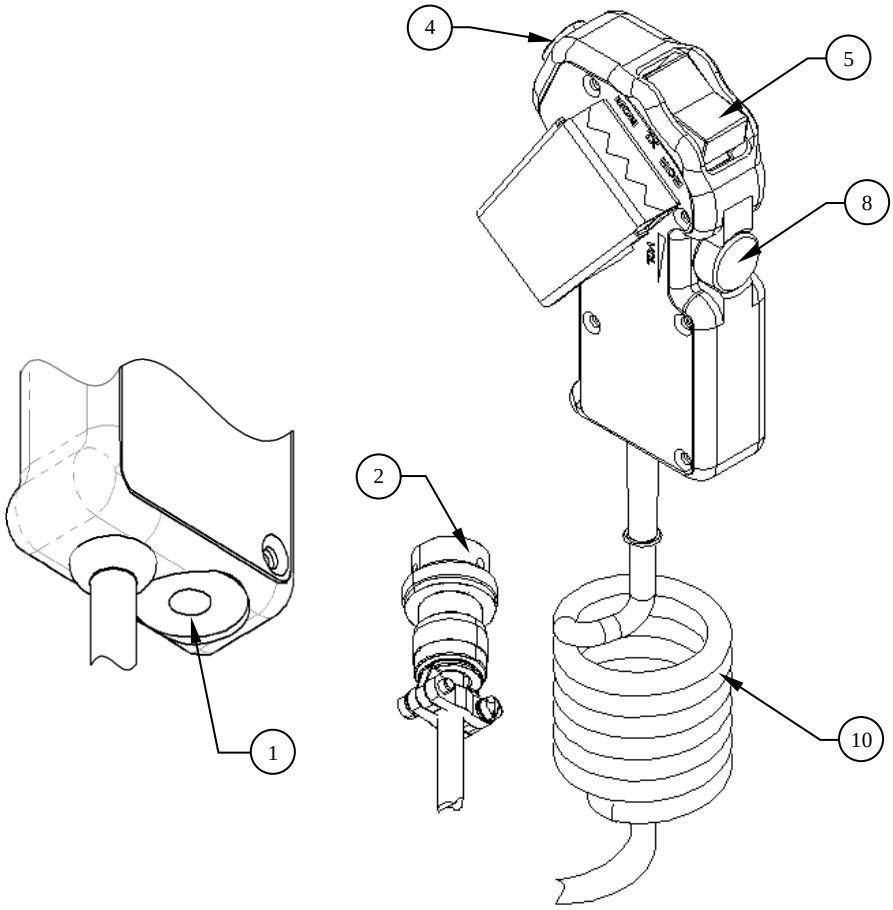
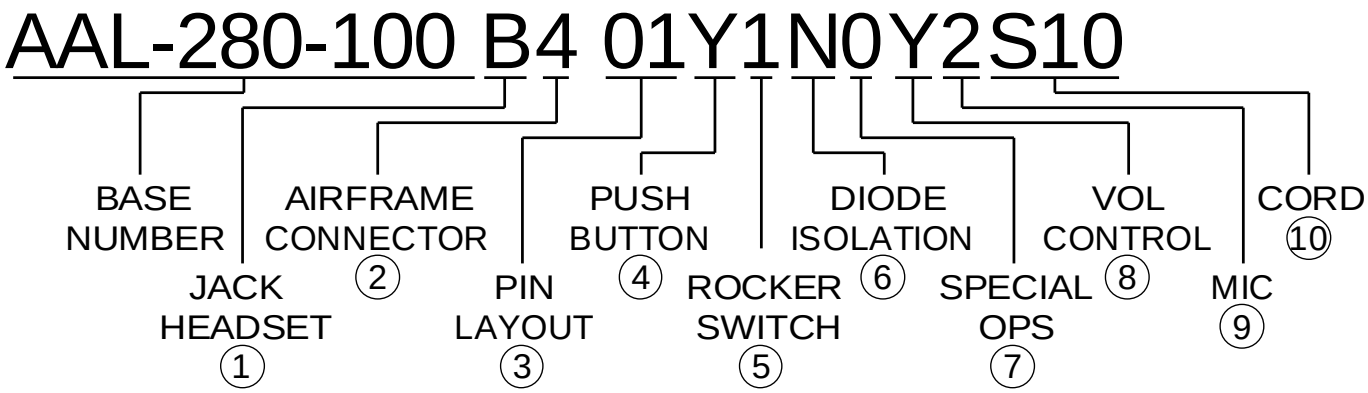
AAL DROP CORD, ASSY PART NUMBER SPEC



SOME ITEMS REMOVED FOR CLARITY
SOME ITEMS NOT SHOWN



DROP CORD, ASSY	AAL-280-100	REV A	07 / Dec / 2022

1) JACK HEADSET:

C – CIVILIAN HELICOPTER JACK (TJT-120 or equivalent)
B – BOSE JACK, 6 PIN LEMO CONNECTOR
L – LEMO JACK, 7 PIN LEMO CONNECTOR
S – STANDARD FIXED WING JACK
M – MILITARY JACK (TJT-108)
E – EURO NATO JACK

2) AIRFRAME CONNECTOR:

1 – 6 PIN CONNECTOR (MS3476L10-6P)
2 – 6 SOCKET CONNECTOR (MS3476L10-6S)
3 – 10 PIN CONNECTOR (MS3476L12-10P)
4 – CIVILIAN HELICOPTER PLUG (U93A/U)

3) AIRFRAME CONNECTOR PIN LAYOUT:

***NOTE: Unless otherwise stated MIC LO is used for the shield & key line source.**

CIVILIAN HELICOPTER PLUG (U93A/U)

01. –
1: MIC HI
2: PHN HI
3: MIC LO
4: PHN LO

6 CONTACT CONNECTOR (MS3476L10-6P or -6S)

07. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E: TX KEY
F: ICS KEY

08. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E:
F: ICS KEY

09. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E: TX KEY
F:

10. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E:
F:

11. –
A: PHN LO & GND FOR "KEYING"
B: MIC HI
C: MIC LO
D: PHN HI
E: TX KEY
F: ICS KEY

12. –
A: PHN LO & GND FOR "KEYING"
B: MIC HI
C: MIC LO
D: PHN HI
E:
F: ICS KEY

13. –
A: MIC HI
B: SHIELD
C: MIC LO
D: TX KEY
E: PHN HI
F: PHN LO

14. –
A: MIC HI
B: TX KEY
C: MIC LO
D: ICS KEY
E: PHN HI
F: PHN LO

15. –
A: MIC HI
B:
C: MIC LO
D: ICS KEY
E: PHN HI
F: PHN LO

3) CONTINUED AIRFRAME CONNECTOR PIN LAYOUT:

6 CONTACT CONNECTOR (MS3476L10-6P or -6S)

16. –
A: MIC HI
B:
C: MIC LO
D:
E: PHN HI
F: PHN LO

17. –
A: TX KEY
B: ICS KEY
C: PHN HI
D: MIC LO
E: PHN LO
F: MIC HI

18. –
A: MIC LO
B: ICS KEY
C: MIC HI
D: TX KEY
E: PHN HI
F: PHN LO & GND FOR "KEYING"

19. –
A: MIC LO
B:
C: MIC HI
D:
E: PHN HI
F: PHN LO

20. –
A: MIC LO
B: PHN HI
C: PHN LO
D: MIC HI
E: ICS KEY
F: TX KEY

21. –
A: MIC HI
B: ICS KEY
C: MIC LO
D: TX KEY
E: PHN HI
F: PHN LO & GND FOR "KEYING"

22. –
A: MIC HI
B: ICS KEY
C: MIC LO
D: TX KEY
E: PHN HI
F: PHN LO

23. –
A: MIC HI
B:
C: MIC LO
D:
E: PHN HI
F: PHN LO

24. –
A: ICS KEY
B: TX KEY
C: PHN LO & GND FOR "KEYING"
D: PHN HI
E: MIC LO
F: MIC HI

25. –
A: ICS KEY
B: TX KEY
C: PHN HI
D: MIC LO
E: PHN LO
F: MIC HI

26. –
A: MIC HI
B: SHIELD
C: MIC LO
D: PHN LO
E: PHN HI
F: TX KEY

27. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E: 28VDC
F:

28. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E: TX KEY
F: ICS KEY

29 -
A: PHN HI
B: MIC HI
C: MIC LO
D: PHN LO
E: TX KEY
F: ICS KEY

3) CONTINUED AIRFRAME CONNECTOR PIN LAYOUT:

10 PIN CONNECTOR (MS3476L12-10P)

55. –
A: PHN HI
B: PHN LO & GND FOR "KEYING"
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H: 28VDC
J: SHIELD
K:

56. –
A: PHN HI
B: PHN LO & GND FOR "KEYING"
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H:
J: SHIELD
K:

57. –
A: PHN HI
B: PHN LO
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H:
J: SHIELD
K:

58. –
A: ICS KEY
B: PHN HI
C: PHN LO & GND FOR "KEYING"
D:
E:
F: MIC HI
G: MIC LO
H:
J: SHIELD
K: TX KEY

59. –
A: ICS KEY
B: PHN HI
C: PHN LO & GND FOR "KEYING"
D: 28VDC
E:
F: MIC HI
G: MIC LO
H:
J: SHIELD
K: TX KEY

60. –
A: MIC HI
B: MIC LO
C: PHN HI
D:
E: ICS KEY
F: TX KEY
G: PHN LO
H:
J: 28VDC
K:

61. –
A: MIC HI
B: MIC LO
C: PHN HI
D: SHIELD
E: ICS KEY
F: TX KEY
G: PHN LO
H:
J: 28VDC
K:

62. –
A: PHN HI
B: PHN LO
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H:
J: SHIELD & GND FOR "KEYING"
K:

63. –
A: PHN HI
B: PHN LO
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H:
J: SHIELD
K: GND FOR "KEYING"

3) CONTINUED AIRFRAME CONNECTOR PIN LAYOUT:

10 PIN CONNECTOR (MS3476L12-10P)

64. –
A: PHN HI
B:
C: PHN LO
D: MIC HI
E: MIC LO
F:
G:
H:
J: SHIELD & GND FOR "KEYING"
K: TX KEY

65. –
A:
B: PHN HI
C: PHN LO
D:
E: MIC LO
F: MIC HI
G:
H:
J: SHIELD & GND FOR "KEYING"
K: TX KEY

66. –
A:
B: PHN HI
C: PHN LO & GND FOR "KEYING"
D:
E:
F: MIC HI
G: MIC LO
H: ICS KEY
J: TX KEY
K: SHIELD

67. –
A: PHN HI
B: PHN LO
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H:
J: SHIELD & GND FOR "KEYING"
K:

68. –
A: MIC HI
B: MIC LO
C: PHN HI
D: PHN LO
E: ICS KEY
F: TX KEY
G: SHIELD
H:
J:
K:

69. –
A: PHN HI
B: PHN LO
C: TX KEY
D: MIC LO
E: MIC HI
F:
G:
H:
J: SHIELD
K:

70. –
A: PHN LO
B: MIC HI
C: MIC LO
D: PHN HI
E: TX KEY
F: ICS KEY
G: 28VDC
H:
J:
K:

71. –
A:
B: PHN HI
C: PHN LO
D:
E: ICS KEY
F: MIC HI
G: MIC LO
H:
J: TX KEY
K: GROUND (SHIELD)

72. –
A: PHN HI
B: PHN LO
C:
D:
E:
F: MIC HI
G: MIC LO
H:
J: GROUND (SHIELD)
K:

73. –
A: PHN HI
B: PHN LO
C:
D: ICS KEY
E: TX KEY
F: MIC HI
G: MIC LO
H: 28VDC
J: SHIELD
K:

4) PUSH BUTTON SW:

Y – YES, USE FOR TX KEY
N – NO, NOT INSTALLED
I – YES, USE FOR ICS KEY

5) ROCKER SW:

	Function	Switch Type	Label
1 -	None	None	None
2 -	ICS	ON - OFF - (ON)	LOC / ICS / MOM
3 -	ICS	(ON) - OFF - (ON)	MOM / ICS / MOM
4 -	TX	(ON) - OFF - (ON)	MOM / TX / MOM
5 -	Custom	Custom	Custom

Note: For switch functionality ON = lock position, (ON) = momentary position and OFF = no connection.

6) DIODE ISOLATION:

N – NONE

7) SPECIAL OPERATIONS:

0 – STANDARD OPERATION (TX SW only keys the TX line, ICS SW only keys the ICS line)

1 – KEY ICS WHEN TRANSMITTING (When keying the TX sw., the ICS will key as well)

2 – MOM=ICS KEY LOC=VOX (Rocker switch MOM position activates the output key line and activates the Mic. The LOC position activates the Mic only. Works only with interrupted mic system, step 9)

8) VOL CONT:

Y – YES, INSTALLED
N – NO, NOT INSTALLED

9) MIC:

1 – HOT MIC (Mic circuit live. e.g., needed for VOX operation)
2 – INTERUPT MIC (Open mic circuit until TX or ICS switch is activated)

10) CORD:

CS – CURLY CORD SHORT (1.5FT EXTENDS TO 6FT)
CL – CURLY CORD LONG (3FT EXTENDS TO 15FT)
S – STRAIGHT CORD FOLLOWED BY TWO DIGITS INDICATING LENGTH IN FEET

SHOULD THE CUSTOMER HAVE ANY QUESTIONS ABOUT CONFIGURATION OPTIONS PLEASE CONTACT AAL AVIONICS DEPT.