

DUAL PUSH-TO-TALK MICROPHONE

MODEL TMN6128A

1. DESCRIPTION

This mobile microphone is a palm-type unit housed in a high-impact plastic case with a transistorized preamplifier which is an integral part of the cartridge. It also includes a dual built-in push-to-talk switch and a tinsel-coiled cord which has a four-circuit connector with a molded-on vinyl sleeve. See Figure 1 for schematic details.

The microphone push-to-talk switch may be used to select one of two functions by means of logic circuits in the radio control unit. The microphone dual push-to-talk button "up" causes the BLK and WHT leads to be connected together by the S1 momentary spdt switch. Pushing the microphone dual push-to-talk button "down" causes the BLK and GRN leads to be con-

nected together by the S1 momentary spdt switch. The RED lead supplies B+ to the microphone preamplifier.

The cartridge incorporated in this microphone provides fidelity inherently greater than that of carbon microphones. Superior voice quality is retained by amplifying the voice signals in the transistorized preamplifier before these signals become subject to the influence of noise due to stray electrical fields. This results in a high signal-to-noise ratio and high output. The preamplifier derives its operating power from the standard microphone voltage supplied by the associated Motorola radio equipment. The nominal output of this microphone with preamplifier is the same as that of carbon microphones.

The microphone kit also includes a microphone hang-up clip with a positive detect action and the necessary hardware to mount it to any flat surface.

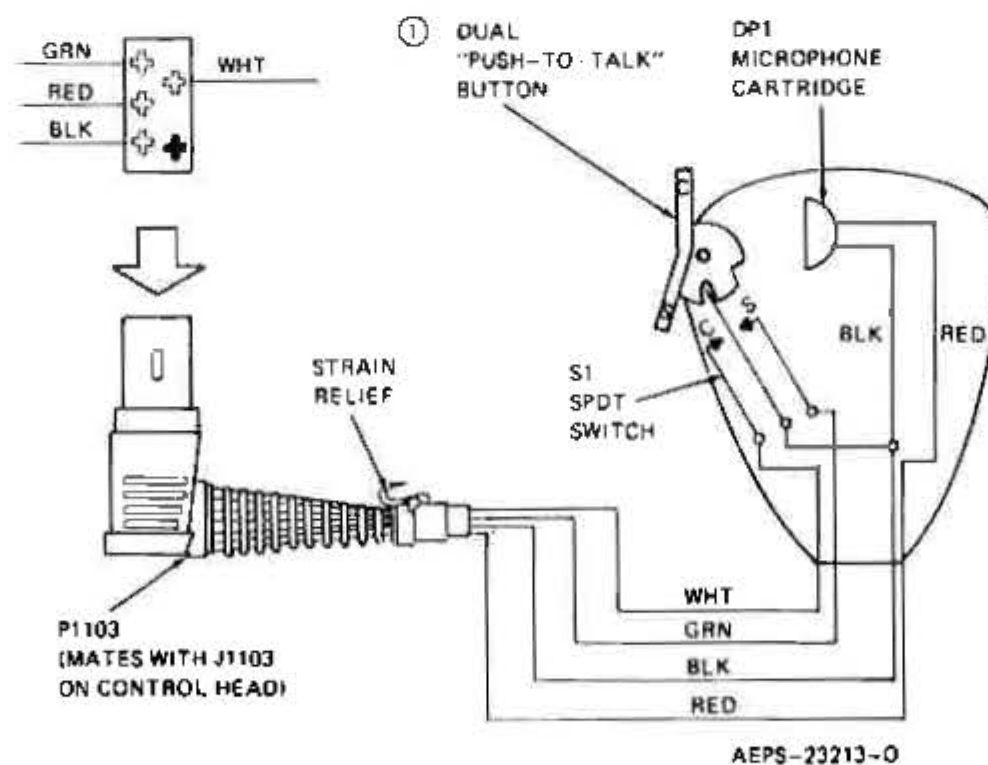


Figure 1. Schematic Diagram of Dual Push-To-Talk Microphone

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2. PARTS LIST

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
TMN6128A Microphone		PL-5269-A
DPI	59D82933C01	<u>CARTRIDGE, microphone:</u> dynamic; includes transistor preamplifier
PI		<u>CONNECTOR, plug:</u> part of W1
W1	01-84135C02	<u>CORD, microphone: coiled</u> 4-conductor; includes ref. part PI, CLAMP, cable "S" hook (ref. part 13), SPRING, strain relief (ref. part 12), and non-ref. LUG (4 req'd) 29B83277G02
I	38C83193L01	PUSHBUTTON for S1
S1	40C83214L01	<u>SWITCH, push:</u> momentary spdt
NON-REFERENCED ITEMS		
	29B83277G02	LUG, insulation piercing: 4 req'd. (p/o W1)
	33B82599D01	NAMEPLATE
	13B84599B01	EMBLEM
	3S132436	SCREW, machine: No. 6-32 x 13/16"; 3 req'd. for rear housing
	4S7669	WASHER, lock: No. 6 split; 3 req'd.
	4S114201	WASHER, flat: 1/4" x 0.156" x 0.015"; 3 req'd.
	3S122830	SCREW, tapping: No. 8 x 1/2"; 2 req'd. for hangup bracket
	1V851094	BRACKET & SPRING ASSY. (eyeleted)
	1V80709B93	HOUSING, microphone (rear)
	3S129498	SCREW, lock: No. 6-32 x 5/16" "Phillips" round head for S1
	4S7666	LOCKWASHER: No. 6 external
	42A852710	STRAP, strain relief
	3S124693	SCREW, lock: No. 6-32 x 1/4" "Phillips" round head 2 req'd. for strain relief
	41A852707	SPRING, strain relief (p/o W1)
	42A893647	CLAMP, cable "S" hook (p/o W1)
	15D82701B12	COVER, microphone (front)
	42B82702B02	RETAINER, cartridge
	32A82703B01	GASKET, neoprene
	11S2506	TUBING, No. 9 black; 5' length req'd.