

INSTRUCTION MANUAL FOR

SCANNING UNIT

MODEL 445A

KIKUSUI ELECTRONICS CORPORATION

KAWASAKI, JAPAN

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1. GENERAL

The Kikusui Model 445A Scanning Unit is used in conjunction with a Kikusui Model 426A Spot Oscillator. Its circuits are constructed with solid-state components and IC's, attaining a high reliability.

The 445A enables remote control of manual operation or scanning operation of the 426A. The scanning rate is adjustable for a range of approximately 2 - 15 sec.

The connection between 445A and 426A is made with an accessory cable which has a DIN 5-pin plug at each end.

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## 2. SPECIFICATION

Power requirements: +5 V, approx. 130 mA  
(supplied from 426A Spot Oscillator)

Weight: Approx. 0.55 kg

Dimensions: 150 (W) x 100 (H) x 65 (D) mm

(Maximum dimensions): 155 (W) x 105 (H) x 75 (D) mm

Ambient temperature: 5 °C to 35 °C

Ambient humidity: 85% RH max.

MANUAL operation: As one of A, B, C, D, E buttons is depressed, the 426A is set at the corresponding range.

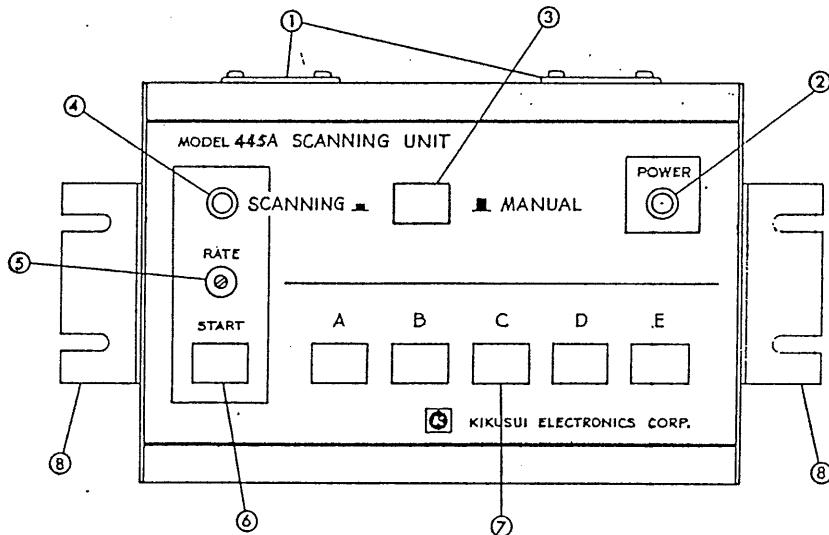
SCANNING operation: As the START switch is depressed, the ranges of the 426A is scanned in the order of A → B → C → D → E at time intervals of approximately 2 - 15 sec.

Connection with 426A: With an accessory cable which has DIN 5-pin plug at each end.

Accessories: Cord with DIN 5-pin plugs ..... 1  
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### 3. OPERATION METHOD

#### 3.1 DESCRIPTION AND OPERATION PROCEDURE OF FRONT PANEL ITEMS



##### (1) DIN sockets:

These are DIN 5-pin sockets for connecting the 426A Spot Oscillator with the accessory cord which have DIN 5-pin plugs. Two of the five pins are for the +5 V supply and the remaining three pins are for BCD coded signal transmitted to the 426A for A, B, C, D, E frequency range selection. The two sockets are connected parallel inside the scanning unit and either one of the two sockets can be used.

- (2) POWER: When the 445A is connected to the 426A with the accessory DIN cord and the POWER switch of the 426A is turned on, the power for the 445A is supplied and the green LED (light emitting diode) of the 445A is turned on.
- (3) MANUAL/SCANNING For switching between MANUAL and SCANNING SELECTOR switch: operations. The unlocked state of the switch is for the MANUAL mode and the locked state is for the SCANNING mode.
- When in the MANUAL mode, the required range of the 426A can be selected by depressing the corresponding one of the A, B, C, D, E buttons of the 445A.
- When in the SCANNING mode, the frequency ranges of the 426A are automatically scanned in the order of A → B → C → D → E → A as the START switch (6) is depressed.
- (4) SCANNING lamp: When the MANUAL/SCANNING SELECTOR is set in the SCANNING state and the START switch is depressed, the ranges are scanned at the preset intervals and the SCANNING lamp lights.
- (5) RATE: This potentiometer is for adjustment of automatic scanning rate, for a range of approximately 2 - 15 sec.
- (6) START switch: For starting the automatic range scanning.

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- (7) FREQUENCY RANGE      For selection of frequency range  
SELECTOR buttons: (A - E) of the 426A when the  
MANUAL/SCANNING switch is set in the  
MANUAL position.
- (8) Mounting                For installation of the 445A, either  
brackets:                    vertically or at a slanted angle.
- \* To gain access to the internal chassis for inspection,  
remove the 2 screws at both sides of the case and the  
4 rubber studs at the bottom.

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