Operation Manual

Trans-Flo

KINO FLO

LIGHTING SYSTEMS

Trans-Flo System Features

The **TRANS-FLO SYSTEM** is a standard-output ballast that can be dimmed on most common theatrical SCR dimming systems. The modular design of the TRANS-FLO SYSTEM streamlines set lighting installations, and its smooth dimming capability ensures controlled lighting effects.

The TRANS-FLO Ballast can operate 15-inch, 2ft, 3ft and 4ft lamps in pairs; two different sized lamps can be powered from the same ballast. (Two lamps must be connected for the ballast to operate.)

The POWER/DIM Cable provides primary voltage and dimming control to the first TRANS-FLO Ballast. The Single Locking Lamp Harnesses attach directly to each ballast, or they attach to a ballast via a Head Extension (up to 25ft long).

Jumper Cables link TRANS-FLO Ballasts together (up to 10 in a series).

The TRANS-FLO SYSTEM operates in three modes:

1. **INDIVIDUAL BALLAST DIMMING MODE** (two lamps)
2. **SERIES BALLAST DIMMING MODE** (up to 10 ballasts per series)
3. **NON-DIM MODE**

Individual Ballast Dimming Mode

To operate, the **TRANS-FLO SYSTEM** in the Individual Ballast Dimming Mode you need a minimum of:

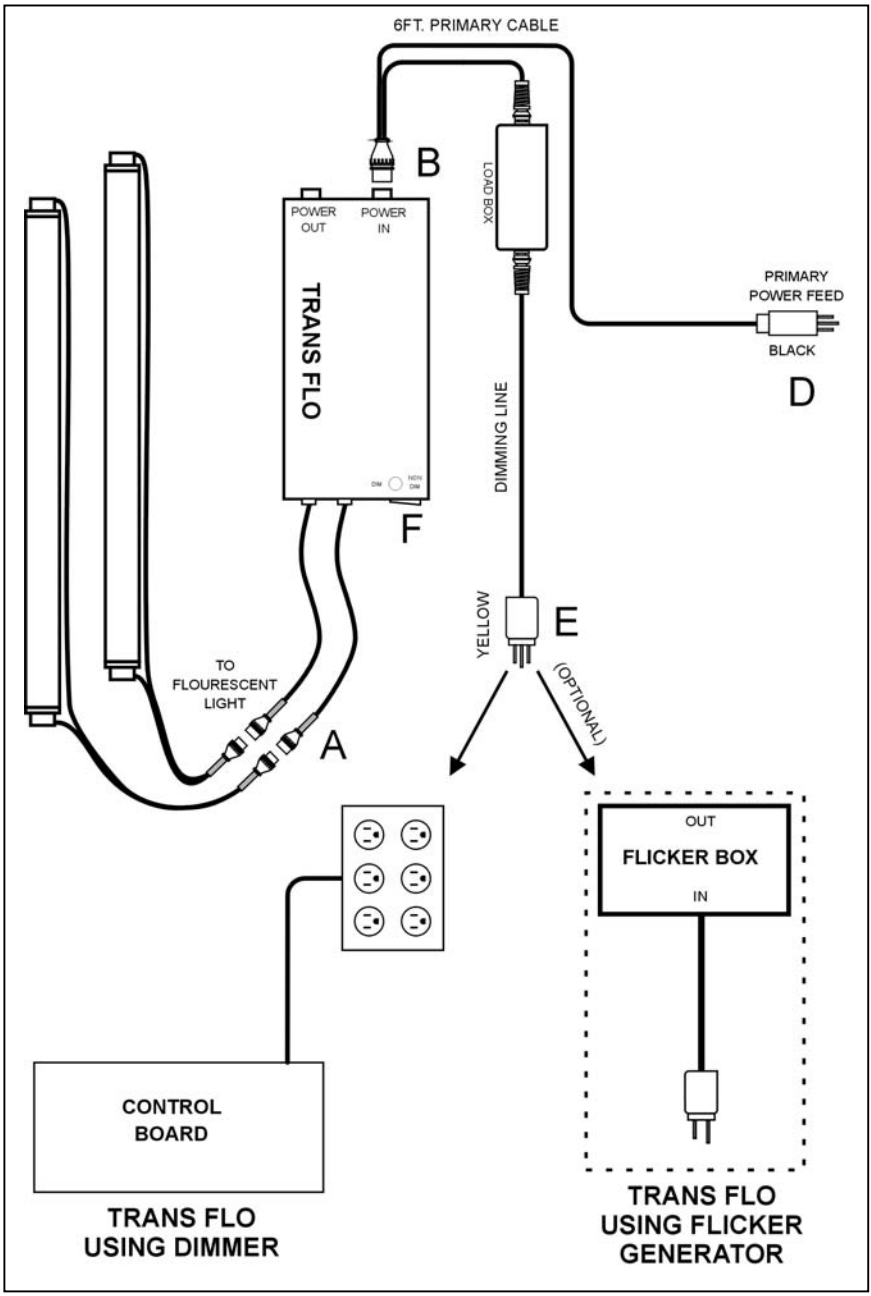
TRANS-FLO Power & Dim Cable, 6ft.
Primary power feed line and dimming line (both with Edison connectors). One cable per ballast is needed for individual dimming control.

TRANS FLO Two-Lamp Ballast, 120 VAC
A standard-output, flicker-free electronic dimming ballast. Operates two 15-inch, 2ft, 3ft or 4ft lamps.

Lamp w/ Harness (need two per Ballast)

15-inch Med Bipin
2ft Med Bipin
3ft Med Bipin
4ft Med Bipin

Individual Ballast Dimming Mode Assembly



Individual Ballast Dimming Mode Operation

(A) Attach each **TRANS-FLO** circular connector tail to a locking lamps harness, or single head extension, making sure to rotate the locking ring until it "clicks" into its locked position. Securely connect both ends to the harness on the lamp before turning on the power. Each Trans-Flo Ballast **MUST** have two lamps connected to operate.

A ballast can operate any two sizes of lamps at the same time. For example, a 15inch lamp can be paired with a 4ft lamp.

(B) With the ballast power switched off, attach the Power /Dim Cable to the "POWER IN" port of the ballast.

(D) Connect the Primary Power Feed (black) 3-pin U ground Edison plug to a **120 Volt AC non-dimming circuit.**

(E) Connect the Dimming Line (Yellow) U ground Edison plug to a **theatrical SCR dimmer circuit.**

CAUTION: The Primary Power Feed and the Dimming Line must share a common neutral in order to dim. Failure to do so may result in an electrical short circuit.

One way to ensure a common neutral is to dedicate a number of non-dimming circuits on a dimmer rack and then feed the Dimming Line to the appropriate dimming circuits on the **same rack**.

(F) Once the Power/Dim Cable is properly circuited, set the ballast power switch to "DIM". With 120 Volts AC applied on the Primary Power Feed and with the dimmer up full on the Dimming Line circuit: the ballast will illuminate the lamps and respond to the dimmer settings.

Note: To check whether the Primary Power Feed circuit is hot, set the power selector switch to "NON-DIM". If there is 120 VAC on the Primary Power Feed circuit, the ballast will strike the lamps even if the Dimming Line circuit has no signal.

Dimming Performance
Best dimming performance is achieved by connecting harnesses directly to the ballast. When adding Head Extension Cables, add the same length cable to **BOTH** lamps. Otherwise the lamp with the longer cable will fade out ahead of the lamp with the short cable.

Series Ballast Dimming Mode

To operate, the **TRANS-FLO SYSTEM** in the Series Ballast Dimming Mode you need a minimum of:

TRANS-FLO Power & Dim Cable, 6ft.
Primary power feed line and dimming line (both with Edison connectors). One cable is needed for the first ballast in a series.

TRANS FLO Two-Lamp Ballast, 120 VAC
A standard-output, flicker-free electronic dimming ballast. Operates two 15-inch, 2ft, 3ft or 4ft lamps.

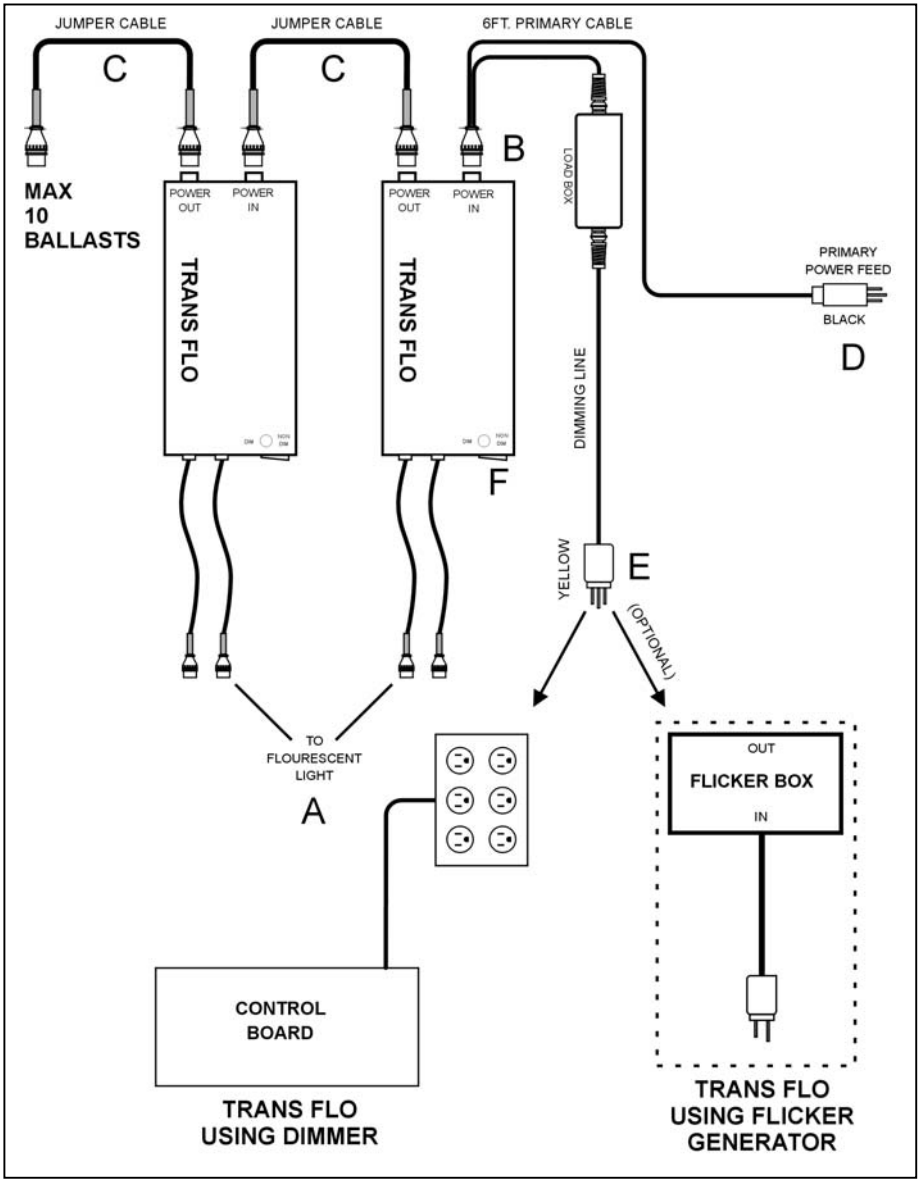
Lamp w/ Harness (need two per Ballast)

15-inch Med Bipin
2ft Med Bipin
3ft Med Bipin
4ft Med Bipin

TRANS-FLO Jumper, 10ft & 2ft

To jumper primary voltage from one ballast to the next.

Series Ballast Dimming Mode Assembly



Dimming Performance

Best dimming performance is achieved by connecting harnesses directly to the ballast. When adding Head Extension Cables, add the same length cable to **ALL** lamps in a series. Otherwise the lamps with the longer cable will fade out ahead of the lamps with the short cable.

Series Ballast Dimming Mode Operation

A maximum of 10 TRANS-FLO Ballasts can be connected on one Primary Power Feed Cable.

A) Attach each **TRANS-FLO** circular connector tail to a locking lamps harness, or single head extension, making sure to rotate the locking ring until it " clicks" into its locked position. Securely connect both ends to the harness on the lamp before turning on the power. Each Trans-Flo Ballast **MUST** have two lamps connected to operate.

A ballast can operate any two sizes of lamps at the same time. For example, a 15inch lamp can be paired with a 4ft lamp.

B) With the ballast power switched off, attach the Power /Dim Cable to the "POWER IN" port of the first ballast in the series.

C) Connect a 10ft or 2ft Jumper Cable from the "Power Out" port on the first ballast in the circuit to the "Power In" port of the next ballast. A maximum of ten ballasts, in series, can be connected in this manner.

Jumper Couplers are required to connect two or more Jumper Cables (see Accessories)

D) Connect the Primary Power Feed (black) 3-pin U ground Edison plug to a **120 Volt AC non-dimming circuit**.

E) Connect the Dimming Line (Yellow) U ground Edison plug to a **theatrical SCR dimmer circuit.**

CAUTION: The Primary Power Feed and the Dimming Line must share a common neutral in order to dim. Failure to do so may result in an electrical short circuit.

One way to ensure a common neutral is to dedicate a number of non-dimming circuits on a dimmer rack and then feed the Dimming Line to the appropriate dimming circuits on the **same rack**.

F) Once the Power/Dim Cable is properly circuited, set the power switch to "DIM" on all the ballasts in the series. With 120 Volts AC applied on the Primary Power Feed and with the dimmer up full on the Dimming Line circuit: the ballasts will illuminate the lamps and respond to the dimmer settings.

Note: To check whether the Primary Power Feed circuit is hot, set the power selector switch to "NON-DIM". If there is 120 VAC on the Primary Power Feed circuit, the ballast will strike the lamps even if the Dimming Line circuit has no signal.

Non-Dimming Ballast Operation

A) Attach each **TRANS-FLO** circular connector tail to a locking lamps harness, or single head extension, making sure to rotate the locking ring until it " clicks" into its locked position. Securely connect both ends to the harness on the lamp before turning on the power.

B) With the ballast power switched off, attach the Power /Dim Cable to the "POWER IN" port of the first ballast in the series.

D) Connect the Primary Power Feed (black) 3-pin U ground Edison plug to a **120 Volt AC non-dimming circuit**. You do NOT connect the Dimming Line (**D**)to a dimmer circuit.

F) Switching the ballast to "NON-DIM" will turn on the lamps.

Accessories

X04-25 SINGLE Head Extension, 25ft
X04-12 SINGLE Head Extension, 12 ft

Black, 4-pin male to female. Connects Trans-Flo Ballast to Single Locking Harness. Maximum of 25ft from Ballast to lamp for full dimming range control.

HAR-4801 4ft SINGLE Locking Harness
HAR-3601 3ft SINGLE Locking Harness
HAR-2401 2ft SINGLE Locking Harness
HAR-1501 15" SINGLE Locking Harness

PWC-C TRANS-FLO Jumper Coupler
To combine jumpers if more than 10 ft are required between ballasts.

EXP-M&T Mounts & Ties Set, 25pk

Releasable cable ties and one-inch square adhesive mounts. Recommended two Sets per lamp.

EXP-HLC-T12 Lamp Holder Clip/T12, 24pk

Metal Clips to hold T12 (1 ½" diameter) lamps on ceilings, walls and set pieces.
Recommended two Clips per lamp.

Electrical Specifications

Operating Voltage: 120 Volts AC
Operating Frequency: 25 KHz
Amperage: .70
Lamp Current: 420 ma
Lamp Operation: Two Lamps, Any Combination of 15-inch, 2ft, 3ft or 4ft
Dimming Range: Full Range to Black
Weight: 3.1lb / 1.4Kg
Dimensions: 13" x 4.5" x 2"
33cm x 11.5cm x 5cm

Environmental: Disposal of Old Electrical & Electronic Equipment.

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. This product is made of recyclable materials and should be disposed of in accordance with local and state regulations.

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Kino Flo, Inc. 2840 N. Hollywood Way, Burbank, CA 91505, USA
Tel: 818 767-6528 website: **www.kinoflo.com**