



a Siebe company

### Application:

Installation of the Barber-Colman 1/2 ft-lb Linear Governor on a Ford 4.9 liter (300 cid) engine.

### Description:

The governor mounting bracket is attached to the intake manifold between the carburetor and the manifold and secured with the carburetor attaching nuts.

This governor installation is intended to control either Zenith gasoline or Impco gaseous type carburetors. The actuator is to be connected to hold the throttle lever in the closed position when power is removed from the system.

### Enclosures:

- Instructions
- Parts List
- Layout Drawing

#### NOTE

Barber-Colman believes that all information provided herein is correct and reliable and reserves the right to update at any time. Barber-Colman does not assume any responsibility for its use unless otherwise expressly undertaken.

#### CAUTION

As a safety measure, the engine should be equipped with an independent overspeed shutdown device in the event of failure which may render the governor inoperative.

## Barber-Colman Company

AEROSPACE & POWER CONTROLS DIVISION  
DYNA Product Group

1354 Clifford Avenue | Phone: (815) 637-3000  
P.O. Box 2940 |  
Loves Park, IL U.S.A. 61132-2940 | Fax: (815) 877-0150

In Europe contact: Barber-Colman GmbH  
Am neuen Rheinhafen 4, D-8720 Speyer, West Germany  
Tel: 06232-1203, Fax: 06232-12155

In Japan contact: Ranco Japan Ltd.  
Shiozaki Bldg.7-1, 2-chome, Hirakawa-Cho, Chiyoda-Ku, Tokyo 102, Japan  
Tel: 3261-4293, Fax: 3264-4691



a Siebe company

Application: Installation of the Barber-Colman 1/2 ft-lb linear governor on a Ford 4.9 liter (300 cid) engine. The governor mounting bracket is attached to the intake manifold between the carburetor and the manifold and secured with the carburetor attaching nuts.

***Read all instructions and review the layout drawing  
before attempting this installation.***

A. Instructions

1. Disconnect the batteries.
2. Remove and discard any linkage attached to the carburetor's throttle lever.
3. Remove the carburetor from the intake manifold and temporarily set it aside to a clean area.

B. Actuator Installation

1. Obtain from the parts kit one actuator — Item 1, one actuator mounting bracket — Item 3, two 3/8"-24 nuts and lock washers — Items 4 & 5, four 1/4"-28x7/8" actuator mounting screws — Item 6, and four 1/4"-28 nuts and lock washers — Items 7 and 8.
2. Place a new carburetor mounting gasket onto the intake manifold. Place the actuator mounting bracket over the intake manifold carburetor mounting studs with the actuator mounting surface toward the fan as shown in the layout drawing. Install another carburetor mounting gasket and reinstall the carburetor securing it with two 3/8"-24 nuts and lock washers — Items 4 and 5.
3. Position the actuator onto the mounting bracket as shown in the layout drawing. Secure the actuator to the bracket using four 1/4"-28x7/8" screws, lock washers and nuts — Items 6, 7 and 8.

C. Throttle Linkage Installation

1. Remove the existing throttle lever from the carburetor. Measure a 1" radius from the center of the throttle shaft hole to a location on the lever. Drill a 7/32" hole at this location and reinstall the lever to the throttle shaft in a vertical position while holding the throttle plate in the closed position.



a Siebe company

BULLETIN NO. 242  
Page 2 of 4

2. Obtain from the parts kit one actuator clevis — Item 9, two rod end bearings — Item 10, one threaded rod — Item 11, four 10-32x1" screws, lock washers and nuts — Items 12, 13 and 14, and one 10-32 flat washer — Item 15.
3. Attach the actuator clevis — Item 9, onto the actuator shaft by turning the clevis six (6) complete turns, and torque the M6 jam nut into the clevis to 65 in./lbs.
4. Assemble the throttle linkage by placing one 10-32 nut — Item 12, and rod end bearing — Item 10, onto each end of the threaded rod — Item 11.
5. Secure one rod end bearing into the actuator clevis with one 10-32x1" screw, lock washer and nut — Items 12, 13 and 14.
6. Rotate the carburetor throttle lever to the closed position. This will place the throttle lever in the vertical plane. (Refer to the layout drawing for a visual reference.)

Adjust the length of the linkage by turning the rod end bearing and align the rod end bearing to the hole at a 1" radius in the throttle lever. Place a 10-32 flat washer — Item 15, between the throttle lever and the rod end bearing and secure this arrangement with one 10-32x1" screw, lock washer and nut — Items 12, 13 and 14.

Uncontrolled Document  
For Historical Reference Only



a Siebe company

Table 1. Governor Assembly  
Specify voltage when ordering Items 1 and 2.

Item	Description	Barber-Colman Part Number	Qty.
1	Governor Actuator	DYNC-10502	1
2	Control	DYN1-10850	1

Table 2. Installation Kit  
Barber-Colman Part Number DYNK-10348

Item	Description	Barber-Colman Part Number	Qty.
3	Actuator mounting bracket	DYNK-102-17	1
4	3/8 - 24 Nuts	DYRF-296	2
5	3/8 Lock Washer	DYNZ-152	2
6	Actuator Mounting Screws 1/4 - 28 x 7/8"	BYRF-1460	4
7	1/4" - 28 Nut	DYRF-293	4
8	1/4" Lock washer	CYRD-558	4
9	Linkage Clevis	DYNK-218-2	1
10	Rod End Bearing 10 - 32	AKKH-175	2
11	Threaded Rod 10 - 32 x 2"	DYNK-31-12	1
12	10-32 Nut	DYRF-554	4
13	10-32 x 1" Screw	BYRF-1437	2
14	#10 Lock Washer	CYRD-198	2
15	#10 Flat Washer	CYRD-23	1

Table 3. Optional Control Components.

Item	Description	Barber-Colman Part Number	Qty.
16	*Controller — Analog with remote speed	DYN1-1075X	1
17	*Controller — Analog without remote speed	DYN1-1072X	1
18	Magnetic Pickup	DYNT-17200	1
19	Remote Speed Potentiometer	DYNS-10000	1

\* These controllers require Item 18 — Magnetic pickup  
"X" Specify operating frequency

### Layout Drawing

