

FIG. 7-Overrunning Clutch

accomplished inside the overdrive unit when the shift rail moves the sun gear into engagement with the lockup teeth on the planet carrier (Fig. 6).

When the sun gear is locked to the planet carrier, the planetary gearing is locked into one mechanical unit: the transmission output shaft is locked to the overdrive main shaft. This lock-up is necessary in reverse because the transmission output shaft reverses its rotation and therefore cannot drive the overdrive main shaft through the freewheel unit. The lock-up in reverse is accomplished by the low and reverse position. This locked-up drive is also necessary when the vehicle is pushed to start the engine, since the free-wheel unit will not transmit power from the overdrive main shaft to the transmission output shaft.

ELECTRICAL SYSTEM OPERATION

The electrical system which controls the automatic operation of the overdrive consists of a relay, a manual kickdown switch, a solenoid, a centrifugal governor, and the circuit wiring.

The electrical system does 2 things: it pushes the pawl in for overdrive and pulls it out for direct drive.

There are 3 separate circuits (Fig. 3) in the electrical system: a governor circuit which opens and closes the relay, a solenoid circuit which supplies current through the relay to energize the solenoid, and an ignition interrupter circuit, which momentarily grounds the engine ignition for full-throttle downshift (kiekdown).

Pawl Engagement

The electrical system does not operate until vehicle speed reaches about 28 mph. At this speed, the governor contacts close, permitting current to flow from the battery through the relay to the solenoid. There are two coils in the solenoid, usually referred to as the "pull-in" and "hold-in" coils. The pull-in coil is energized only while the solenoid plunger is being pulled in. As soon as the plunger is in, a set of points inside the solenoid opens the pull-in circuit, and the engaging spring and the return spring are compressed. Under pressure from the pawl engaging spring, the pawl is pushed in until it strikes the bulk ring.

The usual position of the balk ring when the solenoid engaging spring pushes the pawl against it is shown in Fig. 8. When the transmission output shaft is driving the overdrive main shaft through the free-wheel unit, all elements of the planetary gearing are revolving as a unit, and in a counter-clockwise (from the rear) direction. Thus, the balk ring is rotated against the pawl.

When the driver releases the throttle, the overdrive main shaft overruns the transmission output shaft. When this overrun exceeds the ratio of 1.0-0.70, the sun gear and balk ring are reversed, releasing the pawl to engage the balk ring gear (Fig. 8).

The position of the balk ring, should the solenoid be energized when the vehicle is coasting (engine idling) up through 28 mph, is shown in Fig. 8. Under this condition the sun gear will be rotating clockwise (from the rear) and the pawl will be blocked.

The pawl engages when the engine speeds up, and brings the transmission output shaft up through the 0.70:1 ratio with the overdrive main shaft. This action will cause the sun gear to reverse its clockwise (from the rear) rotation, and release the pawl to engage the balk ring (Fig. 8).

Pawl Disengagement

The pawl disengages under two conditions. First, when the vehicle speed drops below about 22 mph, the governor opens the circuit through the relay and de-energizes the solonoid, permitting the return spring to pull out the pawl. Second, the driver may shift the overdrive back to direct drive at any road speed, by pressing the accelerator pedal to the floor so that it depresses the kickdown switch stem. When this stem is depressed, the kickdown switch opens the governor circuit through the relay, and de-energizes the solenoid, permitting the return spring to try to pull out the pawl. Also, the interrupter circuit is closed so that the ignition is grounded through the ignition grounding contacts of the solenoid long enough for the return spring to pull out this garwil.

Normal ignition is restored as soon as the pawl comes out and the solenoid stem opens the ignition grounding contacts. The actual time of ignition interruption is equal to that required for one revolution of the crank shaft.







EULIUM ENGAGED

FIG. 8—Balk Ring and Pawl Operation

Ford Manual Transmission History

Yicheng Fang

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Glorious Bird: A Journey Through the History of Ford's Thunderbird Pasquale De Marco, 2025-04-26 From its humble beginnings as a two seater sports car to its status as an American icon the Ford Thunderbird is a vehicle that has captured the hearts and imaginations of car enthusiasts for generations This comprehensive and engaging book takes readers on a journey through the Thunderbird's rich history exploring its technical innovations its impact on popular culture and the passionate community of Thunderbird owners who keep the legend alive today With its sleek design powerful engine and luxurious interior the Thunderbird was the epitome of American automotive excellence Over the years it underwent several transformations from a personal luxury coupe to a modern sports car but it never lost its essential character The Thunderbird was more than just a car it was a symbol of freedom adventure and the American dream In this book readers will delve into the Thunderbird's mechanical marvels from the early days of the Y block V8 engine to the advanced engineering of the modern Thunderbird They ll also examine the Thunderbird's role in shaping American automotive history from its influence on other Ford models to its contributions to the muscle car era Beyond its technical prowess the Thunderbird was also a cultural phenomenon This book explores the Thunderbird's appearances in film television and music and examines its status as a symbol of the American dream Readers will also meet some of the passionate Thunderbird owners who have dedicated their lives to preserving and celebrating this iconic vehicle Whether you re a lifelong Thunderbird enthusiast or simply a fan of classic cars this book is the ultimate guide to the Ford Thunderbird With its wealth of information stunning photography and engaging storytelling this book is a must have for any automotive enthusiast If you like this book write a review on google books Cobra let: The History of Ford's Greatest High-Performance Muscle Cars Rob Kinnan, Diego Rosenberg, 2020-03-15 Relive Ford's glory days in the muscle car era in this stunning new volume covering the popular and powerful Cobra Jets Ford s Total Performance racing program in the early 1960s was the first stone turned in the task of repurposing its image to the youth market The introduction of the Mustang increased that exponentially but even in 289 Hi Po form it was no match for the Pontiac GTO or other muscle cars Neither was the 1966 Fairlane GT or subsequent 390 Mustang the following year But when the 428 Cobra Jet Mustang debuted at Pomona for the NHRA Winternationals in 1968 that image evolved from wholesome to fearsome Cobra Jet Mustangs downed all comers and took the vaunted Super Stock Eliminator crown while introducing a new weapon under the hood to serve as fair warning to what was to be uncoiled at the stoplight By the next model year with the revolutionary shaker hood on Cobra Jet equipped Mach Is and the striking snake adorning the sheet metal of the midsize Cobra Ford s image makeover was complete The demise of the muscle car era didn t signify the end of the Cobra Jet as Ford continued the performance reign with the 351 Cobra Jet The legacy left by Mustang Cougar Torino Cyclone and Ranchero 428 429 and 351 Cobra Jet powered vehicles is indelible Mustang Monthly editor Rob Kinnan and muscle car expert Diego Rosenberg bring this history back to life in an all encompassing book that is the first to

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