

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 free-wheel 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 (kickdown).

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 balk 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 solenoid, 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 the pawl.

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 crankshaft.

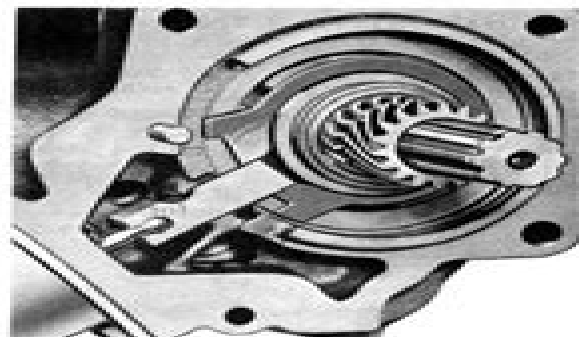
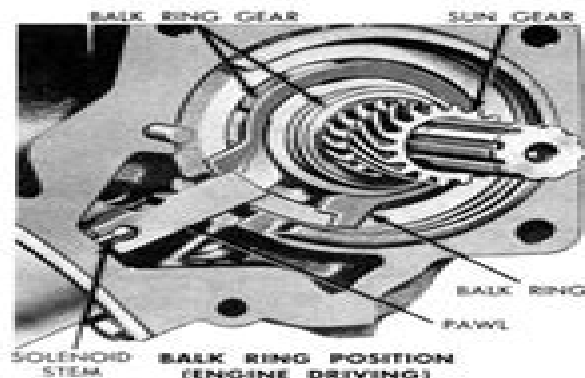


FIG. 8—Balk Ring and Pawl Operation

Ford Manual Transmission History

A Loxley



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A Brief History of Motion Tom Standage, 2021-08-17 From the bestselling author of *A History of the World in 6 Glasses* an eye opening road trip through 5 500 years of humans on the go revealing how transportation inevitably shapes civilization Hailed for their colorful smooth and wonderfully engaging writing Smithsonian Tom Standage's fleet footed and surprising global histories have delighted readers and cemented his reputation as one of our leading interpreters of technologies past and present Now he returns with a provocative account of a sometimes overlooked form of technology personal transportation and explores how it has shaped societies and cultures over millennia Beginning around 3 500 BCE with the wheel a device that didn't catch on until a couple thousand years after its invention Standage zips through the eras of horsepower trains and bicycles revealing how each successive mode of transit embedded itself in the world we live in from the geography of our cities to our experience of time to our notions of gender Then delving into the history of the automobile's development Standage explores the social resistance to cars and the upheaval that their widespread adoption required Cars changed how the world was administered laid out and policed how it looked sounded and smelled and not always in the ways we might have preferred Today after the explosive growth of ride sharing and years of breathless predictions about autonomous vehicles the social transformations spurred by coronavirus and overshadowed by climate change create a unique opportunity to critically reexamine our relationship to the car With *A Brief History of Motion* Standage overturns myths and invites us to look at our past with fresh eyes so we can create the future we want to see

The Illustrated History of the Rat Rod Steve Thaemert, Jr., Rick Loxton, 2015-11-10 Defined by author and Rat Rod Magazine editor Steve Thaemert Jr as the blue collar hot rod a the term rat rod refers to a custom car built with creativity ingenuity and individuality Less of a classic car replica and more of an expression of the builder's personality rat rodding encompasses not just the vehicles but also the scene and the lifestyle

ignited by this automotive hobby that's catching on like wildfire By the editor and senior writer of Rat Rod Magazine the comprehensive publication for all things rat rod The Illustrated History of Rat Rod takes you inside the culture to explore the beginnings evolution and rising popularity of the hobby INSIDE THE ILLUSTRATED HISTORY OF RAT ROD The beginnings of the rat rod scene and early enthusiasts A look at the hot rods that spawned the rat rod hobby and how the term rat rod was coined Rat Rod Magazine and its importance in defining and documenting the hobby as well as other media exposure that helped bring rat rodding into the public eye How rat rodding overcame opposition by detractors while gaining acceptance and supporters The annual Rat Rod Tour including event results and anecdotes from attendees The clothes attitudes music and styles that shape the rat rod culture A discussion of parts building techniques and safety practices typical of rat rodding A glossary of terminology unique to the rat rod hobby **Latino History Day by Day** Caryn E.

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One hundred years ago electric cars were the most popular automobiles in the world In the late nineteenth century and at the start of the twentieth century they outsold every other type of car And yet within a couple of decades of the start of the twentieth century the electric car had vanished Thousands of battery powered cars disappeared from the streets replaced by the internal combustion engine and their place in the history of the automobile was quietly erased A century later electric cars are making a comeback Fears over pollution and global warming have forced manufacturers to reconsider the electric concept A History of Electric Cars presents for the first time the full story of electric cars and their hybrid cousins It examines how and why electric cars failed the first time and why today's car manufacturers must learn the lessons of the past if they are to avoid repeating previous mistakes all over again The book examines in detail Early vehicles such as the Lohner Porsche petrol electric hybrid of 1901 Key figures in the history of the electric car development such as Henry Ford Sir Clive Sinclair's plans to build a number of electric vehicles designed to sit alongside the Sinclair C5 The return of the electric technology to vehicles as diverse as the NASA Lunar Rover commuting vehicles and supercars Future developments in

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