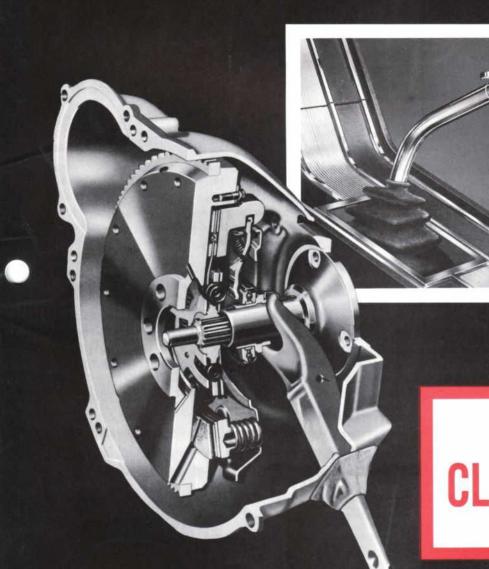
Shop Fig. 1966

FROM



VOL. 4, NO. 7

Technical parts and service information published by Ford Division to assist servicemen in Service Stations, Independent Garages and Fleets.



featuring... CLUTCH SERVICE

See Index Page 2

Be sure to file this and future bulletins for ready reference. If you have any suggestions for additional information that you would like to see included in this publication please write to: Ford Division of Ford Motor Company, Parts and Service Promotion and Training Dept., P. O. Box 598, Dearborn, Michigan 48121.



From Your Ford Dealer

SOUTHDALE FORD

6969 FRANCE AVE. SO. MINNEAPOLIS 10, MINN. 927-4533

CLUTCH SERVICE

IN THIS ISSUE

Clutch Service2-5
Cleaning and Inspection2
Adjustments4
Fairlane GT and GTA 4-V Carburetor6
Technical Service Briefs7
Muffler Application Guide8

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FORD MOTOR COMPANY, DEARBORN, MICHIGAN

Release bearing failures may also be caused by a bent release lever. Check for excessive wear on one side of the release bearing assmbly where the release lever contacts it.

Misalignment between the engine and transmission can also cause release bearing failure.

PRESSURE PLATE AND COVER

Inspect the surface of the pressure plate for burn marks, scoring or ridges. Generally, pressure plate resurfacing is not recommended. However, minor burn marks, scores or ridges may be removed if the flatness of the pressure plate is maintained. If the pressure plate is badly heatchecked or deeply scored, replace the pressure plate and cover assembly. Clean the pressure plate surfaces with a suitable solvent such as carbon tetrachloride, to be sure they are free of oil film, DO NOT USE CLEANERS WITH PETROLEUM BASE AND DO NOT IMMERSE THE PRESSURE PLATE IN THE SOLVENT.

All Ford cars use a centrifugal, single dry disc type clutch. The principal components are the clutch disc, pressure plate and release bearing. The clutch is operated by linkage which must be properly adjusted and free of any conditions which might cause binding or excessive force to apply. The transmission, pressure plate, housing, clutch disc, flywheel and crankshaft must be properly aligned to prevent slippage, vibrations and noise. Ordinarily, the clutch does not require periodic service unless one of the trouble symptoms in the Diagnosis Guide is encountered.

CLEANING AND INSPECTION

RELEASE BEARING

Wipe all oil and dirt off the release bearing. THE BEARING IS PRE-LUBRI-CATED AND SHOULD NOT BE CLEANED WITH SOLVENT.

Inspect the bearing retainer for loose spring clips and rivets.

Inspect the release bearing assembly for burrs which may cause the assembly to drag on the transmission bearing retainer. Any such burrs should be cleaned up with fine crocus cloth. If burrs are found, inspect the transmission input shaft bearing retainer for evidence of scoring. Scoring should be polished out with crocus cloth. Coat the bearing retainer with a thin film of lithium-base grease (Ford Part Number C1AZ-19590-B). Prior to release bearing installation, apply a light film of Lubriplate on both sides of the release lever fork where it contacts the release bearing hub and retaining springs, and to the release bearing surface that contacts the pressure plate fingers. Care must be taken to avoid contaminating the clutch disc with any lubricants as this will cause slippage, and chattering.

Check the release bearing for roughness or noise by holding the bearing inner race and rotating the outer race while applying pressure. If rough or noisy, replace the bearing.

Most release bearing failures are caused by improper clutch pedal adjustments. If the clutch linkage does not have enough free travel, the release bearing will constantly touch the release fingers and will spin whenever the engine is running.

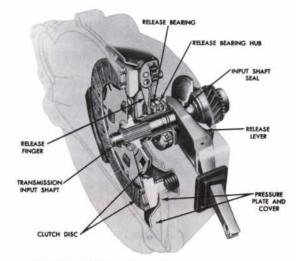


Figure 1-Clutch Assembly



CLUTCH SERVICE (Continued)

Lay the plate on the floor, being careful not to score or scratch the surface, and force each individual finger down, then release quickly. If the finger does not return quickly, a binding condition is indicated and the pressure plate should be replaced.

Lubricate the pressure plate with lithium-base grease between the driving lugs and the edges of the pressure plate openings as shown in Figure 2. Depress the pressure plate fingers fully, apply the lubricant, and then move the fingers up and down until the lubricant is worked in. DO NOT APPLY EXCESSIVE AMOUNTS OF LUBRICANT.



Figure 2-Pressure Plate Lubrication Points

DIAGNOSIS GUIDE-CLUTCH

TROUBLE SYMPTOMS	POSSIBLE CAUSES	1. Adjust clutch linkage. 2-3. Replace worn or defective parts. 1. Adjust over center spring and clutch total travel. 2. Install correctly. 3. Lubricate with engine oil or replace support bracket bushing if defective. 1. Clean and lubricate retainer with thin coat of Lithium base grease (no Polyethylene).			
LOSS OF OR EXCESSIVE CLUTCH PEDAL FREE PLAY AND/OR INADEQUATE RESERVE	Clutch linkage out of adjustment. Worn clutch disc. Bent or cracked equalizer bar.				
CLUTCH PEDAL HANG UP OR EXCESSIVE CLUTCH PEDAL EFFORT	CLUTCH 1. Incorrect assist spring over center adjustment. 2. Assist spring not positioned properly. 3. Binding at pedal support bracket, or equalizer rod at firewall. RELEASE BEARING 1. Lack of lube on transmission input shaft bearing retainer.				
CLUTCH NOISY WHEN PEDAL FREE TRAVEL IS TAKEN OUT, ENGINE RUNNING	Release bearing failure due to: A. Improper travel adjustment B. Bearing cocked on hub C. Release lever out of plane. D. Flywheel housing misalignment. E. Excessive crankshaft end play.	1. Correct release bearing. A. Adjust travel to specification. B. Install correctly. C. Check fulcrum plate and return spring. Install correctly. D. Align to specification. E. Repair to specifications.			
CLUTCH NOISY WITH ENGINE OFF	 Insufficient lubricant on assist spring seats. Clutch assist spring clunking. Binding at pedal support bracket or equalizer rod at fire wall. 	 Lubricant linkage and/or spring seats. Lubricant spring ends. Lubricate with engine oil or replace suppor bracket bushing if defective. 			
CLUTCH SLIPS OR CHATTERS	 Incorrect pedal free travel. Worn or contaminated clutch lining. Grease or oil on clutch facings from: A. Release bearing B. Engine C. Release lever D. Pilot bearing E. Transmission 	Adjust travel to specification. Replace defective parts. (If grease or oil is causing the clutch to slip, replace the disc Remove the grease or oil from the pressure plate and re-use if it is not burned or scored)			
THUD	Excessive engine crankshaft end play.	1. Repair to specification.			
CLUTCH PEDAL SCRUBBING—ENGINE OFF	Pedal push rod rubbing on firewall felt and insulator. Pedal shaft binding at support bracket. Lack of lube on transmission input shaft bearing retainer.	Lubricate and check clearance. Lubricate with engine oil or replace support bracket bushing if defective. Clean and lubricate retainer with a thin coat of Lithium base grease (no Polyethylene).			



CLUTCH SERVICE (Continued)

CLUTCH DISC

Inspect the clutch disc facings for oil or grease. ELIMINATE THE SOURCE OF ANY OIL OR GREASE BEFORE REPLACING THE DISC. An excessive amount of grease in the pilot bushing or release bearing hub will find its way to the disc facings. Too much lubricant in the transmission or a plugged transmission vent will force lubricant out the input shaft and onto the disc facings. Likewise, lubricant leaks from the rear of the engine will also find their way to the clutch disc facings.

Inspect the clutch disc for worn or loose facings. Check the disc for distortion and for loose rivets at the hub. Check for broken springs. Springs loose enough to rattle will not cause noise when the car is operating. Replace the disc assembly if any of these defects are present. BE ESPECIALLY CARE-FUL WHEN INSTALLING THE DISC NOT TO CON-TAMINATE IT WITH OIL OR GREASE.

PILOT BUSHING

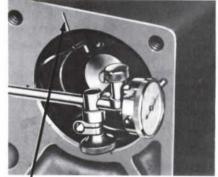
Check the fit of the clutch pilot bushing in the bore of the crankshaft. The bushing is pressed into the crankshaft and should not be loose. Inspect the inner surface of the bushing for wear or a bell-mouthed condition. If the bushing is worn or damaged, replace the bushing.

FLYWHEEL HOUSING ALIGNMENT

Alignment of the flywheel housing bore and rear face with the engine should be checked as a possible cause of any of the following: excessive transmission gear wear; transmission jumping out of gear especially third gear; drive line vibration; excessive pilot bushing wear; noisy release bearing; or excessive clutch spin time.

Maximum "face" runout is 0.009" and maximum "bore" runout is 0.015". (See Figure 3.) Not more than 0.010 inch thick-

ness shims may be used between the flywheel housing and the engine to bring the face and bore alignment within speccifications. If a 0.010 inch shim will not bring the face and







MAXIMUM FACE RUN OUT + 0.009 INCH

MAXIMUM NEGATIVE BORE RUN OUT 0.015 INCH

Figure 3-Flywheel Housing Alignment Check

bore alignment within specifications, replace the flywheel housing.

ADJUSTMENTS

CLUTCH PEDAL (Ford)

Adjust the clutch pedal free travel whenever the clutch does not disengage properly, or when new clutch parts are installed. Clutch free play (free travel) is the distance the clutch pedal pad travels from the top (released)position until the release bearing contacts the pressure plate fingers. At this point, a definite resistance can be felt. Improper adjustment of the clutch pedal is one of the most frequent causes of clutch failure and can be a contributing factor in some transmission failures. The over-center assist spring will not normally require adjustment and should not be disturbed; however, if the assist for clutch engagements or disengagements (pedal efforts) is not correct or pedal return action is erratic, an adjustment may be necessary. Also, if the linkage is removed or replaced, the adjustment should be checked.

Assist Spring

- 1. With the clutch pedal against its bumper (pedal released), measure the distance between the assist spring bracket and the equalizer upper lever. (Figure 4). The distance should be 0.136 inch. It may be necessary to depress the clutch pedal to insert the feeler gauge.
- 2. To decrease the gap, loosen the rearward nut and tighten the front nut.
- 3. To increase the gap, loosen the forward nut and tighten the rearward nut. NOTE: This adjustment will affect clutch free travel, however, do not use this adjustment to set free travel since this will result in an improper assist spring gap and will therefore harmfully affect pedal efforts.
- 4. After a gap of 0.136 inch has been established, tighten all nuts, being careful not to change the adjustment.
- 5. Remove the feeler gauge.

CLUTCH SERVICE (Continued)

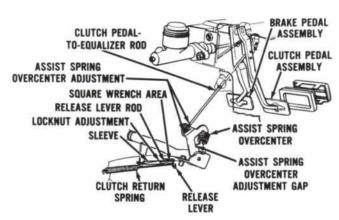


Figure 4-Ford Clutch Pedal and Linkage Adjustment

Free Travel

Check the free travel after adjusting the assist spring gap. Free travel should be 1 to 1¼ inches without the engine running. If necessary to adjust the free travel, adjust at the release lever pushrod location.

- Disconnect the clutch return spring from the release lever.
 Loosen the release lever rod locknut 3 or 4 turns.
- If there is no free travel, shorten the rod (by turning at the square wrench area) until it is free of the clutch release lever.
- Move the clutch release lever rearward until the release bearing lightly contacts the clutch pressure plate release fingers. Adjust the rod length until the rod just contacts its seat in the release lever.
- Adjust the locknut to obtain approximately 0.206 inch clearance between the nut and the rod sleeve end. Turn the rod at the square wrench area until the nut just contacts the rod sleeve end.
- Tighten the locknut against the sleeve while holding the rod with a wrench. Install the clutch return spring.
- 6. Check the clutch free travel without the engine running. It should be 1 to 1½ inches. As a final check, measure the free travel with the engine idling at about 3000 rpm. If the free travel is not a minimum of ½ inch, readjust the clutch pedal free travel. Otherwise, the release fingers may contact the release bearing continuously, resulting in premature bearing and clutch failure.

 Without disturbing the assist spring, lubricate each spring seat with grease. (Ford part number C1AZ-19590-B.)

CLUTCH PEDAL (Falcon, Fairlane & Mustang)

Adjust the clutch pedal free travel whenever the clutch does not disengage properly, or when new clutch parts are installed. Clutch free play (free travel) is the distance the clutch pedal pad travels from the top (released) position until the release bearing contacts the pressure plate fingers. At this point, a definite resistance can be felt.

- 1. Disconnect the clutch return spring from the release lever.
- 2. Loosen the release lever rod locknut (Figures 5 and 6).
- Turn the adapter portion of the adjusting assembly until a firm resistance is felt. The release bearing is now contacting the clutch pressure plate fingers (levers).
- 4. Back the locknut off (forward) and insert a feeler gauge (0.128 inch thick for 8 cyl.; 0.178 inch thick for 6 cyl.) against the back face of the rod adapter. Then, tighten the locknut finger-tight against the gauge.
- Remove the feeler gauge. Hold the locknut in position and tighten the adapter against the nut. Torque the adapter 10-15 ft.-lbs.
- 6. Install the clutch return spring.
- Check the free travel at the pedal. It should be from % to 11/8 inches. Readjust if necessary.
- 8. As a final check, measure the pedal free travel with the transmission in neutral and the engine running at about 3000 rpm. If the free travel is not a minimum of ½ inch, readjust. Otherwise, the release fingers may contact the release bearing continuously, resulting in premature bearing and clutch failure.

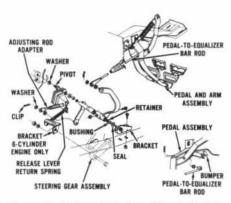


Figure 5-Falcon, Fairlane Clutch Pedal and Linkage Adjustment

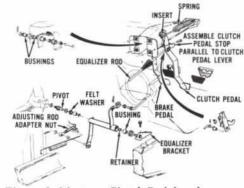


Figure 6-Mustang Clutch Pedal and Linkage Adjustment

FAIRLANE GT AND GTA 4-V CARBURETOR SPECIFICATIONS

This new type carburetor is similar to the dual 4-V carburetor used on the 427 engines. However, it has several unique features: the fuel inlet system, center hinged float, external vent rod and the automatic choke filtering air pick-up tube.

The carburetor can be considered as two dual-carburetors; one supplying a fuel-air mixture throughout the entire range of operation (primary stage), and the other functioning only when a greater quantity of fuel-air mixture is required (secondary stage).

The fuel inlet system contains an external fuel distribution tube that routes fuel from the primary fuel inlet to the secondary fuel inlet.

The primary fuel bowl is vented during curb and off-idle engine operation through a poppet valve, actuated by a lever on the throttle shaft.



CARBURETOR SPECIFICATIONS

Engine	Engine Transmission Number		Туре	DRY FLOAT SETTING—PRIMARY AND SECONDARY C60F-9510-M and N			
390 V-8 GT	Manual	C60F-9510-M	4V	Center of float an equal distance from top and bottom inside edges of fue bowl with fuel bowl inverted			
390 V-8 GTA	Automatic	C60F-9510-N	4V	FUEL LEVEL SETTING (WET)—PRIMARY AND SECONDARY C60F-9510-M and N Lower edge of sight plug			
PRIMARY AND		hes	19/16	SECONDARY THROTTLE PLATE (LEVER) SETTING C60F-9510-M and N 1/2 turn in after screw contacts lever			
SECONDARY	and N			INITIAL IDLE MIXTURE ADJUSTMENT C60F-9510-M and N 1 to 1½ turns outward after lightly seating needle			
MAIN METERING JET IDENTIFICATION NO. PRIMARY C60F-9510-M and N 68 SECONDARY 60F-9510-M and N 71				CURB (HOT ENGINE) IDLE SPEED ADJUSTMENT—Rpm¹ C60F-9510-M. 575 to 600 with shift lever in neutral C60F-9510-N. 475-500 with shift lever in neutral ¹With headlamps turned on, air conditioner (if so equipped) operating at maximum pressure and engine at normal operating temperature. FAST IDLE SPEED ADJUSTMENT—Rpm² C60F-9510-M. 1200 with shift lever in neutral C60F-9510-N. 1300 with shift lever in neutral			
POWER VALVE IDENTIFICATION NO. C60F-9510-M and N							
STARTS TO OF	TIMING—Inches o	f Mercury (Hg)	6 to 8	² With headlamps turned on, air conditioner (if so equipped) operating al maximum pressure and engine at normal operating temperature.			
ACCELERATOR C6OF-9510-M	PUMP SETTING-	-Primary Throttle Lev	ver No. 2	ANTI-STALL DASHPOT (IF SO EQUIPPED) CLEARANCE—Inches ³ C60F-9510-N. 0.060 to 0.09 3Clearance between plunger and throttle lever at curb idle and plunged depressed.			
ACCELERATOR PUMP LEVER CLEARANCE C60F-9510-M and N 0.015 inch between lever and screw with plunger lever depressed and throttle plate wide-open.			er depressed and	FUEL BOWL VENT VALVE CLEARANCE—Inches ⁴ C60F-9510-M and N Clearance between valve and fuel bowl with engine at curb idle speed.			
		IDENTIFICATION	58L 1	AIR CLEANER SPECIFICATIONS			
CHOKE SPRING HOUSING SETTING C60F-9510-M and N Set at index				COLOR: 390 4V, V-8. Blue and Chrome TYPE. Dry			







ANTI-STALL DASHPOT USAGE

This article is presented to clarify the usage of anti-stall dashpots on Ford, Fairlane, Falcon, Mustang and Thunderbird models.

Anti-stall dashpots, by means of a spring loaded diaphragm, retard the closing rate of the throttle plate when the foot is taken off the accelerator pedal. The delay is necessary because if the throttle plate was allowed to close immediately after the foot was removed from the accelerator pedal, an extremely over-rich air fuel mixture would result and cause stalling under certain conditions. Retarding the closing rate of the throttle plate gives the engine time to use up the extra fuel and prevents stalling.

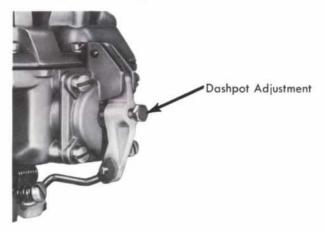


Figure 1-Ford 1-V Integral Anti-Stall Dashpot

The following five points should clarify whether or not a car should be equipped with an anti-stall dashpot:

- · ALL cars equipped with Thermactor use a dashpot.
- · ALL cars equipped with Air Conditioning use a dashpot.
- Cars equipped with an Automatic Transmission AND rodtype accelerator linkage (Falcon, Fairlane, Mustang, Thunderbird and some 1965 Fords) use a dashpot.
- Some 1965 and all 1966 Ford models use cable-type accelerator linkage, and hence do not use a dashpot, if equipped with an automatic transmission.
- Single barrel (1-V) carburetors have an integral built-in dashpot (Figure 1). Multi-barrel carburetors have an external dashpot (Figure 2).

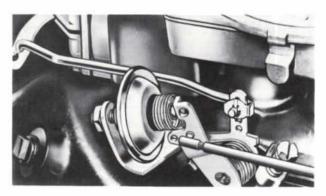


Figure 2-Ford 2-V and 4-V Anti-Stall Dashpot

COMBUSTION CHAMBER CONDITIONER

This new product is specifically designed to:

- Remove gums and other deposits from the fuel induction system.
- · Free sticking valves and sluggish compression rings.
- Purge excessive deposits from the combustion chambers.
 Use Combustion Chamber Conditioner prior to every motor tune-up for smoother idle and increased performance. Remember a dirty motor cannot be tuned properly!

Directions

- Allow can of cleaner to warm up to room temperature before spraying and shake occasionally during application.
- Run engine until normal operating temperature is reached... then set at a fast idle of 700 to 800 rpm.
- 3. Remove air cleaner.
- 4. Apply cleaner directly by spraying into entire carburetor air intake area. (Choke plate and shaft, main throttle plate and shaft, and carburetor throat and venturi). On four barrel carburetors, spray a small amount into the secondary side. Spray rapidly and constantly, but do not let engine stall until can is empty.
- When can is empty, immediately turn off ignition key and let engine stand for five minutes.
- Restart engine, open and close throttle rapidly within safe limits for two minutes.
- 7. Adjust carburetor to normal specified idle.

NOTE: Exhaust venting precautions should be used when the above service is to be performed inside a building.



NEW SIMPLIFIED MUFFLER APPLICATION GUIDE

...47 fewer part numbers...wider model application for 1960-1964 models...new low priced standard steel muffler now available.

A complete new simplified line of FoMoCo "Aluminized Steel" mufflers featuring new and wider applications that greatly reduce the number of mufflers required to service all 1960-1964 passenger cars are now available. Only a few part numbers are needed to service all types exhaust systems on all 1960-1964 passenger cars. These new mufflers are the same premium quality, original equipment type at no increase in price. Only the end caps have been changed to accommodate various style hangers.

For popular 1960-1964 Ford model passenger cars, a new high quality low priced standard steel muffler is available for customers who may not require the longer life feature of the Aluminized Steel type. These models are indicated by a * in the chart below.

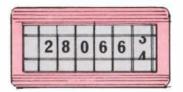
Thunderbird mufflers are stainless steel for even longer life and greater durability.



Model and Body Type	Engine No. of Cyl. C.I.D.	Part No.	Side R (right) L (left)	Type S (single) D (dual)	Model and Body Type	Engine No. of Cyl. C.I.D.	Part No.	Side R (right) L (left)	Type S (single) D (dual)
	1960					1963			
Ford All types	6 Cyl. 223 8 Cyl. 352	COAZ-5230-A	L&R	S & D	Fairtane All Types	5 Cyl. 170, 200 and 8 Cyl. 221, 260	C20Z-5230-J	L&R	S
Thunderbird All Types	8 Cyl. 352, 430	B9S-5230-A	L&R	D	Fairlane All Types exc. S/W	8 Cyl. 289 with 4/V	C40Z-5230-E	R	S
Falcon Tudor and Fordor	6 Cyl. 144	CIDD-5230-C	R	S	Thunderbird All Types	8 Cyl. 390 with 4/V	C3SZ-5230-A		\$
Falcon Ranch Wagons, Ranchero, Sed. Del.	6 Cyl. 144	C3DZ-5230-A	R	S	Thunderbird All Types	8 Cyl. 390 with 6/V	C3SZ-5230-B C3SZ-5230-C	R	0 0
	1961				Falcon Fordor, Tudor, Ranch Wgn., Ranchero, Sed. Del., Convert,	6 Cyl. 144, 170	CODZ-5230-A	R	S
Ford All Types	6 Cyl. 223 8 Cyl. 292 352 390	COAZ-5230-A**	L & R	S D	Falcon All Types—exc. S/W, Sed. Del. and Ranchero	8 Cyl, 260	C3DZ-5230-E	R	S
Ford All Types	8 Cyl. 292, 352, 390	CISZ-5230-A	P	D	Falcon S/W, Sed, Del, and Ranchero	8 Cyl. 260	C3DZ-5230-B	R	S
Thunderbird All Types	8 Cyl. 352, 430	C1SZ-5230-B	i.	D	Falcon Tudor H/T "Futura" Sprint	8 Cvt. 260	C3DZ-5230-D	D .	s
Falcon Tudor and Fordor	6 Cyl. 144, 170	C1DD-5230-C	R	S	and Convert, Sprint	0 Oys. 200	0301-3130-0	<u> </u>	-
Falcon Ranch Wagons, Ranchero, Sed. Del.	6 Cyl., 144, 170	CODZ-5230-A	R	S		1964			
	1962				Ford All Types exc. S/W and Convert. "from 2/17/64"	6 Cyl. 223, 8 Cyl. 289, 352, 390, 427	COAZ-5230-A	L&R	S & D
Ford All Types	6 Cyl. 223	COAZ-5230-A	L&R	S & D	Ford S/W and Convert. "from 2/17/64"	8 Cyl. 289, 352	C4AZ-5230-T	L	S
-0.00	8 Cyl. 292, 352, 406 6 Cyl. 170				Fairtane All Types with exceptions below:	6 Cyl. 170, 200 8 Cyl. 260, 289	C20Z-5230-J	L & R	5
Fairlane All Types	8 Cyl. 221	C20Z-5230-J	R	\$	Fairlane All high perf. exc.	8 Cvl 289 4/V	C40Z-5230-E	P	S
Fairlane All Types	8 Cyl. 260	C40Z-5230-C	R	S	Stn. Wgn. "before 4/13/64"	0.031.002.47	115.000.0000.00	-	
Thunderbird All Types— "before 10/16/61"	8 Cyl. 390	C1SZ-5230-A C1SZ-5230-B	R	D D	Fairlane All Types exc. S/W— Arvinode—"from 4/13/54"	8 Cyl. 289 4/V	C40Z-5230-F C40Z-5230-G	R L	D
Thunderbird All Types— "from 10/16/61"	8 Cyl. 390	C2SZ-5230-A C2SZ-5230-B	R	D D	Thunderbird All Types	8 Cyl. 390	C4SZ-5230-A C4SZ-5230-B	R	D D
Thunderbird All Types	8 Cyl. 390 with 6/V carb.	C1SZ-5230-A C1SZ-5230-B	R	D D	Falcon All Types (with exceptions below):	6 Cyl. 144, 170 8 Cyl. 260	C4DZ-5230-F	R	S
Falcon All Types	6 Cyl. 144, 170	CODZ-5230-A	R	S	Falcon Ranch Wagons, Ranchero, Sed. Del.	6 Cyl. 144, 170	CODZ-5230-A	R	S
	1963				Falcon Ranch Wagons, Ranchero, Sed. Del.	8 Cyl. 260	C3DZ-5230-E	R	S
Ford All Types	6 Cyl. 223 8 Cyl. 260, 289, 352, 390, 406, 427	CDAZ-5230-A	L&R	S & D	Body Type Abbreviations: R/W—Ranch Wagon, Sed. Del.—Sedan Delivery, P/I—Police Interce		/T—Hard Top, Co	nvert.—Con	vertible,

^{*}Lower price standard steel muffler use part number COAZ-5230-B

LET US SAFETY CHECK YOUR CAR FOR THESE SIGNS OF SHOCK FAILURES:



YOUR MILEAGE

Over 20,000 miles . . . or two years . . . since you've had new Shocks? Surveys show that 3 out of 5 cars in this group need new Shock Absorbers NOW!

FLUID LEAKS, UNEVEN TIRE WEAR

Faulty Shocks cut tire life by up to 17% . . . and leaking fluid and uneven tire wear are sure signs that Shock Absorbers aren't doing a job!





WANDERING, BOBBING, SHIMMY

Wandering tendencies on winding roads, "bobbing" stops, wheel-shaking shimmy-all clues that tell you to replace your worn out Shocks!

WE HAVE SAFETY CHECKED YOUR CAR AND FOUND THE FOLLOWING CONDITIONS:

We can insta	all new shock absorbers on your	car
in	minutes for only \$	



PRODUCTS OF Street



SOLD AND INSTALLED BY

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WHAT SINGLE FEATURE MAKES **AUTOLITE**

SHOCK ABSORBERS **BEST FOR YOU?**

> THE NAME BEHIND THEM



The name, FORD MOTOR COMPANY, behind every Autolite Shock Absorber-that's what makes them best for you! Ford's Autolite Division makes use of one of the world's largest automotive testing and development facilities. Imaginative engineering, grueling testing, painstaking refinements add up to proved quality! Quality that's built into every AUTO-FLEX and SUPER-FLEX Shock Absorber.

But that's not all! Autolite engineers also realize that miles have taken a toll on your car. Springs begin to tire. Suspensions are looser. So Autolite matches these changed conditions with Shock Absorbers that have all the features of Autolite's superb Ford Original Equipment Shocks . . . but with performance to meet your present needs! Another convincing proof that Autolite Shock Absorbers are best for all cars . . . BEST for YOU!

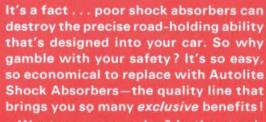
AUTOLITE OFFERS A SHOCK ABSORBER TO MEET EVERY NEED

EXTRA QUALITY FOR EXTRA SAFETY
WITH AUTOLITE

Customers who want a reasonably soft "new car" ride and rarely travel at sustained high speeds will probably prefer the regular AUTO-FLEX ride. This all-around Shock Absorber is capable of handling the same heavy loads as most extra-heavy-duty units, but with normal control forces for a better feeling ride. In general, the standard AUTO-FLEX Heavy Duty line will meet most needs for cars that have seen at least two years of service. And they'll provide slightly more control for customers who dislike the soft, "willowy" new car ride of some Original Equipment Shocks.

AUTO-FLEX XD is just the ticket for customers who want the better handling at higher speeds or with heavy loads that only a more firm Shock Absorber can give. This Shock Absorber is also ideal for customers who haul travel trailers with equalizer-type hitches that take up the extra load . . . but still require extra damping of spring jounce and rebound forces. In addition, the firm control of the AUTO-FLEX XD limits suspension travel, giving reduced wear and longer life for ball joints, springs and steering linkage. On older cars, they also prevent frequent bottoming of weakened springs.

When a true load booster Shock Absorber is needed to handle up to a half-ton of extra weight on rear wheels, use SUPER-FLEX! Its three-stage operation automatically adapts to all kinds of loads. A smooth ride with no "tail up" look under normal loads. More overload protection than competitive units. No jarring "bottoming-out" on bumps with heavy loads.



Want some examples? In the standard AUTO-FLEX unit, the pressure tube—the heart of the Shock Absorber—is over twice as strong as an average tube. Its interior walls have a super-fine burnished finish that protects the long life performance of the precision ground piston.

A husky ½-inch diameter piston rod of hardened steel has a polished finish that combats corrosion, wear, stone damage—major causes of failure with other units. A costly welding process gives added strength to joints.

Special valving gives automatic 3stage ride control. AUTO-FLEX fluid capacity is up to double that of ordinary shocks—absorbs more heat to perform better, quieter, under hard use. And Autolite's Constant Viscosity Blend fluid gives a uniform ride in any weather—summer heat or winter cold.

Autolite Shock Absorber components are designed to meet and exceed original equipment specifications . . . to bring you advantages that other replacement units can't match! That's why we say . . . you're always right with AUTOLITE!

