



MANAGEMENT BULLETIN



SUBJECT

HURST/OLDS W-40 OPTION

NUMBER: 84-1-23

DATE: April 13, 1984

MODELS/YEARS

1984 CUTLASS CALAIS K47 STYLE

SECTION: 10

A limited number of 1984 Oldsmobile "K47" style cars are being built with the Hurst/Olds W-40 Option. W-40 Includes the following items:

EXTERIOR APPEARANCE FEATURES

Special Paint Scheme Black (Paint Code 19) and Silver (Paint Code 17) with Red and Silver Accent Stripes
Blacked Out Bumper Rub Strips, Headlamp Doors, Tail Lamps and Back Up Lamp Bezels
Black and Argent Grille
Amber Parking and Turn Lamp Lens
Chrome and Argent Wheels with Red Accent Stripe (N83)
Black Front Lower Air Dam
Silver Deck Lid Spoiler
Silver (non-functional) Hood Scoop
Hurst/Olds Front License Plate
Dual Sport Mirrors (D35) Silver (D68 available option)
Halogen Headlamps (TT5 - std. on K47)

SCRIPTS

Hurst Olds Medallion for Front End Panel
Red Lettered Hurst/Olds Door Script Decal and Right-Hand Lower Deck Lid Script

INTERIOR APPEARANCE/FUNCTIONAL FEATURES

Reclining Bucket Seats (AR9 - std. on K47)
Sport Steering Wheel (NK3 - std. on K47)
Sport Console (D55 - std. on K47)
Gage Package with Tachometer (U21 - std. on K47)
Hurst/Olds Instrument Panel Emblem
Lightning Rod Shifter with 4-Speed Instrument Panel Indicator
Air Conditioning (C60) Required
Trim Color - 25 Maple Red Cloth and 55 Maple Red Vinyl

POWER TRAIN

5.0L V-8 Engine (LV2 VIN 9)
4-Speed Automatic Transmission (200-4R)
Specific Calibration/Torque Converter (2400 RPM Stall Speed)
3.73 Axle Ratio (GT4 std.) Limited Slip Differential (available option)
Transmission Gear Ratio - 1st - 2.74, 2nd - 1.57, 3rd - 1.00, 4th - .67
W.O.T. Upshift - 1-2:5200 RPM, 2-3:4900 RPM, 3-4:4400 RPM

CHASSIS

Rear Air Shock Absorbers
Dual Outlet Exhaust
Specific Ride & Handling Package
15" (N83) Wheels, Chrome and Argent with Red Accent Stripe, 7.0 X 15 in.
P215/65R15 Goodyear Eagle GT Tires (QYH)

COMPONENT PART NUMBERS

<u>ENGINE</u>	<u>Part No.</u>	<u>TRANSMISSION</u>	<u>Part. No.</u>
Short Block Assy.	22504938	Transmission – 2004R Code OZ	8639191
5.0L V-8 VIN Code 9	22520635	Inspection – Flywheel Cover	22512448
Camshaft – (See Fig. 1)	22519934	Flywheel	22500807
Valve Spring	411226	Transmission Case	8632943
Valve Spring Retainers	406996	Converter Assy.	8634993
Valve Retainer Key	3947770	Overhaul Kit	8634989
Push Rod – Valve	22505582	Gasket Kit	8634988
Rocker Arm	22505583	Ring Kit	8634910
Rocker Arm – Pivot	391208	Transmission Mount	472143
Rocker Arm – Cover	556263	Transmission Support	14063895
Valve – Lifter	5232750	Transmission Mount to	
Valve – Intake	22521789	Trans. Spacer	561519
Valve – Exhaust	22521553	Transmission Solenoid	8634960
Timing Chain	401584	Turbine Shaft – Input	8634144
Camshaft – Sprocket	381263	Pressure Regulating Valve Spring	8639164
Crankshaft – Sprocket	382880	Transmission Oil Pan	8634847
Crankshaft	22505615	Transmission Filter	8634931
Connecting Rod	554976	Transmission Oil Pump Body	8634970
Piston – Pin	398295	Transmission Oil Pump Cover	8639199
Piston – Std.	22506658	Intermediate Servo Spring	8632661
Piston Rings – Std.	22506536	1-2 Accumulator Spring	8634391
Oil Pump	402386	3-4 Accumulator Spring	8634163
Oil Pan	555137	Gear Kit, Gov. Driven,	
Gasket Kit	22506498	Speedodrive	8634965
Motor Mount	22521746	Governor with Seal	8634982
Front Engine Cover	392926	Valve Body Spacer Plate	
Cylinder Head	22511238	Gasket Kit	8634969
		Valve Body Spacer Plate	8639174
		4th Clutch Oil Pressure Switch	8634475
		Valve Body	8639127
		T.V. Cable	25508262
 <u>IGNITION SYSTEM</u>	 <u>Part No.</u>	 <u>CRUISE CONTROL</u>	 <u>Part No.</u>
Front Cover Indicator – Timing	419048	Servo Bracket	22521730
H.E.I. Distributor	1103457	Servo Rod	22521728
Engine Wiring Harness	12034789	Cruise Control Chain	25031314
Spark Plugs	AC-R46RZ	Servo	25034092
Coil – Ignition	1876209	Vacuum Check Valve	14047619
Distributor – Cap	1974408	Vacuum Tank	14056624
Distributor – Rotor	1977026	Module	25031985
Pole Piece with Plate	1977207		
Module	1976908		
Terminal Block	1892261		

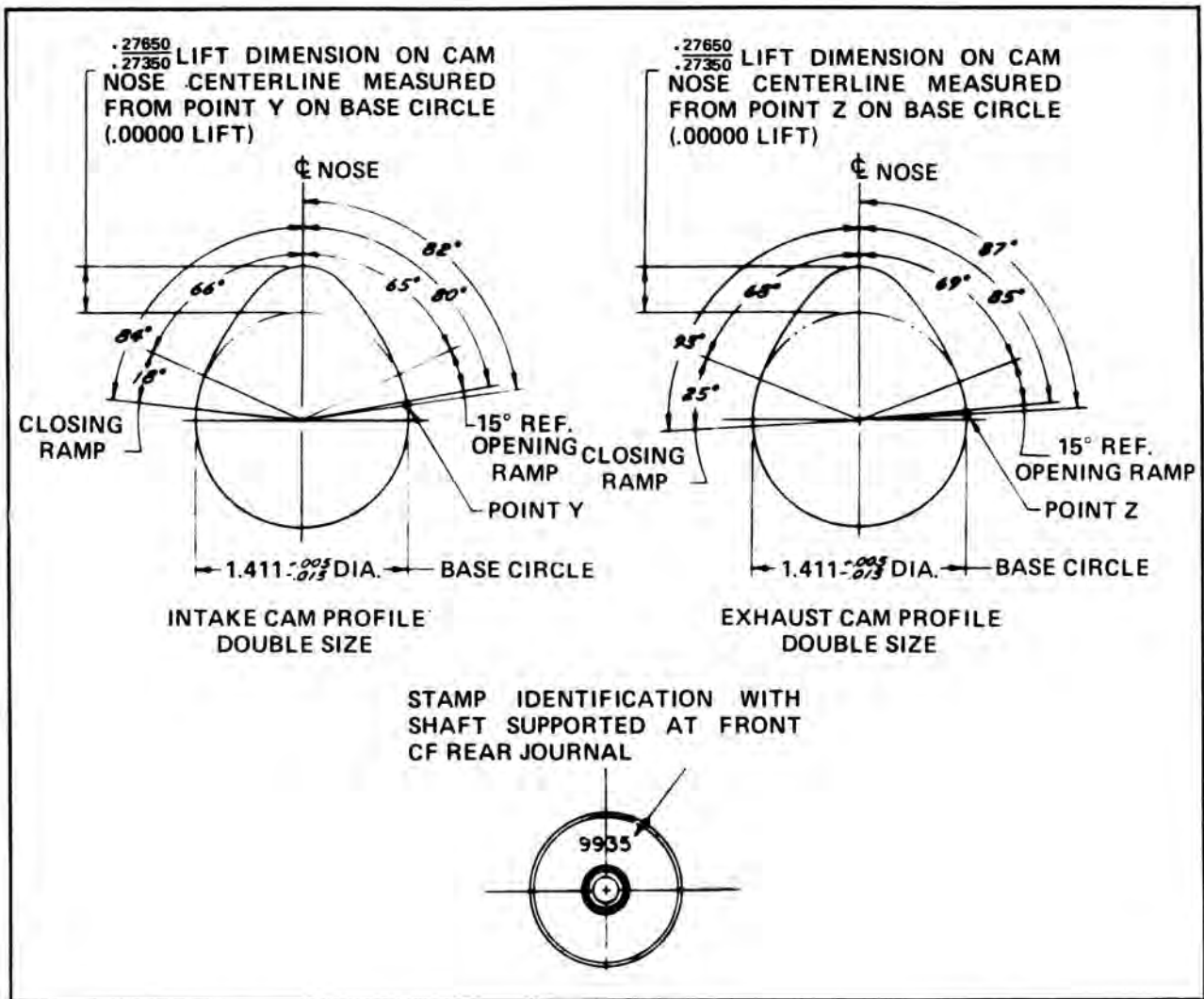


Figure 1

FUEL SYSTEM

	<u>Part. No.</u>
Intake Manifold	22504068
Rochester 4MV Carburetor	17084554
Fuel Pump	6472172
Dual Snorkel Air Cleaner	25043165
Air Filter	6484235-(A348C)
Fuel Tank	22510717
Throttle Cable	25504322

COOLING SYSTEM

	<u>Part. No.</u>
Radiator	3043077
Water Pump	556283
Fan Blade	22511036
Fan Clutch	559729
Fan Blade Shroud	22506642
Hose - By-pass	409042
Hose - Radiator Outlet	557966
Hose - Radiator Inlet	22520397
Coolant Recovery Reservoir	10014451
Thermostat	3051139 (195°)

V-BELTS & PULLEYS

	<u>Part No.</u>
Belt - A.I.R. Pump	LH - 9433847
Belt - Water Pump to Alternator	BS - 9433640
Belt - Water Pump, Alternator, to Power Steering	GW - 9433764
Pulley - Water Pump	560329
Pulley - Power Steering Pump	559930
Pulley - A.I.R. Pump	25503831
Pulley - Crankshaft	22502240
Harmonic Balancer	417142

EMISSION CONTROLS

	<u>Part No.</u>
ECM Federal (Broadcast Code DFC) California (Broadcast Code DFD)	1226457 1226457
PROM Federal (Broadcast Code DFC) California (Broadcast Code DFD)	16040809 16040815
Air Cleaner Diaphragm Motor	8994333
Air Cleaner Thermo Sensor	8997574
A.I.R. Pump	7838575
A.I.R. Pump Brackets Front	22503799
Rear	22503798
EGR Valve	17110491
EFE Control Switch	22522527
Canister Purge	3048075
Oxygen Sensor	5613725
Map Sensor	16006834
Coolant Sensor	25036092
Baro Sensor	16006833
Vehicle Emission Info. Label, Fed.	22522110
Vehicle Emission Info. Label, Cal.	22522111

EXHAUST SYSTEM*

	<u>Part No.</u>
Catalytic Converter Fed.	25056632
Catalytic Converter Cal.	25056345
Catalytic Converter Hanger	22520310
Muffler & Tail Pipe (Right)	22526204
Muffler & Tail Pipe (Left)	22526205
Muffler & Tail Pipe Hanger (Right)	22520308
Muffler & Tail Pipe Hanger (Left)	22520309
Exhaust Manifold (Right)	22521449
Exhaust Manifold (Left)	22503678
A.I.R. Manifold (Right)	22514382
A.I.R. Manifold (Left)	22514383
Front Exhaust Pipe	22519894
Crossover Pipe	22504709
Intermediate Pipe	25509922

SUSPENSION & STEERING COMPONENTS

	<u>Part. No.</u>
Body Mounts – Group 9 in Parts Book	
Position No. 2 Upper	356561
Lower	457915
Position No. 3 Upper	330942
Lower	377802
Position No. 4 Upper	348080
Lower	377802
Position No. 5 Upper	556755
Position No. 6 Upper	330951
Lower	377801
Position No. 7 Upper	25500592
Lower	377801
Frame	14023515
Front Stabilizer Shaft	472116
Front Stabilizer Link	470147
Front Stabilizer Insulator	472118
Front Shock Absorber	4993579
Steering Gear Assy.	7843135
Steering Gear Valve	7832057
Steering Gear Rack with Piston	7839109
Power Steering Pump	7840244
Power Steering Pump Brackets	
Rear	22523814
Front	22523817
Power Steering Pump Reservoir	7827562
Power Steering Pressure Hose	7833315
Rear Axle Control Arm Bushing	10000068
Rear Axle Housing	22510780
Rear Axle Housing Cover	22507583
Axle Shaft	22519888
Propeller Shaft	7844585
Pinion Flange	7827670
Rear Air Adjustable Shock	
Absorber (Rt)	22012060
Rear Air Adjustable Shock	
Absorber (Lt)	22012059
Rear Stabilizer Shaft	10029113
Ring & Pinion Gear Kit – 3.73	22521624
Axle Assy. with Limited Slip	14075731
Axle Assy. without Limited Slip	14075730
Universal Joint	374246

*The side corners of the resonators are reworked to provide underbody clearance. This is not the result of plant or carrier damage and warranty or transportation claims will not be accepted for this condition.

FLOOR SHIFTER OPERATION-HURST OLDS (Fig. 2)

This car uses a three lever floor mounted shifter. The left hand lever controls Park, Reverse, Neutral, Overdrive and Drive detents. Placing this lever in the overdrive detent will allow the transmission to shift from first thru overdrive.

The center lever is used to 'Lock-In' second gear, and the right hand lever is used to 'Lock-In' first gear. To use the 'Lock-In' feature for first and second gear the left hand lever must be placed in the drive detent.

To 'Lock-In' second gear, push the button on the center lever down and pull lever back. Next, to 'Lock-In' first gear, push the button on the right hand lever down and pull lever back. When the first and second gear 'Lock-In' levers are used, it is necessary to manually upshift the transmission. This is done by moving the right hand (first gear) and center (second gear) levers forward respectively.

To manually downshift the transmission from drive to second gear, push the button on the center lever down and pull lever back. To manually downshift to first gear, downshift to second, then push the button on the right hand lever down and pull lever back.

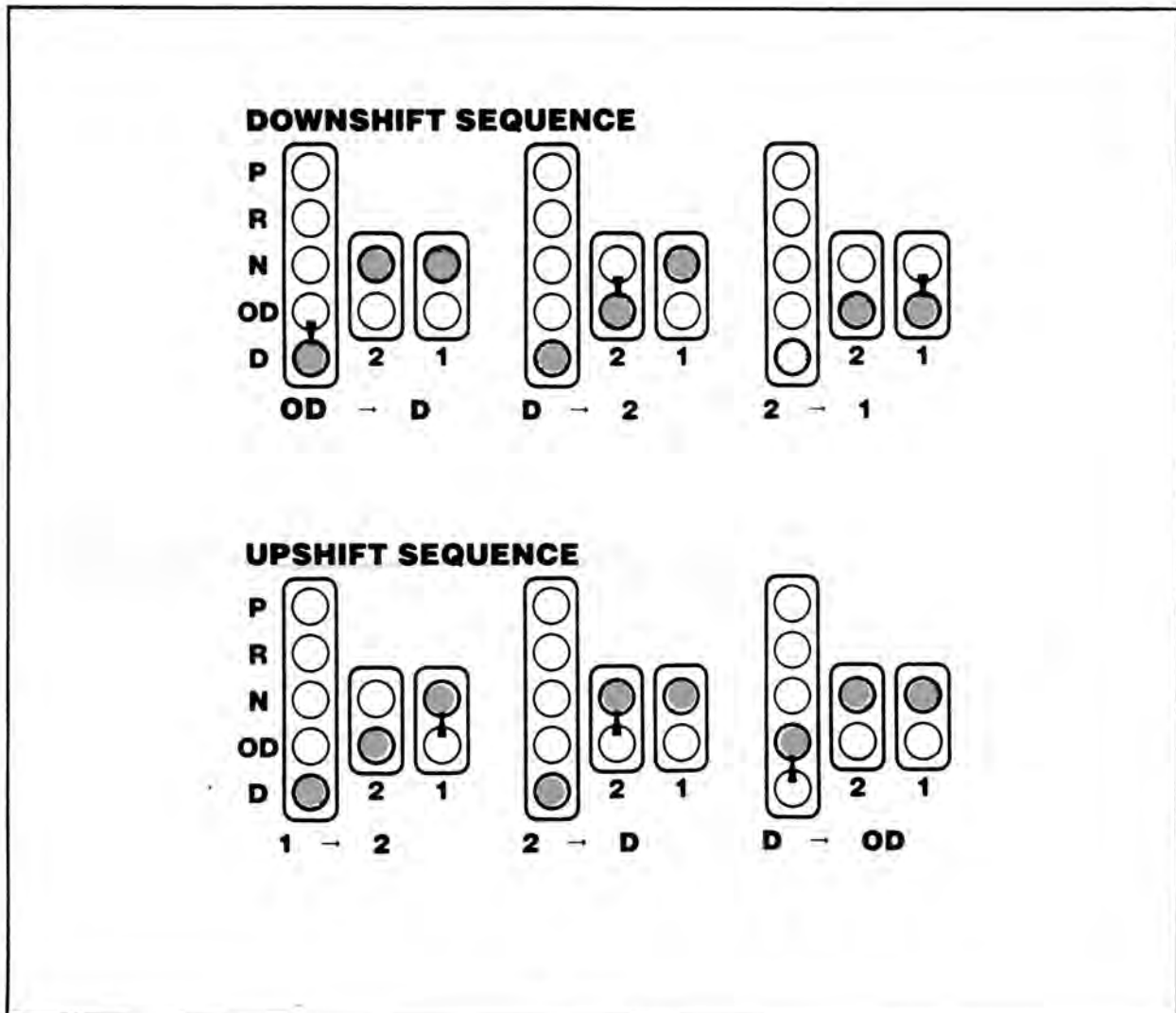


Figure 2

SHIFTER COMPONENTS (See Fig. 3)

	<u>Part No.</u>
Hurst Lightning Rod Shifter	22520889
Control Lever Button	22521235
Control Lever Knob	22521236
Shifter Mounting Bracket	22521596
Shifter Mounting Plate	22521595
Shifter Dust Shield Plate	22520891
Shifter Dust Shield	22520890
Shifter Console Bezel	22520892
Shifter Console Bezel Screw	22520898
Shift Indicator Cable	25076101
Shift Indicator	25045511
Shift Control Cable	357746
Console	22507969
Shift Control Cable Bracket	22521603
Dust Shield Lower (2 pcs.)	22521771
Hurst/Olds Name Plate — I.P.	22525039

EXTERIOR COMPONENTS

	<u>Part. No.</u>
Hood	22521115
Hood Scoop	22520882
Hood Scoop Seal	22520883
Hood Scoop Spacer	22521770
Hood Scoop Moldings	22520884
Hood Center Front Moldings	22520885
Hood Center Molding	
Insulator Plate	22520886
Spoiler Rear Deck Lid	22520887
Spoiler Rear Deck Lid Insulator	22520888
Hurst/Olds License Plate	22525040
Hurst/Olds Name Plate, Hood	22525038
Rear Hood Molding	22523747
Hoop Center Molding Clip	367862
Front Fender — Right	22506838
Front Fender — Left	22506839
Grille Radiator — Right	22523748
Grille Radiator — Left	22523749
Air Dam — Right	22520875
Air Dam — Center	22520874
Air Dam — Left	22520876
Air Dam — Retainer Left Side	22520877
Air Dam — Mounting Bracket — Left	22520878
Air Dam — Mounting Bracket — Right	22520879
Air Dam — Mounting Bracket — Sides	22520880
Air Dam — Retainer Right Side	22522718
Air Dam — Reinforcement Right	22522790
Air Dam — Reinforcement Left	22522791
Air Dam — Reinforcement Rear (2 pcs)	22521767

EXTERIOR COMPONENTS (Cont.)

	<u>Part No.</u>
Bumper Guards — Right Front	22514928
Bumper Guards — Left Front	22514929
Bumper Guards — Right Rear	22514930
Bumper Front	22514926
Bumper Rear	22514927
Bumper Fascia Center Molding (Front Upper - Lower)	22524145
Bumper Fascia Molding Rear (2-Upper, 2-Lower)	22524146
Bumper Fascia Molding Rear Outer	22524144

EXTERIOR GRAPHICS

	<u>Part No.</u>
Stripe Package	22522957
Stripe — Front End Panel — Right	22523028
Stripe — Front End Panel — Left	22523029
Stripe — Front Fender Upper — Right	22523030
Stripe — Front Fender Upper — Left	22523031
Stripe — Front Fender Lower — Right	22523040
Stripe — Front Fender Lower — Left	22523041
Stripe — Front Door Upper — Right	22523032
Stripe — Front Door Upper — Left	22523033
Stripe — Front Door Lower — Right	22523042
Stripe — Front Door Lower — Left	22523043
Stripe — Rear Quarter Panel Upper — Right	22523034
Stripe — Rear Quarter Panel Upper — Left	22523035
Stripe — Rear Quarter Panel Lower — Right	22523044
Stripe — Rear Quarter Panel Lower — Left	22523045
Rub Strip — Front Bumper — Right	22523036
Rub Strip — Front Bumper — Left	22523037
Rub Strip — Rear Bumper — Right	22523038
Rub Strip — Rear Bumper — Left	22523039
Front Door Name Decal (Hurst/Olds)	22523046
Rear Deck Lid Decal (Hurst/Olds)	22523046

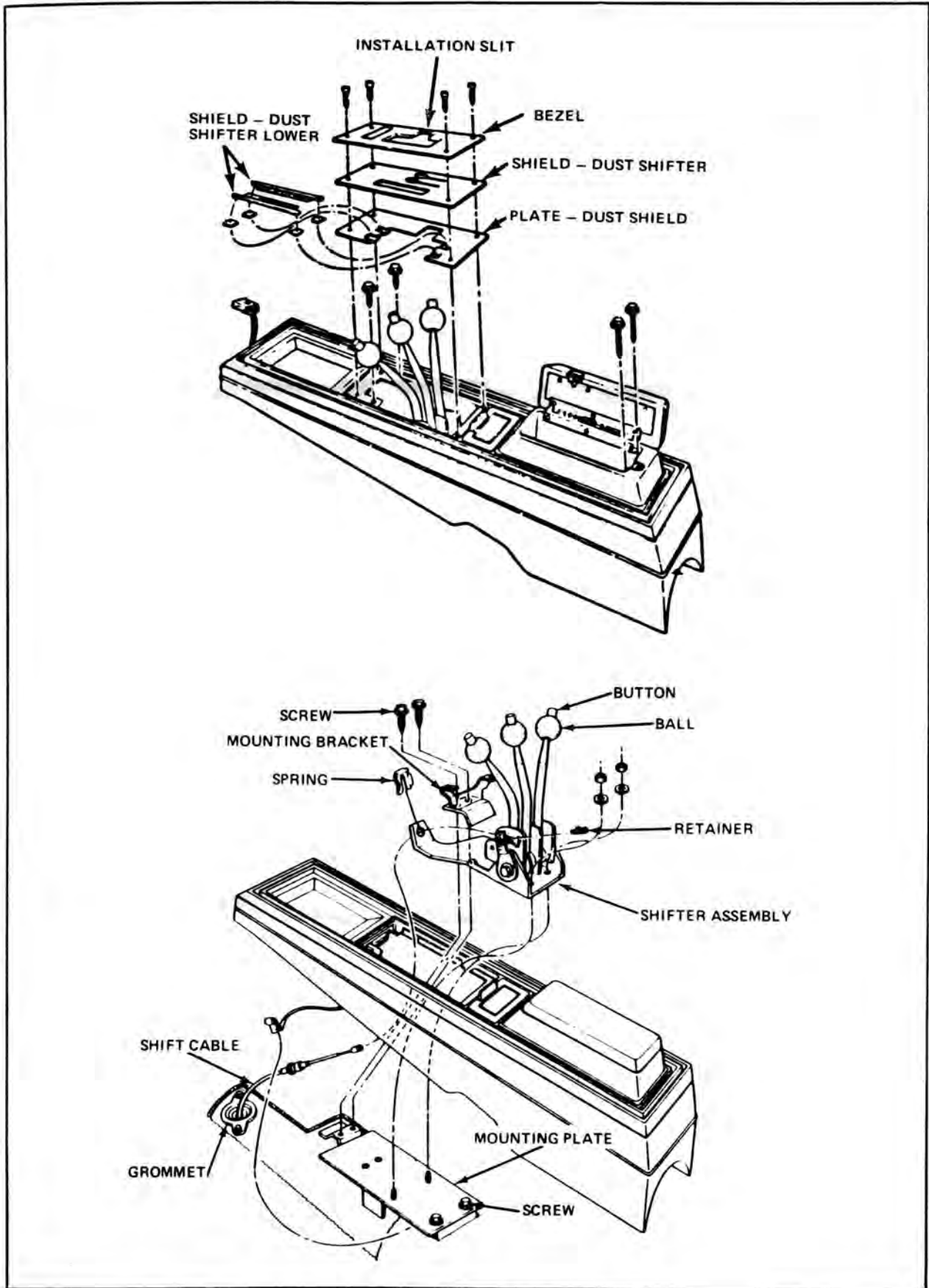


Figure 3

SPECIFICATIONS

ENGINE

Type	Oldsmobile (LV2) V-8, 307 Cu. In. Iron Block and Heads, Aluminum Intake Manifold
Bore and Stroke	Bore: 3.800" (96.5mm) Stroke: 3.385" (85.98mm)
Compression Ratio	8.0:1
Carburetion	1 X 4 Rochester 4MV Quadraject
Power (SAE Net)	180 bhp @ 4000 RPM
Torque (SAE Net)	245 Lbs. Ft. @ 3200 RPM
Exhaust System	Low Restriction, Dual Outlet Mufflers
Fuel Requirements	Unleaded
Carb Stop Screw Adjustment	550 RPM - DR
A/C Solenoid Adjustment	650 RPM - DR A/C Off
High Idle Adjustment	750 RPM - Low Step of Fast Idle Cam (in drive)
Ignition Timing @ 1100 RPM - Diagnostic Connector Grounded	20° BTDC
Spark Plug Gap	.080"

SUSPENSION

Front	Independent, Unequal Length Control Arms, Coil Springs, Anti-sway Bar (1.25 in. Diameter)
Rear	Rigid Axle, 4 Trailing Links, Coil Springs, Anti-sway Bar (.875 in. Diameter)
Rear Shock Absorbers	Super Lift Air Shock System (This System is Covered in the 1984 Chassis Service Manual)

BRAKES

Front	10.5 X 10 in. Vented Disc
Rear	9.5 X 2.0 in. Cast Iron Drums

STEERING

Type	Recirculating Ball, Power Assisted
Ratio	12.70:1
Turns Stop to Stop	2.5

DIMENSION AND CAPACITIES

Wheel Base	108.1 in.
Length	200.0 in.
Width	71.6 in.
Curb Weight	3535 Lbs.
Weight Distribution F/R	58.9%/41.1%
Fuel Tank Capacities	18.1 U.S. Gallons

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