Making a car "stock" means many things to many people. To John Holman and Ralph Moody it means blueprinting an engine and designing and fabricating a special chassis and suspension around it. All this is done to meet NASCAR or USAC stock car racing specifications. To Bill "Grumpy" Jenkins it means taking a brand new factory engine and rebuilding it to the closest tolerences possible to make it competitive under NHRA or AHRA stock class rules. If the customer wants to go the full route with Jenkins, he will also get a preloaded chassis that affords him with the ultimate in weight transfer and traction. And to Mr. Average Motorist, up to a couple of years ago, that is, it meant fine tuning a showroom stock vehicle and lettering it up to look like a race car.

Because of factory interest in all forms of racing over the past few years Mr. Average Motorist has learned to read between the lines of Detroit stock car performance advertisements and differentiate between "stock-bodied" and showroom stock cars. Yes Virginia, there is a difference!

He discovered that stock-bodied means nothing more than a showroom stock-type body mounted on an allout race car chassis and engine. He soon realized that the engines and chassis were one-off creations of independent race car builders and in no way could be compared to the showroom models.

So now if the Detroit "iron men" want to impress potential customers or raise the morale of present owners they know they either have to run a legit stock car or an all-out racing "stock" car and advertise accordingly.

First to pull a really legit stock car attempt at a world speed record is the Plymouth Division of Chrysler Corporation. The very same people who have been flooding the market with advertisements praising their drivers who have been setting all kinds of NASCAR, AHRA and NHRA records with their "stock" hemi-charged "orange monsters" now have a legiti-

160_{mph} **Plymouth Street Hemi**

Plymouth's new streetable "orange monster" is equally at home on the street, strip or salt. BY THE CARS STAFF





1966 PLYMOUTH SATELLITE **SPECIFICATIONS**

ENGINE

Type	OHV V-8 Hemi
	426 cubic inches
Compression Ratio	10.25-to-1
	Dual Carter AFB quads
Camshaft	
	425 @ 5000 rpm
Torque	490 foot/pounds @ 4000 rpm
	Dual headers, dual pipes
Ignition	Standard dual points

TRANSMISSION

Make			Chrysler A-833	four speed
Control	٥		Reverse lockou	
Ratios		*	2.66, 1.91	

REAR END

Type	Sure-Grip, 9¾-inch	ring	gear
Ratio		3.54	-to-1

BRAKES

			11		metallic	11
Type	POWER	natolook	I I_inch	ariime	metallic	unings
I VUC	IOWCI	assisteu	TT-IIICII	ui uiiio,	motamo	1111111150

SUSPENSION

Front, type	Independent, HD torsion bars, HD shocks
	sway bar
Rear, type	HD coil springs, HD springs, shocks
Steering, type	Manual, quick, option
Overall ratio	NA

GENERAL.

List Price		\$2	69!
As tested, Price	. , ,	\$4	100
Weight		4040 pou	ınd
Wheelbase		116 inc	he
Overall length		200.5 inc	:he:
Tire Size	7.75 x 14-	inch high performance po	lice

PERFORMANCE

to 30 mph	3.0 seconds
to 60 mph	5.5 seconds
tanding ¼ mile mph	108 mph
lapsed Time	
op Speed	160 mph
uel Consumption	7.0 mpg (Sunoco 260)

160 MPH PLYMOUTH STREET HEMI

mate stock car world record to talk and wall-to-wall carpeting. The only "Street Hemi" engine that can be to reach spots under the chassis! bought at any Plymouth dealership removed the mufflers and went out and

Driven by Bob Summers, the 28-Team, the stock '66 Plymouth Satelway flying-mile average of 156.35 Class B records (cars with 305 to 488 held by Mickey Thompson.

Frantic Four's fueler!" After taking feit street reliability. about ten minutes of verbal abuse, one of the Public Relations men answered occasionally opening up all eight barwith, "That Satellite is so stock, you rels to prevent the high torque hemi can fly out here tomorrow, check the from feeling neglected! The transition USAC-FIA seals and drive it to New from two to four and then to eight York. In fact, you can even keep it barrels was smooth as silk and the for a couple of weeks. Take your wife hemi really didn't feel its oats until shopping in it, use it for commuting the tach needle soared past the 3800 to the city, take it out to the drags. rpm mark. And we really mean Do whatever you want with it."

Not ones to pass up an opportunity Upon close inspection at Pacers to drive a 160 mph stocker on the Auto in Oceanside, New York, we Not ones to pass up an opportunity From Detroit Metro airport we even stocker than Plymouth cared to wheeled it out to the Chelsea Proving admit. The paint had chipped around Grounds, where a most innocent-look-ing white '66 Plymouth Satellite with quick coat of white paint was applied black tires and HP-2 emblems was for the Bonneville record runs. The waiting for us. Factory engineers had original color was gold which matched removed the portable roll cage and up with the gold vinyl interior. We Firestone Bonneville tires, which also noticed that the car was not origiwould have proved useless on the nally equipped with a four-speed street, and gassed it up for the big transmission. Tell-tale saw marks trip. The Satellite was as stock as any around the floor boards to the rear of other assembly line model. It had the bellhousing indicated that the radio and heater, full interior (scarred four-speeder was a last minute swap.

about. They actually took a stock '66 traces of its adventure at Bonneville model Satellite powered by a 426 were the salt deposits lodged in hard

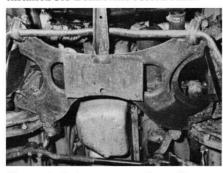
We hopped into the slim Satellite added a roll bar, special racing tires, buckets, twisted the key and the responsive 426 street hemi roared to turned a top speed of 160.82 mph at life. After a normal warmup period the Bonneville Salt Flats in Utah. Now the detuned "orange monster" settled down to a 1000-1100 rpm idle and we headed out to the highway. After year-old Ontario, California half of a couple of hours of all types of drivthe famed Summers Brothers Racing ing we accepted the fact that the engine was street stock and that a 160 lite turned a top speed of 160.82 mph and set an official UASC-FIA two-driven on the street. Our only complaints were that the manual steering mph. Officials also credited Summer's proved to be too much for any type Plymouth with a new two-way flying of driving other than flat-out highway kilometer average of 155.30 mph. The cruising and that the hefty street hemi clutch was badly in need of lubricacubic inch engines) were formerly tion. We later learned that salt deposits had worked their way into the When we first learned of the record clutch and regardless of how much from Plymouth factory people, we ex- lubricant was pumped in we could not pressed an expected, "Who are you free the fingers. We also didn't apprekidding? You may be able to fool the ciate the 8-9 miles to the gallon we guys who buy stick Six Belvederes, were getting on the open road. But but you're not going to con us! That then again you have to pay a price for Bonneville Satellite was probably as performance and we would rather pay stock as the Plymouth hemi in the for it in poor gas economy than for-

We made the trek in record time, soared!

street, Charlie Dodge of Pacers Auto learned a lot more about this Plymand I hopped a quick flight to Detroit. outh Bonneville record-holder. It was by the installation of the roll cage) Also, a little identification card in the



Special radiator hose clamps were installed for Bonneville record runs.



Above, skid plate protects deep oil pan from road debris. Below, Editor Marty Schorr put the Satellite through its paces on makeshift handling course.







Above, welded-in torque boxes were used to support roll cage. Below, stock street hemi rear suspension is very similar to



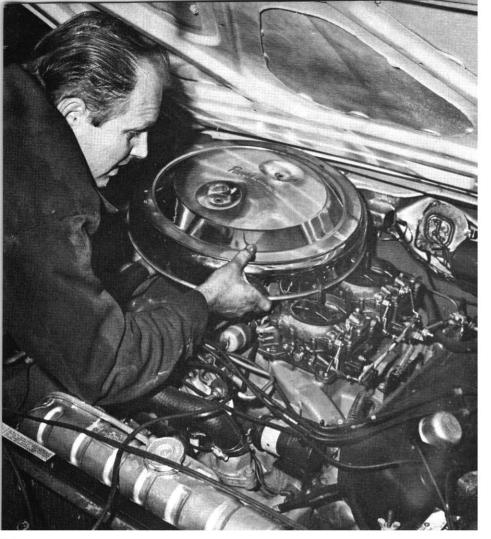
holding Satellite on the Salt.





Top, mufflers are contoured for extra driveshaft clearance. Above, Charlie Dodge sets up the 426 after quick trip from Michigan to New York.

CARS • 15 14 • CARS



Above, Charlie removes the plated air filter exposing the progressively-linked Carter AFB quads. Below, "Gee, that's even faster than Dad's new Fury station wagon!"



A special #2206044 steel bellhousing scattershield mates the A-833 four speeder to the "orange monster."

160 MPH PLYMOUTH STREET HEMI

glove box let us know that the car was originally equipped with an automatic.

We checked with Chrysler-Plymouth to verify our snooping. Then it hit us! When the '66 model lineup was shown to the press at Chelsea in June there was only one street hemi built. It was a gold Satellite with automatic and the usual street equipment. When the record runs were made in September there were still no hemis built on the '66 assembly line. Plymouth took the automatic hemi Satellite that everyone who turned out to see the '66's tortured on the handling and drag courses (1800 miles on the odometer after the preview), changed the transmission and rear end gearing. added the necessary safety equipment, shot it with white paint and trailered it to the Salt Flats. They actually took a preview model that was driven by people who couldn't tell a Street Hemi from a Slant Six, had it fine tuned and brought up to snuff by factory engineers and shipped it out to Bonneville. To avoid trouble with Highway Patrol representatives during our Chelsea to New York "record run" we insisted that the body be left in absolutely stock condition. We didn't want to look like a (Continued on page 64)



rolling billboard for Bonneville and driveshaft. attract every street racer and state an appointment with Wendell John Paulo the artist who does the gold leaf work on the Cars Magazine Racing Team cars to have the car lettered as soon as we arrived at the shop.

Since we had two weeks to conduct our combined street-strip test, we let Charlie Dodge and George Snizek keep it at their shop for a few days for a complete checkup. Fortunately for us, Chrysler Engineering left Distributor Governor Advance and Distributor Vacuum Advance curve charts in the glove compartment.

After the tuneup and initial road test (to determine state of tune) Charlie put the Satellite on he rack and sent it up for a bumper-to-bumper inspection. At first glance the undercarriage looked like a cross between last year's factory drag car and a street machine! The front end of our Bonneville ma- 95 percent of the time we never went chine was fitted with an ultra thick over 2500 rpm or higher than Second sway bar which seemed thicker than gear. We occasionally opened up all the stock .94-inch street hemi model, eight just to convince a few motorists inch diameter heavy, heavy duty real. We went through Sunoco 260 shocks. The extra deep oil pan is pro- at the rate of 5 to 6 mpg during that tected by an 8-inch wide hat-section week. member welded to the crossmember. It's a refined version of the skid plates checking the timing we drove the used on road rallye cars and it's stock brightly lettered Satellite to the drag on all street hemi cars. The brakes strip. Nothing was touched under the were also stock street hemi, with hood, all four 7.75x14 Goodyear Poinch units at the rear. Metallic linings 3.54 gears. Charlie experimented with were installed as there was no talk of various methods of coming off the a disc brake option at the time this line, but found that the times didn't car was readied for Bonneville. The differ appreciably. First he tried burnbalance of the running gear including ing out, power shifting up around the monstrous 5.5 leaf (clipped) springs, specially balanced driveshaft four speed transmission with HD gears of the day we were clipping off 13.90's on all street hemi equipped models.

of non-stock items. The bellhousing scattershield was of heavy duty steel construction instead of cast iron and chassis members for roll cage support. there that evaded the spray job done at Chrysler Engineering. We also noticed that the dual reverse flow mufflers which sounded like California glass pacs carried MoPar numbers were contoured to avoid contact with the driveshaft. This is to prevent sparks from flying in case a tail pipe potential of the Bonneville car. We

hanger loosens up and the mufflers end up too close to the high revving

Charlie adjusted the clutch as best trooper from the proving grounds to he could, pulled the inspection cover Pacers Auto. We had already made and checked out the assembly and greased up all the component linkage. This helped a bit but the clutch still behaved as though every part from the pedal to the flywheel was covered with solid rust. As a last measure Charlie drilled out the clutch crossshaft (not fitted with any lubrication fittings), installed a lube fitting and pumped it full of grease. This helped quite a bit but the fingers on the pressure plate still acted as though the salt had taken its toll.

To check the overall stop and go economy of the street hemi and to see if it can actually be driven on a daily transportation basis, we played "freeway freedom fighter" for a week. At first it was a bit rough with the manual steering and sticky clutch, but we eventually learned to master the situation. The only problem being that .92-inch torsion bars and special 1- that the lettering on the side was for

Never even changing a plug or 11x3-inch units up front and 11x2.5- lice tires were left intact as were the 6000 rpm. Then he tried bogging out of the hole for a good bite and mashwith high speed U-joint cover, 3.54 ing his foot into the pots. We started to 1 Sure Grip rear with 9³/₄-inch ring out turning mid 14-second ets with gear and super duty axles and A-833 speeds around 105 mph. By the end and reverse lockout linkage are stock and 108-110 mph quarter-mile times. Considering the full street equipment, We did, however, notice a couple condition of engine (we were asked by Chrysler to keep the revs below 6200 as the valve springs and component parts were showing signs of wear) and there were torque boxes welded into the extra weight (250 pounds) of the welded-in torque boxes for the roll We found quite a bit of salt lodged in cage, trailer tie downs and pilot model parts, this baby really turned on. When the drag boys start setting them up for Double A stock competition, you can rest assured those street hemis will be honking in the 12's.

We made a few passes against the stop watch to check out the 0 to 60 averaged 5.5 seconds for the popular run, making it quick enough to put down just about any of the current Detroit "supercars."

The amazing part of the street hemi Satellite was that it could be driven in everyday traffic sacrificing nothing more than fuel economy and be taken right out to the strip for a trophy charge. Right out of the showroom the car will run mid 14-second ets with speeds to 105 mph. With the stock suspension and without the so-called benefits of traction bars (a status symbol for Drive-in rodders!) this car will charge right out of the chute without any traces of spring windup. It does take some getting used to with fishtailing coming in under full bore acceleration. But it is an easy car to live with. The engine will idle at 1000 rpm and climb right to the 6000 rpm factory redline quicker than any other Detroit product. And it does all this without the benefit of tall gears.

About the only faults we found with the car were the long throw between gears (bring back the Hurst linkage) the stock tach console mounting position, and the bulky steering. The added weight of the street hemi and the lowered front suspension did very little for steering control. The Policetype brakes were good, but we felt that a car with 160 mph potential should have been equipped with discs. They are now available as an option.

Even though the street hemi engine option price is set at \$907, we feel that it's the best buy on the performance market. You can hardly buy that kind of performance for twice the price! And best of all, it's covered by a special one-year Chrysler Corporation warranty.

CHITTENDEN continued

nights and the stockers on Sunday afternoons. Fontana, presently on a winter schedule, runs only on Sunday afternoons as does the new Irwindale

What might be an interesting solution for the AHRA strips in SoCal would be for Lions to keep their present set-up of hot cars on Saturday and stockers on Sundays, and for Fontana, the hardest hit for attendance of the three, to run stockers on Saturday and hot cars on Sunday. Irwindale, due to local zoning requirements, can run only on Sundays.

WILL THERE BE a new Cobra? One with roll-up windows and modern design? There is one in England right now! Known as the "AC-427," it is being made by the same people who make the Cobra chassis and body.