

# ALL MTD BRANDS TECH BRIEF

01.08.13.01

## (MTD CARBURETOR / REBUILD KIT IDENTIFICATION )

**Tech Subject:** Identify Correct Huayi Or Deni Carburetor Rebuild Kits Used On MTD Branded Engines

**Models Affected:** All MTD Engines

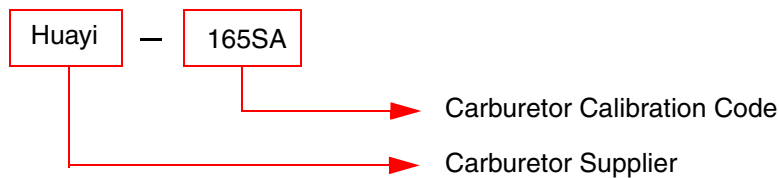
**Serial Number Range Affected:** N/A

### Tech Issues:

To correctly identify carburetors used on MTD branded engines to ensure proper rebuild kit part number is selected.

### 1. Carburetor Calibration Breakdown

- used to communicate which parts are needed for a specific engine
- More reliable than tracking by engine model

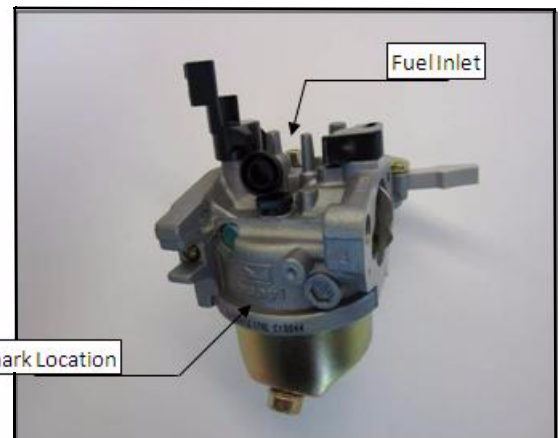


### 2. Determine Carburetor Supplier

Supplier cast into carburetor body  
Usually found on opposite side of fuel inlet

Supplier trademarks

- Huayi (HY) - primary supplier
- Deni (DN) - secondary supplier for higher volume engine platforms
- Ruixing (RX) - rarely used (older models only)



Huayi Trademark



Deni Trademark



Ruixing Trademark

### 3. Determine Carburetor Calibration

4-6 Digit Alphanumeric Code

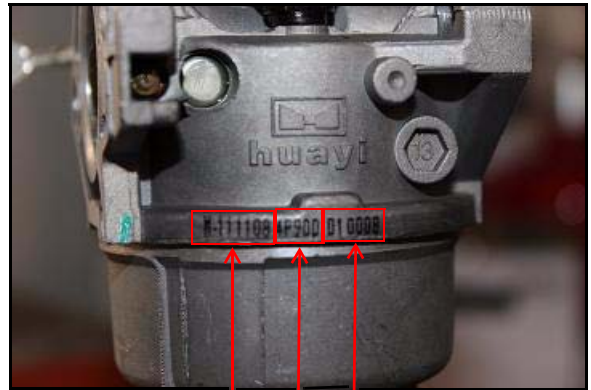
Minimum of 2 Locations

a. Printed within the carburetor serial code

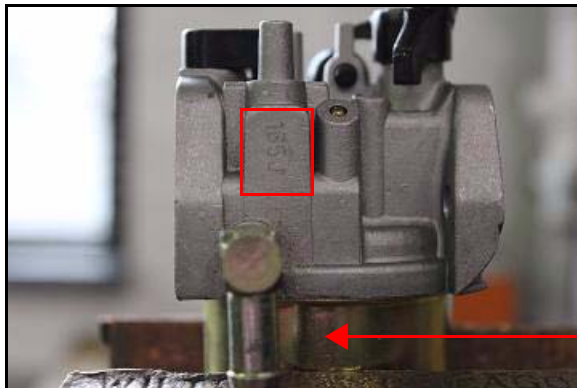
Example (right)

b. Stamped on carburetor body

Locations vary (below)

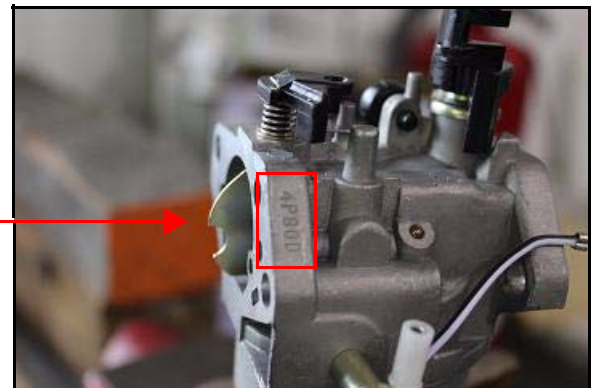


First 7 Digits Calibration Code      Carburetor Serial Code (Last 6 Digits)



Throttle Plate

Fuel Inlet



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Carburetor Assemblies		
951-12158	CARB ASM:CHOKE:HY-170L	Huayi
951-12374	CARB ASM:CHOKE:HY-178L	Huayi
951-12552	CARB ASM:CHOKE:HY-170LA	Huayi
951-12612	CARB ASM:PRMR:HY-161SA	Huayi
951-12612A	CARB ASM:PRMR:HY-161SB	Huayi
951-12702	CARB ASM:CHOKE:HY-165H	Huayi
951-12702A	CARB ASM:CHOKE:HY-165HA	Huayi
951-12704	CARB ASM:PRMR:HY-165J	Huayi
951-12704A	CARB ASM:PRMR:HY-165JA	Huayi
951-12704B	CARB ASM:PRMR:HY-165JB	Huayi
951-12705	CARB ASM:PRMR:DN-165SB	Deni
951-12705	CARB ASM:PRMR:HY-165SB	Huayi
951-12705	CARB ASM:PRMR:HY-165SB	Huayi
951-12705	CARB ASM:PRMR:DN-165SB	Deni
951-12706	CARB ASM:PRMR:DN-165S	Deni
951-12706	CARB ASM:PRMR:HY-165SA	Huayi
951-12706	CARB ASM:PRMR:HY-165SA	Huayi
951-12706	CARB ASM:PRMR:DN-165S	Deni
951-12707	CARB ASM:PRMR:HY-165S	Huayi
951-12783	CARB ASM:CHOKE:HY-170HA	Huayi
951-12785	CARB ASM:CHOKE:HY-170HB	Huayi
951-12785	CARB ASM:CHOKE:HY-170H	Huayi
951-12791	CARB ASM:CHOKE:HY-178LA	Huayi
951-14018	CARB ASM:PRMR:HY-161S	Huayi
951-14019	CARB ASM:CHOKE:HY-161H	Huayi
951-14020	CARB ASM:CHOKE:HY-161HA	Huayi
951-14020A	CARB ASM:CHOKE:HY-161HB	Huayi
951-14022A	CARB ASM:PRMR:HY-190S	Huayi
951-14022A	CARB ASM:PRMR:HY-190SA	Huayi
951-14023A	CARB ASM:PRMR:HY-183S	Huayi
951-14023A	CARB ASM:PRMR:HY-183SA	Huayi
951-14024A	CARB ASM:PRMR:HY-178S	Huayi
951-14024A	CARB ASM:PRMR:HY-178SA	Huayi
951-14026A	CARB ASM:PRMR:HY-170S	Huayi
951-14026A	CARB ASM:PRMR:HY-170SA	Huayi
951-14027A	CARB ASM:PRMR:DN-170SA	Deni
951-14027A	CARB ASM:PRMR:HY-170SA	Huayi
951-14027A	CARB ASM:PRMR:DN-170S	Deni
951-14027A	CARB ASM:PRMR:DN-170SA	Deni
951-14028A	CARB ASM:PRMR:HY-170J	Huayi
951-14028A	CARB ASM:PRMR:HY-170JA	Huayi
951-14035	CARB ASM:PRMR:HY-190SB	Huayi
951-14093	CARB ASM:PRMR:HY-161SC	Huayi

Carburetor Kits		
951-05034	CARB KIT:SVC:HY-170HE	Huayi
951-12709A	CARB KIT:SVC:HY-165HA	Huayi
951-12709A	CARB KIT:SVC:HY-165H	Huayi
951-12711A	CARB KIT:SVC:HY-165J	Huayi
951-12711A	CARB KIT:SVC:HY-165JA	Huayi
951-12712	CARB KIT:SVC:DN-165SB	Deni
951-12713	CARB KIT:SVC:DN-165S	Deni
951-12715	CARB KIT:SVC:HY-165SA	Huayi
951-12716	CARB KIT:SVC:HY-165S	Huayi
951-12756	CARB KIT:SVC:HY-161S	Huayi
951-12757A	CARB KIT:SVC:HY-161SB	Huayi
951-12757A	CARB KIT:SVC:HY-161SA	Huayi
951-12758	CARB KIT:SVC:HY-161H	Huayi
951-12758A	CARB KIT:SVC:HY-161HA	Huayi
951-12759	CARB KIT:SVC:HY-161HB	Huayi
951-12760A	CARB KIT:SVC:HY-183SA	Huayi
951-12760A	CARB KIT:SVC:HY-183S	Huayi
951-12761A	CARB KIT:SVC:HY-190SA	Huayi
951-12761A	CARB KIT:SVC:HY-190S	Huayi
951-12762A	CARB KIT:SVC:HY-178S	Huayi
951-12762A	CARB KIT:SVC:HY-178LA	Huayi
951-12762A	CARB KIT:SVC:HY-178SA	Huayi
951-12763	CARB KIT:SVC:HY-178L	Huayi
951-12782	CARB KIT:SVC:HY-170H	Huayi
951-12783	CARB KIT:SVC:HY-170HA	Huayi
951-12784	CARB KIT:SVC:HY-170HB	Huayi
951-12786	CARB KIT:SVC:HY-170L	Huayi
951-12787	CARB KIT:SVC:HY-170LA	Huayi
951-12788A	CARB KIT:SVC:HY-170SA	Huayi
951-12788A	CARB KIT:SVC:HY-170JA	Huayi
951-12788A	CARB KIT:SVC:HY-170S	Huayi
951-12788A	CARB KIT:SVC:HY-170J	Huayi
951-14033	CARB KIT:SVC:HY-165JB	Huayi
951-14050	CARB KIT:SVC:HY-165SB	Huayi
951-14124	CARB KIT:SVC:HY-161SC	Huayi
951-14153	CARB KIT:SVC:DN-170S	Deni
951-14154	CARB KIT:SVC:DN-170SA	Deni
951-14231	CARB KIT:SVC:HY-190SB	Huayi