Vehicle Identification

Roadster (Runabout) - *Open Car* - folding top, no side windows, front seat only.

Coupe - *Closed Car* - two doors, enclosed interior with front seats only, side glass windows.

Tudor Sedan - *Closed Car* - two doors, enclosed interior with front and rear seats, side glass windows.

Fordor Sedan - *Closed Car* - four doors, enclosed interior with front and rear seats, side glass windows.

Touring - *Open Car* - folding top, no side windows, front and rear seats.

Centerdoor Sedan - *Closed Car* - enclosed interior with front and rear seats, side glass windows, door positioned in the center of the body.

TT Truck - enclosed interior, adaptable chassis/rear cargo area, worm drive rear axle)

Roadster Pickup - *Open Car* - no side windows, front seat only, rear bed for cargo.

"C" Cab Truck - distinctive C shape of side windows.

Engine Serial Numbers US

1908	1-309
1909	310-14,161
1910	14,162-34,900
1911	34,901-88,900
1912	88,901-183,563
1913	183,564-408,347
1914	408,348-656,063
1915	656,064-1,028,313
1916	1,028,314-1,614,516
1917	1,614,517-2,449,179
1918	2,449,180-2,831,426
1919	2,831,427-3,659,971
1920	3,659,972-4,698,419
1921	4,698,420-5,638,071
1922	5,638,072-6,953,071
1923	6,953,072-9,008,371

1924	9,008,372-10,994,033
1925	10,994,034-12,990,076
1926	12,990,077-14,619,254
1927	14,619,255-15,076,231

Engine Serial Numbers Canada

Prior to 5/20/13, Canadian cars used US production engines, they did not say "MADE IN USA".

5/20/13	C-1
7/31/13	C-1,500
7/31/14	C-16,500
7/31/15	C-37,500
7/31/16	C-70,000
7/31/17	C-121,000
7/31/18	C-170,000
7/31/19	C-208,500
7/31/20	C-262,500
7/31/21	C-311,300
7/31/22	C-357,200
7/31/23	C-427,300
7/31/24	C-513,405
7/31/25	C-583,300
7/31/27	C-750,000

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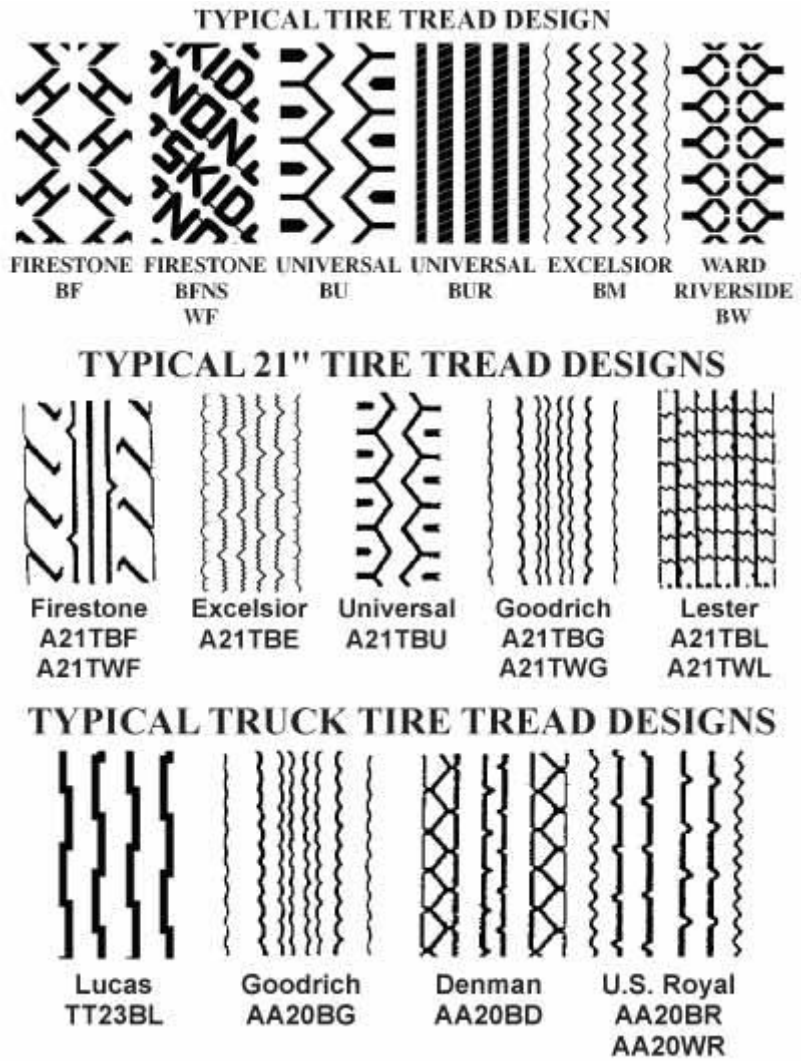
Tire Tread Images



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Recommended Tire Pressures

Under-inflation can result in rim cuts, even on the best of rims. Recommended tire pressures are:

30 x 3"	55-65 psi	23"
30 x 3-1/2"	55-65 psi	24"
450 x 21"	32 psi	21"
500 x 23"	60 psi	32"
600 x 20"	36-60 psi	30"

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Piston Specifications

Cylinder Bores 3.750" Diameter 6.752" Long

Diameter: *Skirt* 3.748"Ã¢â‚¬â€œ3.749" *2nd Ring* 3.743"Ã¢â‚¬â€œ3.745" *Top* 3.738"Ã¢â‚¬â€œ3.740"

Ring Grooves 1/4" x 13/64" Deep

Pin Bushing Diameter .740"Ã¢â‚¬â€œ.741"

Wrist Pin Diameter .740"Ã¢â‚¬â€œ.741"

Wrist Pin Length 3-1/2"

Ring Gaps (original rings) 3.750" *Top* .003" *Center* .005" *Bottom* .008"

When installing any type of piston, the split in the skirt faces away from the camshaft.

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Magneto Coil Assembly Identification Table

1909	Double stack round	Yes	Cast Iron	3/8" each stack	1/2"	First 17500 cars	T3250ES	Special order
1910	Double stack round	Yes	Cast Iron	1/4" each stack	9/16"	17501 to 20500	T3250ES	Special order
1910Ã¢â‚¬â€œ12	Double stack round	Yes	Stamped steel	1/4" each stack	5/8"	2 flat sides on pole plate	T3250ES	Special order
1913Ã¢â‚¬â€œ14	Double stack round	No	Cast Iron	1/4" each stack	5/8"	Beginning by October 1914	T3250ES	Special order
1915Ã¢â‚¬â€œ17	Double stack oval	No	Cast Iron	1/4" each stack	3/4"	Without starter notch	T3250DE	Stock
1917Ã¢â‚¬â€œ18	Single stack oval	No	Cast Iron	1/4"	3/4"	Without starter notch	T3250DL	Stock
1919Ã¢â‚¬â€œ27	Single stack oval	No	Cast Iron	3/16"	3/4"	With starter notch	T3250DS	Stock

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Fan Belt Specifications

The following are the most common fan belt lengths for T3900WP & T3900WPL. However, modified upper & lower pulleys can affect which belt is needed. Check your belt with a measured string before ordering.

FOR T3900WP		FOR T3900WPL	
09Ã¢â‚¬â€œ16	31"	09Ã¢â‚¬â€œ16	28-1/4"
17Ã¢â‚¬â€œ25	32"	17Ã¢â‚¬â€œ19	31"
26-27	36"	20-25	32"
		26-27	33-3/4"

MAC's offers three kinds of fan belts: plain rubber, plain rubber with Ã¢â‚¬Å“FordÃ¢â‚¬ï¿½ script & plain leather.

Rubber Fan Belts: Close to the original, with heavy-duty 5-ply reddish-tan rubber material. All are 1-1/8" wide with a glued, overlapping lamination joint.

Leather Fan Belts: Not original, but they are very durable. They might stretch, so are made slightly undersize. They are stitched at the joint & around the circumference.

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Fan Specifications

Drive pulley ID 1.83"-1.84"

Drive pulley OD 3"
Prior to 1920.

Hub ID .499"-.500"
Prior to 1920.

Engine Specifications

22.50 horsepower

Spark plug firing order 1-2-4-3. 1 is on the radiator side of the engine.

Spark Plug Gap .030"

Crankshaft Specifications

Overall length 22-5/32"

Connecting rod bearing diameters (all) 1.248"

Bearing lengths *Front* 2" *Center* 2-3/16"
Rear 3-1/8" *Rods* 1.505"

Main Bearings 1.248-1.249"

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Camshaft Specifications

Overall length 22-23/32" Bearing diameters (all) .748"

Bearing lengths*Front* 1.967" *Center* 2-7/16" *Rear* 1.750"

Width of cams 7/8"

Heel cam diameter 13/16"

Greatest diameter of cam 1-1/16"

Flange diameter 1-3/4"

Flange width 1/4"

Dowel holes .3120-.3125"

Thread: *Large* 13/16 x 16 USF *Small* 9/16 x 18 SAE

Camshaft Bearing Holes *Front* 1.374-1.375" *Center* 1.372-1.373" *Rear* .9985-1.000"

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Cam Specifications

Bearing (center) ID .7496"-.7500"

Bearing (center) OD 1.369"-1.370"

Bearing (front) ID .7496"-.7500"

Bearing (front) OD 1.372"-1.373"

Shaft journal OD .7488"-.7491"

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Cylinder Specifications

Cylinder Bores 3.750" diameter 6.752" long

Cylinder Head Bolt Holes 7/16" x 14

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Manifold Port Specifications

(With 1-1/4" countersink, 1/8" deep) 1-1/8"

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Oil Usage Specifications

Engine (*4-5 quart capacity*) 30 non-detergent

Rear end *(1 to 1-1/2 quart capacity)* 600W

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Push Rod Specifications

Length 2-11/32"

Diameter .4355"-.4365"

Head diameter 1"

Guide holes .437"

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Valve Specifications

Diameter of head & upper edge of seat 1-17/64"-1-9/32"

Diameter of lower edge 3/32"

Angle of valve seat 45Ã‚Â°

Thickness of head 3/16"

Stem diameter .3105"-.312"

Overall length 4.974"+

Retainer pin hole .110"-.113"
4-19/32" from valve seat line

Lift 7/32"

Tappet to stem clearance .022"-.032"

Valve ports 1-5/16" **Stem guide holes** .3125"

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Rear Spring Specifications

Main leaf length 45-1/4"

Main leaf height 10-1/2"

2nd leaf length 43-3/8"

3rd leaf length 36-9/16"

4th leaf length 30-3/8"

5th leaf length 24-7/8"

6th leaf length 19-3/4"

7th leaf length 15-1/16"

8th leaf length 12-3/9"

Leaves 3-8 are clip type.

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Front Spring Specifications

Fully assembled length (tapered style) 31-1/4" to 31-3/8"

Height 3-3/8 to 3-1/2"
For early type perch, shackle bore & wishbone bore are parallel to each other, 1-7/16" apart.

Perch center line distance 1-7/16"

Perch camber 4Ã‚Â°30'
Changed to 5Ã‚Â°30' during the 1920s.

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Shackle Bushings Specifications

Front, OD .686"-.687"

Rear, OD .748"-.750"

Front, ID .563"-.565"

Rear, ID .587"

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Steering Specifications

Steering arm ball diameter 1-1/8"

Steering arm length 4-1/4" overall

Steering gear cover opening .937"-.938"

Steering cover retaining bolt #6 x 32 (ASME) 5/16" deep

Steering ball arm to frame support clearance 1/8"

Steering main shaft to frame support angle 41Ã‚Â°26'

Steering column flange to center shaft angle 39Ã‚Â°45'

Steering tube opening at dash .752"-.756"

Steering gear housing shaft opening .780"-.781"

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Throttle Specifications

Lever to throttle arm angle 45Ã‚Â°
Locates throttle on arm shaft.

Arm length 1-3/8"

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Spark Specifications

Lever to spark arm angle 111Ã‚Â°
Locates spark arm on shaft.

Arm bend angle 46Ã‚Â°
Bent towards front of car.

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Brake Specifications

The brake rod has 2 bends; one 1-7/16" from clevis end & the other 2-3/4" from the threaded end (excluding bends for clearance of radius rod).

Rod pin OD .316"

Pull rod pin hole diameter .316"

Rod length 54-1/4" *Center of clevis to end of rod.*

Drum lug width 1/2"

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Univeral Ball Cap Specifications

Inner diameter for output shaft 1.566"-1.567"
Babbitt in place.

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Triple Gear Pin Specifications

At gear .6770"-.6775"

In flywheel .6790"-.6800"

At end .6860"-.6870"

Flywheel Hole for Triple Gear Pin .6750"

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Controller Quadrant Teeth Specifications

3/32" deep x 5/32" wide

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Transmission Specifications

Drive plate clutch finger screw holes 13/32"
Changed in the 1920s.

Clutch drum shaft mounting hole ID .9980"-.9985"

Clutch drum shaft lug opening 1/2"

Band with lining ID 7-1/2"

Transmission driven gear ID 1-15/32-1-1/2"

Push ring thickness 9/16"

Main shaft diameter 1-5/32"

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Clutch Specifications

Release fork (hole for collar) size .373"-.375"

Lever shaft OD .624"-.626"

Fork push ring width at fork area .403"-.409"

Finger mounting pin hole diameter .346"-.348"

Holes in drive plate, 3.

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Coil Box Specifications

Width 3-5/16"

Length 8-9/16"

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Muffler Specifications

Inlet ID 1-33/64"
Cast iron muffler.

Tailpipe length 10-3/4"
Exposed length, cast iron muffler.

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Starter Crank Specifications

Sleeve ID .755"-.757"

Sleeve OD .992"-.966"

Ratchet ID .749"-.751"

Ratchet pin hole .310"

Crank Case Trunnion with Cap ID

Front spring hanger 1.498"-1.500"

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Oil Pan & Tube Specifications

Pan arm upper mounting hole distance 21.5" to center

Pan rear flange to center of pan arm 12-9/32"

Pan arm width at frame opening 9-7/8" (x2)
from center line of pan to edge of pan arm at lower bolt holes

Pan front (trunnion) bearing:

OD 1.494"-1.496" **Width** 1.000"-1.002"

ID .999"-1.000" **Oil tube ID** 9/32"

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Universal Joint Shank Specifications

Universal Joint Shank .873"-.875"

Outer Diameter Universal Joint Ring Inner Diameter
.999"-1.000"

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Front Fender Specifications

Front Fender Iron Angle 49Ã‚Â° 40'
Circa 1914.

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Crossmember Specifications

Front Crossmember Overall length 22-3/4"

Length 21.5" *to center of fender iron mounting holes*

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Radius Rod Ball & Socket Specifications

Ball OD 1.248"-1.250"

Socket ID 1-1/4"

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Front & Rear Hub Specifications

Front hub ID for small bearing race 1.9335"-1.9365"

Front hub ID for large bearing race 2.715"-2.716"

Rear hub opening at wide end 1-1/16"

Taper angle 1-1/2" per foot

Rear hub brake drum ID 8"

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Drag Link & Tie Rod Specifications

Drag link ball socket radius 19/32"

Tie rod yoke ID *(upper end)* .562"-.563"

Tie rod ball OD 1-3/32"

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Front Axle Specifications

Yoke opening for spindle body 4.748"-4.752"

Bore for spindle bolt (kingpin) 5.045"-.505"
for first 5/16" of lower yoke, then 1/2" x 20 SAE threads to end

Spindle body length 4.748"-4.750" (end size)

Width of yoke (upper) .685"-.690"

Width of yoke (lower) .685"-.690"

Courtesy MAC’s Auto parts website