Item	6.00 to 7.49	7.50 to 9.99	10.00 to 10.99	11.00 to 11.49	11.50 to 13.99	14.00 & Slower	Expiration
Master Electrical Cutoff Switch	Y	Y	8:4 / 135 mph	8:4	8:4	8:4	
Neck Collar (SFI 3.3)	Y	Y	10:8	10:8	10:8	10:8	
NHRA Competition License	Y	Y	10:4	10:4	10:4	10:4	
NHRA Chassis Sticker	Y	Y	4:4	4:4	4:4	4:4	
Padding Roll Bar/Cage	Y / SFI	Y / SFI	Y / SFI	Y	10:6 / 135 mph	10:6 / 135 mph	
Parachute	Y	Y / 150 mph	4:8	4:8	4:8	4:8	
Pressurized Bottles DOT (1800)	Y	Y	Y	Y	Y	Y	
Protective Clothing	Y	Y	Y	Y	10:10	10:10	
SFI 3.2A/15; 3.2A/20; 3.2A/25; 3.2A/30 Driver's Suit							5 years, incl. year on tag
Roll Bar			Y	Y	C / 13.49	4:10	
Roll Cage	Y	Y	Y / 135 mph	4:11	4:11	4:11	
SFI Chassis Specification	Y	4:4 / 180 mph	4:4	4:4	4:4	4:4	
SFI 2.1; 2.2; 2.3P; 10.1; 10.5; 25.1 Full Body Chassis Spec; Pro Stock							1 year
SFI 2.4; 2.5; 2.6; 2.7; 10.2; 10.3; 10.4; 25.1 Adv. E.T.; 25.2; 25.3; 25.4; 25.5						3 years	
Supercharger Restraints (SFI 14.1; 14.2; 14.21; 14.3)	Y	1:11	1:11	1:11	1:11	1:11	2 years
Taillight	Y	Y	Y	Y	Y	Y	
Transmission Flexplate (SFI 29.1)	Y	Y	2:14	2:14	2:14	2:14	3 years
Transmission Locking-Type Dipstick	Y	Y	Y				
Transmission Reverse Lockout	Y	Y	Y	Y	Y	Y	
Transmission Shield (SFI 4.1)	Y	Y	Y	2:14	2:14	2:14	Rigid, 5 yrs.; Flexible, 2 yrs.
Window Net Full-Bodied Cars	Y	Y	6:3 / 10:3	6:3 / 10:3	6:3 / 10:3	6:3 / 10:3	

Thank you for being an NHRA Member. It is always our privilege to serve you. To renew or join, visit NHRARacer.com.

2017 NHRA E.T. QUICK REFERENCE CHART & SFI EXPIRATIONS

Y = Required • C = Convertibles • Numbers Refer to General Regulations • Years Refer to SFI Expirations • **In no way is this Quick Reference Chart intended to supersede or replace the current NHRA Rulebook (quarter-mile e.t.s)**

Unless otherwise noted in this E.T. Quick Reference Chart, refer to SFIFoundation.com for the latest version of all non-chassis specifications. Also, unless otherwise noted in this document, refer to TechConn.NHRA.com for the latest SFI chassis specification versions. Note: Only certified NHRA chassis inspectors and authorized NHRA officials have access to TechConn.NHRA.com. An item with an expiration period must be returned to the original manufacturer for inspection and recertification at the end of this period before it can be permitted for further use at an NHRA event.

Item	6.00 to 7.49	7.50 to 9.99	10.00 to 10.99	11.00 to 11.49	11.50 to 13.99	14.00 & Slower	Expiration
Aftermarket Rear Axles	Y	Y	Y	2:11	2:11	2:11	
Arm Restraints (Open-Bodied Cars)	Y	Y	Y	Y	10:3 / 11.99	10:3	
Bellhousing (SFI 6.1; 6.2)	Y	Y	Y	Y	2:10	2:10	
Driver Restraint System (SFI 16.1; 16.5)	Y	Y	Y / 10:5	Y / 10:5	C / 10:5	10:5 / 10:11	2 years
Driveshaft Loop	Y	Y	Y	Y	2:4	2:4	
Electric Vehicle 16.00 & Quicker	Y	Y	Y	Y	Y	2:4	
Flexplate Shield (SFI 30.1)	Y	Y	2:14	2:14	2:14	2:14	5 years
Flywheel/Clutch (SFI 1.1; 1.2)	Y	Y	Y	Y	2:5	2:5	2 years
SFI 1.1: Single-Disc Clutch & Flywheel Assembly, 1.2: Multi-Disc Clutch & Flywheel Assembly E.T. through Comp, PS							
Flywheel Shield (SFI 6.1; 6.2; 6.3; 9.1)	Y	Y	Y	Y	2:10	2:10	
SFI 6.1: Flywheel Shield, Spec 1.1 & 1.2 (2-Disc Max. or 3-Disc, 8-inch Diameter Max.)							5 years
SFI 6.2: Flywheel Shield, Spec 1.2, 1.3, 1.4 & 1.5 Clutch (Check with Manufacturer; May Be Only 1 Year)							2 years
Harmonic Balancer (SFI 18.1)	Y	Y	Y	Permitted	Permitted	Permitted	
Head & Neck Restraint Device/System (SFI 38.1)	Y	10:8 / 200 mph	10:8	10:8	10:8	10:8	5 years
Helmet	Y	Y	Y	Y	Y	10:7	
SFI 24.1/2010; 31.1/2010; 41.1/2010; Snell 2010							exp. 1/1/2022
SFI 24.1/2015; 31.1/2015; 41.1/2015; Snell 2015							exp. 1/1/2027
Liquid Overflow	Y	Y	Y	Y	Y	Y	

Handy Charts and Formulas

- **Cubic Inch Displacement**
  CID = bore x bore x stroke x 0.7854 x number of cylinders
- **Horsepower** = (RPM x torque)/5,252
- **Torque** = (5,252 x HP)/RPM
- **Valve Area** = valve diameter x valve diameter x .7854
- **Rod Ratio** = rod length/crank stroke length
- **Average Piston Speed** = crank stroke x RPM/6
- **Rear Gear Ratio** = (RPM at finish line x tire diameter)/(MPH x 336)
- **Volume (cc's) of deck clearance**
  = bore x bore x 12.87 x depth of deck clearance
- **Volume (cc's) of head gasket**
  = bore x bore x 12.87 x thickness of head gasket

Compression Ratio = $\dfrac{\text{comb chamber cc's + gasket cc's + deck CI cc's + (displacement x *2.0483)}}{\text{comb chamber cc's + gasket cc's + deck CI cc's}}$

** 2.0483 for 8-cyl. * 2.7311 for 6-cyl. * 4.0967 for 4-cyl.*

- **Circumference =** π x diameter
- **Area of circle =** π x radius^2
- **Volume of cylinder =** π x radius^2 x height

π = pi π = 3.1416 radius^2 = radius x radius

Weights:

Oil	1 gallon = 7.0 pounds	1 quart = 1.75 pounds
Gas	1 gallon = 6.2 pounds	1 quart = 1.55 pounds
Water	1 gallon = 8.4 pounds	1 quart = 2.10 pounds

Metric and Standard Conversion

The metric system is a decimal system of measurements used in scientific work for measuring length, weight, and volume. These basic units are modified with prefixes to express the units as larger or smaller quantities. Some of the common prefixes are:
Kilo: one thousand (1000)
Deci: one-tenth (0.1)
Centi: one-hundredth (0.01)
Milli: one-thousandth (0.001)
Micro: one-millionth (0.000001)

Length

1 kilometer (km) = 1,000 meters = 3,280.83 feet = .6215 mile
1 meter (m) = 100 centimeters = 39.37 inches = 1.09 yards
1 decimeter (dm) = 3.937 inches
1 centimeter (cm) = .3937-inch

1 mile = 1.609 kilometers	1 inch = 2.54 centimeters
1 yard = .91 meters	1 inch = 25.4 millimeters

Mass

1 kilogram (kg) = 1,000 grams (g) = 2.2045855 pounds
1 pound = 453.6 grams 1 ounce = 28.35 grams
1 gram = 1,000mg
kilograms x 2.20 = pounds pounds / 2.20 = kilos

Volume

1 liter (l) = 1,000 cubic centimeters (cc) = 61.025 cubic inches
1 cubic inch = 16.387 cubic centimeters