ATI Racing Products TH400

SFI-approved ATI "Super Case"

4340 input shaft with aluminum

Aluminum direct drum with 34

Extreme-duty clutches and

Blueprinted high-flow pump Deep aluminum pan

Reverse-manual valve body

Fluid overflow catch can

G-Force "G101A" 4-speed

Hyatt Racing Services/Mcleod

Mcleod SFI-Approved Aluminum

350 Supercharged

Helical low gear

ATI Racing Products TH400

Vasco intermediate shaft Heavy duty steel forward clutch

Heavy duty center support Vasco input shaft with

Severe-duty aluminum direct

Extreme-duty clutches and

Blueprinted high-flow pump

Reverse-manual valve body Fluid overflow catch can

steels - increased clutch

Deep aluminum pan

aluminum forward drum

SFI-approved ATI "Super Case"

530

8000

drum

drum

capacity

2.48

1.48

1.00

N/A

N/A

N/A

N/A

N/A

N/A

N/A

ATI Racing Products "Treemaster MRT" Series

8" diameter housing

turbine fins

SFI-approved

Reverse pattern

4.065" x 3.370"

10.9:1 nominal

Rods"

6.350

.927"

Dome

double-keyed stout

automatic

Furnace brazed impeller and

Precision pump drive tube

Investment cast cover

Steel ATI "Super Plate" -

Heavy duty needle bearings

Hurst "Quarterstick" — 3-speed

Chevrolet Performance LSX

cast-iron with steel main caps

Callies 4340 "Dragonslayer" —

Clevite "H-Series" heat-treated

tri-metal rod and main bearings

Mahle forged 2618 alloy

Mahle .043" x .043" x 3 mm

Ductile iron top with radius

Plain cast-iron tapered 2nd

Chrome-plated oil rails with

242° IN / 257° EX @ .050" lift

Graphal coating

Friction-coated skirts

molybdenum face

hydraulic roller

hydraulic roller

trunions

beehive

Performance LS7

.630" IN / .630" EX

Chevrolet Performance

"Ceramic Ball" high-rpm

3/8" diameter Chevrolet

1.8:1 ratio LS7 with roller

Incorporated (PSI) "Max Life"

Fully CNC'ed aluminum based

Performance Springs

Chevrolet Performance

Chevrolet Performance

Hardened steel

Lightweight steel

Del West titanium

Lightweight sodium-filled

Cometic multi-layer steel with

raised cylinder sealing bead

2.205" x 8 mm

1.615" x 8 mm

Internal wet sump

7 quarts

Fabricated Aluminum

ATI Performance Products

Chevrolet Performance LS3

Whipple Industries 2.9L twin-

Whipple Industries - Billet

American Racing Headers

2" x 30" primary with merge

Aeromotive "Eliminator" fuel

pump — free flow rating = 800

Aeromotive "A1000" pressure

Aeromotive 10-micron high-

Black anodized aluminum-8

High-impedance fuel injectors

(boost compensation used for supercharged engines)

80 lb/hr @ 43.5 psi with EV1

Strange Engineering 9310 alloy

Strange Engineering 35-spline

Manual: 4" OD x .065" wall

6061-T6 aluminum tube

Heavy-duty 1350 universal

Chromoly end caps

Billet steel slip yoke

Automatic: 4" OD x .125" wall

Strange Engineering 9"

Lightweight steel spool

Automatic: 4.10:1

Manual: N/A

steel tube

joints

Yes

Optional

Carbon Fiber

aluminum center section

AN hose ends and fittings

Fuel Pressure: 60 psi base

regulator with manifold

pressure compensation

Lightweight black nylon

braided-8 AN hoses

"Super Damper" w/10-rib

shell - SFI-approved

screw superchager

304 Stainless Steel

Aluminum

collectors

capability

flow filter

connector

axles

109mm

on LSX LS7

280 cc

95 cc 70 cc

low-tension expander

Comp Cams steel billet

Callies 4340 H-beam "Ultra

8000

ATI Racing Products TH400

Helical low gear

forward drum

element sprag

steels

2.48

1.48

1.00

3.17

1.87

1.33

1.00

adjustable 10.5"

ATI Racing Products

8" diameter housing

turbine fins

SFI-approved

Reverse pattern

Long V-Gate

aluminum

4.125" x 4.00"

13.0:1 nominal

"Compstar"

6.100"

.927"

Dome

automatic

"Treemaster MRT" Series

Furnace brazed impeller and

Precision pump drive tube

Investment cast cover

Steel ATI "Super Plate" -

Heavy duty needle bearings

Hurst "Quarterstick" — 3-speed

Built-in neutral safety switch

Chevrolet Performance LS7

Callies 5140 "Compstar"

Clevite "H-Series" heat-treated

tri-metal rod and main bearings

Mahle forged 2618 alloy

Graphal coating

Friction-coated skirts

molybdenum face

low-tension expander

billet hydraulic roller

.630" IN / .630" EX

hydraulic roller

trunions

beehive

on LS7

280 cc

95 cc

70 cc

3/8" diameter LS7

Chevrolet Performance

"Ceramic Ball" high-rpm

1.8:1 ratio LS7 with roller

Incorporated (PSI) "Max Life"

Fully CNC'ed aluminum based

Performance Springs

Chevrolet Performance

Chevrolet Performance

Hardened steel

Lightweight steel

Del West titanium

Lightweight sodium-filled

Fel-Pro Performance multi-

layer steel with raised cylinder

2.205" x 8 mm

1.615" x 8 mm

sealing bead

7 quarts

approved

"Hi Ram"

Aluminum

collectors

lb/hr

capability

flow filter

304 Stainless Steel

90mm

pump

Internal wet sump

Fabricated Aluminum

"Super Damper" - SFI

ATI Performance Products

Meziere Billet electric water

Whipple Industries - Billet

American Racing Headers

2" x 30" primary with merge

Aeromotive "Eliminator" fuel

pump — free flow rating = 800

Aeromotive "A1000" pressure

regulator with manifold

pressure compensation

Lightweight black nylon braided-8 AN hoses

Aeromotive 10-micron high-

Black anodized aluminum-8

High-impedance fuel injectors

AN hose ends and fittings

Fuel Pressure: 70 psi base

58 lb/hr @ 58 psi with

EV6/USCAR connector

Strange Engineering 9"

Lightweight steel spool

Automatic: 4.57:1

Manual: 5.00:1

steel tube

joints

Optional

axles

aluminum center section

Strange Engineering 9310 alloy

Strange Engineering 35-spline

Manual: 4" OD x .065" wall

6061-T6 aluminum tube

Heavy-duty 1350 universal

Base Fiberglass COPO

Chromoly end caps

Billet steel slip yoke

Automatic: 4" OD x .125" wall

Chevrolet Performance/Holley

Mahle .043" x .043" x 3 mm

Ductile iron top with radius

Plain cast-iron tapered 2nd

Chrome-plated oil rails with

Chevrolet Performance steel

233° IN / 276° EX @ .050" lift

Callies 4340 H-beam

SFI-approved ATI "Super Case"

4340 input shaft with aluminum

Aluminum direct drum with 34

Extreme-duty clutches and

Blueprinted high-flow pump

Reverse-manual valve body

Fluid overflow catch can

G-Force "G101A" 4-speed

Hyatt Racing Services/Mcleod

Mcleod SFI-Approved Aluminum

Deep aluminum pan

ATI Racing Products TH400

Helical low gear

forward drum

element sprag

steels

2.48

1.48

1.00

3.17

1.87

1.33

1.00

adjustable 10.5"

ATI Racing Products

8" diameter housing

turbine fins

SFI-approved

Reverse pattern

Long V-Gate

aluminum

Rods"

6.200"

.927"

Flat Top

Graphal coating

Friction-coated skirts

molybdenum face

low-tension expander

billet hydraulic roller

.595" IN / .595" EX

hydraulic roller

trunions

beehive

265 cc

88 cc

68 cc

3/8" diameter Trend

Chevrolet Performance

"Ceramic Ball" high-rpm

Performance chrome moly

1.7:1 ratio LS9 with roller

Incorporated (PSI) "Max Life"

Performance Springs

Chevrolet Performance

Chevrolet Performance

Aluminum based on LS3

Hardened steel

Lightweight steel

Hollow stem steel

Lightweight sodium-filled

Chevrolet Performance LS9

Deep-sump cast aluminum

ATI Performance Products

Meziere Billet electric water

Whipple Industries - Billet

American Racing Headers

2" x 30" primary with merge

Aeromotive "Eliminator" fuel

pump — free flow rating = 800

Aeromotive "A1000" pressure

Aeromotive 10-micron high-

Black anodized aluminum-8

High-impedance fuel injectors

AN hose ends and fittings

Fuel Pressure: 70 psi base

43 lb/hr @ 58 psi with

EV6/USCAR connector

Strange Engineering 9"

Lightweight steel spool

Automatic: 4.57:1

Manual: 5.29:1

steel tube

joints

Optional

2014 Features standard for 350, 396, 427 Naturally Aspirated and 350 Supercharged

axles

aluminum center section

Strange Engineering 9310 alloy

Strange Engineering 35-spline

Manual: 4" OD x .065" wall

6061-T6 aluminum tube

Heavy-duty 1350 universal

Holley "HP" electronic fuel injection processor

Intercooler Pump - 350 Supercharged equipped cars only

• Electronic water temp with 2.0625" face and 100°-260°F range

• Electronic oil pressure with 2.0625" face and 0-100 psi range • Electronic fuel pressure with 2.0625" face and 0-100 psi range

Front engine cradle modified to accept additional oil pan clearance

Production steering gear modified for manual (non-assist) operation

Double-adjustable Strange Engineering coil over shocks

Adjustable Strange Engineering coil over struts

OEM pedal modified to mount master cylinder All components provided by Strange Engineering

Rear - Auto trans: 9.0 / 30.0R - 15 94.0" Radial Rear - Manual trans: 9.0 / 30.0 - 15 94.0" Bias Ply

Electronic trans temp with 2.0625" face and 100°-260°F range - Automatic transmission

• Electronic brake pressure 2.0625" face and 0 - 1600 psi range - Manual transmission

Rear sub-frame modified to accept unique COPO NHRA Stock Eliminator suspension

Autometer with gold "Bowtie" logo on dials

Voltmeter with 2.0625" face and 8-18v range

RJS Safety Equipment 3" driver restraints RJS Safety Equipment window net

Chromoly cage - NHRA certified to 8.50 ET

• 5" 10K RPM tach with shift light

equipped cars only

equipped cars only

Sub-frames tied together

Anti-roll bar

Sway bar removed

 Forged outer ring • Billet center

Lightweight vented rotors

Billet 4-piston lightweight calipers Lightweight tandem master cylinder

• 15" x 9.75" rear – 5/8" studs • 3.875" Back Spacing • 15" x 4" front - 1/2" studs • 2.50" Back Spacing

• 4 3/4" bolt circle pattern Billet Construction

• 3.875" Back Spacing • 15" x 4" front - 1/2" studs • 2.50" Back Spacing • 4 3/4" bolt circle pattern

• 15" x 9.75" rear - 5/8" studs

Front – 4.5 / 28.0 - 15 Drag only

4-bar with adjustable top links Adjustable Panhard link

Base Fiberglass COPO

 Speed density operation • Wide-band O2 sensor included

Dash-installed control switches:

Cable-actuated throttle Production LS7 ignition coils Production LS7 secondary wires

GM sensors

 Starter Ignition Fuel pump Water pump Cooling fan

Chromoly end caps

Billet steel slip yoke

Automatic: 4" OD x .125" wall

regulator with manifold

pressure compensation

Lightweight black nylon

braided-8 AN hoses

304 Stainless Steel

Chevrolet Performance/Holley

"Super Damper" - SFI

multi-layer steel head gaskets

2.165" x 8 mm

1.590" x 8 mm

Internal wet sump

6 quarts

approved

pump

"Hi Ram"

Aluminum

collectors

capability

flow filter

90mm

4.065" x 3.825"

10.4:1 nominal

automatic

"Treemaster MRT" Series

Precision pump drive tube

Investment cast cover

Steel ATI "Super Plate" -

Heavy duty needle bearings

Hurst "Quarterstick" — 3-speed

Built-in neutral safety switch

Chevrolet Performance LS3

Callies 5140 "Compstar"

Callies 4340 H-beam "Ultra

Clevite "H-Series" heat-treated

tri-metal rod and main bearings

Mahle forged 4032 alloy

Mahle 1.5" x 1.5" x 3 mm

Ductile iron top with radius

Plain cast-iron tapered 2nd

Chrome-plated oil rails with

Chevrolet Performance steel

233° IN / 276° EX @ .050" lift

Furnace brazed impeller and

SFI-approved ATI "Super Case"

4340 input shaft with aluminum

Aluminum direct drum with 34

Extreme-duty clutches and

Blueprinted high-flow pump

Reverse-manual valve body

Fluid overflow catch can

G-Force "G101A" 4-speed

Hyatt Racing Services/Mcleod

Mcleod SFI-Approved Aluminum

Deep aluminum pan

CUPU SPECS & STATS P/N 20129562: 2014/2015 Features		
2014/2015 FEATURES	350 Naturally Aspirated	396 Naturally Aspirate
NHRA HORSEPOWER RATINGS	350	390
RECOMMENDED MAX ENGINE RPM	8000	8000

Helical low gear

forward drum

element sprag

steels

2.48

1.48

1.00

3.17

1.87

1.33

1.00

adjustable 10.5"

ATI Racing Products

8" diameter housing

turbine fins

SFI-approved

Reverse pattern

Long V-Gate

aluminum

Rods"

6.350

.927"

Dome

4.125" x 3.270"

10.6:1 nominal

automatic

"Treemaster MRT" Series

Precision pump drive tube

Investment cast cover

Steel ATI "Super Plate" -

Heavy duty needle bearings

Hurst "Quarterstick" — 3-speed

Built-in neutral safety switch

Chevrolet Performance LS7

Callies 4340 "Dragonslayer"

Callies 4340 H-beam "Ultra

Clevite "H-Series" heat-treated

tri-metal rod and main bearings

Mahle forged 2618 alloy

Mahle .043" x .043" x 3 mm

Ductile iron top with radius

Plain cast-iron tapered 2nd

Chrome-plated oil rails with

Chevrolet Performance steel

226° IN / 236° EX @ .050" lift

Graphal coating

Friction-coated skirts

molybdenum face

low-tension expander

billet hydraulic roller

.525" IN / .525" EX

hydraulic roller

trunions

beehive

265 cc

88 cc

68 cc

3/8" diameter Trend

Chevrolet Performance

"Ceramic Ball" high-rpm

Performance chrome moly

1.7:1 ratio LS9 with roller

Incorporated (PSI) "Max Life"

Performance Springs

Chevrolet Performance

Chevrolet Performance

Aluminum based on LS3

Hardened steel

Lightweight steel

Hollow stem steel

Lightweight sodium-filled

Chevrolet Performance LS7

Deep-sump cast aluminum

ATI Performance Products

Meziere Billet electric water

Whipple Industries - Billet

American Racing Headers

304 Stainless Steel

2" x 30" primary with merge

Aeromotive "Eliminator" fuel

pump — free flow rating = 800

Aeromotive "A1000" pressure

Aeromotive 10-micron high-

Black anodized aluminum-8

High-impedance fuel injectors

AN hose ends and fittings

Fuel Pressure: 70 psi base

43 lb/hr @ 58 psi with

EV6/USCAR connector

Strange Engineering 9"

Lightweight steel spool

Automatic: 4.86:1

Manual: 5.43:1

steel tube

joints

Optional

axles

aluminum center section

Strange Engineering 9310 alloy

Strange Engineering 35-spline

Manual: 4" OD x .065" wall

6061-T6 aluminum tube

Heavy-duty 1350 universal

Base Fiberglass COPO

Chromoly end caps

Billet steel slip yoke

Automatic: 4" OD x .125" wall

regulator with manifold

pressure compensation

Lightweight black nylon

braided-8 AN hoses

Chevrolet Performance/Holley

"Super Damper" - SFI

multi-layer steel head gaskets

2.165" x 8 mm

exhaust valves

1.590" x 8 mm

Internal wet sump

6 quarts

approved

pump

"Hi Ram"

Aluminum

collectors

capability

flow filter

90mm

Furnace brazed impeller and

TRANSMISSION: Automatic

Gear ratios:

Gear ratios:

TRANSMISSION: Manual

Flywheel - Manual only

TORQUE CONVERTER

Flex Plate - Automatic only

SHIFTER: Automatic

SHIFTER: Manual

ENGINE

Bore, Stroke

Crankshaft

Static Compression Ratio

Block

Rods

Length

Bearings

Pistons

Piston Type

Piston Rings

Camshaft

Duration

Tappets

Pushrods

Rocker Arms

Valve Springs

Spring Seats

Cylinder Heads

Intake Valves

Exhaust Valves

Head Gaskets

Oil Pump

Oil Pan

Capacity

Damper

Water Pump

Throttle Body

Blade Size

HEADERS

FUEL SYSTEM

Flow Rate

Gears & Axles

Differential Gearing

Drive Shaft

Hood

Parachute

Wheelie Bar

ELECTRICAL

GAUGES

SAFETY

CHASSIS

STEERING

BRAKES

WHEELS

TIRES

REAR SUSPENSION

FRONT SUSPENSION

Bogart Racing light-weight with unique COPO logo

Weld light weight with unique COPO logo

ENGINE CONTROLS & IGNITION

Intake Manifold/Induction

Nominal Intake Port Volume

Nominal Exhaust Port Volume

Head Diameter, Stem Diameter

Head Diameter, Stem Diameter

Nominal Combustion Chamber Volume

Retainers

Theoretical valve lift

VALVETRAIN

Pin Bore Diameter

(AUTOMATIC ONLY)

1st

2nd

3rd

1st

2nd 3rd

4th

Clutch