

CATALOG 2015



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ABOUT US

Works Engineering today has its root back in the late '90s when a group of professionals with background in engineering and mechanics came together to work on various project cars and race teams. The foundation was laid and today we have established ourselves as the leading performance parts manufacturer and supplier in the region. Tradition-consciousness to provide good and fair prices while maintaining the highest quality, together with progressive thinking has shaped the company's vision.

Our products today came from our own in-house technical research & development center. Works Engineering products are developed and manufactured to the highest level of quality with exhaustive tests to ensure reliability and durability. Through our innovative methods and consistently upgrading our manufacturing facilities, we are able to constantly improve on existing products and still offer outstanding prices for our new products to our customers.

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MOTOR OIL

HIGH PERFORMANCE SYNTHETIC SAE 5W - 40 EURO TUNE & HIGH PERFORMANCE SYNTHETIC SAE 5W - 40 1 HIGH PERFORMANCE SEMI SYNTHETIC SAE 10W - 40 & HIGH PERFORMANCE SYNTHETIC SAE 20W - 50 & 2 RACING OIL STABILIZER

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LUCAS OIL

PURE SYNTHETIC OIL STABILIZER & HEAVY DUTY OIL STABILIZER72TRANSMISSION FIX, OCTANE BOOSTER & SYNTHETIC SAE 75W-90 & 75W - 140 GEAR OIL73SEMI SYNTHETIC SAE 10W - 40 MOTOR OIL, HIGH PERFORMANCE SYNTHETIC SAE 5W-40 &74HIGH PERFORMANCE SYNTHETIC SAE 20W-5054SAE 30 WT PLUS RACING OIL, SAE 50 WT PLUS RACING OIL, FUEL TREATMENT & ENGINE OIL STOP LEAK75POWER STEERING STOP LEAK, LUCAS DEEP CLEAN & DISPLAY SETS76



HIGH PERFORMANCE SYNTHETIC SAE SW-40 EUROTUNE

Description

Works High Performance Synthetic SAE 5W-40 Euro Tune is a fully synthetic formulation that uses PAO base oils to provide stable, long-lasting protection and fuel economy for the car.

Meeting a myriad of car manufacturer standards, it is designed specifically for European vehicles, and is especially suitable for cars fitted with turbocharged engines with Exhaust Gas Recirculation (EGR), and Diesel Particulate Filter (DPF).

This product meets or exceeds:

- APISN/CF
- ACEA C3-08
- + ACEA A3 / B3-08, A3 / B4-08
- BMW LL-01, LL-04
- MB 229.31 / 229.51
- VW 502 00 / 505 00

Description



HIGH PERFORMANCE SYNTHETIC SAE SW-40

Works High Performance Synthetic SAE 5W-40 is a fully synthetic formulation that brings the benefits of PAO to Asian cars. Using PAO in its formulation increases its shear-stress resistance, raising the durability of the oil.

It also meets ILSAC's latest GF-5 standards, providing your car with improvements to fuel economy, better protection and a cleaner engine.

This product meets or exceeds: • API SN / CF • ACEA GF-5



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HIGH PERFORMANCE SEMI SYNTHETIC SAE 10W-40

Description

Works High Performance Semi-Synthetic 10W-40 is a synthetic performance multi-grade engine oil designed for use with modern engines. Its oxidation resistance and low volatility extends oil drainage intervals.

It also meets ILSAC's latest GF-5 standards, providing your car with improvements to fuel economy, better protection and a cleaner engine.

This product meets or exceeds:

API SN / CF
 ILSAC GF-5

Description



HIGH PERFORMANCE SYNTHETIC SAE 20W-50

This excellent product provides the consistent viscosity needed for precision ET racing. It also stands up to heat and fuel dilution for the longevity required by circle track and off-road racers. Works High Performance Semi-Synthetic 20w-50 is a formulation of only the finest synthetic base oils plus an exclusive additive package that includes lubricity agents and anti-seize agents that control drag like a zero weight oil and protect like a heavy multi-viscosity oil.

It's the perfect non-foaming lubricant for high RPM performance engines, including motorcycle engines. It's also excellent for normal highway use. Very long lasting.

RACING OIL STABILIZER

Description

Use in new equipment which requires lubricants or any equipment that needs enhanced performance. It can also be used to protect new and used Heavy Duty and High Performance transmissions, gear boxes and engines. Controls heat and wear in motorcycles, air-cooled engines and all drive train components. Reduces friction for increased power and MPG.

Key Benefits

- Increase oil life by at least 50%
- Reduces oil consumption
- Eliminates dry starts
- Raises oil pressure
- Increases power and MPG





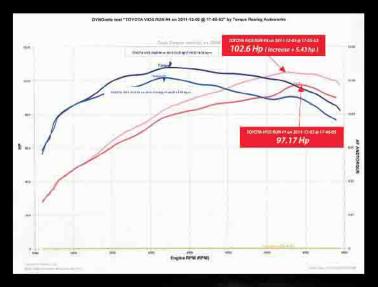
Application List

WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-022 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-010 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-018 HONDA JAZZ 1.3 / 1.5 '03-'01 WS-OH-018 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA CRV 2.0 L4 '07-'10 WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OH-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OH-009 KIA PICANTO 1.0 / 1.1 '04-'09 VS-OH-001 WS-OHY-010 HYUNDAI SON	Part No.	Description of Goods (Replacement Air Filter)					
WS-OA-003 AUDI A4 / A5 / Q5 1.8 / 2.0 L4 '07-'10 BMW WS-OB-002 BMW 318 / Z3 1.8 - 1.9 E36 8/16V WS-OB-003 BMW 325 / 328 / E36 / E39 / E46 / M3 L6 WS-OB-004 BMW E90 / 320 L4 (ROUND TYPE) HONDA E90 / 320 L4 (ROUND TYPE) HONDA CIVIC 1.5 / 1.6 EG WS-OH-002 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-103 HONDA CIVIC FD 2.0 '06-ON WS-OH-104 HONDA CIVIC FD 2.0 '06-ON WS-OH-002 HONDA CIVIC FD 2.0 '06-ON WS-OH-106 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-008 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-020 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-030 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-0400 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-031 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-040 HONDA CITY 1.5 '93-'01 WS-OH-031 <td< th=""><th>AUDI</th><th colspan="4"></th></td<>	AUDI						
BMW Start WS-OB-002 BMW 318 / Z3 1.8 - 1.9 E36 8/16V WS-OB-003 BMW 325 / 328 / E36 / E39 / E46 / M3 L6 WS-OB-004 BMW E90 / 320 L4 (ROUND TYPE) HONDA WS-OH-001 HONDA WS-OH-002 HONDA CIVIC 1.5 / 1.6 EG WS-OH-003 HONDA CIVIC 1.7 FERIO WS-OH-016 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-022 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-038 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-0408 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-022 HONDA ACCORD 3.0 '12-'0N WS-OH-039 HONDA ACCORD 2.0 '2.4 '03-'07 WS-OH-0409 HONDA ACCORD 2.0 '2.4 '03-'07 WS-OH-009 HONDA ACCORD 2.0 '1.4 '01-'08 / 1.5 '05-'06 WS-OH-100 HONDA JAZZ 1.1 '1.3 '1.5 '08-'0N / CITY '08-'07 WS-OH-006 HONDA JAZZ 1.7 '1.1 '1.3 '1.5 '08-'0N / CITY '08-'07 WS-OH-012 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / in '10-'05 / in '10 WS-OFR-005	WS-OA-001	AUDI	A4 / S4 / RS4 B6-B7 L4 / V8 '00-'08				
WS-OB-002 BMW 318 / Z3 1.8 - 1.9 E36 8/16V WS-OB-003 BMW 325 / 328 / E36 / E39 / E46 / M3 L6 WS-OB-004 BMW E90 / 320 L4 (ROUND TYPE) HONDA	WS-OA-003	AUDI	A4 / A5 / Q5 1.8 / 2.0 L4 '07-'10				
WS-OB-003 BMW 322/328/E36/E39/E46/M3L6 WS-OB-004 BMW E90/320L4 (ROUND TYPE) HONDA CIVC 1.5/1.6 EG WS-OH-001 HONDA CIVC 1.5/1.6 EG WS-OH-002 HONDA CIVIC 1.5/1.6 EK WS-OH-003 HONDA CIVIC 1.7 FERIO WS-OH-015 HONDA CIVIC FD 2.0 '06-ON WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-022 HONDA ACCORD 2.0 /2.4 '03-'07 WS-OH-038 HONDA ACCORD 2.0 /2.4 '03-'07 WS-OH-0409 HONDA ACCORD 2.0 /2.4 '03-'07 WS-OH-020 HONDA ACCORD 2.0 '2.4 '03-'07 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-020 HONDA JAZZ 1.3 '1.5 '03-'07 WS-OH-010 HONDA JAZZ 1.3 '1.5 '03-'07 WS-OH-010 HONDA JAZZ 1.3 '1.5 '03-'07 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OF-013 FORD CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE)<	BMW						
WS-OB-004 BMW E90 / 320 L4 (ROUND TYPE) HONDA WS-OH-001 HONDA CIVC 1.5 / 1.6 EG WS-OH-002 HONDA CIVIC 1.5 / 1.6 EK/EJ WS-OH-003 HONDA CIVIC T.5 / 1.6 EK/EJ WS-OH-015 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-016 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-016 HONDA ACCORD 2.0 '06-ON WS-OH-0108 HONDA ACCORD 2.0 '06-ON WS-OH-0109 HONDA ACCORD 2.0 '06-ON WS-OH-019 HONDA ACCORD 2.0 '08-'10 WS-OH-020 HONDA ACCORD 2.0 '2.4 '03-'07 WS-OH-010 HONDA ACCORD 3.5 '08-'10 WS-OH-010 HONDA JAZZ 1.2 '12.0'2.'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 '1.5 '03-07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 '08-'00 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OFR-005 HONDA CRV 2.0 L4 '02-'06 / STREAM 2.0 '01-'05 / III 'III 'SOROHO TYPE)	WS-OB-002	BMW	318 / Z3 1.8 - 1.9 E36 8/16V				
HONDA Instrume Science	WS-OB-003	BMW	325 / 328 / E36 / E39 / E46 / M3 L6				
WS-OH-001 HONDA CIVC 1.5 / 1.6 EG WS-OH-002 HONDA CIVIC 1.5 / 1.6 EK/EJ WS-OH-003 HONDA CIVIC 1.7 FERIO WS-OH-015 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-022 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.0 '0.4 '03-'07 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-007 HONDA ACCORD 3.5 '08-'10 WS-OH-007 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.1 '1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-012 HONDA GUY 2.0 '2.4 '02-'06 / STREAM 2.0 '01-'05 / instream 2.0 '01-'05 / instr	WS-OB-004	BMW	E90 / 320 L4 (ROUND TYPE)				
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WS-OH-003 HONDA CIVIC 1.7 FERIO WS-OH-015 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-022 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.4 '03-'10 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-007 HONDA JAZZ 1.3 ' 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'01 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-013 HONDA CITY 1.5 '93-'01 WS-OH-014 HONDA CRV 2.0 (2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OH-007 KIA CERATO FORTE 1.6 / 2.0L L4 F./ '10-ON WS-OH-007 KIA CERATO F	WS-OH-001	HONDA	CIVC 1.5 / 1.6 EG				
WS-OH-015 HONDA CIVIC FD 1.8 '06 / STREAM WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-022 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.1 '08 '10 WS-OH-020 HONDA ACCORD 3.5 '08 '10 WS-OH-007 HONDA ACCORD 3.5 '08 '10 WS-OH-010 HONDA JAZZ 1.2 '02 '08 / 1.4 '01 '08 / 1.5 '05 '06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03 '07 / CITY '03 '07 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '03 '07 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 '08-'06 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 '08-'01 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-013 HONDA CRV 2.0 L4 '07 '10 WS-OFR-005 HONDA CRV 2.0 / 2.4 '02 '06 / STREAM 2.0 '01 '05 / INTEGRA 2.0 '10 '05 / INTEGRA 2.0 '10 '11 '05 / CROUND TYPE) FORD WS-OFR-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON	WS-OH-002	HONDA	CIVIC 1.5 / 1.6 EK/EJ				
WS-OH-016 HONDA CIVIC FD 2.0 '06-ON WS-OH-022 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-010 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-018 HONDA JAZZ 1.3 / 1.5 '03-'01 WS-OH-010 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA ODYSSEY 2.4 '04-ON WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6	WS-OH-003	HONDA	CIVIC 1.7 FERIO				
WS-OH-022 HONDA CIVIC FB 1.8 / 2.0 '12-ON WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.4 '08-'10 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-020 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-011 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OFR-005 HONDA CRV 2.0 L4 '07-'10 WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-007 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 /	WS-OH-015	HONDA	CIVIC FD 1.8 '06 / STREAM				
WS-OH-008 HONDA ACCORD 3.0 V6 '03-'07 WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.4 '08-'10 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-020 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '03-'07 WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '08 WS-OH-019 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6 L L4 '09-'11 KIA / HYUNDAI WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0 L L4 F/I '10-ON WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11	WS-OH-016	HONDA	CIVIC FD 2.0 '06-ON				
WS-OH-009 HONDA ACCORD 2.0 / 2.4 '03-'07 WS-OH-019 HONDA ACCORD 2.4 '08-'10 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-020 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '03-'07 WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '08 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '08 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.3 '04-ON / MAZDA 3 1.6 '04-'10	WS-OH-022	HONDA	CIVIC FB 1.8 / 2.0 '12-ON				
WS-OH-019 HONDA ACCORD 2.4 '08-'10 WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-007 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-010 HONDA JAZZ / FIT 1.3 / 1.5 '08-'0N / CITY '03-'07 WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 '08-'0N / CITY '08 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA CRV 2.0 L4 '04-'ON WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFR-005 HONDA FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-'ON WS-OHY-007 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA MAZDA MAZDA 3 2.0 / 2.3 '04-'ON / MAZDA 3 1.6 '04-'10	WS-OH-008	HONDA	ACCORD 3.0 V6 '03-'07				
WS-OH-020 HONDA ACCORD 3.5 '08-'10 WS-OH-007 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '03-'07 WS-OH-018 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA CITY 1.5 '93-'01 WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD VS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10 - '11 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA MAZDA MAZDA 2 1.3 / 1.5 '07 -'10 / MAZDA 3 1.6 '04 -'10 WS-OMA-003 MAZDA MAZDA 2 1.3 / 1.5 '07 -'10 / MAZDA 5 2.0 16V '05 -'10 MTSUBISHI WS-OMA-002 MAZDA MAZDA 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05 -'1	WS-OH-009	HONDA	ACCORD 2.0 / 2.4 '03-'07				
WS-OH-007 HONDA JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06 WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 '08-'0N / CITY '08 WS-OH-018 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA ODYSSEY 2.4 '04-ON WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD VS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10 - '11 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10 - '11 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA MAZDA MAZDA 2 1.3 / 1.5 '07 -'10 / MAZDA 3 1.6 '04 -'10 WS-OMA-003 MAZDA MAZDA 2 1.3 / 1.5 '07 -'10 / MAZDA 5 2.0 16V '05 -'10 MTSUBISHI WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-002	WS-OH-019	HONDA	ACCORD 2.4 '08-'10				
WS-OH-010 HONDA JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07 WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '08 WS-OH-006 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA OYSSEY 2.4 '04-ON WS-OH-017 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OHY-007 KIA VS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OHY-007 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'1 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'1 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 5 2.0 16V '05-'10 MTSUBISHI WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-002 MITSUBISHI LANCER GT 2.0 MIRCEDES BENZ	WS-OH-020	HONDA	ACCORD 3.5 '08-'10				
WS-OH-018 HONDA JAZZ / FIT 1.3 / 1.5 08-ON / CITY '08 WS-OH-006 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA ODYSSEY 2.4 '04-ON WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OFR-005 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'1'1 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 2.0 16V '05-'10 MTSUBISHI WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-003 MITSUBISHI LANCER GT 2.0 MITSUBISHI CANCER GT 2.0 WS-OM-009 MITSUBISHI LANCER GT 2.0 MIRCEDES BENZ MITSUBISHI	WS-OH-007	HONDA	JAZZ 1.2 '02-'08 / 1.4 '01-'08 / 1.5 '05-'06				
WS-OH-006 HONDA CITY 1.5 '93-'01 WS-OH-012 HONDA ODYSSEY 2.4 '04-ON WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OFR-005 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-' ¹ 1 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-' ¹ 1 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 5 2.0 16V '05-'10 MITSUBISHI WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-002 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ	WS-OH-010	HONDA	JAZZ 1.3 / 1.5 '03-'07 / CITY '03-'07				
WS-OH-012 HONDA ODYSSEY 2.4 '04-ON WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OFR-005 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-' ¹ 1 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-' ¹ 1 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA WAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 5 2.0 16V '05-'10 MITSUBISHI US-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-003 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ MERCEDES BENZ	WS-OH-018	HONDA	JAZZ / FIT 1.3 / 1.5 08-ON / CITY '08				
WS-OH-017 HONDA CRV 2.0 L4 '07-'10 WS-OFR-005 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 5 2.0 16V '05-'10 MITSUBISHI US-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-009 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ	WS-OH-006	HONDA	CITY 1.5 '93-'01				
WS-OFR-005 HONDA CRV 2.0 / 2.4 '02-'06 / STREAM 2.0 '01-'05 / INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI VS-OFO-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OFY-007 KIA PICANTO 1.0 / 1.1 '04-'09 VS-OHY-010 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4 L'10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 5 2.0 16V '05-'10 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-002 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI LANCER GT 2.0	WS-OH-012	HONDA	ODYSSEY 2.4 '04-ON				
INTEGRA 2.0 TYPE R '01-'05 (ROUND TYPE) FORD WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI WS-OFO-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/l '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-009 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI LANCER GT 2.0	WS-OH-017	HONDA	CRV 2.0 L4 '07-'10				
WS-OFO-013 FORD FIESTA VI 1.6L L4 '09-'11 KIA / HYUNDAI KIA CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON WS-OHY-007 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-011 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-007 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ MARCEN ET 2.0	WS-OFR-005	HONDA					
KIA / HYUNDAI WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/l '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-011 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-011 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI US-OM-002 MITSUBISHI WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-009 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI LANCER GT 2.0	FORD						
WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/l '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-011 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI US-OM-002 MITSUBISHI WS-OM-003 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ MARCEN GT 2.0 MARCEN GT 2.0	WS-OFO-013	FORD	FIESTA VI 1.6L L4 '09-'11				
WS-OHY-007 KIA CERATO FORTE 1.6 / 2.0L L4 F/l '10-ON WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-011 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI US-OM-002 MITSUBISHI WS-OM-003 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ MARCEN GT 2.0 MARCEN GT 2.0	KIA / HYUNDAI						
WS-OT-009 KIA PICANTO 1.0 / 1.1 '04-'09 WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-'11 WS-OHY-011 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI WS-OM-002 MITSUBISHI WS-OM-003 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-007 MITSUBISHI TRITON '07-ON WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ HITSUBISHI LANCER GT 2.0	WS-OHY-007	KIA	CERATO FORTE 1.6 / 2.0L L4 F/I '10-ON				
WS-OHY-010 HYUNDAI SONATA 2.0 / 2.4L '10 - '11 / SANTA FE 2.4 / 3.5 V6 '10-' ¹ 1 WS-OHY-011 HYUNDAI ELANTRA 1.8L '11 MAZDA WS-OMA-003 MAZDA WS-OMA-002 MAZDA MAZDA 2 1.3 / 1.5 '07-'10 / MAZDA 3 1.6 '04-'10 WS-OMA-002 MAZDA MAZDA 3 2.0 / 2.3 '04-ON / MAZDA 5 2.0 16V '05-'10 MITSUBISHI WS-OM-002 MITSUBISHI LANCER 1.6 / 1.8 / 2.0 / AIRTREK / EVO 4-8 '97-ON WS-OM-007 MITSUBISHI TRITON '07-ON MISUBISHI LANCER GT 2.0 MERCEDES BENZ	WS-OT-009	KIA					
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WS-OM-009 MITSUBISHI LANCER GT 2.0 MERCEDES BENZ							
MERCEDES BENZ							
	WS-OMB-003	MERCEDES	C160/180/200/230 & E200 L4 '02-'10				

Special PRO Design:

Guarantee horsepower increase & better response

Stainless-steel / Non-woven high flow replacement air filter is its renowned racing air filter element, made of special stainless steel, with a unique EPDM frame and is one-piece extrusion molded, using the most advanced technology. The stainless-steel mesh features 200 x 200 meshes, and is corrugated to form air induction wall with depth of 18-25mm, ensuring a huge sucked air volume from outside quickly and effectively. It increases surface area to promote air flow, and as a result, can increase engine horsepower by 7%.



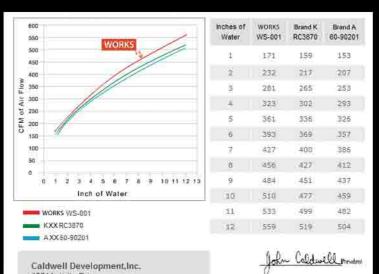
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REPLACEMENT AIR FILTER

Application List

Part No.	Description of Goods (R	leplacement Air Filter)
NISSAN		
WS-ON-001	NISSAN	SKYLINE / FAIRLADY / SENTRA / CEFIRO / XTRAIL
WS-ON-004	NISSAN	LATIO 1.5 / 1.6 / GRAND LIVINA 1.8
WS-ON-GTR	NISSAN	SKYLINE GTR R35 (2PCS SET)
PERODUA		
WS-OPE-001	PERODUA	MYVI 1.0 / VIVA
WS-OPE-002	DAIHATSU / PERODUA	BOON / SIRION / MYVI 1.3 / ALZA 1.5
WS-OPE-003	DAIHATSU / PERODUA	MOVE 1.0 / KENARI 1.0 / KELISA 1.0
PROTON		
WS-OM-009	MITSUBISHI / PROTON	LANCER FORTIS 1.8 / 2.0 '08-'10 / LANCER EVOLUTION 2.0
		'08-'10 / INSPIRA 1.8 / 2.0 '10-ON
WS-OM-001	MITSUBISHI / PROTON	COLT / LANCER 1.6 / 1.8 '92-'96 / WAJA 1.6 / SATRIA &
		WIRA 1.6 / 1.8 L4 F/I
WS-OPR-001	PROTON	PERDANA V6 2.0 / PERDANA 2.0 L4
WS-OPR-002	PROTON	GEN-2 1.3 / 1.6 / SATRIA NEO & NEO CPS 1.6 / WAJA CPS
WS-OPR-004	PROTON	SAGA BLM 1.3 '08-ON / PERSONA 1.6
WS-OPR-005	PROTON	SAVVY 1.2 07-ON
WS-OPR-007	PROTON	Preve 1.6 CFE '12-ON
SUZUKI		
WS-OS-004	SUZUKI	SWIFT 1.5 / 1.6 '04-ON
SUBARU		
WS-ON-001	SUBARU	IMPREZA / IMPREZA WRX STI / FORESTER / LEGACY
TOYOTA / LEXU	JS	9 2
WS-OT-003	TOYOTA	COROLLA 1.6 '93-'02 / 1.8 '93-'01
WS-OT-004	TOYOTA	WISH 1.8 / 2.0 '03 / CAMRY '01-'02 / ALTIS '02 CALDINA '02 N
WS-OT-007	TOYOTA	CAMRY 2.0 / 3.0 '03-'05 / CALDINA GT TURBO / ALPHARD &
		ESTIMA 3.0 V6 '01 / HARRIER 2.4 '02
WS-OT-015	TOYOTA	CAMRY 2.0 / 2.4 L4 '06-'10
WS-OT-017	TOYOTA	CAMRY 3.5 V6 '07-'10 & RAV 4 2.0 / 2.4 / 3.5 '06-'10
WS-OT-009	TOYOTA	VIOS 1.5 '03-'06
WS-OT-013	TOYOTA	VIOS 1.5 '07-ON / ALTIS 1.6 / 1.8 07-ON / YARIS
WS-OD-002	TOYOTA	AVANZA 1.3 / 1.5 & CELICA GT 1.8 '00-'05
WS-OT-014	TOYOTA	HILUX 2.5 / 3.0 / INNOVA 2.0 (ROUND TYPE)
WS-OT-016	TOYOTA	MARK X
WS-OT-016	LEXUS	IS220 / 250 / 350 & GS350 / 430
VOLKSWAGON		
WS-OV-001	VW	SCIROCCO 1.4 / GOLF VI 1.4 / PASSAT / JETTA / MK VI GTI
WS-OV-017	VW	GOLF V / SCIROCCO 2.0GTI L4 (early model)





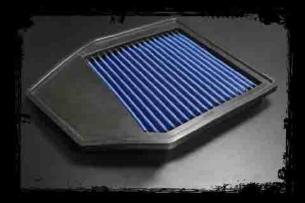
Caldwell Development,Inc. 1271Activity Drive Vista, CA22083 Phone: (760)599-8020 / Fax: (760)599-8022

Test Note Te



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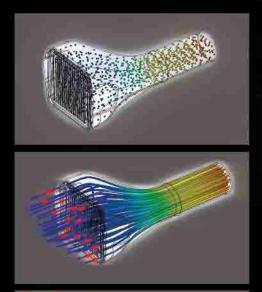
AIR 04

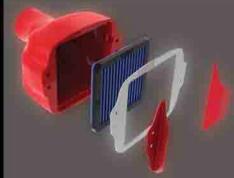
PRO-INDUCTION

- Description
- Improved Power Gains
- Improved Throttle Response
- Enhanced Engine Sound
- Washable/Reusable Air Filter
- Incredibly Easy to Clean

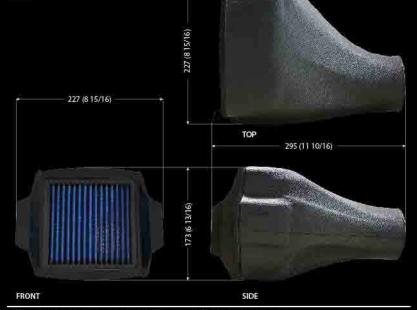
To decrease air intake resistance and temperature, inhaling more air through air intake improves combustion efficiency, which leads to a power increase. Temperature can be a burden when it comes to sending as much fresh air as possible into cylinders. "PRO INDUCTION" whole inlet position is optimized as replacement for stock intake system.

PRO INDUCTION is a high performance intake with a stainless steel mesh / non-woven fabric employed as a core part of the filter. Due to the low density non-woven material, the flow resistance of the filter itself decreases by 50%.









WORKS ENGINEERING AIR INTAKE KIT - DIMENSION IN MM (INCHES)

Description

PRO DRG INTAKE KIT

Universal Air Intake System. Available for pipe inlets sizes 65/70/77/80/85mm. EGR Valve Design. Inverted vector cone increases air flow to engine. Increase volumetric efficiency, increase power and performance. Easy to install.





Ideal for competition use where good mid-range and low end torque will be required. It is the ULTIMATE naturally aspirated engine modification, gives highest power as well as best throttle response you can have. A adjustable valve kit to control the supply of air during idling to multiple throttle bodies or any multiple port manifold with suitable tappings. Part of a Individual Throttle Body kit and Suitable for 4 or 6 cylinder engines.

Product Description

- Complete kit : all that is required is a standalone ECU (also offered)
- Installation by a professional is recommended
- Beautiful finish. Made from high quality aluminium
- Maximize the full potential of your Naturally Aspirated engine
- Makes a very aggressive engine sound and throttle response

TWIN AIR CHARGER



An effective yet simple device. Utilizing the latest ball bearing technology, Works Engineering air charger device increases charge air into your combustion chamber, allowing better air / fuel mixture hence better combustion. Dyno tested and proven to increase bhp. Fits all cars, but most effective on force induction and auto transmission cars.



W-T-AIRCHARGER





POWER PLUS THROTTLE BODY

Description

Works Power-Plus Throttle Body increases horsepower and torque by optimizing airflow to your engine. On forced induction application, this quick bolt-on has shown gains up to 20-50hp. On high-output naturally aspirated engines, we have seen gains of up to 10+hp. Our larger bore throttle bodies are capable of flowing enough air to support over 500hp.

Works Power-Plus Throttle Bodies are precision CNC-machined from forged AL6061-T6 billet aluminium; vacuum-tested and hard anodized for increased durability.



Part No.	Description		
W-TB-HB1618	Honda B16 - 20, H22 and B18C - 70mm		
W-TB-GDB	Subaru Version 7 and 8 including STI - 70mm		
W-TB-ME13 / 4G93	Mitsubishi EVO 1 - 3 / 4G93 / 4G93T / 4G92 / Mivec - 70mm		
W-TB-ME78	Mitsubishi EVO 4 - 6, Mitsubishi EVO 7 - 8, Mitsubishi EVO 9 - 70mm		
W-TB-NS1415	Nissan Silvia S14/15 SR20 - 70mm		
W-TB-ME13 / 4G93	Proton Campro S4PH / S4PE / CPS - 70mm		
W-TB-Q45	Pro Q45 - 85mm / 74 mm		





PRO Q45 Throttle Body (85mm)

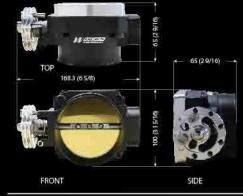
New 85mm Works Pro Q45 Throttle body (3 in 1 Throttle Position Sensor - For Honda, mitsubishi and Subaru Sensor). This newly designed and built to fit Heavy mod engine. Made of 7075-T7 aluminium for the best quality and throttle plate made of copper for the best reliability. Comes with universal bracket to fit various vehicle.

Nisson SR20 plug & play adaptor are also available (sold separately

PRO Q45 { 85mm }



Description



WORKS ENGINEERING PRO Q45 THROTTLE BODY (85MM) -DIMENSION IN MM (INCHES)

1/ and

TRUTTER



Proton Campro S4PH

Throttle Body with Tapered Angle Intake Adaptor Size - 70-64mm / 70-62mm / 70-60mm



Larger injector upgrades may not be able to fit onto many factory fuel rails, we offer our Works Engineering performance fuel delivery rail kits for your high performance vehicles. Upgrading to a performance fuel delivery pipe expands injector sizing options for your vehicle as well as reliable fuel delivery. Works Engineering Fuel Rail Kits are high-performance fuel delivery units that are designed to properly supply the additional fuel needed for high boost/performance applications.

All fuel rails are made from CNC billet aluminium, large non-restrictive bore maintains maximum pressure and fuel volume at each injector therefore decreasing the chance of fuel cavitations. They are direct bolt-on replacements of factory fuel rails for specific vehicle applications and allow for larger top-feed injectors to be added. All kits come with all necessary fittings, block off plates and grommets for ease of installation.

Note : Intended for Racing or Fast Street usage only. To be installed by trained professional only. Please ensure all fittings are properly secured and tested.

Part No.	Description	
W-FR-4B11	Mitsubishi 4B11 EVO 10	
W-FR-4G63	Mitsubishi 4G63 EVO 4 / 5 / 6 / 7 / 8	
W-FR-VR4	Mitsubishi 4G63 EVO 1 - 3 & VR4	
W-FR-4G93	Mitsubishi 4G93	
W-FR-CAMPRO	Proton Campro Series	
W-FR-HB	Honda B Series DOHC	
W-FR-HK	Honda K Series DOHC	
W-FR-HD	Honda D Series SOHC	
W-FR-GDB	Subaru GDB	
W-FR-SS	Suzuki Swift 1.5 / 1.6, Solio 1.3	
W-FR-2JZ	Toyota Supra 3.0 2JZ	
W-FR-L200	Daihatsu L200 12V / Mira Turbo	
W-FR-SE3P	Mazda RX-8	

* Kindly send us your enquiry if your vehicle model not in the list.

Application List





W-FR-CAMPRO





FUEL PRESSURE REGULATOR

Description

Our Universal Adjustable Fuel Pressure Regulator can be remotely mounted on ANY application that utilized a return hose. This unit is capable of supporting enough fuel flow for engines in excess of 1000 horsepower, and is ideal for forced-induction engines since it is boost dependent (1:1 ratio).

- CNC-machined from 6061-T6 billet aluminium
- Interchangeable discharge ports matches regulator output to output of any fuel pump
- Adjustable from 20 psi to maximum fuel pump capacity
- Maintains stable fuel pressure at high-horsepower levels
- Sensitive adjustment allows setting of optimum fuel pressure
- Service hole in regulator perfect for pressure gauge installation or as a feed for nitrous system or additional injector setup
- Mounting bracket included

Application List



WORKS ENGINEERING FUEL PRESSURE REGULATOR -DIMENSION IN MM (INCHES) W COP I



W-FPR-II

Part No.	Description	
W-FPR-I	Works Fuel Regulator Stage - 1 (up to 600bhp) ~29 psi - 116 psi	
W-FPR-II	Works Fuel Regulator Stage - 2 (up to 1200bhp) ~25 psi - 145 psi	



Description

Fuel regulator adaptor brackets are dedicated adaptors for installing adjustable fuel pressure regulator, it mounts directly onto factory fuel rail.



N-FRB-H



W-FRB-ES



W-FRB-E4



Part No.	Description
W-FPR-BS	Bracket Set - Honda
W-FPR-BS	Bracket Set (Small) - Toyota, Nissan, Mitsubishi New GSR / New 4G91 / 92 / 93
W-FPR-BS	Bracket Set (Big) - Mitsubishi Evo 1 - 9 / Old GSR
W-FPR-BS	Bracket Set (Campro)



FUEL SURGE TANK

Description

OTUSAN

In racing condition, high lateral G-forces can cause the fuel to 'slosh' around the fuel tank, which can lead to a loss of fuel pressure from the fuel pump and hence causing the engine to run lean and damage it. The fuel surge tank can eliminate this effect, and can also offer the option for running two fuel pumps to ensure there is always constant supply of fuel under all conditions.

Our fuel surge tank is specially designed for street performance which allows you to have increase fuel pump flow capacity and will reduce lean run conditions while doing high lateral G. Our Fuel Surge Tank holds 2 liters of extra fuel and TIG welded 6061 aluminium.



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WORKS ENGINEERING RACING FUEL SURGE TANK - DIMENSION IN MM (INCHES)







Description





W-CG-CAMPRO

W-CG-4G63

Each cam gear is adjustable in 1° increments to a maximum +/- 10°. Our engraved timing marks are accurate to within 1 minute of degree. With the simple design our cam gears are lighter than the stock gears they are replacing.

Our tooth profile matches exactly the OEM specs for each gear we make. The outer cog section of our gears is black hard-anodized to prevent wear from the timing belt. We use black hard coat because of the greater contrast it gives against our engraved timing marks. The 5-bolt locking pattern firmly secures and we use only stainless steel hardware to ensure durability. This design provides a lifetime of worry-free adjustments.

The machining process for optimum component fit is critical for adjustable cam gears. Any free play between the inner and the outer sections will cause the hard-ware to come loose no matter how much is tightened. Our extra care in the machining process guarantees you our cam gears will not come loose when you follow the torque specifications in our instructions.

Adjustable Cam Pulley Application List

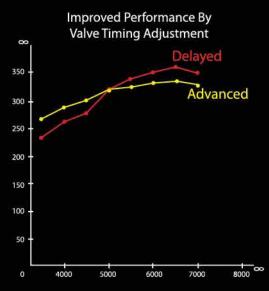
Mitsubishi 4G63 EVO 1 - 8	
Mitsubishi 4G92 / 93 DOHC	
Mitsubishi Lancer / Proton 4G92 SOHC	
Mitsubishi Lancer / Proton 4G13 / 15	
Mitsubishi Eterna 6A10 / 12 V6 (4pcs)	
Mitsubishi Lancer CS3 / 4G18 / Proton Waja	
Proton Campro / Gen2 / Satria Neo / Persona / Saga B	slм
Daihatsu L200 12V / Mira Turbo	
Nissan SR20DET	
Nissan RB20 / 25 / 26	

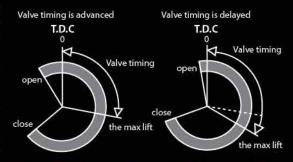
Adjustable Cam Pulley Application List

Toyota Supra / Lexus GS300 / 2JZ	
Toyota 4A - GE 16V	
Toyota 4A - GE 20V	
Toyota 35 - GTE MR2 / Celica / Caldina	
Honda B Series DOHC	
Honda K Series DOHC	
Honda H Series DOHC	
Honda D Series SOHC	
Mazda MX5 / BP6 / BP / NB6 / 8	



W-CG-4G92/93





If everything else maintains the same, when the intake valve timing is advanced then performance gains are achieved at low RPM. If the intake valve timing is retarded then performance gains are achieved at high RPM.

* Kindly send us your enquiry if your vehicle mode<u>l not in the list.</u>



Cam pulley brand X (weight compare)



Cam pulley Works (weight compare)



ERANK PULLE

Description

Weight reduction is how we are able to achieve increased horsepower.

Each pound of weight removes from the crankshaft worth approximately 2.7HP and the gains jump even more dramatically with forced induction, nitrous, VTEC and increased RPM's. Only 15-20% of the gains from our pulleys come from underdriving. The diameter of each of our crank pulley is reduced up to 20%. We tailor the exact amount of underdrive to each vehicle based on factory specified accessory performance. We fully maintain all accessory output minimums like air conditioning efficiency, power steering feel, and even voltage at idling with all electrical switched on in the car. There are no adverse effects from using any of our pulley versions. Bolt them on and forget about them, then just follow your vehicles normal maintenance schedule.

The crank pulley are available in 3 versions:











Crank pulley Works (weight compare)

- 1.) Underdrive crank pulley in standard belt layout. They drive all the accessories that were available in the car from the factory. This version is up to 20% smaller in diameter but more important is they are 60-90% lighter then the OEM pulleys they replace. This is a reason why we do all the underdriving at the crankshaft pulley to maximize the reduction in weight on the crank.
- Stock diameter crank pulley, also in standard belt layout. It is designed to maintain alternator output at stock levels for car owners with big stereos or for audio competitions where system voltage must maintain specified levels. For cars with supercharges it maintains the original level of boost from the aftermarket supercharger kit.
- 3.) Single belt conversions. This version was designed to drive only the alternator or alternator and water pump. It is used for engine swaps or for the racer where only the alternator is being used. This version has the same percentage of under-driving as the first 2 versions but is 90-95% lighter than the OEM pulley it replaces.



Part No.	Description	Part No.	Description
W-CP-350Z	Nissan Fairlady Z33 350Z (3-pulley set)	W-CP-WRXGC8	Subaru Impreza WRX GC8 ver 1 - 6 (Pro Balancing)
W-CP-S1415	Nissan S14 / S15(3 - pulley set)	W-CP-WRX	Subaru Impreza WRX ver 7 /8 /9 (2 - pulley set)
W-CP-HR12DE	Nissan March / Mirca K13 1.2 '13-ON (Pro Balancing)	W-CP-R53	Mini Cooper R53 Supercharger
W-CP-HR16DE	Nissan Tiida Latio 1.6 '07-ON (Pro Balancing)	W-CP-R56	Mini Cooper R56 Turbo
W-CP-EVO1-3	Mitsubishi Evo 1 - 3 / VR4 / Perdana (Pro Balancing)	W-CP-CAMPRO	Campro - Gen2 / Satria Neo / Saga BLM / Persona (Pro Balancing)
W-CP-EVO7-9	Mitsubishi Evo 7 / 8 / 9	W-CP-K3-VE	Daihatsu Sirion / Perodua Myvi 1.3 (Pro Balancing)
W-CP-4G93	Mitsubishi Lancer 1.6 / 1.8 / 4G93 DOHC(Pro Balancing)	W-CP-EJ-DE	Daihatsu Move 1.0 / Cuore 1.0 / Gino 1000 / Mira Avy 1.0 /
W-CP-4G1315	Mitsubishi 4G13 / 4G15 SOHC { Non - VDO } (Pro Balancing)		Perodua Kenari / Kelisa / Viva (Pro Balancing)
W-CP-4G18	Mitsubishi Lancer 4G18 SOHC(Pro Balancing)	W-CP-EF-CL	Perodua Kancil 660cc SOHC (Pro Balancing)
W-CP-3A92	Mitsubishi Mirage 1.2 '14-ON (Pro Balancing)	W-CP-ED-10	Perodua Kancil 850cc SOHC (Pro Balancing)
W-CP-H22A	Honda Prelude DOHC '93 - '03 (Pro Balancing)	W-CP-SS	Suzuki Swift 1.5 / 1.6 (Pro Balancing)
W-CP-HCDOHC	Honda Civic SR-4 Vtec(Pro Balancing)	W-CP-K12B	Suzuki Swift 1.2 '13-ON (Pro Balancing)
W-CP-HCDOHC2	Honda B-series - P.Steering / Alternator (2pc) (Pro Balancing)	W-CP-TV	Toyota Vios 1.5 '03 - '06 (Pro Balancing)
W-CP-R18	Honda Civic FD 1.8 '06-ON (Pro Balancing)	W-CP-TV08	Toyota Vios 1.5 '08 - '12 (Pro Balancing)
W-CP-K20	Honda K-Series DOHC (Pro Balancing)	W-CP-TW	Toyota Wish 1.8 '03 - '08(Pro Balancing)
W-CP-CRZ	Honda CRZ Hybrid 1.5 '11-ON (Pro Balancing)	W-CP-FT86	Toyota GT86 / Subaru BRZ / Scion FR-S 2.0 (3 - pulley set) (Pro Balancing)
W-CP-CITY	Honda City '03 - '07 (Pro Balancing)	W-CP-4AGE	(Pro balancing) Toyota Corolla Levin / Sprinter Trueno 4A-GE 16V
W-CP-CITY08	Honda City '08 - '13 (Pro Balancing)	W-CF-4AGE	(Pro Balancing)
W-CP-F20C	Honda S2000 AP1 (3-Pulley set) (Pro Balancing)	W-CP-4AGE20	Toyota Coralla Levin / Sprinter Trueno 4A-GE 20V (Pro Balancing)

* Kindly send us your enquiry if your vehicle model not in the list.





X-84001 Sport Compact Single Nozzla (45psi)



X-84002 Sport Compact Single Nourly (filpsi)

NITROUS OXIDE SYSTEM

Description

Nitrous oxide (N2O) is a chemical compound used as an oxidizing agent to increase an internal combustion engine's power output by allowing more fuel to be burned than would normally be the case.

Nitrous oxide is stored as a liquid in tanks, but because of its low boiling point it vaporizes easily when released to atmosphere. When injected into an inlet manifold, this characteristic causes a reduction in air/fuel charge temperature with an associated increase in density, thereby increasing the cylinder's volumetric efficiency.

Nitrous systems can increase power by as little as 0.5 hp (0.37 kW) or as much as 3,000 hp (2,200 kW), depending on the engine type and nitrous system type. In many applications torque gains are even greater as increased fuel is burnt at a lower rpm range and is what causes the significant improvement in acceleration.

WORKS Wet nitrous oxide systems

- A wet single-point nitrous system introduces the fuel and nitrous to gether, filling the upper intake manifold to become wet with fuel
- Provides fuel enrichment by teeing off of the engine fuel rail and feeding it into the injection nazzle
- The system with most complete atomization of enrichment fuel
- Super-fine atomization of enrichment fuel to ensure maximum horsepower and prevent fuel puddling that causes intake backfires
- Easy to install and easy to tune
- Complete control over the fuel system. Works with standard fuel pump and injectors
- Outstanding Value for Money for horsepower gain

Import Nitrous System

Works Import EFI single nozzle systems cost effective, reliable, and simple way to get spraying on the popular import platforms. Nozzle systems will add the extra power to get you down the track.

They come with all needed components for install, 10lb bottles, and a pair of great solenoids.

These systems can handle 200hp and are even better when paired with a accessory package.

- Works Nitrous Systems are designed for the budget enthusiast.
- Works Nitrous Systems come complete with high flow 45 degree bottle valve, 16ft 4 AN main feed line, 200 horse power solenoids, hoses, nozzle, electrical connectors, all fittings and hardware.
- Designed to work with todays fuels.
- Jetting from 35-75 HP.
- Upgradable for HP levels up to 200 HP.
- Made in the USA!



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CAM SEAL COVER

Description

Works Engineering cam seal features 3 O-rings for a superior fit and seal. Factory plastic seal don't have O-ring and are prone to leaks.





HONDA VTEC SOLENOID COVER

Description

Works Engineering VTEC Solenoid Cover is precision CNC machined from aircraft quality AL6061 billet aluminium and features a durable gun metal anodized finish. A laser-etched Works logo on top will accent your engine along with other Works accessories.



TIMING BELT TENSIONER FOR MITSUBISHI EVO 4-8

Description

- Mitsubishi 4G63 EVO engines are notorious for timing belt slippage, especially if you modify or run high revs.
- Works Engineering timing belttensioner replaces the original metal piece and helps in prevent belt slip.
- Simply replace the original tensioner with this when you are replacing your timing belt or upgrading your engine, no other modification needed.
- Precision CWC engineered, made of high grade aluminium
- A must-have item even for stock engine. Easy to install
- Spend a little save a lot.







4663 OIL THERMO KILLER

Description

One of the common weak points of both the 4G63 & the 4B11 is the rise of oil temperature. It is seen more often during hard driving at closed tracks and other events. The EVO uses a thermo switch that will activate when the temperature gets around 85 \mathbb{C} . Yet when the oil temperature is low, it won't activate thus restricting oil flow to the oil cooler which then consequently raises the oil temperature to unwanted levels. Our Works oil thermo killer allows oil to flow into the oil cooler constantly regardless of the oils temperature. It is still easy to revert back to the stock thermo switch during winter periods to prevent over cooling as well.





OIL FILTER

Description

It can effectively raise 2-5% horsepower and also increase engine oil pressure by at least 0.4kg/cm. Oil Booster Filter works on the principle of adding 8 special baffles inside the oil filter core, which increases flow rate of the filtered oil back into the engine by Eddy Conduction. Increased volumetric oil flow and pressure lubricates engine more effective & increases horsepower.

Each product undergoes extensive testing to measure flow and maximize gains, which are represented in performance charts that highlight the benefits of Works models over stock models. As demonstrated by these performance charts, this Works Oil Filter offers improved filtration and decreased flow restriction compared with stock filters.



+ PLUS 2 - 5% HP



JPM20 J

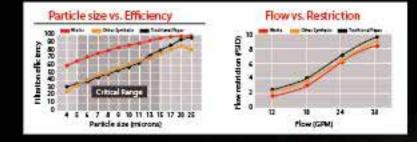
Application List: FORD, HONDA, MITSUBISHI MAZDA, SUBARU IMPREZA, KIA, NISSAN JP3/4 Application List : TOYOTA, SUZUKI, DAIHATSU

NISSAN : CEFIRO,

X-TRAIL

FILTER LIFE

Under normal usage, it is recommended that the filter change every 10,000km. For Sports driving, the recommended distance is approximately 1/3 – 1/2 of the previously mentioned figure (as the engine revolutions are several times of normal driving). However, to maintain optimum low pressure loss properties, it is recommended to change the filter every 3000km/when an oil change is performed.



Also available for diesel engine Application List : TOYOTA HILUX, ISUZU D-MAX, MITSUBISHI TRITON / PAJERO

ENGINE 16

ENGINE OIL COOLER KIT

Description

Oil cooler kits help prolong the life of your oil and in turn protect your internal engine components. Hard driving causes higher engine temperatures. Factory oil coolers are normally small water-cooled devices sandwiched between the oil filter and engine block. These design taxed the cooling system even under normal driving conditions.

Because the latest generations of engine are smaller, run at higher RPMs & produce more heat, maintaining the correct oil temperature is imperative. In addition, most engines have less oil capacity so putting more strain on the oil and all engine components.

WORKS oil cooler kits are an excellent addition and are especially effective in harsh driving environments. With our inner-fin core design, we are able to increase oil capacity, decrease oil temperatures and extend engines and oil life. The efficient cooler cores and braided lines ensure good flow and a leak free installation. Included in the kit is a mounting plate which is also a convenient place for oil pressure and oil temperature sensors installation.

Oil Filter Relocate adaptor

Works Universal Oil Filter Relocation adaptor moves the oil filter to a convenient location and provides extra clearance for engine swaps. You can even install the oil filter sideways or even upside down. The increase in oil capacity also helps in better engine oil cooling and lubrication. Universal coverage fits 98% of all automotive applications.

The kit contains the necessary adapters to convert the stock filter landing on the engine block to another location. All parts are made of billet aluminium.

ATF Cooler Kit

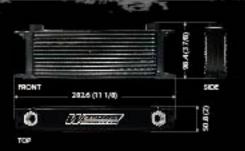
The key to automatic transmission life is keeping the fluid fresh, clean, and cool. When fluid temperatures exceed the optimum operating rage of 160°F to 200°F it begins to break down, decreasing the life of the fluid and in turn the life of the seals, bearings and all moving parts. The #1 cause of automatic transmission failures is overheated transmission fluid. Today's cars generated extremely high under-the-hood temperatures. Add to that the heat generated by an automatic transmission, and you'll see why adding an auxiliary transmission oil cooler is must for guarding against costly transmission repairs.

Installing a Works Engineering ATF Oil Cooler kit will reduce your transmission oil temperature by as much as 60 degrees, which will help prevent transmission burnout and extend the life of the auto gearbox. The Bar & Plate cooler construction results in an inherently strong cooler core of high thermal inertia. At 30% smaller in size then conventional Tube and Fin design, Works Engineering cooler core technology occupies lesser installation space and greater heat exchange.

Each Kit comes with fittings, lines, and all hardware necessary for installation.

Application List

Part No.	Description	
W-OCK-ATF	Works ATF Gear Oil Cooler Kit	
W-OCK	Works Engine Oil Cooler Kit	
W-OFRA	Works Oil Filter Relocator Adaptor	
W-OHC	Works Oil Hose Clip	



WORKS ENGINEERING 13 ROLES BAR & PLATED OIL COOLER - DIMENSION IN MM (INCHES)



W-OCK





LOCKATE



RACING POWER STEERING TANK

Description

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Power steering fluid tends to gush out after circuit or sport driving, caused by the cavitations which occur when the power steering pump works at high RPM. These air bubbles expand to the entire power steering system when high RPM range is often used, and this increases the oil level inside the power steering tank. Under such conditions, the air bubbles will be heated and the internal pressure increases, in the end the power steering fluid will gush out. Due to the cavitations, the pressure inside the power steering system will not operate correctly and steering problem may occur. The Works Engineering Racing Power Steering Tank helps prevent problem to ensure you perform to your max!

Works Engineering power steering tank is mounted in the stock tank position so it requires no additional drilling to fit, and the standard power steering pipes attach straight to the spouts on the tank. They are handmade from high quality aluminium and the tanks are fully welded.

- Made from Billet 6061 aluminium, TIG weld, polished, with billet aluminium CNC machined fittings.
- Special double structure with enhance swirl effect to prevent cavitations.
- Stable steering under hard driving conditions such as high temp, high RPM and high loads.
- Special tank cap that discharge only vapors, gas generated due to cavitation, avoid oil loss & fluid gushes.
- Baffle plate to prevent the deviation of the oil surface under high G-force driving.
- Air stopper preventing the air bubbles from entering the power steering system.
- Universal Fitment.



Product Internal Structure

- 1.) This product comes with a special cap design to prevent oil leak.
- When temperature of oil increase, the product enable air flow out from the vent hole. Therefore preventing oil leak.
- Another innovate feature of this product is it fitters out bubbles to prevent them from flowing back to the steering system.







WORKS ENGINEERING RACING POWER STEERING TANK -DIMENSION IN MM (INCHES)

RACING OIL CATCH TANK

Description

Works engine oil catch tank is used in turbo applications, or high-performance race applications where excessive blow-by (leakage past the piston rings) of air and fuel vapor occurs. This creates a positive pressure in the crankcase.







COOLING 18

Engine manufactures have placed a valve on the engine block which releases this pressure. This valve is known as a PCV (Positive Crankcase Ventilation) valve. During engine operation, blow-by gases, as well as oil mist from the rotating components of the engine, pass through the PCV valve and are routed back into the intake for the engine to burn off.



WORK SENGINEERING RACING OIL CATCHTANK WITH MINI FILTER -DIMENSION IN MM (INCHES)

BREATHER TANK

Description

As an engine heat up, the coolant inside expand. Without the expansion tank, the coolant would flow out of the overflow tube and be lost from the cooling system onto the street.

Since a vacuum is created in the cooling system when the engine cools, the vacuum causes some of the coolant in the expansion tube to be sucked back into the system. This way, no coolant is lost as long as the system in functioning properly. Another function of the expansion tank is to remove air bubbles from the cooling system. Air in the cooling system can cause hot spots on various engine components, which can cause great damage if left unattended. The advantage of the expansion tank is that while the level of coolant contained in it rises and falls, the radiator is always full. By mounting the tank high up in the engine compartment, you can be assured of a fully filled system with room for air expansion, thus reducing chances of overheating due to air-lock. Beautifully finished in high grade aluminium, with a light weight, high pressure radiator cap & mounting accessories all included for installation.



W-87



Breather Tank

Radiator Breather Tank processing Flow



RADIATOR CAP

Works Engineering Radiator Cap is a high-pressure type that increases the pressure inside the radiator, thus raising the coolant boiling point by about 25 C and improves cooling efficiency.

Works Engineering Radiator Cap's main pressure valve spring and silicone packing are used to raise the pressure inside the radiator for a higher boiling point. The coolant will not boil easily, prevents air bubbles in the block and radiator core with improved heat transfer.

1.1kg/cm2 = 107kpa 1.3kg/cm2 = 127kpa

Application List

Part No.	Description		
W-RC-1.15	1.1(S)		
W-RC-1.35	1.3(S)		
W-RC-1.1B	1.1(B)		
W-RC-1.3B	1.3(B)		



SILICONE RADIATOR HOSE KIT

Works engineering silicone hose kits are designed to replace original equipment for a wide range of vehicles, both in motorsports and fast road use. Superb integrity and superior performance reduces the risk of component failure & enables higher temperatures and pressure to maintain with complete confidence. All hoses are silicone rubber construction with smooth wipe down finish.

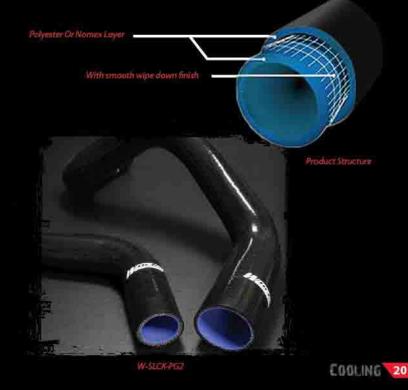
Temperature range -50°C to 220°C. thickness = 5mm with four mesh polyester or Nomex layers that enable our hose to take higher pressure than original rubber hose does. Works engineering silicone hoses are excellent in resistance to UV, water and heat..



Part No.	Description
W-SLCK-HD-EG / EK	Honda EG / EK DOHC
W-SLCK-DC5	Honda Integra DC5 / Acura RSX
W-SLCK-HJ	Honda JAZZ / FIT
W-SLCK-EVO 1- 3	Mitsubishi EVO 1 - 3
W-SLCK-PW18	Mit 4G93 '92 - '95 / proton Wira 1.8
W-SLCK-PP20	Mit 4G63 SOHC / Proton Perdana 2.0
W-SLCK-PPV6	Mit GA12 '90 - '95 Proton Perdana V6
W-SLCK-PG2	Proton Gen2
W-SLCK-MYVI	Daihatsu YRV 1.0 -1.3 / Perodua Myvi
W-SLCK-FD2R	Honda Civic FD2R
W-SLCK-SUPRA	Toyota Supra 2JZ-GTE (Non VVTI)

* Kindly send us your enquiry if your vehicle model not in the list.







Description

PRO CLUTCH

Pro dutch uses a specially developed pressure plate with an extremely durable customized Sprung Ceramic disc. This is the ultimate extreme duty street and/or road/drag racing system. It comes in a 5 pad star configuration to provide a good compromise between full attack mode or progressive street usage.

PRO 450 SPRUNG CERAMIC SYSTEM

170% Increase in holding capacity Ultra Heavy-Duty Street or Racing

The PRO 450 System uses a specially developed pressure plate with an extremely durable customised Sprung Ceramic disc. This is the ultimate extreme duty street and/or road / drag racing system. It comes in a 5 pad STAR configuration to provide a good compromise between full attack mode or progressive street usage. The sprung hub design allows for moderate dampening in high-torque applications, rendering it much more streetable than solid or rigid designs. The Ceramic disc is designed for long life, outstanding holding capacity and rapid heat dissipation.

WARNING: Due to the solid friction rivet design, the PRO 450 disc engages very quickly and may chatter slightly in first and reverse. To help alleviate this problem, we only use premium ceramic friction material.







PRO 500 CERAMIC / SINTERED IRON SYSTEM

200-400% increase in holding capacity Race Only

The PRO 500 System uses a specially developed pressure plate along with a solid centre 5 pad STAR configuration customised Ceramic / Sintered Iron disc. It is designed for maximum holding capacity with maximum friction between dutch plate and the flywheel. For those who does not compromise !

WARMING: The PRO 500 is a Solid Hub (rigid) disc that engages and disengages instantly. This is a Race Only clutch.

PRO 450 RACING CLUTCH

Application List

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Part No.	Description	Friction Material	Part No.	Description	Friction Material
Part NO.	Description	Size / Dimension	Fait NO.	Description	Size / Dimension
W-RC-L200	Mira L71V-4WD / 4WD Turbo (EB),	170 x 110 x 18 x 19.1	W-RC-EF2	Civic EF2 / 4 / 6 (89 / 8~)(D15B),	212 x 150 x 20 x 22
WINC LLOU	L200S / V, 210S / 220S (EF Turbo),	5 Button Type	White Erz	EF3 / 5 / 7 (89 / 8~)(ZC), EG1 (D15B),	5 Button Type
	L2105 / V - 4WD (EF), L500S / V, 502S,	Push - C.Load 3430		EG4/8 (D15B),	Push - C.Load
	510S / V, 512S (EF, JB),	rash elesadis iss		EG5 / EH1 (91 / 9~)(ZC), EJ1 (D16A),	Fash cleada
	Perodua Kancil 850 (ED10),			Integra DB6 (93 / 7~96 / 9) (ZC),	
	Opti L310 - 4WD (EF)			DC1 (93 / 5~96 / 9) (ZC)	
W-RC-EJ-DE	Perodua Kenari / Kelisa 1.0 ,	170 x 22.1 x 20	W-RC-TYT8	Starlet EP71 T (2E - TELU),	200 x 140 x 21 x 24 x 7.8
	Daihatsu Move 1.0 (EJ - DE / EJ - VE)	5 Button Type		EP82/91 (4E-FE/F), Levin/	5 Button Type
		Push		Trueno AE82 / 86,	Push - C.Load 5400
				AE92 (~89 / 4) (4A - GEU),	
W-RC-K3-VE	Perodua Myvi 1.3 / Daihatsu Sirion /	190 x 22.1 x 20		MR2 AW11 (~85 / 5) (4A - GE)	
	YRV / Materia 1.3 (K3VE)	5 Button Type			
		Push	W-RC-EP82	Starlet EP82T / 91T (4E-FTE),	215 x 140 x 21 x 24 x 7.8
			in the LifeL	Levin / Trueno AE92 (89 / 5~),	5 Button Type
W-RC-4G1315	lswara / Saga 1.3 / 1.5 (4G13 / 15), Satria 1.3	184 x 127 x 20 x 22.4 x 8.0		AE101 / 111 (4A - GE),	Push - C.Load 6900
	/ 1.5 (4G13 / 15), Wira 1.3 / 1.5 (4G13 / 15)	5 Button Type		Celica ZZT230 / 231 (1ZZ-FE / 2ZZ - GE),	
	Mitsubishi Engines	Push		MR2 AW11 (85 / 6~)(4A - GE),	
				MR - S ZZW30 (1ZZ - FE)	
W-RC-4G92	Gen2 1.3 / 1.6 (Campro),	200 x 130 x 20 x 22.4 x 8.0			
SOHC	Satria Neo 1.3 / 1.6 (Campro), Satria,	5 Button Type	W-RC-SW20	MR2 SW20 (Turbo) (35 - GTE),	236 x 160 x 21 x 29.8
PRO450	Wira 1.6 (4G92), Waja 1.6 (4G18 / Campro),	Push	White Shize	Celica ST165, 185, 205 (3S - GTE)	5 Button Type
	Mirage CB3A (4G91)				Push - C.Load 9300
W-RC-4G93	Mirage CA / CB / CC / CJ4A	215 x 145 x 20 x 22.4 x 8.0	W-RC-SS-1.5	Suzuki Swift 1.5 HT81S / ZC / ZD11S /	190 x 19.1 x 18
	(4G92-Mivec), Putra,	5 Button Type	W-IIC-55-1.5	ZC21S (M15A / M13A)	5 Button Type
	Satria GTi 1.8 (4G93), Wira 1.8	Push			Push Type
	(4G93), Perdana S4 2.0 (4G63)				
			W-RC-SS-1.6	Suzuki Swift Sport 1.6	-
W-RC-EVO1-3	Galant VR4 E38A / 39A (4G63T),	225 x 150 x 20 x 22.4	W-RC-33-1.0	ZC315 (M16A)	5 Button Type
	EVO I~III CD / CE9A (4G63T),	5 Button Type			PushType
F 5	Lancer 1.8 GSR CD5A/W (4G93T),	Push - C.Load 8600			
	Eterna 2.0 E74A /				
	84A (6A12 Twin Turbo)		W-RC-GDB	Subaru Impreza WRX 2.0	230 x 25.2 x 24
				(including STI), GDA, GDB (EJ20)	5 Button Type
W-RC-B16	Civic EG 6, EK4 / 9 (B16 A / B),	220 x 155 x 24 x 26 x 7.8		Year 2001 to 2007	Push Type
	Integra DA6 / 8 (92 / 10~94 / 5),	5 Button Type	W-RC-GDF	Cubaru Innuran WDV 2 E	240 - 25 2 - 24
5	DB 8, DC2 (B 18 C)	Push - C.Load 6940	W-RC-GDF	Subaru Impreza WRX 2.5	240 x 25.2 x 24
55				(including STI), GDF, GDG (EJ25) From Year 2006	5 Button Type Push Type
W-RC-D16	Civic EG / EK (D16 A / B)	2			- asing -
NEW	D-series Single Cam (SOHC)	5 Button Type	W-RC-SR16VE	Nissan SR16VE / SR20VE 8½" (24 TEETH)	12 15 -
	The second s	Push	PRO 450	1 - C	5 Button Type
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PRO 500 RACING CLUTCH

Application List

Part No.	Description	Friction Material	Part No.	Description	Friction Material
		Size / Dimension			Size / Dimension
W-RC-4G93R	Mirage CA / CB / CC / CJ4A	215 x 145 x 20 x 22.4 x 8.0	W-RC-SR20R	Silvia 513, 514 (SR 20DET),	240 x 160 x 24 x 25.6
	(4G92-Mivec), Putra,	6 Button Type		S15 - 5 Speed (SR 20 DET),	6 Button Type
	Satria GTi 1.8 (4G93),	Push		1805X RPS13 (SR 20DE),	Push - C. Load 9000
	Wira 1.8 (4G93),			Pulsar RNN14 GTi - R (SR20DET)	
	Perdana S4 2.0 (4G63)				

W-RC-SR16DE Nissan SR16DE 8½" (18 TEETH)

6 Button Type

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PRO 450 REPLACEMENT CLUTCH PLATE

Application List

DIESEL CLUTCH

Toyota Hilux 2.5L Diesel D-4D DOHC L4 Toyota Hilux 3.0L Diesel D-4D DOHC L4 Mitsubishi Triton 2.5L Diesel Mitsubishi Triton 3.2L Diesel

Application List

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Part No.	Description	Friction Material
		Size / Dimension
W-RC-4G92SOHC	Satria, Wira 1.6 (4G92), Waja 1.6	200 x 130 x 20 x 22.4 x 8.0
New Improve	(4G18 / Campro), Mirage CB3A (4G91)	5 Button Type
Pro 450		Push
W-RC-4G93	Mirage CA / CB / CC / CJ4A (4G92-Mivec),	215 x 145 x 20 x 22.4 x 8.0
New Improve	Putra, Satria GTi 1.8 (4G93), Wira 1.8 (4G93),	5 Button Type
Pro 450	Perdana S4 2.0 (4G63)	
W-RC-EVO1-3	Galant VR4 E38A / 39A (4G63T), EVO I-III CD /	225 x 150 x 20 x 22.4
	CE9A (4G63T), Lancer 1.8 GSR CD5A / W	5 Button Type
	(4G93T), Eterna 2.0 E74A / 84A	Push
	(6A12 Twin Turbo)	
W-RC-B16	Civic EG 6, EK4 / 9 (B16 A / B),	220 x 155 x 24 x 26 x 7.8
	Integra DA6 / 8 (92 / 10~94 / 5), DB 8,	5 Button Type
	DC2 (B18C)	

Part No.	Description	Friction Material
		Size / Dimension
W-RC-L200	Mira L71V-4WD / 4WD Turbo (EB), L2005 / V,	170 x 110 x 18 x 19.1
	2105 / 2205 (EF Turbo), L2105 / V - 4WD (EF),	5 Button Type
	L500S / V, 502S, 510S / V, 512S (EF, JB),	Push - C. Load 3430
	Perodua Kancil 850 (ED10),	
	Opti L310 - 4WD (EF)	
W-RC-EJ-DE	Perodua Kenari / Kelisa 1.0 ,	170 x 22.1 x 20
	Daihatsu Move 1.0 (EJ - DE / EJ - VE)	5 Button Type
		Push
W-RC-K3-VE	Perodua Myvi 1.3 / Daihatsu Sirion / YRV /	190 x 22.1 x 20
	Materia 1.3 (K3VE)	5 Button Type
		Push
W-RC-4G1315	Iswara / Saga 1.3 / 1.5(4G13 / 15),	184 x 127 x 20 x 22.4 x 8.0
	Satria 1.3 / 1.5 (4G13 / 15),	5 Button Type
	Wira 1.3 / 1.5(4G13 / 15)Mitsubishi Engines	A CONTRACTOR

APAP APAP

BLOW OFF VALVE

Description

Blow off valve (BOV), bypass valve or dump valve is a pressure release system present in most turbocharged engines. Its purpose is to prevent compressor surge, and reduce wear on the turbocharger and engine. Blowoff valves relieve the damaging effects of compressor 'surge loading' by allowing the compressed air to vent to the atmosphere, making a distinct hissing sound, or recirculate into the intake upstream of the compressor inlet.

A blow off valve is connected by a vacuum hose to the intake manifold after the throttle plate. When the throttle is closed, the relative manifold pressure drops below atmospheric pressure and the resulting pressure differential operates the blow off valve's piston. The excess pressure from the turbocharger is then vented into the atmosphere or recirculated into the intake upstream of the compressor inlet.

BOOST CONTROLLER

Description

Works Engineering bleed type boost controller allows you to increase boost by approximately 12psi over your Wastegate boost setting - an effective and simple way to control boost level and generate more power from your engine.

Mechanical boost controller is a manual boost control system that utilizes a pneumatic regulating valve to manipulate boost pressure levels.

TURBO OIL LINE FILTER

Description

Design to filter out and prevent oil debris from flowing into your turbocharger and causing unnecessary damage. Fits in between oil feed line between engine and turbocharger. Suitable for all turbocharged.





W-TOLF



Description

- An upgrade part for your current turbo
 - A stronger / uprated actuator allows the turbocharger to run higher
 - boost, equalling more power before the wastegate opens.









W-M81





E-DRIVE THROTTLE CONTROLLER

Description

Nowadays, Most of car manufacturers incorporate the Electronic Throttle or E-Throttle to their engines. The throttle was previously directly controlled by a steel cable. Modern setups are now driven by electric motors and electronics. One major reason for the car manufacturers to do this was easy incorporation of various options such as traction control, cruise control & others. A major complaint about the E-Throttle is its laggy response which makes the vehicle less responsive to each prod of the throttle pedal.



Electronic Throttle Controller (ETC) is a device designed for electronic throttle car models that gives you, the driver, the freedom to select the type of acceleration response you need or desire, works like a piggyback that changes the signals going to the car's ECU. A wide variety of response adjustment can be yours: from power Mode which gives you a keenly sharp response for speedy driving to a slower than normal response to enable eco-driving even without thinking about it. A throttle pedal angle of say 30 degrees, in economy mode, the throttle plate will open only 15 degrees whereas in speed mode, 62%. In speed mode, the throttle plate opens faster and wider giving the driver the sensation of an extremely sensitive engine allow fast driver guicker response from their rides. E-DRIVE is a next generation throttle controller for both Sports and Eco-driving.

An ETC is easy to fit comes with a set of connectors that interfaces the throttle pedal signals to the ECU. The ETC is then taught to recognize the characteristics of the car's E-Throttle system via a few simple steps. After that, you get to enjoy the jump in instant response.

Quick Response for POWER Mode : Quick accelerator response for circuit and sports driving on mountain roads. After solving delayed response during acceleration.

ECO Mode: World's First Slowed-down Response -Slower accelerator response suited for eco-driving in towns and on highways. Slowing down acceleration response better fuel efficiency and a more comfortable ride

ECO Mode increases fuel efficiency over normal conditions by suppressing rapid acceleration; if rapid acceleration is continually carried out results will be nullified.

ECO Mode helps to improve fuel efficiency by controlling unnecessary acceleration during take off and when stepping on the pedal; thereby reducing the unnecessary use of fuel. Results from tests, as seen below, show an average increase in fuel efficiency of about 15% between Normal and ECO modes.

CORIVE

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- Po mode : suitable for mountain & racing in very sensitive throttling.
- Ec mode: suitable for driving in city within economic fuel consumption.
- 3 modes in 16 steps: (Po 9 steps, Nor Single Step, EC 7 steps).
- Easy installation: by using special connector (provided)
- Easy setup: applicable to most car model.

Mode NORMAL ECO SPORTS 2 3 3 Acceleration

35 (1 3/9 51 (2)

WORKS ENGINEERING E-DRIVE THROTTLE CONTROLLER -DIMENSION IN MM (INCHES)





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E-DRIVE THROTTLE CONTROLLER

Application List

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LEGACY 200 5 - BW/BR9 BRF E236 S2A 2005 5 - 2007 5 - 2007 5 - 2007 5 - 2007 5 - BU/BPS (E type - 2007 5 - BU/BPS (E type - 2007 5 - BU/BPS (E type - 2003 10 - BU/BPS (E type - 2003 10 - BU/BPS (D Type -) BU/BPS (D Type -) E220 S2A 2005 5 - BU/BPS (D Type -) BU/BPS (A C Type) BU/BPS (A D Type) BU/BU/BU/BU/BU/BU/BU/BU/BU/BU/BU/BU/BU/B	VEHICLE	MODEL YEAR	CAR MODE	ENGINE MODEL	HARNESS MODE
2008.5 - BPH E.225 \$2A 2007.5 - BL/BPS (E type -) E.220 (T/C) \$2A 2006.5 - BL/BPS (E type -) E.20 (T/C) \$2A 2006.5 - BL/BPE (D Type -) E.230 \$2A BPG (D Type -) E.26 \$2A 2003.10 - BPG (C Type -) E.226 \$2A 2003.9 - BL/BPE (O Type -) E.220 (T/C) \$2A 2003.9 - BL/BPE (A-C Type) E.220 (T/C) \$2A 2003.9 - BL/BPE (A-C Type) E.220 (T/C) \$18 2003.12 - RC1/2 ENO7 \$14 2005.1 - R1/2 ENO7 \$14 STELLA 2006.6 - RN1/2 ENO7 (NA) \$14 SVZWKI LAPIN 2005.9 ZC315 M16A \$14 LAPIN 2005.9 ZC315 M16A \$14 CERVO 2007.10 H6215 K6A (NA, CVT) \$10 WAGON R 2006.9 MH235 K6A (T/C) \$11C	LEGACY	2009.5 -	BRF	EZ36	S2A
2007.5 - BL/BPS (E type -) E200 E202 (TC). S2A (SOHC, NA) 2006.5 - BL/BPE (D Type -) BL/BPE (D Type -) E200 S1B (DOHC, NA) S1B 2005.1 - BL/BPE (D Type -) BL/BPE (A-C Type) BL/BPE (A-C Type) E200 (TC). S2A S2A 2003.10 - BP9 (A-C Type) BL/BPE (A-C Type) BL/BPE (A-C Type) E220 (TVC). S1B BL/BPE (A-C Type) E220 (TVC). S1B BL/BPE (A-C Type) E220 (TVC). S1B BL/BPE (A-C Type) E220 (TVC). S1B BL/BPE (A-C Type) BL/BPE (A-C Type) E220 (TVC). S1B BL/BPE (A-C Type) E220 (TVC). S1A (DOHC, NA) R1 2005.1 - RJ1/2 EN07 (DOHC, NA) S1A (DOHC, NA) S1A (DOHC, NA) STELLA SUZUKO 2006.6 - RN1/2 EN07 (NA) S1A (DOHC, NA) S1A (DOHC, NA) SWIFT 2005.9 ZC315 M6A (TIC) NGC S1C (COTO S1C S1A (TC) SWIFT 2005.9 ZO315 M6A (TIC) S1C (COTO S1C S3A (TC) TOYOTA 2005.1 ZITZ61 32R+FAE S2A (A) (A) (A) (T) S1C (COTO S1C TOYOTA 20			BM/BR9	EJ25	S2A
Europe Europe Europe Europe Europe 2006.5 - BP9 (0 Type -) E230 S2A 2003.10 - BP9 (A C Type) E230 S1B 2003.4 - BL/BP5 (A-C Type) E230 (T/C) S2A 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1B 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1B R1 2003.1 - 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1B R2 2003.1 - 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1A R2 2003.1 - 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1A STELLA 2005.1 - RAC (T/C) S1A COHC, NA) S1A CERVO 2005.9 - ZOTIS K6A (NA, CVT) S1C CHC SWIFT 2005.9 - ZOTIS K6A (T/C, CVT) S1C CHEV SIS 2007.6 - MH101/SW IAZ-FSE S3A LEXUS RX Hybrid 2008.1 -		2008.5 -	BPH	EJ25	SZA
Europe Europe Europe Europe Europe 2006.5 - BP9 (0 Type -) E230 S2A 2003.10 - BP9 (A C Type) E230 S1B 2003.4 - BL/BP5 (A-C Type) E230 (T/C) S2A 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1B 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1B R1 2003.1 - 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1B R2 2003.1 - 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1A R2 2003.1 - 2003.1 - BL/BP5 (A-C Type) E230 (T/C) S1A STELLA 2005.1 - RAC (T/C) S1A COHC, NA) S1A CERVO 2005.9 - ZOTIS K6A (NA, CVT) S1C CHC SWIFT 2005.9 - ZOTIS K6A (T/C, CVT) S1C CHEV SIS 2007.6 - MH101/SW IAZ-FSE S3A LEXUS RX Hybrid 2008.1 -		2007.5 -	BL/BP5 (E type -)	EJ20 (T/C)	S2A
Image: state in the s		Second Co.			
Euzo Euzo STB 2006.5 - BUBPE (D Type -) EZ30 SZA BP9 (D Type -) EZ30 SZA BP9 (D Type -) EZ30 SZA 2003.10 - BP9 (A C Type) EZ30 SZA 2003.30 - BUBPE (A-C Type) EZ30 STB 2003.4 - BUBPE (A-C Type) EZ30 STB 2003.4 - BUBPE (A-C Type) EZ30 STB R1 2005.1 - RJ1/2 EN07 STA R2 2003.12 - RC1/2 EN07 STA STELLA 2006.6 - RN1/2 EN07 (NA) STA STELLA 2006.1 - HE22S K9A (NA, CVT) STC SWFT 2005.9 ZC31S M16A (T/C, CVT) STC CERVO 2007.10 - HG21S K6A (T/C, CVT) STC TOYOTA STC STA STA STA SIS 2008.1 - ZRT260/255 ZR+FE SZA ALPHARD VELLFIRE 2008.1 -					2.20.2
Image: constraint of the state in					S1B
2006.5 - BUBPE (0 Type -) E230 S2A BP9 (0 Type -) E125 S2A BP9 (CType -) E125 S2A 2003.10 - BP9 (A-C Type) E125 S1B 2003.4 - BU/BPE (A-C Type) E120 (TC) S1B 2003.4 - BU/BPE (A-C Type) E120 (TC) S1B R1 2005.1 - RJ/2 EN07 S1A R2 2003.12 - RC1/2 EN07 S1A STELLA 2006.6 - RN1/2 EN07 (NA) S1A STELLA 2006.8 - RN1/2 EN07 (S1A) S1A SWET 2006.9 - ZC31S M16A (TA, CVT) S1C SWET 2006.9 - ZC31S M16A (TA, CVT) S1C WAGON R 2007.10 - H6218 K6A (TA/C) S1C EXVID 2008.9 - MN10/15G 1A2-FSE S3A ALPHARD VELLFIRE 2004.9 - ANM10/15W 1A2-FSE S3A 2007.8 ZRT260/255 Z2R+FE <					7.070
BPS (D Type) E.125 (T Type) E.120 (TC) S2A 2003.10 - BPS (A-C Type) E.120 (TC) S2A 2003.4 - BL/BPS (A-C Type) E.120 (TC) S1B 2003.4 - BL/BPS (A-C Type) E.120 (TC) S1B R1 2005.1 - R/1/2 EN07 S1A R2 2003.12 - RC1/2 EN07 S1A STELLA 2006.6 - RN1/2 EN07 (MA) S1A SUZUKI LAPIN 2005.9 ZC315 M16A S1A LAPIN 2005.9 ZC315 M16A S1A CERVO 2007.10 - H6215 K6A (NA, CVT) S1C WAGON R 2008.9 - MH1235 K6A (NA, CVT) S1C SIS 2004.9 - ANM10/15G 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZPR7261 3ZR+FAE S2A 2007.6 ZPR1261 3ZR+FAE S2A A ALPHARD VELLFIRE 2008.1 ZPR1261 3ZR+FAE <t< td=""><td></td><td>2006.5 -</td><td>BL/BPE (D Type -)</td><td></td><td>S2A</td></t<>		2006.5 -	BL/BPE (D Type -)		S2A
BLIEPS (D'Type -) E.120 (TrC) S2A 2003.10 BP9 (A-C Type) E.125 STB 2003.4 - BL/BPE (A-C Type) E.20 (TrC) STB 2003.4 - BL/BPE (A-C Type) E.120 (TrC) STB R1 2005.1 - RJ/2 EN07 STB R2 2003.12 - RC1/2 EN07 STA STELLA 2006.6 - RN1/2 EN07 (NA) STA STELLA 2006.8 - RN1/2 EN07 (NA) STA SWIFT 2006.9 ZC31S M16A (TrC, CVT) STC SWIFT 2005.9 ZC31S M16A (TrC, CVT) STC SWGON R 2007.10 H6218 K6A (NA, CVT) STC STG ANM10/15G 1A2-FSE STA STA ELXUS RX Hybrid 2008.9 ANM10/15G 1A2-FSE STA IEXUS RX Hybrid 2008.1 ZRT260/255 22R+FE SZA 2007.8 ZRT260/255 ZR+FE SZA ALPHARD VELLFIRE		10000			
2003.10 BP9 (A-C Type) 2003.9 - EL25 BL/BP5 (A-C Type) EZ30 EZ30 S1B 2003.9 - BU/BP5 (A-C Type) BL/BP5 (A-C Type) BL/BP5 (A-C Type) EJ20 (TC) S1B R1 2005.1 - RJ1/2 EN07 S1A R2 2003.12 - RC1/2 EN07 (NA) S1A STELLA 2006.6 - RN1/2 EN07 (NA) S1A SUZUKI LAPIN 2006.11 - HE22S K6A (NA, CVT) S1C SWIFT 2005.9 ZC315 M16A S1A CERVO 2007.10 - H6215 K6A (NA, CVT) S1C WAGON R 2008.9 - MH235 K6A (NA, CVT) S1C MAGON R 2008.1 ZATSE S3A ZATSE ISIS 2004.9 - ANM10/15W 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZRT260 172-FE S2A ZOT6 ZMT260 172-FE S3A ZATSE ALPHARD VELLFIRE 2008.1 ZRT260 172-FE S3A ZOTO 8<				EJ20 (T/C)	
2003.9 - 2003.4 - 8L/BPS (A-C Type) E230 (TC) S18 R1 2005.1 - 2003.12 - 8L/BPS (A-C Type) EJ20 (TC) S18 R2 2003.12 - 2003.12 - 8L/BPS (A-D Type) EJ20 (TC) S18 STELLA 2006.6 - 8L/BPS (A-D Type) EN07 (DOHC, NA) S1A STELLA 2006.6 - 8L/2006.6 - 8L/2007 RC1/2 (DOHC, NA) S1A SUZUKI 2006.6 - 8L/2007 RC1/2 (DOHC, NA) S1A SUZUKI 2006.9 ZC315 (M16A M16A (TC) S1C SWIFT 2006.9 ZC315 (M16A M16A (TC) S1C SWIFT 2006.9 ZC315 (M16A M16A (TC) S1C WAGON R 2007.10 - 2007.10 - 151S M16A (TC) S1C TOYOTA 51C K6A (T/C) S1C TOYOTA 2004.9 - 2007.6 ZRT260 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZRT260 1A2-FSE S3A 2007.6 ZRT260 1A2-FE S2A ZA 2005.4 MNH10/15W 1A2-FE S3A ZA 2005.4 A MNH10/15W 2A2-FE S3A		2003 10 -			
2003 4 - BUBPS (A-C Type) BUBPS (A-D Type) E120 (T/C) S1B R1 2005.1 - RJ1/2 EN07 (A) S1B R2 2003.12 - RC1/2 EN07 (A) S1A STELLA 2006.6 - RN1/2 EN07 (A) S1A STELLA 2006.6 - RN1/2 EN07 (A) S1A SUZURI LAPIN 2008.11 - HE22S K8A (NA, CVT) S1C SWIFT 2005.9 ZC31S M16A S1A CERVO 2007.10 - HG21S K6A (N, CVT) S1C WAGON R 2008.9 - MH23S K6A (NA, CVT) S1C TOYOTA T ANM10/15G 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZRT260 1A2-FSE S3A 2007.6 ZRT260 1NZ-FE S2A ALPHARD VELLFIRE 2008.1 ZRT260 1NZ-FE S3A 2007.6 ZRT260 1NZ-FE S3A ZA 2005.4 - MH10/15W 1M2-FE					
BL/BPS (A-D Type) EL20 (NA) S1B R1 2005.1 - RJ/2 EN07 (DOHC, NA) S1A R2 2003.12 - RC 1/2 EN07 (DOHC, NA) S1A STELLA 2006.6 - RN1/2 EN07 (DOHC, NA) S1A SUZUNC 2006.6 - RN1/2 EN07 (NA) S1A SUZUNC 2006.9 ZC31S M16A S1A CERVO 2007.10.1 H621S K6A (NA, CVT) S1C SWIFT 2006.9 ZC31S M16A S1A CERVO 2007.10.1 H621S K6A (NA, CVT) S1C WAGON R 2004.9 - ANM10/15G 1AZ-FSE S3A ISIS 2004.9 - ANM10/15G 1AZ-FSE S3A LEXUS RX Hybrid 2008.5 - GGH20/25W 2/R+FE S2A 2007.6 ZRT260 1/RZ-FE S3A A ALPHARD VELLFIRE 2008.5 - GGH20/25W 2/R+FE S2A 2005.4 - MNH10/15W 1/MZ-FE S3A					
R1 2005.1 - R/1/2 ENG7 (DOHC, NA) S1A R2 2003.12 - RC1/2 ENG7 (DOHC, NA) S1A STELLA 2006.6 - RN1/2 ENG7 (DOHC, NA) S1A SUZUKI LAPIN 2008.11 - HE22S K6A (NA, CVT) S1C SWIFT 2005.9 ZC31S M16A S1A SWIFT 2005.9 ZC31S M16A S1A QERVO 2007.10 - HG21S K6A (NA, CVT) S1C WAGON R 2008.9 - MH23S K6A (NA, CVT) S1C TOYOTA S1G X6A (T/C) S1C S1A IEXUS RX Hybrid 2008.1 ZRT260 1AZ-FSE S3A 2007.6 ZRT260/265 2ZR-FE S2A A ALPHARD VELLFIRE 2008.5 - GGH20/25W 2QR-FE S3A 2005.4 - MH10/15W 1MZ-FE S3A A ANH10/15W 2AZ-FE S3A A A 2007.8 - GGH20/25W		2212223			
R2 2003.12 - RC 1/2 (DOHC, NA) STELLA 2006.6 - RN1/2 EN07 S1A SVZUKI 2006.6 - RN1/2 EN07 (NA) S1A SVZUKI 2006.6 - RN1/2 EN07 (NA) S1C SVZUKI 2006.9 ZC315 M16A S1C SWIFT 2005.9 ZC315 M16A S1C SWIFT 2005.9 ZC315 M16A S1C GERVO 2007.16 - HG215 K6A (T/C, CVT) S1C WAGON R 2008.9 - MH123 K6A (T/C, CVT) S1C TOYOTA 516 ZRT261 32R+FAE S3A LEXUS RX Hybrid 2008.1 ZRT260 1A2-FSE S3A ALPHARD VELLFIRE 2008.5 - GGH20/25W 2/R+FE S2A 2005.4 - MH10/15W 1M2-FE S3A ALPHARD VELLFIRE 2008.5 - GGH20/25W 2/R+FE S2A 2007.8 - CGH20/25W 2/R+FE S3A 2/R <td>R1</td> <td>2005.1</td> <td></td> <td></td> <td></td>	R1	2005.1			
R2 2003.12 - STELLA RC1/2 (OOHC, NA) ENO7 (OOHC, NA) S1A STELLA 2006.6 - SUZHG RN1/2 ENO7 (NA) S1A SUZHG 2008.11 - SUZHG HE22S K6A (NA, CVT) S1C SWIFT 2005.9 ZC31S M16A S1A SWIFT 2005.9 ZC31S M16A S1A QUARD 2007.10 - 2007.10 - M423S K6A (NA, CVT) S1C TOYOTA 2008.9 - M123S M16A S1A TOYOTA 2008.1 - 2007.6 XRT260 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZRT261 3ZR-FAE S2A 2007.6 ZRT260/265 ZR+FE S2A XA ALPHARD VELLFIRE 2008.5 - ANH20/25W 2QR+FE S3A VANGUARD 2008.8 - ACA38W 2QZ+FE S3A QUT.8 - CGE20/250 2GR+FE S3A QUT.8 - ACA33W 2QR+FE S3A QUT.8 - CGE20/250 ZGE20/250 ZR+FAE S2A QUT.8 - CGE20/250 ZGE2/27			110 112		0.04
STELLA 2006 6 - RN1/2 EN07 (NA) S1A SUZUKI 2008 11 - HE22S K6A (NA, CVT) S1C SUZUKI 2008 11 - HE22S K6A (NA, CVT) S1C SWIFT 2005 9 Z031S M16A S1A GERVO 2007 16 - HG21S K6A (T/C, CVT) S1C WAGON R 2008 9 - MH23S K6A (T/C, CVT) S1C TOYOTA 510 X6A (T/C, CVT) S1C S1C TOYOTA 2008 9 - ANM10/15G 1A2-FSE S3A LEXUS RX Hybrid 2008 1 ZRT261 32R-FAE S2A 2007 6 ZRT260 1N2-FE S3A NAT260 NZ7260 NZ7-FE S2A ALPHARD VELLFIRE 2008 5 - GGH20/25W 20R-FE S2A NAT260/25W 202-FE S3A IPSUM 2003 10 - ACM21/26W 2A2-FE S3A A A VANGUARD 2008 4 - ACM210/25W 2A2-FE S3A A	82	2003 12 -	BC1/2		SIA
STELLA 2006 6 - RN1/2 EN07 (NA) STA LAPIN 2008.11 - HE22S K6A (INA, CVT) STC SWIFH 2005.9 ZC31S M16A STC CERVO 2007.16 - HG21S M6A STC WIFT 2008.9 - M123S K6A (IYC) STC WAGON R 2008.9 - M123S K6A (IYC) STC TOYOTA 2008.1 ZRT261 32R-FSE STA ISIS 2004.9 - ANM10/15W 1A2-FSE STA LEXUS RX Hybrid 2008.1 ZRT261 32R-FAE SZA 2007.8 ZRT260/265 ZRT-FE SZA ALPHARD VELLFIRE 2008.5 - GGH20/25W 2A2-FE STA 2007.8 2005.4 - MH10/15W 1A2-FE STA VANGUARD 2008.8 - ACA38W 2A2-FE STA 2007.8 - GSA3W 2GR-FE STA ZOE20/260 ZR+FAE STA ZCE20/26G ZR+FAE	146	- 40000/14(ine uz		310
SUZUKI KRA (NA, CVT) STC LAPIN 2008.1.1 HE22S KRA (NA, CVT) STC SWIFT 2005.9 ZC31S M16A STA CERVO 2007.10.1 HG21S K6A (T/C) STC WAGON R 2008.9 MH23S K6A (T/C) STC TOYOTA 2008.9 ANM10/15Q 1A2-FSE SSA ISIS 2004.9 ANM10/15Q 1A2-FSE SSA LEXUS RX Hybrid 2008.1 ZRT261 3ZR-FAE SSA 2007.6 ZRT260 1A2-FSE SSA AA ALPHARD VELLFIRE 2006.5 GGH20/25W 2A2-FE SSA IPSUM 2003.10 ACM21/26W 2A2-FE SSA IPSUM 2003.10 ACM21/26W 2A2-FE SSA VANGUARD 2008.4 ACA33W 2A2-FE SSA 2007.8 CGE7/0225W 22R+FAE S2A 2007.8 CGE7/0225W 22R+FAE S2A 2003.4	STELLA	2006 6 -	RN1/2		SIA
LAPIN 2008.11 - 2005.9 HE22S HGA (NA, CVT) STC STC SWIFT 2005.9 ZC31S M16A STC CERVO 2007.16 - 2008.9 HG21S M16A STA WAGON R 2008.9 M123S K6A (T/C) STC TOYOTA STC K6A (T/C) STC TOYOTA STC K6A (T/C) STC TOYOTA STC ANM10/15G 1AZ-FSE STA LEXUS RX Hybrid 2008.1 ZRT261 3ZR-FAE SZA 2007.8 ZRT260/2655 2ZR-FE SZA ANAT2600 NAT2500 1NZ-FE SZA ANAT260/25W 2QR-FE SZA 2005.4 GH120/25W 2QR-FE SZA ANAT260/25W 2QR-FE SZA VANGUARD 2008.8 ACA38W 2QR-FE SZA ANAT260/27W 2RA-FE SZA VINGH 2009.4 ZGE20/25W 2QR-FE SZA ZGE20/25W 2QR-FE SZA VANGUARD 2009.4 <t< td=""><td></td><td>2000.0*</td><td>1.1.1.1.2</td><td>man (avy</td><td></td></t<>		2000.0*	1.1.1.1.2	man (avy	
SWIFT 2005 9 ZC315 M16A S1C CERVO 2007.10 - HG215 K6A (17C, CVT) S1C WAGON R 2008.9 - MH23S K6A (17C, CVT) S1C TOYOTA 102.058.9 - MH23S K6A (17C, CVT) S1C TOYOTA 102.758 S3A S1A S1C TOYOTA 2008.1 ZR1261 32R-FAE S3A LEXUS RX Hybrid 2008.1 ZR12615 32R-FAE S3A ALPHARD VELLFIRE 2006.5 - GGH20/25W 20R-FE S3A ALPHARD VELLFIRE 2006.5 - GGH20/25W 20R-FE S3A IPSUM 2005.10 - ACM21/26W 2A2-FE S3A IPSUM 2003.10 - ACM21/26W 2A2-FE S3A 2007.8 - GSA33W 2A2-FE S3A 2007.8 - GSA33W 2A2-FE S3A 2007.8 - GSA33W 2A2-FE S3A 2003.4 - ANE10G 1A2-FSE S3A		2008 11	LE226	YEA (NA CAT)	810
SWIFT 2005.9 ZC315 M16A S1A CERVO 2007.10 H6215 K6A (T/C, CVT) S1C WAGON R 2008.9 MH23S K6A (T/C, CVT) S1C TOYOTA ISIS 2004.9 ANM10/15W 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZRT261 3ZR+FAE S2A ALPHARD VELLFIRE 2008.6 GH20/25W 22R+FE S2A ALPHARD VELLFIRE 2005.4 GH20/25W 22R+FE S2A 2007.8 GGH20/25W 22R+FE S3A 2007.8 GGA120/25W 22R+FE S3A VANGUARD 2008.8 ACA38W 2A2-FE S3A VANGUARD 2009.4 ZGE2/026W 22R+FAE S2A ZO07.8 2GE2/026W 22R+FAE S2A ZO07.8 ZGE2/026W 22R+FAE S2A ZO07.8 ZGE2/026W 22R+FAE S2A ZO07.8 ZGE2/026W 22R+FAE S2A ZO09.4 Z	LAPIN	2000.11*	TILEZO		
CERVO 2007.10 - HG218 K6A (T/C, CVT) S1C WAGON R 2008.9 - MH23S K6A (T/C, CVT) S1C TOYOTA 51C K6A (T/C, CVT) S1C ISIS 2008.9 - ANM10/15G 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZRT260 1A2-FSE S3A LEXUS RX Hybrid 2008.5 - GGH20/25W 22R+FE S2A ALPHARD VELLFIRE 2008.5 - GGH20/25W 2A2-FE S3A ANH10/15W 1M2-FE S3A ANH10/15W 2A2-FE S3A IPSUM 2008.5 - GGH20/25W 2A2-FE S3A A VANGUARD 2008.4 - ANH10/15W 1M2-FE S3A A VANGUARD 2008.8 - ACA33W 2A2-FE S3A A VANGUARD 2009.4 - Z0621/0/22W 2A2-FE S2A Z02A	PIANET	2005 0	70340		
WAGON R 2008.9 - MH23S K6A (NA, CVT) S1C TOYOTA					
TOYOTA K6A (T/C) STC ISIS 2004 9 - ANM10/15G 1A2,FSE S3A LEXUS RX Hybrid 2008.1 ZRT261 3ZR-FAE S2A 2007.6 ZRT261 3ZR-FAE S2A ALPHARD VELLFIRE 2008.1 ZRT260/265 2ZR-FE S2A ALPHARD VELLFIRE 2006.5 GGH20/25W 2QR-FE S2A 2005.4 MMH10/15W 1M2,FE S3A 2007.8 2005.4 MH110/15W 2A2,FE S3A 2007.8 2008.8 ACA33W 2A2,FE S3A 2007.8 ACM21/26W 2A2,FE S3A 2007.8 GSA33W 2Q2,FE S3A 2007.8 GSA33W 2Q2,FE S3A 2007.8 GSA33W 2Q2,FE S3A 2003.4 ANE10G 1A2,FE S3A 2003.4 ANE10G 1A2,FE S3A 2003.4 ANE10G 1A2,FE S3A 2003.4 ANE10G 1A2,FE <td></td> <td></td> <td></td> <td></td> <td></td>					
TOYOTA 2004 9 - ANM10/15G 1A2-FSE S3A ISIS 2008 9 - ANM10/15G 1A2-FSE S3A LEXUS RX Hybrid 2008.1 ZIRT261 32R-FAE S2A ALPHARD VELLFIRE 2008.6 CR1260/265 22R-FE S2A ALPHARD VELLFIRE 2008.5 GGH20/25W 2QR-FE S2A 2005.4 MMH10/15W 1M2-FE S3A PSUM 2003.10 ACM21/26W 2A2-FE S3A VANGUARD 2008.8 ACA38W 2A2-FE S3A 2007.8 GSA33W 2QR-FE S2A ANH10/15W 2A2-FE S3A A 2007.8 GGA33W 2A2-FE S3A 2007.8 CGE/022W 2ZR-FAE S2A 2007.8 CGE/022W 2ZR-FE S2A 2003.4 ANE10G 1A2-FSE S3A 2003.4 ANE10G 1A2-FE S3A VITZ 2005.2 NCP91 1N2-FE S2A	WAGON R	2008.9 -	MH235		
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VANGUARD 2008.8 - 2007.8 - 2007.8 - 2007.8 - 2007.8 - 2007.8 - 2003.9 - 2009.4 - 2002.2 - 2002.9 - 2005.9 -					
2007.8 - ACA33W 2GR-FE S2A WISH 2009.4 - ZOE20/250 2ZN-FAE S2A 2005.9 (2256) 2ZN-FAE S2A 2005.9 (2257) 2ZN-FAE S2A 2003.4 (200					
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2003 4 - ANE 10G 1AZ-FSE S3A ANE 10G ANE 10G 1AZ-FSE S3A ANE 11W 1AZ-FSE S3A VITZ 2005.2 - NCP91 1NZ-FE S2A SCP90 28Z-FE S2A ESTIMA 2006.1 - 2003.5 - ACR50/65W 2GR-FE S2A 2003.5 - AURIS ACR50/65W 2AZ-FE S2A 2003.6 - AURIS ACR50/65W 2AZ-FE S2A 2006.6 - AURIQ AHR20W 2A Z-FXE S2A AURIS 2006.1 - ZRE15/154H1 ZIR-FE S2A CAMRY 2006.1 - ACV40/45 ZAZ-FE S2A CALDINA 2002.9 - AZT241W TAZ-FSE S3A		100000			
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HONDA Convision RB3/4 K24A S4A CIVIC 2006.4 - FD2 K20A S4A CIVIC 2005.9 - FD2 K20A S4A STEPWGN 2005.5 - RG3/4 K20A S4A STREAM 2006.7 - R18/7 R18A S4A STREAM 2006.7 - R19/7 R18A S4A FIT 2007.10 - GE0/7 L13A S7A PANIS 2005.5 - GB3/4 L15A S7A PANIS 2005.2 - ZE2 LDA S4A CROSSROAD 2007.2 RT3/4 R20A S4A CR-V 2006.10 - RE3/4 K24A S4A CR-V 2005.8 - GRS181 2GR-FSE S1A GS460 2007.10 - GES10 2GR-FSE S1A GS430 2005.8 - GRS186 2GR-FSE S1A GS460 2007.10 - URS180 1UR-FSE S1A <t< th=""><th>VEHICLE</th><th>MODEL YEAR</th><th>CAR MODE</th><th>ENGINE MODEL</th><th>HARNESS MODE</th></t<>	VEHICLE	MODEL YEAR	CAR MODE	ENGINE MODEL	HARNESS MODE
CIVIC 2006.4 - 2005.9 - FD2 FD2 FD2 K20A K20A SHA SHA STEPWGN 2005.5 - R01/2 R03/4 R01/2 K20A SHA STREAM 2006.7 - RN8/7 R18A SHA FIT 2007.10 - GE0/9 GE0/9 L15A STA FREED 2008.5 - GB3/4 GE0/9 L15A STA GROSSROAD 2009.2 - 2009.2 - ZE2 ZE2 LDA SHA CR-V 2006.10 - CR35106 R534 K24A SHA GS350 2005.8 - GRS181 GR-FSE SHA GS440 2006.7 - STA GRS180 SU2-FE SHA GS450 2007.1 - GRS1800 SU2-FE SHA SHA GS450 2007.1 - GS500 GRS180 SU2-FE SHA GS460 2007.1 - GS500 GS520/25 4GR-FSE SHA STA GGS450 2005.9 - GS521 GSR-FSE SHA STA CGS350 2005.9 - GS521 GSR-FSE SHA MAZDA ZO07.1 - DYSW Z	HONDA				
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DEMIO (M2) 2007.7 - DE3A9/FS DYSW ZY-VE S2A Q005.4 - DYSW ZY-VE S1A S1A ROADSTER 2005.9 - ZO05.6 - ZO05.6 - DCSW/R DYSW ZY-VE S1A VERISA 2006.6 - ZO06.2 - ZO06.2 - ZO06.1 - DCSW/R ZY-VE S1A MPV 2006.2 - ZO06.1 - ZO06.1 - ZO07.10 - ZOVEW E33P L3-VDT/VE S2A MITSUBRISHI Z006.1 - ZO07.10 - ZOVEW B3B.MSP S1A I 2006.1 - ZO07.10 - ZOVEW B320 S6A OUTLANDER 2007.10 - ZOVEW CWEW B31 S6A GALANT 2007.8 - ZO07.8 - ZOVAG CY4A 4811 S6A GALANT 2008.12 - ZOVAG CX4A 4811 S6A COUT Z004.10 - ZZ1/ZZA Z4391 S1C ZZ7A Z004.10 - ZZ7/ZAA Z4315 S1C ZZ7A 4615 S1C ZZ7/ZAA 4619 S1C ZZ4/ZA 4639 S1C ZZ7/ZAA 4615 S1C DELICA 2007.1 - Z007.10 - Z007.10 - Z004.12 -					
DE3AS/FS ZJ-VE S2A 2005 4 - DYSW ZY-VE S1A POADSTER 2005 9 - NCEC LF-VE S1A VERISA 2005 6 - DCSW/R ZY-VE S1A CX.7 2006 12 - ER3P L3-VDT/VE S1A MPV 2006 2 - LY3P L3-VDT/VE S2A MPV 2006 2 - LY3P L3-VDT/VE S2A MTSUBISHI 2005 10 - CWSW 6B31 S6A OUTLANDER 2007 10 - CWSW 4B12 S6A 2005 10 - CWSW 4B11 S6A GALANT 2005 12 - ZYAAG 4G15(TC) S1C 2007 10 - Z27A/AG 4G15(TC) S1C Z27A/AG 4G15 S1C 2002 11 - Z2702A 4A91 S1C Z272A 4G15 S1C 2002 11 - Z2702A 4G15 S1C Z272A 4G15 S1C 2002 11 - Z2702A 4G15					
2005 4 - DYSW ZY-VE S1A DY3WZ ZJ-VE S1A DYSW ZJ-VE S1A DYSW ZJ-VE S1A DYSW ZJ-VE S1A VERISA 2005 9 - NCEC LF-VE S1A CX-7 2006 12 - ER3P L3-VDT S2A MPV 2006 2 - LY3P L3-VDTVE S2A MTSUBISHI - S53P 138-MSP S1A OUTLANDER 2006 1 - HATW 3820 S6A GALANT 2006 1 - CWSW 6831 S6A GALANT 2007 8 - CY4A 4811 S6A GALANT SPORT PACK 2008 12 - CX4A 4811 S6A COUT 2006 10 - Z23/24A 4A91 S1C Z27A 4G15(TIC) S1C Z27/22A 4G15 Z002 11 - Z27/22A 4G15 S1C Z27/22A 4G19 S1C Z27/22A 4G1	DEMIO (M2)	2007.7 -			
DY3W ZJ-VE \$1A POADSTER 2005 6 - DCSW/R ZJ-VE \$1A VERISA 2005 6 - DCSW/R ZY-VE \$1A CX-7 2006 12 - ER3P L3-VDT \$2A MPV 2006 12 - LY3P L3-VDT/VE \$2A MPV 2006 2 - LY3P L3-VDT/VE \$3A MTSUBISHI 2006 1 - HATW 3B20 \$6A OUTLANDER 2007 10 - CW6W 6B31 \$6A QUTLANDER 2007 10 - CW6W 4B12 \$6A GALANT 2007 8 - CY4A 4B11 \$6A GALANT SPORT PACK 2008 12 - CX4A 4B11 \$6A COLT 2006 10 - Z23/24A 4015 (TC) \$1C Z27A 4A91 \$1C Z21/22A 4A91 \$1C Z2004 10 - Z23/24A 4015 \$1C Z21/22A 4A91 \$1C Z27/2A 4A91 \$1C Z21/22A					
ROADSTER 2005 9 - NCEC LF-VE S1A VERISA 2005 6 - DCSW/R ZY-VE S1A CX-7 2006 12 - ER3P L3-VDT S2A MPV 2006 2 - I/3P L3-VDT S2A MPV 2006 2 - I/3P L3-VDT/E S2A MTSUBISHI 2003 4 - SE3P 13B-MSP S1A OUTLANDER 2006 1 - HATW 3B20 S6A OUTLANDER 2006 1 - CWSW 6B31 S6A GALANT 2006 7 - CWSW 4B11 S6A GALANT 2007 8 - CY4A 4B11 S6A COUT 2008 10 - Z2324A 4A91 S1C Z272A 4A91 S1C Z2772A 4G15(TC) S1C Z2772AB 4G15 S1C Z2572A 4G19 S1C Z2772AB 4G15 S1C Z2572A 4G19 S1C Z2002 11 - Z2772ABA 4G19		2005.4 -			
VERISA 2005 6 - DCSW/R ZY-VE S1A CX-7 2006 12 - ER3P L3-VDT S2A MY 2006 2 - LY3P L3-VDT S2A RX-8 2003 4 - SE3P L3-VDT/VE S2A MTSUBISHI 2006 1 - HATW 3B20 S6A OUTLANDER 2007 10 - CW6W 6B31 S6A OUTLANDER 2007 10 - CW6W 6B31 S6A GALANT 2005 12 - CY4A 4B11 S6A GALANT SPORT PACK 2008 12 - CX4A 4B11 S6A COLT 2005 10 - CW5W 6B31 S6A COLT 2005 12 - CX4A 4B11 S6A GALANT SPORT PACK 2008 12 - CX4A 4B11 S6A COLT 2002 11 - 223/24A 4015 (TIC) S1C Z2772A 4015 (STIC) S1C 225/28A 4019 S1C DELICA 2007 10 - CZ4/AT (Ype)		100000			
CX.7 2006.12 ER3P L3-VDT S2A MPY 2006.2 LY3P L3-VDT/VE S2A RX-8 2003.4 SE3P L3-VDT/VE S2A MITSUBISHI 2006.1 HATW B20 S6A OUTLANDER 2007.10 CW6W B301 S6A GALANT 2007.6 CW6W 4812 S6A GALANT 2007.6 CY4A 4811 S6A GALANT 2007.6 CY4A 4811 S6A COLT 2007.6 CY4A 4811 S6A COLT 2007.6 Z27/AAG 4315(T/C) S1C Z21/22A 4A90 S1C Z27/ZAA 4315 S1C Z21/22A 4A91 S1C Z27/ZAA 4315 S1C Z202.11 Z27/ZAA 4315 S1C Z27/ZAA 4315 S1C Z202.11 Z27/ZAA 4315 S1C Z27/ZAA 4315 S1C Z27/ZAA					
MPV RX-8 2006 2 - 2003 4 - I IY3P SEP L3-VDT/VE 13B-MSP S2A MITSUBISHI I 2006 1 - 2007 10 - 2005 10 - CWSW 3B20 6831 S6A GALANT GALANT SPORT PACK 2006 1 - 2006 12 - 2006 12 - 2006 12 - 2006 12 - 2004 10 - 223/22A HATW 4812 S6A COLT 2005 10 - 2006 12 - 2006 12 - 2006 12 - 2006 12 - 2006 12 - 223/22A 4B11 S6A COLT 2006 12 - 223/22A 4A91 4A91 S1C 22004 10 - 227/22A 223/24A 4A91 4G15 (TC) S1C 2002 11 - 227/22A 227/22A 4G15 S1C S1C 2002 11 - 227/22A 225/28A 4G19 S1C 2002 11 - 227/22A 225/28A 4G19 S1C 2002 11 - 2007 10 - 20					
RX-8: 2003.4 - SE3P 13B-MSP S1A ITTSUBRH 2006.1 - HATW 3B20 S6A OUTLANDER 2007.10 - CW6W 6B31 S6A 2005.10 - CW6W 6B31 S6A 2007.60 - CW6W 6B31 S6A 2007.61 - CW6W 4B12 S6A 2007.61 - CV4A 4B11 S6A GALANT 2007.6 - CY4A 4B11 S6A COLT 2005.1 - ZX7AAG 4015(T/C) S1C Z21/22A 4A30 S1C ZZ12AA 4315 S1C Z202.11 - ZZ7ZAA 4315(T/C) S1C ZZ7ZAA 4315 S1C EVO 2007.1 - CV5W 4811 S6A S6A NISSAM WINGROAD 2005.11 - Y12 MR18DE S5A ELGRAND 2002.5 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A					
NITSUBISHI 2006.1 - HATW 3B20 S6A OUTLANDER 2007.10 - CW6W 6B31 S6A QUTLANDER 2005.10 - CW6W 6B31 S6A GALANT 2005.10 - CW6W 4B12 S6A GALANT 2007.10 - CW6W 4B12 S6A GALANT SPORT PACK 2008.12 - CX4A 4B11 S6A COLT 2006.5 - 277A/AG 4G15(TIC) S1C 22004.10 - 223/24A 4A31 S1C 2207 2004.10 - 223/24A 4G15 S1C 2004.10 - 223/24A 4G15 S1C 227/22A 4G15 S1C 2007.1 - 2007.1 - 225/28A 4G19 S1C 225/28A 4G19 S1C EVO 2007.10 - C24A(X Type) 4B11 S6A MISBAN WINSROAD 2005.11 - Y12 MR18DE S5A S5A ELGRAND 2004.12 - E51 VQ25DE					
I 2006.1 - HATW 3520 \$6A OUTLANDER 2007.10 - CW6W 6831 \$6A 2005.10 - CW6W 4812 \$6A GALANT 2007.6 - CV4A 4811 \$6A GALANT 2007.6 - CV4A 4811 \$6A GALANT SPORT PACK 2008.12 - CX4A 4811 \$6A COLT 2006.5 - 227A/AG 4015(T/C) \$1C 2004.10 - 223/24A 4015 \$1C 2002.11 - 227/2AA 4015 \$1C 2002.11 - 227/2AA 4015 \$1C 2002.11 - 227/2AA 4015 \$1C EVQ 2007.1 - CV5W 4811 \$6A NISSAN WINGROAD 2005.11 - Y12 MR18DE \$5A ELGRAND 2004.12 - E51 VQ25DE \$3A 2002.5 - E51 VQ35DE \$3A 2002.5 - E551 VQ35DE \$3A		2003.4 -	SE3P	13B-MSP	S1A
OUTLANDER 2007.10 - 2005.10 - CWWW CWWW 6B31 S6A GALANT 2007.6 - 2006.10 - CWWW CY4A 4B12 S6A GALANT 2008.10 - 2008.12 - COLT CX4A 4B11 S6A COLT 2008.12 - 2004.10 - Z21/22A 4A91 S1C Z27A 4G15(TIC) S1C Z27A 4G15 S1C Z27A 4G15 S1C Z272A 4G15 S1C Z27A 4G15 S1C Z272A 4G15 S1C Z272A 4G15 S1C Z272A 4G15 S1C Z272B 4G15 S1C Z272B 4G15 S1C VINGROAD 2007.10 - CZ4A(X Type)		ieneen i	PERSONAL PROPERTY AND INC.	100000	1
2005.10- CWSW 4B12 S6A GALANT 2007.8- CY4A 4B11 S6A GALANT SPORT PACK 2008.12- CX4A 4B11 S6A COLT 2006.5- 227A/AG 4915(TrC) S1C 2004.10- 223/24A 4A91 S1C 227A 4A90 S1C 227A 4A91 S1C 227A 4A91 S1C 227A 4A91 S1C 227A 4Q15 S1C 227A 4Q15 S1C 2272A 4Q15 S1C 2272A 4Q15 S1C 2272A 4Q15 S1C 2272A 4Q15 S1C 2002.11- 227/28A 4Q15 S1C 2007.12- CV5W 4B12 S6A WINGROAD 2007.10- CV4A(Type) HR15DE S5A ELGRAND 2004.12- E51 VQ25DE S3A 2002.5- E51					
GALANT 2007.8 - CY4A 4B11 S6A GALANT SPORT PACK 2008.12 - CX4A 4B11 S6A COLT 2008.5 - Z27A/AG 4G15(T/C) S1C Z2004.10 - Z23/24A 4A91 S1C Z21/Z2A 4A91 S1C Z27A 4G15(T/C) S1C Z27A 4G15 S1C Z27A 4G15 S1C Z27A 4G15 S1C Z27A 4G15 S1C Z272A 4G15 S1C Z272A 4G15 S1C Z272A 4G15 S1C Z272A 4G15 S1C Z27A 2007.10 - CV5W 4B11 S6A S6A EVO 2007.10 - CZ4A(X Type) 4B11 S6A MRISDE S5A ELIGRAND 2004.12 - E51 VQ25DE 2002.5 - E51 VQ25DE S3A 2002.5 - E55 QR25/35DE S5A	OUTLANDER				
GALANT SPORT PACK 2008.12 - CX4A 4B11 S6A COLT 2006.5 - 227A/AG 4015(TIC) S1C 2004.0 - 223/24A 4A91 S1C 221/22A 4A90 S1C 227A 4G15(TIC) S1C 227A 4G15(TIC) S1C 227A 4G15 S1C 2002.11 - Z25/28A 4G19 VISSAN 2007.1 - CV4N WINGROAD 2005.11 - Y12 WINGROAD 2004.12 - E51 VQ25DE 2002.5 - E51 VQ25DE S3A 2002.5 - E54 VQ25DE S3A					
COLT 2006.5 - 2004.10 - 221/22A 227A/AG 4G15(T/C) S1C Z21/22A 4A91 S1C Z21/22A 4A91 S1C Z21/22A 4A91 S1C Z21/22A 4A91 S1C Z21/22A 4G15 S1C Z2/2A Z2/2A 4G15 S1C Z202.11 - Z27/2ZA 4G15 S1C Z2/2A Z2/2A S6A EVO 2007.1 - C/2K/W 4B12 S6A S6A EVO 2007.10 - C/2A/X Type) 4B11 S6A WINGROAD 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A CARAVAN 2007.9 - E26 QR25/35DE S5A					
2004.10 - 223/24A 4A91 S1C Z21/22A 4A90 S1C 227A Z27A 4A90 S1C 227A 2002.11 - 227A 4G15(T/C) S1C 2002.11 - 225/28A 4G15 S1C 2007.12 - 225/28A 4G15 S1C 2007.13 - CV5W 4B12 S6A EVG 2007.10 - C24A(X Type) 4B11 S6A MINSROAD 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E55 VQ25DE S3A 2002.5 - E55 Q2505E S5A					
Z21/22A 4A90 S1C Z27A 4G15(T/C) S1C Z27/2A 4G15(T/C) S1C Z27/2BA 4G15(T/C) S1C Z25/2BA 4G19 S1C Z25/2BA 4G19 S1C EVO 2007.1 - C/SW 4B12 S6A EVO 2007.10 - C/A(X Type) 4B11 S6A NISSAN Vil/GROAD 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A CARAVAN 2007.9 - E26 QR25/35DE S5A	COLT				
ZZ7A 4G15(T/C) S1C 2002.11 - Z25/28A 4G15 S1C Z25/28A 4G19 S1C Z25/28A DELICA 2007.1 - CV5W 4B12 S6A EVO 2007.10 - CZ4/X Type) 4B11 S6A MISSAN - CZ4/X Type) 4B11 S6A ELGRAND 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E55 VQ25DE S3A 2002.5 - E55 VQ25DE S3A 2007.9 - 2262 Q250E S3A		2004.10 -			
2002 11 - 227/28A 4G15 S1C ZZ5/26A 4G19 S1C DELICA 2007.1 - CV5W 4B12 S6A EVO 2007.10 - CZ4A(X Type) 4B12 S6A MINGROAD 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A			Z21/22A	4A90	SIC
Z25/28A 4/G19 S1C DELICA 2007.1 - C/SWV 4/B12 S6A EVO 2007.10 - CZ4A(X Type) 4/B11 S6A NISSAN					
DELICA 2007.1 - CVSW 4B12 S6A EVO 2007.10 - CZ4A(X Type) 4B11 S6A NISSAN 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A 2002.7 - E55 QR25/35DE S5A		2002.11 -	Z27/28A		
EVO 2007.10 - CZ4A(X Type) 4B11 S6A NISSAM VINGROAD 2005.11 - Y12 MR18DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ25DE S3A 2002.5 - E55 QR25/35DE S3A			Z25/26A	4G19	81C
NISSAN 2005.11 - Y12 MR18DE S5A WINGROAD 2005.11 - Y12 HR15DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ35DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A	DELICA	2007.1 -	CV5W	4B12	S6A
NISSAN 2005.11 - Y12 MR18DE S5A HR15DE S5A HR15DE S5A ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ35DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A	EVO	2007.10 -	CZ4A(X Type)	4811	S6A
ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ35DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A	NISSAN				
ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ35DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A		2005.11 -	Y12	MR18DE	S5A
ELGRAND 2004.12 - E51 VQ25DE S3A 2002.5 - E51 VQ35DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A	N 0357838075325	12105/07010003	0.4465		
2002.5 - E51 VQ35DE S3A CARAVAN 2007.9 - E25 QR25/35DE S5A	ELGRAND	2004.12 -	E51		
CARAVAN 2007.9 - E25 QR25/35DE S5A	0.000				
	CARAVAN				
				ZD30DDTI	S5A S5A

VEHICLE	MODEL YEAR	CAR MODE	ENGINE MODEL	HARNESS MODE
COROLLA FIELDER	2006.10 -	ZRE142/144G	2ZR-FE	S2A
		NZE141/144G	1NZ-FE	S2A
	2004.4 -	NZE121G	1NZ-FE	S3A
COROLLA RUNX	2004.4 -	NZE121	1NZ-FE	S3A
COROLLA RUMION	2007.10 -	ZRE152/154N	2ZR-FE	S2A
CELESCO CONTRACTOR CONTRACTOR CONTRACTOR	NO.2276-112-215 12	NZE151N	1NZ-FE	S2A
CROWN	2008.2 -	GRS204	2GR-FSE	S2A
1000000000000	and the set	GRS202/203	3GR-FSE	S2A
	1	GRS200/201	4GR-FSE	S2A
	2005.10 -	GRS184	2GR-FSE	S1A
	2003.12 -	GRS182/183	3GR-FSE	S1A
	in the second	GRS180/181	4GR-FSE	S1A
	2001.8 -	JZS171	1JZ-FSE	S3A
KLUGER	2003.8 -	MCU20/25W	1MZ-FE	S1A
KLUGER HYBRID	2005.3 -	MHU28W	3MZ-FE	S1A
NOAH VOXI	2007.6 -	ZRR70/75W	3ZR-FAE	S2A
		ZRR70/75G.W	3ZR-FE	S2A
	2001.11 -	AZR60/65G	1AZ-FSE	S3A
HIACE	2007.8 -	TRH211/216/	2TR-FE	S1A
12237257	5-22 m 2 m	221/226K	10000000000	
		KDH201/206/	1KD-FTV	S1A
		211/221K		
		KDH201/206V	1KD-FTV	S1A
	2004.8 -	TRH214/219/	2TR-FE	S1A
	1000 320	224/229W	0000000000	0.00000
		TRH221/226K	2TR-FE	S1A
		TRH200V/K	1TR-FE	S1A
		KDH200/205V	2KD-FTV	S1A
	1	KDH200/	2KD-FTV	SIA
		220/225K	0503753355	porcine)
HILUX SURF	2005.8 -	GRN125W	1GR-FE	S1A
		TRN210/215W	2TR-FE	S1A
HARRIER	2006.1 -	GSU35/36W	2GR-FE	S1A
		GSU30/31W	2GR-FE	S1A
	2003.2 -	MCU35/36W	1MZ-FE	SIA
		MCU30/31W	1MZ-FE	SIA
HARRIER HYBRID	2005.3 -	MHU38W	3MZ-FE	S1A
PRIUS	2003.9 -	NI IW20	1NZ-FXE	S1A
	2009.5 -	ZVW30	2ZR-FXE	S2A
BLADE	2007.8 -	GRE156H	2GR-FE	S2A
	2006.12 -	AZE154/156H	2AZ-FE	S2A
BREVIS	2001.6 -	JCG11	2JZ-FSE	S3A
MARK X	2004.11 -	GRX121	3GR-FE	S1A
		GRX120/125	4GR-FSE	S1A
MARK X ZIO	2007.9 -	GGA10	2GR-FE	S2A
		ANA10/15	2AZ-FE	S2A
MARK 2	2000.10 -	JZX110	1JZ-FSE	S3A
RACTIS	2005.10 -	NCP100/105	1NZ-FE	S2A
		SCP100	2SZ-FE	S2A
LEXUS RX HYBRID	2005.3	MHU38W	3MZ-FE	S1A
PRADO	2005.8 -	GRJ120/121W	1GR-FE	S1A
100066		TRJ120/125W	2TR-FE	S1A
		KDJ120W	1KD-FTV	S1A
IST	2006.1 -	ZSP110	2ZR-FE	S2A
AT 1	5.03500.000	NCP110/115	1NZ-FE	S2A
10	2008.11 -	KGJ10	1KR-FE	S2A
RAV4	2005.11 -	ACA31W	2AZ-FE	S2A
YARIS	2007.8 -	NCP96	2NZ-FE	S2A
	2007.0	SCP92	2SZ-FE	S2A
		KSP92	1KR-FE	S2A
		1112001-000	10-34 W R R W	

VEHICLE	MODEL YEAR	CAR MODE	ENGINE MODEL	HARNESS MODE
CUBE	2008.11 -	Z12	HR15DE	S5A
	2005.5 -	Z11	HR15DE	S5A
	2002.10 -	Z11	CR14DE	S5A
SKYLINE	2002.2 -	V35	VQ35DE	S3A
	2001.6 -	V35	VQ25/30DD	S3A
SKYLINE COUPE	2003.1 -	V35	VQ35DE	S3A
STAGEA	2004.8 -	M35	VQ35DE	S3A
	1000		VQ25DD	S3A
	2001.10 -	M35	VQ25/30DD	S3A
SCREEKS.	0.000	2010	VQ25DET	S3A
SERENA	2005.5 -	C25	MR20DE	S5A
TEANA	2008.6 -	J32	VQ25/35DE	S5A
	per chica		QR25DE	S5A
	2003.2 -	J31	VQ25/35DE	S5A
10000	Constraints and	200	QR25DE	S5A
TIIDA	2004.9 -	C11	MR18DE	S5A
and the state of	CANADA CONTRACT	172	HR15DE	S5A
DUALIS	2007.5 -	J10	MR20DE	S5A
NOTE	2008.10 -	E11	HR16DE	S5A
CINCS.	2005.1 -	E11	HR15DE	S5A
FUGO	2005.8 -	Y50	VK45DE	S5A
- (1997)	2004.10 -	Y50	VQ25/35DE	S5A
Z 350	2002.7 -	Z33	VQ35DE	S3A
PRESAGE	2003.7 -	U31	VQ35DE	S5A
			QR35DE	S5A
MARCH	2005.8 -	K12	HR15DE	S5A
	100000000	19925	CR12/14DE	S5A
	2002.11 -	K12	CR14DE	S5A
			CR12DE	\$5A
			CR10DE	S5A
MURANO	2003.7 -	Z50	VQ35DE	S5A
	in the second second	1220	QR25DE	S5A
	2008.9 -	Z51	VQ35DE	S5A
1.1.5	2021.12	0.00	QR25DE	S5A
LAFESTA	2004.12 -	B30	MR20DE	S5A
X-TRAL	2007.8 -	T31	QR25DE	S5A
			MR20DE	S5A
	2000.10 -	T30	QR20DE	S3A
SUBARU			SR20VET	S3A
IMPREZA	2009.2 -	GRF	EJ25	S2A
IMPREZA	2009.2 -	GE7/8	EJ20	S2A S2A
	2008.10 -	GH6	EJ20	S2A S2A
		GE2/3	EJ20 EL15	S2A S2A
		GE6/7	EJ20	S2A S2A
	2007.10 -	GRB	EJ20	S2A S2A
			EJ20	S2A S2A
	2007.6 -	GH7/8 GH2/3	EL15	S2A S2A
	2006.6 -	GDC/D	EL15 EL15	S2A S2A
	2000.6 -	GGC/D GGC/D	EL15	S2A S2A
EXCICA	2008.6 -	YA4/5	EJ20	S2A S2A
FORESTER	2008.6 -	SH5	EJ20	SZA SZA
FORESTER	2007-12 -			SZA SZA
	2000.1+	SG5(D Type)	EJ20(NA)	S1B
	2004.1 -	800	EJ20 (T/C,A/T)	
		SG9	EJ25 (T/C)	S1B S1B
	2002.2 -	SG5 (A-C Type)	EJ20 (T/C, A/T)	515

ONTROLLER

- Compact Design and easy to install. .
- Inbuilt RPM gauge.

Description

- Release the automotive torque and horsepower. Keep the engine in low RPM and increase the potentiality of CPS.
- Changeable ratio working of hi-camshafts which is available in every 100 RPM.

15 (9/16)

Peak Torque* and Hp* vs. RPM

CPS

CPS





Fuel efficiency can be changed by fine adjust





Horsepower & Torque gain

Fine adjustment of 100rpm interval, a total freedom of

adjustable range between 1500rpm - 7200rpm whenever

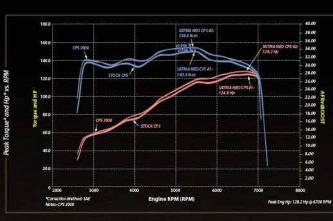
you need power



Simple installation with minimal wiring



Compact display. The monitor will illuminate red light through the black compact case



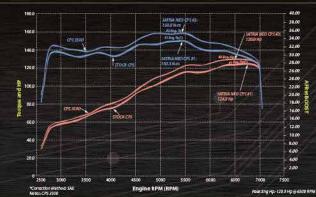
35 (1 3/8)

Warker

RPM

51 (2) WORKS ENGINEERING CPS CONTROLLER -

DIMENSION IN MM (INCHES)





Tested on DYNOmite Dynamometer

. 7.

Standard CPS Engaged @ 4100rpm CPS Engaged Adjustment @ 3000rpm Maximum Gain @ 6000rpm >> +5.2 Hp / 6.2 N-m

Standard CPS Engaged @ 4100rpm >>> 124.8 Hp / 150.3 N-m

CPS Engaged @ 3000rpm 128.2 Hp @ 6700rpm / 154.4 N-m

+3.4 Hp/4.1 N-m

40.00

38.00 36.00 34.00 32.00 28.00 26.00 24.00 22.00 20.00 78.00

16.00 14.00 12.00 10.00

8.00 6.00 4.00

50 7500

Tested on DYNOmite Dynamometer

Standard CPS Engaged @ 4100rpm CPS Engaged Adjustment @ 3500rpm Maximum Gain @ 4900rpm +8.1 Hp / 11.8 N-M

Standard CPS Engaged @ 4100rpm 24.8 Hp / 150.3 N-m

CPS Engaged @ 3500rpm 129.9 Hp @ 6500rpm / 158.8 N-m +5.1 Hp / 8.5 N-M







Description

METER GAUGE

One of the most important aspects of racing is knowing exactly what your car is doing at all times. You need to have the most accurate measurements for all the variables that your car is going through to maintain, tune and most importantly to know your car is operating at a safe level. Works Engineering 60mm Gauges offer extremely accurate and easy to read values so that you know exactly what is going on with your engine at all times. They feature a bright hyper-white backlighting provided by low-heat LED's and a sleek glare crystal glass to aid in gauge perception while offering a nice touch to the interior of any car. Using only high quality sensors and Japanese stepper movements, you can be sure installing these gauges in your car will result in precise measurements for years to come.

We currently offer Exhaust Gas Temperature, Oil Pressure, Oil Temperature, Boost, Water Temperature and Fuel Pressure gauges to monitor every important aspect of your engine.



Warning function by flickering LED illumination.

illumination ON/OFF: interlocked with vehicle switch . Self-diagnosis error detection system.

1//000-1655



- Warning with buzzer and led flickeringly
- Peak value recall / clear
 - Support dimmer function
- (\mathcal{C}) Extreme accuracy electronic sensors
- 0<u>Č</u>0 Four types warning sound setting
- Forced power off and on function
- \bigcirc Factory default setting function All wires 105 °C type & waterproof connector
- Control unit could be installed in engine room -Independent gauge stand included

the state of the s

YELLOW : Taniti



SENSOR DISCONNECTED FUNCTION

	mus
WATERT 95°C	23
FUELP 48	WATER.T °C

MULTI DISPLAY SETTING FUNCTION

WARNING VALUE SETTING FUNCTION

Light Blue

DILT - °[

WATER T

PEAK VALUE SETTING FUNCTION

WATER.T °C WATER.T **CONTROL** Unit BOOST Sensor Oil Press Sensor FUEL Press Sensor Water Temp Sensor DO POWER (ACC) WHITE : ILLUMINATION POWER Oil Temp Sensor Sensor Wire 1.5m EXT. Temp Sensor REMOTE CONTROL SETTING

ROI GAUGE

PRO-TUNE I GASOLINE

Features

Plug & Play Easily install by any user with NO wires cut require.

Maintain Factory Warranty

By using "add-on" design, it can be unplug easily and reset default setting before your periodical maintenance to prevent Factory Warranty void.

Conspicuous Power Output

Unleash ECU potential and increase power output widely, improve acceleration ability and smoother gear shifting.

Characteristics

4 Select Mode Normal, Street, Sport and Race Mode User can switch different mode anytime whenever they more power

Plug-in Connector

Using waterproof connector, installation can be done in just a few minutes without remove/uninstall Factory ECU or wire cut.

Synchronize Engine Data Display

Comes with Controller that can display different engine data and peak value.

- Elegant Aluminium Casing Stylish Controller with aluminium casing makes interior technically more superior and modern appearance.
- Minimal size with waterproof design Tiny controller that more easier to place or attach anywhere. Adopt waterproof technology all around casing joint to

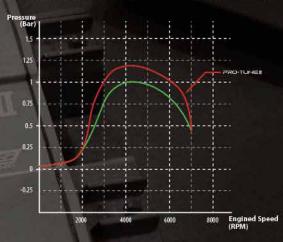
ensure durability.

Provide efficiency fuel pressure based on different RPM System supplies the most efficient boost in accordance on different RPM Hence improve performance and fuel efficiency.



505.4 480.0 320.0 460.0 300.0 440.0 280.0 420.0 260.0 400.0 380.0 360.0 240.0 Flywheel Nm 220.0 340.0 320.0 300.0 280.0 200 0 180.0 160.0 260.0 240.0 220.0 140.0 120.0 100.0 200.0 180.0 160.0 80.0 -60.0 130.9 39.4 2250 2500 2750 3000 3250 3500 3750

(4WD - Motor Vehicle 2x2000) Comparison: SB07300A BMW5351 Correction-Method: SAE



Works Engineering is also to develop in line with regional needs of related products

Application List

M.Benz Series	A250/A180/A200(M270) B250/B180/B200/CLA200/CLA250
BMW Series F	118i/125i/316i/328i/335i/520i/528i/535i/M135i
VW Series	Golf5/Golf6 GTI
Audi Series	Caddy 1.2TSI/S3 MK2/A4 2.0 TFSI/A6 2.0TFSI
Skoda Series	1.2TSI/1.4TSI
Proton	Preve

Last updated: January 2014



PRO-TUNE I DIESEL

Features

Plug & Play Easily install by any user with NO wires cut require.

Maintain Factory Warranty

By using "add-on" design, it can be unplug easily and reset default setting before your periodical maintenance to prevent Factory Warranty void.

Conspicuous Power Output

Unleash ECU potential and increase power output widely, improve acceleration ability and smoother gear shifting.



Characteristics

4 Select Mode Normal, Street, Sport and Race Mode User can switch different mode anytime whenever they more power

Plug-in Connector

Using waterproof connector, installation can be done in just a few minutes without remove/uninstall Factory ECU or wire cut.

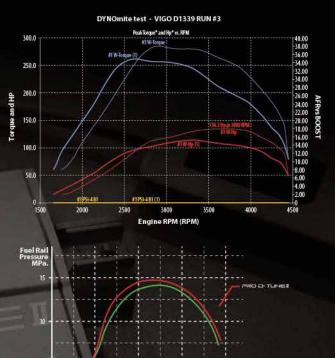
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ensure durability.

Provide efficiency fuel pressure based on different RPM System supplies the most efficient fuel pressure in accordance on different RPM Hence improve performance and fuel efficiency.



Works Engineering is also to develop in line with regional needs of related products

Application List		
VW Series	Golf6 2.0 TDI/Passat 2.0 TDI/Caddy 1.6 TDI Touran 1.6 TDI	
Audi Series	A3 2.0 TDI/A4 2.0 TDI/A6 2.0 TDI	
Skoda Series	Yeti 1.6 TDI	
Toyota Series	Hilux Vigo / Fortuner / Innova 2.5 D4D	
	Hilux Vigo / Fortuner 2.5 D4D (VNT) 3.0D4D (VNT)	
Mitsubishi	Pajero(Montero) Sport 2.5DiD	
	L200/Triton/Strada/Pajero Sport Darker 2.5DiD (VGT)	
Nissan	Frontier Navara (D40) (YD25DDTi)	

Last updated: January 2014

Engined Speed (RPM)



OIL SENSOR ATTACHMENT

Description

Also commonly known as sandwich plate, this Works Engineering oil sensor attachment fits in between your oil filter and the engine block to provide an oil source for engine oil sensors. It is ideal for fitting oil temperature and oil pressure gauges. Two different thread fitments to ensure all cars can use this attachment.

Note : This sandwich plate does not have take off for oil cooler. It is purely for fitting gauges. To attach oil cooler hose you will need an additional sandwich plate.



Description

The Works Engineering water temperature sensor adaptor allows for easy, installation of a sensor unit to accurately measure your car's water temp. It comes with a 1/8 point sensor hole that fits most popular aftermarket water sensors.

Constructed from lightweight aluminium, it will accommodate either mechanical or electrical sensors. The adaptor mounts on the upper radiator hose in the engine compartment and can be easily installed in just a few minutes. It includes mounting hardware. Gauges and sensor are not included.

Sizes to suit your car: 26mm, 28mm, 30mm, 32mm, 34mm, 36mm and 38mm fittings are available

Application List

Part No.	Description
W-WTS-26	Works 26mm H O Sensor Attachment
W-WTS-28	Works 28mm H ₂ O Sensor Attachment
W-WTS-30	Works 30mm H ₂ O Sensor Attachment
W-WTS-32	Works 32mm H ₂ O Sensor Attachment
W-WTS-34	Works 34mm H ₂ O Sensor Attachment
W-WTS-36	Works 36mm H ₂ O Sensor Attachment
W-WTS-38	Works 38mm H ₂ O Sensor Attachment





OXYGEN SENSOR ADAPTOR

Description

Fix annoying Check Engine Lights with this simple mechanical fix. This removes the O2 from the flow of exhaust so that the sensor runs cooler with an aftermarket exhaust. Aluminium construction for light-weight. Near universal fit for most modern cars.



BOOST ADAPTOR

Description

Special designed for installing Boost Gauge in VW TSi 1.2/1.4 model to keep intact instruction of original component. Vacuum Hose made from hardness aluminium and top hose comes with groove that can hook up hose tightly to ensure it will not slip off during high pressure cycle.

Application List

Description	
VW Golf 2.0 GTI	
VW Golf MK7	
VW TSI 1.2/1.4	

Description

Description

ENGINE OIL CAP

Works Pro Series billet Oil Cap is CNC-machined with a prominent acid-etched Works logo. It is extra lightweight, fully black powder-coated and features a high grade rubber O-ring for the perfect seal. Various models are available to fit different make of cars.

Part No.	Description
W-OC-Ø32	Oil Cap Honda / Nissan
W-OC-Ø35	Oil Cap Mazda / Ford
W-OC-Ø37	Oil Cap Toyota / Ford
W-OC-Ø42	Oil Cap Subaru
W-OC-MIT	Oil Cap Mitsubishi
W-OC-CAMPRO	Oil Cap Campro S4PH / S4PE



W-OC

racing oil cap

Works engine Racing Oil Cap manufactured from high quality aluminium with a deep metal coating for a unique aggressive design.

- Direct replacement of your engine oil cap and designed to allow you to connect directly to an oil catch tank or a breather filter without modification.
- Enable the recycling of engine oil vapours to prevent lost of engine oil.
- Also able to relief crankcase pressure and reduce carbon build up.





Part No.	Description
W-OC-Ø32	Oil Cap Honda / Nissan
W-OC-Ø35	Oil Cap Mazda / Ford
W-OC-Ø37	Oil Cap Toyota / Ford
W-OC-Ø42	Oil Cap Subaru
W-OC-Ø32	Oil Cap Honda (Special for B20B High Block)





W-DC-Ø32 For Honda B208)













WHEEL LUG NUT (Aluminium)

Description

Description

Description

Ultra strong and lightweight Works Engineering Pro Series Racing Lug Nuts are made from forged AL7075 billet aluminium. Lighter and stronger lug

AL7075 billet aluminium. Lighter and stronger lug nuts reduce unstrung weight. Available in open end M12x1.25mm and M12x1.5mm thread to fit all cars.



Works Engineering Wheel Lug Nut (Aluminium)-Dimension in MM (Inches)



W-BRN

Part No.	Description
W-RRN-125	AL7075 12 x 1.25 (Pack of 4)
W-RRN-15	AL7075 12 x 1.5 (Pack of 4)

WHEEL LUG NUT (Chrome Molybdenum Steel)

Works Engineering Chrome-Molybdenum steel wheel nuts are for racers who need extreme tensile strength to withstand the shock loads and lateral forces in racing applications. The wheel nuts are specially heat-treated, hardened & tempered to boast a 190,000 psi tensile strength, able to withstand repeating high torque impact opening and tightening by impact wrench.

	anonecco.	
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Part No.	Description	
W-RRNS-125	12 x 125 (Pack of 4)	
W-RRNS-15	12 x 15 (Pack of 4)	

WORKS ENGINEERING WHEEL LUG NUT (CHROME MOLYBDENUM STEEL) - DIMENSION IN MM (INCHES)

WARKS

LIGHTWEIGHT ALUMINIUM BOLT

Aluminium bolts has been commonly used on high end motorcycles and bicycles for its high strength and weight saving properties and of course its good asthetics as all components are exposed.

Aluminium bolts are not only about 65% lighter than steel bolts, they are also able to withstand much higher heat. The other advantages of aluminium bolts are constant/remaining clamp load and reduced galvanic corrosion.

Good news, now you can enjoy the same thing on your cars that the bikers has been enjoying. Works has a range for super light weight aluminium bolts available to suit your needs.

Part No.	Description
W-BN-14mm	M5 x 1.0 x 14 / SW10 (Pack of 12)
W-BN-18mm	M6 x 1.0 x 18 / SW10 (Pack of 12)
W-BN-25mm	M6 x 1.0 x 25 / SW10 (Pack of 12)







W-BN-18mm



Description

MAGNETIC OIL SUMP NUT

High quality Works Engineering magnetic oil sump nut catches any metal particles in your engine oil, keeping your engine completely free of metal bits and shavings. Available for Honda, Toyota, Mazda, Nissan, Mitsubishi and Subaru.

Application List

Part No.	Description
W-MOSN-S	Magnetic Oil Sump Nut - Toyota / Nissan
W-MOSN-M	Magnetic Oil Sump Nut - Ford / Honda / Mazda / Mitsubishi
W-MOSN-L	Magnetic Oil Sump Nut - Subaru
W-MOSN-B	Magnetic Oil Sump Nut - BMW

SILICONE HOSE

Application List

Part No.	Diameter	Туре
W-SLCHV-3-1	3mm	Vacuum
W-SLCHV-6-1	6mm	Vacuum
W-SLCHV-8-1	8mm	Vacuum
W-SLCHV-3-5KG	3mm (5kg roll)	Vacuum
W-SLCHV-6-5KG	6mm (5kg roll)	Vacuum
W-SLCHV-8-5KG	8mm (5kg roll)	Vacuum
SLCH-2	2″	Straight
SLCH-2.5	2.5″	Straight
SLCH-3	3″	Straight
SLCH-35	3.5″	Straight
SLCH-4	4″	Straight
SLCH-25-2	2.5" - 2"	Reducer
SLCH-25-3	2.5" - 3"	Reducer
SLCH-35-25	3.5" - 2.5"	Reducer
SLCH-35-3	3.5" - 3"	Reducer
SLCH-3-325	3" - 3.25"	Reducer
SLCH-35-4	3.5" - 4"	Reducer
SLCH-3-4	3" - 4"	Reducer
SLCH-90-2	2″	Elbow 90°
SLCH-90-25	2.5″	Elbow 90°
SLCH-45-25	2.5″	Elbow 45°





SLCH

RESERVOIR COVER SOCK

Works reservoir cover sock prevents any drips of minor clutch, master cylinder or brake fluid from these reservoirs that can cause paint damage or in the worst of occurrences fire. The reservoir covers also provide a unique look to your engine bay for that high performance appearance.





VOLTAGE ENERGIZER

Description

Today's modern cars run a lot of electronic devices and equipments including air-conditioner, audio system, lightings, wipers, alarm, sensors, and many others. All these constantly saps power and consume a lot of energy, putting a lot of strain on the battery and alternator. A 12v – 13.8v current may cause problems to the car's ignition system including incomplete combustion and carbon build up. In the long term this reduces compression ratio, less bhp, slower acceleration and increasing fuel consumption.

Works Pro Energizer offers robust, maintenance free protection for electrical loads to prevent erratic operation or equipment damaged caused by power sags or surges.

no modification

Features

Benefits

- no maintenance
- immediate effect

plug & play

fully adjustable (up to 14V) professional equipment

easy setting



- Improves ignition, fuel burn, fuel efficiency.
- Increases engine torque across the full rev range, better throttle response
- Lightens load electrical charging system hence increases lifespan of battery and alternator
- Lowers exhaust emission with cleaner fuel combustion
- Reduces electrical 'noise' and improves operation of other noise sensitive miscellaneous electrical devices (audio system, etc.)
- More precise operation of vehicle's electronic control devices (operation of ECU, sensors, electric power steering, etc.)



24K GOLD GROUND EARTH CABLE

Description

According the laws of physics and science, electricity on a completed circuit flows from the positive terminal to the negative terminal. The same laws apply to a typical car's electric system, as electric current flows from the positive terminal of a battery, through the car's body to the negative terminal on the battery. On a car however, there is a lot of resistance in the whole electrical system. This is normally caused by poorly placed grounding points, or corrosion which is present on the grounding point. This resistance can disturb the flow of electricity so much that a car's electrical components, such as the lamps, radio & even the ECU will not be able to operate at their peak.

Benefits

- Increase power through reinforced grounding
- Improve torque at low end sange for better engine response
- Improve Fuel efficiency by 10% to 25%
- Optimize electrical equipment performance thus extending the lifetime of car.
- Prolongs lifetime of the battery



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CROSS STABILIZER FLOOR BAR

Description

It is the bar linking both the B-Pillars within the passenger compartment. The effect of room bar is particularly obvious for a fourdoor sedan. This is because four-door sedan has a longer body than the hatch-back or coupe, the chassis is by nature weaker than the later two.

- Made from high quality steel with brushed black finishing
- Stiffing up both passenger compartment to strengthen chassis therefore improving cornering stability
- Act as a brace between each side of the chassis
- Mounts in a central spot in your vehicle between the front and rear seat floor
- Adjustable for universal usage



RACING HOOD SUPPORT BAR

Description

Works Engineering Adjustable Racing Hood Bar is designed to allow the mechanic to hold the hood in the desired position.

The tool telescopes and can be used from the side of car for better access to the engine compartment. Also great for body or repair work on door, trunk lids, or hatchbacks.







Description

WHEEL PROTECTOR

Occasionally little accidents happen while you're parking or maneuvering in tight spaces, and you hear that dreadful sound of your

expensive alloy wheel scraping on a curb or something similar.

Well they say "prevention is better than cure", so here's something to prevent those little minor mishaps. Wheel rim protectors from Works Engineering.

Available in a range of 8 colours, from Black (hardly discernable, black actually making hardly noticeable against the tyres), through to striking and sporty looks in Red, Blue, Yellow, Fuchsia, Green, Orange and White, adding style, individuallity as well as protection for your alloy wheel rims.

Not only do the protect against minor scuffing and curbing damage, but we really like the look of them too, and they seem to make the alloys look bigger.





1 andes

Description

THERMAL WRAP

Works engineering thermal wrap is an innovative way to create more horsepower and reduce under-hood temperatures.

Wrapping exhaust headers maintains hotter exhaust gas that exit the system faster through decreased density. Increased exhaust scavenging is produced, along with lower intake temperatures. Thermal wrap withstands continuous heat up to 2000 °F, & contains no asbestos. Works Engineering exhaust wrap will not over insulate a system when properly installed due to a proprietary coating that conducts heat across the wrap's surface. This coating control heats build-up and dissipation.

"Note 1 It is normal to see smoke from the wrap for 1-2 hours on initial usage.





Designed from the ground up using a low profile V-band assembly, and low profile male and female interlocking flanges. The clamp features thick heavy duty retainers, and thick band clamp to avoid stretching and warping from the many heat cycles they go through. The Flanges are CNC from billet material. Being that it is CNC machined from billet stock they are more durable; they resist warping when welding, they are heavier because of less porosity from the casting, and can withstand constant heat cycling without becoming brittle.



Part No.	Description	
W-VB-2	V-Band 2" (51mm)	
W-VB-25	V-Band 2.5" (64mm)	
W-VB-3	V-Band 3" (76mm)	

GEAR KNOB

Description

Greatly improve the feel of gear shifting of your ride, get the exact rev and feel of shifting. Made from hard Teflon to prevent heat and exact weightage for the best feel in gear shift. Available in different logo for different gear shift patterns and also comes with different thread sizes to fit all cars. Teflon gear knob is excellent in heat-resistance so will not heat up and burn your hands in those hot days.

Application List	ALCONTRACTOR
and allowing the second	

Part No.	Description	
W-GK	Type R Black	
W-GK	Type RWhite	
W-GK-NM	Type NM Black	
W-GK-NM	Type NM White	
W-GK-GR	Type GR Black	
W-GK-GR	Type GR White	
W-GK-HS	Type HS Black	
W-GK-HS	Type HSWhite	
W-GK-KE	Type KE Black	
W-GK-KE	Type KE White	













W-GK-GR





W-GR-IMI

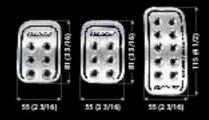
ALUMINIUM FOOT PEDAL SET

Aluminium Foot Pedals can be beneficial or just add a great look to your interior, either way they get noticed. Aluminium Foot Pedals are designed to improve your pedals grip, also to hone and improve your driving technique by having a half moon design that allows for heel and toe control of the pedals, giving you an efficient way to slow down faster and accelerate faster. Aluminium Foot Pedals are an easy modification with minor drilling you can be on your new foot pedals in minutes. Also available in automatic transmission.



Description

WORKS ENGINEERING ALUMINIUM FOOT PEDAL SET (AT) -DIMENSION IN MM (INCHES)



WORKS ENGINEERING ALUMINIUM FOOT PEDAL SET (MT) -DIMENSION IN MM (INCHES)





STEERING SHORT BOSS HUB

Description

Steering Short Hub is the perfect solution for fitting an aftermarket steering wheel to your vehicle. This full aluminium short hub allows for nearer access to wiper and indicator stalks and places the steering wheel further away from the driver for more comfort.

The Short Hub adaptor is made from monobloc high grade aluminium making it highly durable and lightweight for both road and race use.

Designed with a common 6 hole hub adaptors to match all popular aftermarket steering wheels, the Short Hub is also perfect for using with the Works Quick Release (sold separately) allowing you to remove the wheel for security and easy access.

Fitting the short hub is easy and it comes pre-wired for horn contacts

* (only applicable for non airbag applications)

W-SBK-01

Model	Year	
		-
Honda Civic (EG/EH/EJ1-2)	'92-'95	
Honda / Acura Integra (DB6-9/DC1-2/DC4)	'94-'01	
Honda Prelude (BA8-9/BB1-4)	'92-'96	
Honda Accord (CB1-4)	'90-'93	
Honda Del Sol	ALL	

W-SBK-03

Model	Year	
Mitsubishi Eclipse/Evo1-3/Evo4-6	'90-'03	
Mitsubishi Lancer/Proton Wira	'88-'94	
Mitsubishi Mirage/Proton Satria/Putra/Wira	'91-ON	
Mitsubishi Galant/Proton Perdana	'86-'98	
Mitsubishi EvoX	'08-ON	
Mitsubishi GTO/3000GT	ALL	
Mitsubishi Pajero	'91-ON	
Mitsubishi Delica(Van)	ALL	
Mitsubishi Pickup	ALL	
Subaru Impreza WRX	'06-ON	
Subaru Legacy	ALL	
Dodge Colt	'85-'88	
Plymouth Laser	'90-'94	
Eagle Talon	'90-'98	



W-SBK-06

Model	Year	
Honda Civic (EK3-5/EK9/EJ6-9/EM1)	'96-ON	
Honda Integra DC5/Acura RSX	ALL	
Honda Fit/Jazz	ALL	
Honda Accord	'94-ON	
Honda CRV	ALL	
Honda Prelude(BB5-9)	'97-'01	
Honda S2000	ALL	
Acura CL	'97-'03	
Acura TL	'97-ON	

STEERING FLIP UP HUS

Description

Instead of attaching and detaching the Quick Release, with the Works Flip Up Hub the steering wheel simply tilts upwards.

With the Flip Up Hub, you can get in and out with ease from cars equipped with bucket seats or sports type seats by tilting up the steering wheel.

Furthermore, you can work with ease on the dashboard and foot pedal area which was previously unreachable.

The Works Flip Up Hub is machined and assembled with absolute precision.

STEERING QUICK RELEASE

Description

W-SER

Works Engineering Steering Wheel Quick Release Hub. It has a polished black on black colour with easy to install design.

Made with high precision CNC machined aluminium pieces with ball bearing real ease mechanism. This kit are design to integrate with any well known 6 hole hub adaptors, and will accept all popular after market steering wheels.

Quick realease feature allows you to remove the steering wheel from your car in just a second and acts as a great anti-theft measure to discourage any car thief.





STEEL BRAIDED BRAKE HOSE

Description

Braided stainless steel brake lines (also known as braided stainless steel brake hoses) are flexible hoses fitted to a hydraulic brake system. The intent of braided stainless steel brake lines is to improve brake system effectiveness and longevity as compared to an equivalent system fitted with flexible rubber hoses through near-elimination of hose expansion.

The difference in expansion characteristics between rubber and braided stainless steel brake lines is a result of differences in hose construction. Where rubber hoses typically consist of a rubber inner hose wrapped in a textile reinforcement braid then covered in an additional rubber outer sheath, braided stainless steel hoses typically consist of a Teflon or generic PTFE



(polytetrafluoroethylene) inner hose wrapped in a braid consisting of stainless steel wire. The stainless wire braid more effectively resists expansion due to pressure inside the hose core. Coated braided stainless steel hoses have the same essential construction as rubber hoses in terms of an inner hose wrapped in a braid followed by an outer layer, but the different materials in the braided stainless steel hoses offer substantially different and arguably better characteristics. To more thoroughly explain why, it is helpful to understand the basics of a hydraulic brake system.

Application List

Part Number	Description
W-BH-SCM	Brake Hose Special Custom Made -
	Front 2pcs OR Rear 2pcs (Standard Length)
W-BH-SCM4	Brake Hose Special Custom Made -
	Front 4pcs OR Rear 4pcs (Standard Length)
AUDI	
W-BH-AU001	A4 2.0 TFSI (Quattro) '05-'07 B7
W-BH-AU002	A4 2.0 TFSI (2WD) '05-'07 B7
W-BH-AU003	A4 1.8 TFSI (2WD) '08-ON B8
W-BH-AU004	A4 / A5 / S4 / S5 2.0 TFSI (Quattro) '09-ON B8
W-BH-AU005	Q5 2.0 TFSI (Quattro) '09-ON
W-BH-AU006	TT 2.0 TFSI MK 2 '07-ON
W-BH-AU007	RS Model Caliper (Front 2 hose only)
ALFA ROMEO	
W-BH-AL001	156 2.0 Twin Spark
W-BH-AL002	Mito 1.4T '08-ON (Rear Disc)
BMW	
W-BH-BM001	3-series E90 (all type) '06-ON
W-BH-BM002	3-series E46 (all type) '98-'05
W-BH-BM003	X6 3.0TT '09-ON
W-BH-BM004	5-series E60 (all type) '03-ON
W-BH-BM005	5-series E39 (all type) '95-ON
DAIHATSU	
W-BH-DA001	Mira L200/L201 '90-'94
W-BH-DA002	Mira L500 '94-'98
W-BH-DA003	Mira/Coure L700 '98-'01
W-BH-DA004	Move L900 '98-'02
FORD	
W-BH-FD001	Fiesta 1.6L '10-ON (Rear Drum)
W-BH-FD002	Ranger XLT Turbo '98-'06
W-BH-FD003	Ranger TDLI Turbo '12-ON (coming soon)
W-BH-FD004	Focus ST '12-ON

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Part Number	Description
HONDA	
W-BH-HD001	Civic EG 6/9
W-BH-HD002	Civic EK 4/9
W-BH-HD003	Civic ES 1.7/2.0 '01-'05 (Rear Disc)
W-BH-HD004	Civic FD 1.8/2.0 '06-'11 (Rear Disc)
W-BH-HD005	Civic FD Type R '06-ON
W-BH-HD006	Civic FN 2 Type R '07-ON
W-BH-HD007	Accord 2.0/2.4 '08-ON
W-BH-HD008	Accord Euro-R CL7 '02-'07
W-BH-HD009	Fit/Jazz 1.5 i-Vtec GE '08-ON (Rear Disc)
W-BH-HD010	City 1.5 i-Vtec '08-ON (Rear Disc)
W-BH-HD011	CRZ (ZFI) Hybrid
W-BH-HD012	Stream RN 1-5 '01-'07 (Rear Disc)
W-BH-HD013	Stream RN 6-9 (1.8/2.0L) '07-ON (Rear Disc)
W-BH-HD014	S2000 AP1/AP2 '99-'09
W-BH-HD015	Accord 2.0/2.4 '04-'07
W-BH-HD016	Integra DC5 Type R 2.0 '02-ON
W-BH-HD017	Odyssey RB1/RB2

HYUNDAI		
W-BH-HY001	Sonata '12-ON (coming soon)	
W-BH-HY002	Sportage '12-ON (coming soon)	
W-BH-HY003	Starex MPV 2.5L '11-ON	

STAINLESS STEEL WOVEN BRAIDED LAYER Provides high strength support for the PTFE Teffon hose against further expansion under extreme pressure, incidental impact or compression.

> CLEAR POLY-COATED OUTER LAYER For double protection against abrasion and corrosion of harsh driving conditions.

PTFE TEFLON INNER CORE It is very resistant to expansion under pressure. It also does not degrade from brake fluid and high temperature



STEEL BRAIDED BRAKE HOSE

Application List

Part Number	Description
ISUZU	
W-BH-IS001	D-MAX 2.5/3.0
KIA	
W-BH-KI001	Forte / Cerato '08-ON (Rear Disc)
W-BH-KI002	K5 '12-ON (coming soon)
LEXUS	
W-BH-LE001	IS250 '06-ON
W-BH-LE002	RX350 '08-ON
LOTUS	
W-BH-LO001	Elise 1.8 '96-'01 (Front 2 hose only)
111701	
MAZDA	
W-BH-MA001	MX-5 1.6/1.8 '90-'98
W-BH-MA002	RX-8 1.3 '03-'12
W-BH-MA003	Mazda 3 '09-'13
MINI	
W-BH-MN001	Cooper S R53 '02-ON
W-BH-MN002	Cooper S R 56 '03-'07
MITSUBISHI	
W-BH-MI001	Lancer 2.0 GT
W-BH-MI002	EVO 1-3
W-BH-MI003	EVO 5-9 (Brembo)
W-BH-MI004	Airtrek Turbo
W-BH-MI005	Triton 2.5/3.2 (DID Turbo)
NISSAN	
W-BH-NS001	Fairlady Z33
W-BH-NS002	Silvia 180SX/200SX S13 '89-'98
W-BH-NS003	Latio 1.6/1.8 '07-ON
W-BH-NS004	Grand Livina '06-ON (Rear Drum)
W-BH-NS005	Navara 2.5L 4x4 '07-ON
W-BH-NS006	Silvia 200SX S15 (Turbo) '99-'02
W-BH-NS007	Skyline R34 GTR '99-ON
W-BH-NS008	Skyline R34 GTT '99-ON
W-BH-NS009	Skyline R35
W-BH-NS010	Fairlady Z33 / V35 (Brembo)
W-BH-NS011	Navara 2.5L 4x4 '07-ON (4 hoses)
W-BH-NS012	Cefiro A32/A33

PORSCHE

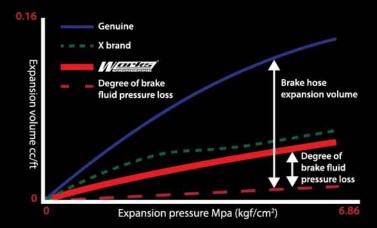
FONJETIL	
W-BH-PS001	Cayman S '05-ON
W-BH-PS002	Boxster S '05-ON
W-BH-PS003	Cayenne '04-ON

PERODUA

Kelisa / Kenari 1.0	
Kancil 660/850	
Myvi 1.0/1.3 & Myvi 1.5 '12-ON	
Viva '07-ON	
Alza 1.5	
	Kancil 660/850 Myvi 1.0/1.3 & Myvi 1.5 '12-ON Viva '07-ON

Part Number	Description
PROTON	
W-BH-PR001	Preve 1.6 CFE
W-BH-PR002	Exora Bold 1.6 CFE (Rear Disc) (6 hoses
W-BH-PR003	Satria Neo / Gen2
W-BH-MI001	Inspira 1.8/2.0 '11-ON
W-BH-PR004	Persona 1.6 '07-ON (Rear Drum)
W-BH-PR005	Waja 1.6
W-BH-PR006	Wira / Satria / Putra 1.6/1.8 &
	Persona 1.6 '07-ON (Rear Disc)
W-BH-PR007	Wira / Satria 1.3/1.5 &
	Saga BLM 1.3 '08-ON (Rear Drum)
LUDII DOGGO	Perdana 2.0 L4/V6
W-BH-PR008	Perdana 2.0 L4/VO
W-BH-PR008 W-BH-PR009	Exora CPS 1.6 NA (Rear Drum)
W-BH-PR009	
W-BH-PR009 RENAULT	Exora CPS 1.6 NA (Rear Drum)
W-BH-PR009 RENAULT	Exora CPS 1.6 NA (Rear Drum)
W-BH-PR009 RENAULT W-BH-RE001	Exora CPS 1.6 NA (Rear Drum)
W-BH-PR009 RENAULT W-BH-RE001 SUBARU	Exora CPS 1.6 NA (Rear Drum) Megane 2.0 RS '08-ON
W-BH-PR009 RENAULT W-BH-RE001 SUBARU W-BH-SU001	Exora CPS 1.6 NA (Rear Drum) Megane 2.0 RS '08-ON Impreza WRX STI (GDB) '00-'08
W-BH-PR009 RENAULT W-BH-RE001 SUBARU W-BH-SU001	Exora CPS 1.6 NA (Rear Drum) Megane 2.0 RS '08-ON Impreza WRX STI (GDB) '00-'08
W-BH-PR009 RENAULT W-BH-RE001 SUBARU W-BH-SU001 W-BH-SU002	Exora CPS 1.6 NA (Rear Drum) Megane 2.0 RS '08-ON Impreza WRX STI (GDB) '00-'08

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STEEL BRAIDED BRAKE HOSE

Application List

Part Number	Description
ΤΟΥΟΤΑ	
W-BH-TY001	Vios 1.5 '03-'07 (Rear Disc)
W-BH-TY002	Vios 1.5 '08-ON (Rear Disc)
W-BH-TY003	Altis E140 '08-ON (Rear Disc)
W-BH-TY004	Camry XV30 2.0/2.4/3.0L
W-BH-TY005	Camry XV40 2.0/2.4L '06-'12 (Rear Disc)
W-BH-TY006	Mark X (X 120) 2.5 V6 '04-'09
W-BH-TY007	Wish 1.8/2.0 '03-'07 (Rear Disc)
W-BH-TY008	Wish ZGE 2.0L '09-ON (Rear Disc)
W-BH-TY009	Caldina 2.0 GT-Four '02-'07
W-BH-TY010	Alphard/Vellfire 2.4/3.5L '08-ON
W-BH-TY011	Alphard 2.4/3.0L '02-'07
W-BH-TY012	Estima ACR 50/WCR 50 '06-'11
W-BH-TY013	Estima ACR 30 '00-'06
W-BH-TY014	Hilux 2.5G Turbo Diesel '05-'11
W-BH-TY015	Vios 1.5 '08-ON (Rear Drum)
W-BH-TY016	Vios 1.5 '14-ON (Rear Drum)
W-BH-TY017	Vios 1.5 '14-ON (Rear Disc)

VW

M MAR	
W-BH-VW001	Golf 2.0 GTI (MK5)
W-BH-VW002	Golf 2.0 GTI (MK6)
W-BH-VW003	Golf 1.4 TSI (MK6)
W-BH-VW004	Golf 1.4 TSI (MK7)
W-BH-VW005	Jetta 1.4 TSI
W-BH-VW006	Scirocco '08-ON
W-BH-VW007	Polo TSI 1.2T '10-ON (Rear Disc)
W-BH-VW008	Passat 1.8TSI '11-ON (coming soon)

VOLVO		
W-BH-VV001	S60 T5 '01-ON	





WORKS ENGINEERING STEEL BRAIDED HOSE IMPROVE YOUR BRAKING PERFORMANCE



RUBBER BRAKE HOSE WILL TEND TO EXPAND WHEN HARD BRAKING. THIS WILL REDUCE EFFICIENCY OF BRAKE SYSTEM.

YOUR SAFETY OUR PROFESSION



HIGH PERFORMANCE BRAKE KIT

Description

4 POT CALIPERS

Material : 356 casted aluminium alloy with 4 layers of nanometer-resembled and anti-high temperature special coating. Dimension of pistori : 40mm / 36mm

SPORT BRAKE PAD

Material : Composite ceramic,Carbon fiber. Application : High speed and aggressive driving • Working temperature 50% - 650%



MOUNT ADAPTOR

High temperature electro-plated surface treatment and it can resits acid. Also, the product is durable enough to sustain the frequency vibration of braking.

ROTOR

Material :Made of Nickel alloy FC-28 casted iron to provide a better rigidity and hardness than other FC-28 casted iron, working temperature allows to 900°C.

Dimension of rotor: 286/300/330/345mm vented rotor

- Feature: Special designed in an aggressive and daily purpose, due to its components of material, multiple alloys are applied during manufacturing in order to provide excellent braking performance and high stability. Furthermore the rotor surface had conducted in special heat treatment, giving itself a superior corrosion resisting. New cutting design on its surface reduces noise effectively.
- 286mm : Apply to 15"
- 302mm : Apply to 16"
- 330mm : Apply to 17"
- 345 mm : Apply to 18"

STAINLESS STEEL BRAKE HOSE

The brake line has the structure that a strong Teflon tube wrapped by double-layer stainless mesh. The pressure testing result can reach over 3000 PSI. The function of silicon cover can maximum protect against abrasion. Moreover, the characteristics of brake line fitting : anti-corrosion, anti-oxidation, and prevents loosening or twisting and sustains high temperature. The brake line set improved brake feel and sensitivity

High temperature electro-plated surface treatment and it can resits acid. Also, the product is durable enough to sustain the frequency vibration of braking.

Part No.	Description		
WS-PS-HD034	4 Pot Brake Kit Honda Jazz '01 - '08 (286mm)		
WS-PS-HD007	4 Pot Brake Kit Honda Civic FD 1.8 '06 - On (302mm)		
WS-PS-HD007	4 Pot Brake Kit Honda Civic FD 2.0 '06 - On (302mm)		
WS-PS-HD007	4 Pot Brake Kit Honda Civic FD 2.0 '06 - On (330mm)		
WS-PS-MI011	4 Pot Brake Kit Mitsubishi Lancer GT '07 - On (330mm)		
WS-PS-PR001	4 Pot Brake Kit Proton Gen-2 '04 - On (286mm)		
WS-PS-PR001-2	4 Pot Brake Kit Proton Satria Neo '06 - On (286mm)		
WS-PS-SK005	4 Pot Brake Kit Suzuki Swift '04-'10 (286mm)		
WS-PS-TY003	4 Pot Brake Kit Toyota Vios '03 - '07 (286mm)		





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NISSAN R35 GT-R SERIES REPLACEMENT AIR FILTER

Description

Stainless-steel / Non-woven high flow replacement air filter is its renowned racing air filter element, made of special stainless steel, with a unique EPDM frame and is one-piece extrusion molded, using the most advanced technology.

TRANSMISSION OIL PAN NISSAN R35 GT-R

Description

Works Engineering Transmission Oil Pan for Nissan R35 GT-R utilizes a high strength aluminium with T6 high strength heat treatment to improve rigidity of the transmission case & pan.

Fitment

Features

Nissan GT-R (R35) 3.8L VR38DETT Twin-Turbo

- Fully high strength T6 aluminium construction
- Fluid temperature decrease as much as 5 degree celcius
- Improves transmission case rigidity
- Transmission operates with greater efficiency
- 30% stronger through heat treating process
- Excellent black hard-anodized quality and cooling efficiency matched or surpassed any aftermarket brands
- Comes with necessary bolts

"Note: Additional 800-1000ml of ail volume are required

TURBO WASTEGATE ACTUATOR

Description

- An upgrade part for your current turbo A stronger / uprated actuator allows the turbocharger to run higher
- boost, equalling more power before the wastegate opens.

FUEL RAIL KIT

All fuel rails are made from CNC billet aluminium, large non-restrictive bore maintains maximum pressure and fuel volume at each injector therefore decreasing the chance of fuel cavitations. They are direct bolt-on replacements of factory fuel rails for specific vehicle applications and allow for larger top-feed injectors to be added.



Note : Intended for Racing or Fast Street usage only. To be installed by trained professional only. Please ensure all fittings are properly secured and tested





WORKS ENGINEERING TRANSMISSION OIL PAN NISSAN R35 GT-R -DIMENSION IN MM (INCHES)



T-SHIRT



- 74

W-TS-001 (S/M/L/XL)



W-TS-003 (S/M/L/XL)



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W-TS-002 (5/M/L/XL)



W-TS-004 (S/M/L/XL)



W-TS-005 (S/M/L/XL)



W-TS-006 (S/M/L/XL)

ENGINEERED

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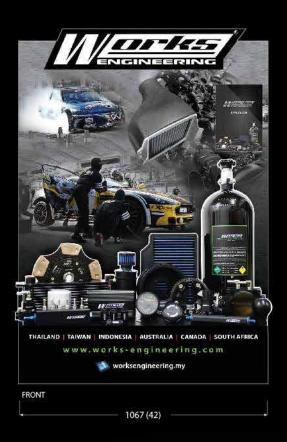
W-TS-008 (S/M/L/XL)

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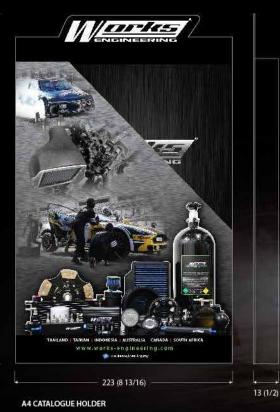
PRODUCT MARKETING MATERIAL



SIDE 345 (13 9/16) 60 (2 6/16)



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DIMENSION IN MM (INCHES)

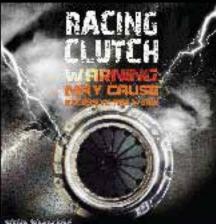


DISPLAY STAND

49 PRODUCT MARKETING MATERIAL

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PRODUCT MARKETING MATERIAL



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PRODUCT MARKETING MATERIAL



COM

REVOLUTION



REVEAL THE TRUE POWER

Youtube video clip link : works engineering pro neo









REVEAL THE TRUE POWER

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PRO-NEO



Pro Series Cam Pulley Feature a light weight design and are CNC machined from 7075-T7 billet aluminium. Machining for exact component fit is critical for adjustable cam pulley.



High performance engine camshafts has been crafted to exacting standards established through many years of rigorous, high performance testing.

Whether you want a mild power increase in your daily driven car or serious power gains or loads of top end power we supply the cams you need.

CAM PULLEY CAMSHAFT CRANK PULLEY



Weight reduction is how we are able increase Horsepower! Each pound of weight removed from the crankshaft is worth approximately 2.7HP and the gains jump even more dramatically with forced induction, nitrous.



Fuel Rall Upgrade kits are high-performance fuel delivery units that are designed to properly supply the additional fuel needed for high boost / performance applications.

FUEL RAIL FUEL REGULATOR



Pro Series Fuel Pressure Regulator is capable of supporting enough fuel flow for engines in excess of 1000 horsepower, It can maintains stable fuel pressure at high-horsepower levels.

REVEAL THE TRUE POWER

PRO-NEO



Pro clutch uses a specially developed pressure plate with an extremely durable customized Sprung Ceramic disc. This is the ultimate extreme duty street and / or road / drag racing system. It comes in a 5 pad star configuration to provide a good compromise between full attack mode or progressive street usage.

RACING CLUTCH



Light weight carbon fiber with a cylindrical carbon airbox features an internal washable filter element increases air flow to engine. Increase volumetric efficiency, increase power and performance. Easy to install.

AIR FILTER



Higher air intake and more dust absorbing than original paper air filter, increases bhp and extends enigne life. Unique EPDM frame, 1-piece extrusion molded. Light weight and strong.

EXHAUST SYSTEM STRUT BAR



Performance exhaust is tune to specific vehicle to optimize flow and temperature giving you gains in horsepower and torque. It is crafted from T-304 stainless steel to ensure



To eliminate all the suspension noise and more stability during acceleration, hard driving and braking (simulating race track conditions).

4 POT CALIPER



Special cast iron monoblock disc, alloy 4 piston caliper, low noice, fade resistant pads.



Designed to replace original equipment for a wide range of vehicles, both in motorsport and fast road use.

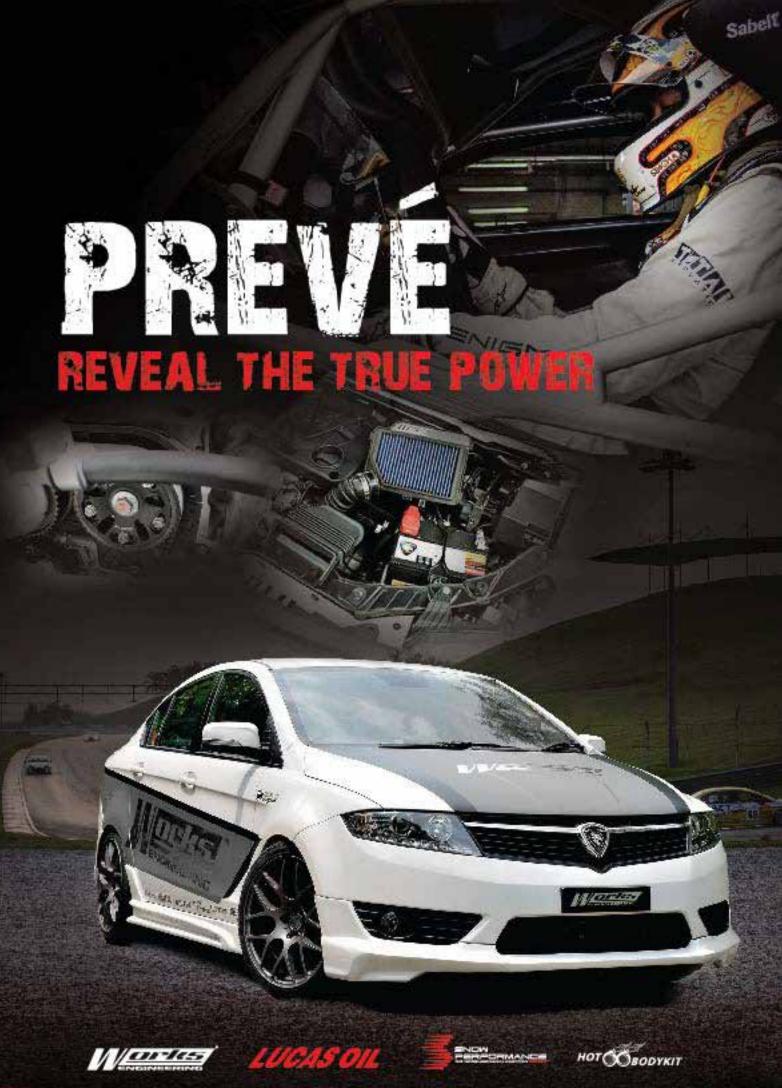


Pro series billet oil cap are precision CNC machined from 6061-T6 billet aluminium for proper sealing and extra lightweight.

RADIATOR HOSE ENGINE OIL CAP ADAPTOR CAMPRO



Fuel regulator adaptor brackets are dedicated adaptors for installing adjustable fuel pressure regulator, it mounts directly onto factory fuel rail.



55 PREVÉ



CAM PULLEY

Vanders/

PREVE



Pro Series Cam Pulley Feature a lightweight design and are CNC machined from 7075-77 billet aluminium. Machining for exact component fit is critical for adjustable cam pulley.

CAT-BACK



CRANK

Weight reduction is how we are able increase Horsepower! Each pound of weight removed from the crankshaft is worth approximately 2.7HP and the gains jump even more dramatically with forced induction, nitrous.



Higher air intake and more dust absorbing than original paper air filter, increases bhp and extends enigne life. Unique EPDM frame, 1-piece extrusion molded. Light weight and strong.

DOWN PIPE



HEXARCED C

Cat back exhaust is tuned to optimize flow and temperature giving you gains in horsepower and torque.

FILTER KIT

CENTER PIPE

Center pipe is tuned to optimize flow and temperature giving you gains in horsepower and torque.

E-DRIVE

Down pipe is turned to optimize flow and temperature giving you gains in horsepower and torque.



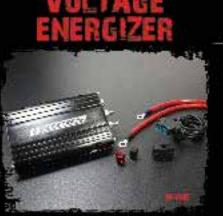
Engineered to replace the restrictive factory air box and piping, the Aero Form Intake System feeds the engine with maximum air flow with filtration protection.



3 modes in 12 levels for your application to achieve better fuel consumption and engine performance.



Installing a Works Engineering ATF OII Cooler kit will reduce your transmission oil temperature by as much as 60 degrees, which will help prevent transmission burnout and extend the life of the auto gearbox.



Works Pro Energizer offers robust, maintenance free protection for electrical loads to prevent erratic operation or equipment damaged caused by power sags or surges.

PRO-TUNE I



Unleash ECU potential and increase power output widely, improve acceleration ability and smoother gear shifting.



SNOW PERFORMANCE BOOST COOLER



STAGE 01 - Boost Cooler "

STAGE 02 - Boost Cooler "

This kit is suitable for forced induction applications that are either fuel injected or carbureted. Operation is very simple : the system starts injecting when the boost switch reaches the user-adjustable point & it injects a fixed amount offluid through the nozzle until the switch opens again. This kit uses manifold boost pressure to determine when and how much fluid to inject. Proportionally injecting according to boost pressure gives the most accurate delivery of water-methanol and allows the most cooling & performance improvement over the widest range. More power and drive ability is the result.

STAGE 03 - Boost Cooler "

The Stage 3 Boost Cooler® is unmatched for accuracy and adjustability in watermethanol injection systems. This system can be used on any forced induction engine, or ANY engine with a traditional EFI system, and features our LCD display with on-the-fly adjustability.



STAGE 02 - MAF Boost Cooler"

This kit uses the 0 to 5 Volt output signal from the Mass Air Flow sensor on many fuel injected vehicles. This means that any vehicle with a MAF (with a 0-5V output signal) can use this kit, whether they are naturally aspirated or forced induction. It is easier to set up with the positive displacement blowers with a MAF signal because it is more progressive in nature vs. the boost pressure signal on those applications. This allows for accurate injection over a wide range. The result is excellent power and driveability.

STAGE 02 - 2.0T FSI Boost Cooler"

This kit features an optimized hardware package specifically for VW and Audi 2.0T FSI vehicles. The system utilizes a special controller that is designed to read the unique digital MAF sensor output signal.

- For Southeast Asia market onlys

SNOW PERFORMANCE BOOST COOLER



STAGE 01 - Diesel Boost Cooler "

This kit progressively injects more or less water-methanol, according to manifold boost pressure. The Snow Performance Stage 1 Diesel Boost Cooler system is applicable for turbo diesels making up to 25psi of boost pressure. It has two dials to set the start and full points to tailor the delivery to your engines needs. Progressively injecting according to boost pressure allows for the most power over the widest range of RPMs.

STAGE 02 - Diesel Boost Cooler "

These kits work on exactly the same principle as the Stage 1 kits, except that the controllers are heavier duty and can read up to 100psi of turbo boost. This is the typical starting point for a mildly modified modern 3/4 or 1 ton truck with an aftermarket exhaust, intake & chip or programmer. It is capable enough for trucks running large or compound turbo systems as well. These kits allow for great horse power in creases and EGT reductions – expect about 70hp and 250 degree FEGT drop.

STAGE 03 - Diesel Boost Cooler "

The Stage 3 Diesel Boost Coolers[™] are some of the most comprehensive watermethanolinjection kits Snow Performance makes. This controller senses not only manifold boost pressure but also exhaust gas temperatures. Two inputs allows for the smoothest injection control. More importantly, it also keeps the EGTs as low as possible – if they begin to climb, even if the boost stays constant, the Stage 3 controller will read this and inject more water-methanol to compensate.



STAGE 01 - Boost Cooler Kit Includes :

- 220 PSI High Volume Pump
- 3 Quart Reservoir
- 2 Nozzles To Cover a Wide Range of Horsepower
- Required Hardware Needed For Installation
- Comprehensive Instructions

- 220 PS1 High Volume Pump
- 3 Quart Reservoir
- Digital Variable Controller
- 2 Nozzles to Cover a Wide Range of Horsepower
- All Required Hardware Needed For Installation

STAGE 02 - Boost Cooler Kit Includes :

Comprehensive Instructions

STAGE 03 - Boost Cooler Kit Includes :

- UHO (Ultra High Output) Pump
- 3 Quart Reservoir
- LCD Screen, Pushbutton Digital Variable Mappin Controller
- 2 Nazzles To Cover a Wide Range of Horsepower
- 10 feet High Pressure Tubing (1200psi burst)
- Comprehensive Instructions
 - All Required Hardware Needed For Installation



BOOST COOLER

THE WATER METHANOL INJECTION EXPERTS

MPG - MAX[™] SYSTEM FOR FUEL ECONOMY

New Boost Cooler Gasoline System gives up to a 10% increase in fuel economy! New from Snow Performance is the only system proven to increase fuel economy in all fuel injected or boosted applications. Special mapping and the most sophisticated 2d digital controller available result in measurable fuel economy benefits – up to 10%! The MPG MAX system uses a new injection management controller that allows for a small, steady spray of water/methanol to be injected across the entire power curve – even while in cruise. This provides an increase in combustion efficiency which provides more power without injecting more fuel. This increase in efficiency translates into an increase in fuel economy. Typical fuel economy increase is 5% -10%

- Maximum Fuel Economy -5%-10% MPG increase consistently demonstrated.
- Maximum Powerl Also allows the use of more timing and boost (if equipped) for more torque and even greater fuel economy increase.
- Smooth Power! Use inexpensive water or water-methanol and spare gasoline. The net effect is smooth
 power in all engine load states with no combustion quench resulting in a true turn-on-and-forget system.
- Powerful Saving Along with fuel saving, the MPG_MAX system also now has an LCD screen that displays boost (if equipped), fuel injector duty cycle and injection pump output. This means a saving of \$200 -\$300 in gauges you don't have to buy.
- Can be used in normally aspirated as well as boosted applications
- Doesn't leave a "signature" on vehicles computer so warranty isn't jeopardized.
- The most advanced system on the market true 2d mapping
- The only system proven to improve fuel economy.
- Fueleconomy (+5-10% MPG] and power
- Dash mounted module display real time no need for gauges.



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SNOW PERFORMANCE PRODUCTS

MORE INFO VISIT WWW.SNOWPERFORMANCE.NET



POWER JUICE

The Power Juice is Snow Performance's proprietary standardized mix of 49% methanol and 51% water to ensure your system offers the greatest power increase consistently



DUAL NOZZLE UPGRADE

This allows an additional nozzle to be mounted in any of our Boost Cooler™ kits. It includes a Tee junction piece with our quick-connect the fittings, a nozzle holder and a section of hose.



SAFE INJECTION

This system reduces boost and / or timing anytime injection quantity goes below set point regardless of the reason (ran out of fluid, clogged line, etc.).



NOZZLE

Unique design provides the best atomization possible. Nozzles have integrated 100 micron filters. Available in 60 ml/min, 100 ml/min, 175 ml/min, 225 ml/min, 375 ml/min, and 625 ml/min. Support 150 -1500 HP.



WASTEGATE SOLENOID

Solenoid such that boost is reduced in a wastegated turbo set-up.



LOW LEVEL INDICATOR

The Snow Performance Low Level Indicator is a float switch and indicator light that lets you know when your reservoir is running low on fluid. Simple to install and wire in any reservoir



2.5 GALLON RESERVOIR

The new 2.5 Gallon Reservoir gives much more range than the included 3 qt tanks, and is fairly small in size : – 13°1 x 9.5°h x 7.5°w (similar to a very small car battery) and includes mounting straps and an additional 15 feet of tubing and a check valve.



7 GALLON RESERVOIR

New 7 Gallon Reservoir available for those looking to maximize the range of the Boost Cooler water/methanol injection system. Designed to go 400 miles while towing.



The war faire to be

SOLENOID UPGRADE

Shut off solenoid used when mounting the injection nozzle lower than the reservoir or the reservoir is rear-mounted to prevent gravity flowing. It is also used to prevent siphoning when the injection nozzle is mounted after the throttle body or carburetor and is exposed to vacuum.

- For Southeast Asia market only -



NOZZLE MOUNTING ADAPTOR

Made from Delrin, the adapter is methanol resistant and highly durable. Installation is easy : simply drill a 3/4' hole using a spade bit, insert the inner adapter piece, and thread on the outer adaptor nut. CARBON FIBER AERO FORM INTAKE SYSTEM



Part No. Description ZTSI -001 VOLKSWAGEN GOLFV 2.0 GTI '05 - '08 (WITH PANEL FLITER) CF625-05 MAZDA RX - 8 1.3L '03 - '09 VOLVO S60 2.0T '01 - '04 CF645-01 VOLKSWAGEN GOLFV 2.0 GTI '04 - '08 (WITH URETHANE FILTER) CF660 - 24 CF660 - 27 VOLKSWAGEN GOLFVI 1.4 TSI '09 - '11 / GOLFVI 2.0 GTI '10 - '11 / SCIROCCO 1.4 & 2.0 '10 - '11 CF660 - 28 VOLKSWAGEN GOLF VI 2.0 GTI '10 - '11 AUDI A4 2.0T (88) '09- '11 CF661-09 CF650 - 11 TOYOTA FT 86

2TSI- 001 Golf V 2.0 GTI



CF645 - 1 VOLVO 560 2.0T 01 - 04



CF660 - 27 VOLISWAGEN GOLF VI 1.4 TST09



CF660-28VOLKSWAGEN GOLF VI 2.0 GTI 10



MORE INFO VISIT WWW.SIMOTA.COM

CF660-27

Our advance Aero Form air intake system is 100% carbon fiber is 100% handmade. With Simota's Carbon Fiber Aero Form air intake system, you are able to expect an outstanding increase of 5 - 12hp.

AERO FORM INTAKE SYSTEM

19



PTS- 103 HONDA CINIC FERID 1.7 VTX 01 - on



TS - 113 HOWDA CIVIC 1.806 - on





PTS - 453 MITSUBISHI LANCER GT 2.007 - on



TS-112 HONDA CHAC 2.0 06 - on

CARBON CHARGER INTAKE SYSTEM



HOT

Part No. Description

TOYOTA VIOS 1.5 W/T - 1 102 - 109
PROTON GEN - 2 & SATRIA NEO 1.3 / 1.6
VOLKSWAGEN-GOLF VE1.4 TSI 109 - 12 / SCIROCCO 1.4 TSI 109 - 12
VOLKSWAGEN GOLF VI 2.0 TSI '09 - 12 / SCIROCCO 2.0T FSI '09 - 12
MITSUBISH LANCER GT
PERODUA MYVI 1.3 105 - '10
PROTON SAGA 1.3 108-110
FORD FIESTA 1.6 '10 - '12

(副/-913



CBR-913 PROTON SASA 1.308





CBN - 71R VOLISWIAGEN GOLF VI 1.4 TS199



W-913

CBM-912 PEROLOM MYV11.2

BIG TUBE INTAKE SYSTEM



H-032FHONDK FTT 1.3

Part No.	Description
Conclusion of the	
H-032F	HONDA FIT 1.3 / 1.5 V8 - ON / CITY
H - 004 BCF	HONDA EG '92 - '95 / EK '96 - '97 (Carbon Fiber) //
and some standard literations	

H-OH BEF HONDA EG 92



360° URETHANE AIR FILTER (non - woven blue)

Part No.	Description	
JAU - B12469 - 03	Neck size 65mm, width : 120mm, height : 110mm (2.5*)	
JAU - D12469 - 03	Neck size 77mm, width : 120mm, height : 110mm (3*)	
JAU - D02401 - 03	Neck size 77mm, width : 151mm, height : 110mm (3*)	
JAU - H02401 - 03	Neck size 101mm, width : 151mm, height : 110mm (4*)	
JAU - K05401 - 03	Neck size 152mm, width : 190mm, height : 110mm (6*)	
JAU - 104201 - 03	Neck size 114mm, width : 170mm, height : 110mm (4.5*)	





360° URETHANE AIR FILTER (stainless steel)



Unathaniae Filtur 3" (JAU - 002501 - 18)

Part No.	Description		
JAU - D02501 - 18	Neck size 77mm, width : 151mm , height : 125mm (3*)		
JAU - H02501 - 18	Neck size 101mm, width : 151mm , height : 125mm (4")		
JAU - K05501 - 18	Neck size 152mm, width : 190mm , height : 125mm (6")		

1.75







Mini Air film 1" (JAU -L13423 - 21)

Part No.	Description	
JAU - L13423 - 21	360° Mini Air Filter - W : 50mm H : 35mm N : 25mm (1*)	
	360° Mini Air Filter - W : 50mm H : 35mm N : 12mm (0.5')	



AIR FLOW SENSOR

Application List

S

Part No.	Description
A(5-002P	Lenus is 250 2.5 '06 - '09
AG-005P	Honda CWicVIII 1.8 '08 - '09 / Nissan Tilda 1.6 '05 - '09
AG-006P	Nissan Sentra 1.6/1.8/2.0/04-109 / Ford Focus TDCI 2.0/07-109
AG-011P	VW Beette 1.5 101 - 109 / VW Golf M 1.5 107 - 103 / Bora 1.6 8V 107 - 103
AG-013P	Ford Focus ST 170 2.0 102-109 / Ford Escape 20101 - 109 / Ford Focus RS 2.0T 102 - 104 / Mits Outlender 2.4 103 - 109
AG-015P	Suzuki JP 2.7107 - 109 / Nitsan Teana (Cefiro) 2.0 / 2.3 / 3.5104 - 109 / Infiniti / FX35 3.5108 - 109 / Infiniti G35108 - 109
AG-016P	HONDA.CMC.VIII.2.0 08-09 / CAMRY 20:05-09 / RAV 4 2:4 08-09
AG-017P	Toyota Vios 1.5 '03 - '09 / Yaris 1.5 '05 - '09
AG-026P	Toyota Wish 20104-109
AG-027P	Honda Fit 1.5 108 - 109
AG-028P	Nissan Sentra 1.6 / 1.8 / 2.0 99 - '04 / VW Golf N 2.0 97 - '03 / VW Bora 2.0 97 - '03 / VW Bettle 2.0 99 - '09
AG-029P	Aud A4 2.0 5V 101 - 109 / Audi 53 1.81 199 - 109
AG-030P	BMW 660 5201 / 5251 / 5231 03 - 100
AG-031 P	Audi TT 1.8T 215HP (Quartino) / VW Golf N R32 3.2 102 - 104
AG-032P	Subaru Impreza 1.5° 06 - 00
AG-034P	Mazda 31.6/2.0104 - 109/ Mazda 62.0/2.3103-107/ Mazda 62.5108 - 109/ Mazda 52.0106 - 109/ Toyota Altis 1.6/1.6
AG-036P	HONDAAC00R02.408-00
AG-097P	Mazda RX-8 1.3 103- 100
AG-088P	BMW 687 (30) (UF30) '05 - '09 / BMW 690 3201/ 325 / 330 /'05 - '09
AG-039P	MITSUBISHI LANCER GT 2.0 07 - 00



121



AG-401P



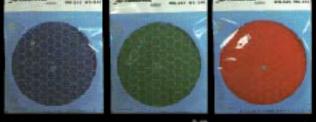
AG--080P

* Hot high performance car parts! Gain HP with this high performance intake air filter.

Replacement Filter Elements are available in oil-resistance proof construction. The impregnated with our unique type is standard in Spiral Straight-Fin or Hexagonal Honeycomb model reloaded intake kits, and is designed for superior filtration while still providing excellent airflow. The foam is made up of new patent formula in Racing Suction kits and is focused on maximizing airflow for performance and protection, yet still keeping harmful particles from the engine.

ACEMENT FILTER ELEMENT (FOR H-032E)

Part No.	Description	
OP-03R	Replacement Sponge (Red)	
OP-038	Replacement Sponge (Blue)	
OP-03G	Replacement Sponge (Green)	



AIR FILTER CLEANING KIT

Part No.	Description
OC-04	Air Filter Geaning Kit (Clear)

CLEANING

Environmentally friendly cleaning system to ensure that your Simota filter element will last for the life of your vehicle !

OIL CARE

Simota filter oil contains highly refined mineral oil with proper viscosity to trap more dirts & fine particles while maintaining maximum air flow.

Every kit comes with a bottle of Simota air filter cleaner and a can of Simota air filter oil in aerosol package to facilitate even application. Clean and no more over-oiling.





3 IN 1 PERFORMANCE OIL FILTER

The recognized leader in Filter Design & Technology, based on proven winning technology, we introduce the High Flow Race Design 3 in 1 oil Filter

HIGH FLOW STAINLESS STEEL MESH

- Lowers oil temperature
- Increase oil flow rate and volume
- Improves engine performance
- Increase bhp and torgue
- More fuel efficient

ULTRA STRONG MAGNET

- Strong magnetic field to absorb any fine debris in the engine
- Cleaner engine oil
- Better engine protection

SPIRAL COLUMN RACE DESIGN

Cause engine oil to whirl in spiral form, effectively increasing engine oil pressure.

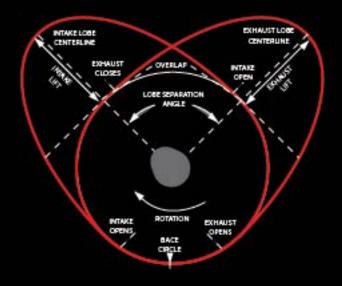


Q : What is lift?

A 1 Lift refers to how far an intake or exhaust valve is lifted off its seat at the cam lobe's highest point. Total valve lift is controlled by camshaft lobe lift and rocker arm ratio. The rocker arm ratio multiplies the cam's lobe lift.

Q : What does lift do?

A 1 The intake and exhaust valves open to let air and fuel into the cylinders and allow the exhaust gasses to escape. In general, opening the valves quicker & further will improve the engine's ability take in the air/fuel minture and increases output. Increasing valve lift can yield more power without much change to an engines' over all power curve. An increase in valve lift is almost always accompanied by an increase in duration (the amount of time the valve is open).



Q: What is duration?

A Duration is the amount of time a valve remains open. It is measured by the angle, in degrees of crankshaft rotation that the valve stays off its seat during the lift cycle of the cam lobe. Because ainflow past the valve is negligible until the valve is approximately 0.050 inch off the seat, the most accurate way to measure duration is from the point where the valve is 0.050 inch open (off the seat) until it is 0.050 inch away from closing.

Q : How does duration affect an engine?

A : By keeping the valve open longer, a carn with more duration can increase high-rpm power. Increasing the duration increases the rpm range where the engine produces power. Increasing duration without a change in lobe separation angle will result in increased valve overlap.

Q: What is lobe separation?

A : Lobe separation is the angle in camshaft degrees between the maximum lift points of the intake and exhaust valves. It is affected by the placement of the intake and exhaust lobes on the camshaft.

Q: What does lobe separation do?

A Lobe separation effects valve overlap, which in turn affects engine's power curve, idle vacuum, and rpm range. Duration, lobe separation, and valve overlap all affect each other. For example, if you want to increase valve overlap without changing duration, you can decrease the lobe separation angle. Increasing lobe separation angle without changing valve overlap requires increasing the duration.

Q: What is valve overlap?

A: Valve overlap is the angle, in degrees of crankshaft rotation, the intake and exhaust valves are both open. This occurs at the end of the exhaust stroke and the beginning of the intake stroke. Increasing lift, duration, and/or decreasing lobe separation increases valve overlap.

Q : What does valve overlap do?

A : At high engine speeds, valve overlap allows the gasses exiting the cylinder through the exhaust valve to help pull a fresh aix/fuel mixture into cylinder through the intake valve. Increasing valve overlap helps high-rpm power, but reduces low-rpm power and idle quality.

Q: What is intake Centerline?

A The intake centerline is the point of highest lift on a camshaft's intake lobe. It is expressed in crankshaft degrees After Top Dead Center (ATDC). In an assembled engine, the camshaft's intake centerline is measured by the number of crank degrees between TDC and the point of maximum valve lift.

Q:Dolneed to degree my camshaft?

A Degreeing it the process of timing the values opening and closing events with crankshaft rotation to achieve optimal performance. The intake value closing event is the most important because it controls the amount of air and fuel allowed in the cylinder. Advancing the carn (by crankshaft degrees) closes the intake value sconer, which helps low-rpm torque at the expense of high-rpm horsepower. Retarding the carn does the opposite more high-rpm horsepower at the expense of low-rpm torque.

CAMSHAFT SETTING

Cam degree or camshaft degreeing is the process of adjusting the lobe center of the cam to a predetermine crankshaft position. Because this is basically done by means of a protractor and in degrees represented by the protractor the expression of camshaft degree, cam degree or degreeing cams stuck.

Adjustable cam gears help in the process of adjusting the camshafts so that it opens and closes at the correct time. Adjustable cam gear allows the engine tuner or engine builder to move the crank whilst the cams remain stationary or vice verse. Camshaft degree insures that maximum lift correspond to a desired crank position. The center line or the point on the cam where maximum lift occurs is known as lobe center.

Setting the cams to zero on the cam gear means absolutely nothing and might even in some cases be harmful.

HOW TO DEGREE CAMS

- 1. Use a pencil, paper and arithmetic for this procedure, to keep track of the results.
- Fashion a rigid pointer from stiff wire or an old coat hanger and attach it to the engine block. This pointer locates the degrees on the degree wheel.
- With a degree wheel installed on the crankshaft, rotate the crank to get the no 1- piston at TDC and check to ensure that the valves are fully closed then adjust the pointer to zero (0° TDC) on the degree wheel.
- 4. Turn the crankshaft opposite the running rotation approximately 15-20 degrees. Install a piston stop on the top of the engine block fastened in place by two head bolts or in the case of overhead cams install the piston stop into the spark plug holes. Note: A dial gauge can also be used.
- Continue to turn the engine in the same direction until the piston comes back up and just touches the piston stop. Make a note of the exact number on the degree wheel that the pointer is on.
- 6. Rotate the engine in the other direction (running rotation) until the piston comes back up and touches the piston stop. Again note the number where the pointer is.
- 7. Remove the piston stop and rotate the crankshaft to the midpoint of the two marks. At this point the piston is at the true top dead center. Loosen the degree wheel and adjust it so it will read 0° TDC at the pointer. Don't rotate the crankshaft to do this!
- 8. Now, it's time to locate the lobe centerline relative to TDC. Attach a dial indicator on the top of the engine block. Set the tip to contact the top of the no 1-cylinder inlet valve shim / bucket. Check to make sure that the indicator plunger is parallel to the valve stem. NOTE any variance in an angle will produce geometric errors in the lift readings.
- Rotate the engine in the normal direction of rotation until a reading on the dial gauge of 0.040? lift is reached. (Valve will start to open) Mark the dial gauge and make a
 note of the reading on the degree wheel.
- 10. Continue to turn the engine in the normal direction past maximum lift. The valve will now return to its close position. Make a note of the degree wheel reading when the indicator reads 0.040° on the return side
- 11. Now odd the larger of the two readings that you noted on the degree wheel to 180 subtract the smaller number and then divide the answer by two. Your answer will indicate the lobe center of the carn. Example: open reading was 4 and close reading was 43. Now add 43 to 180 – 223, subtract 4 – 219 divide by 2 – 109.5. Lobe center is 109.5 degrees.
- 12. Continue to move the carn on the adjustable carn gear and redo steps 10 to 12 until the required lobe center is achieved.

13. Now do the same for the exhaust cam



ECU TUNING

Engine management tuning refers to changing or modifying vehicle's electronic control unit (*ECU*) to achieve better performance, whether it be more power, deaner emissions, or better fuel economy.

This was done with early engine computers in the 1980s and 1990s. Today, the term chip tuning can be misleading, as people will often use it to describe ECU tuning that does not involve swapping the chip. Modern ECUs can be tuned by simply updating their software through a standard interface, such as OBDII. This procedure is commonly referred to as engine or ECU tuning. ECUs are a relatively recent addition to the automobile, having first appeared in the late 1970s.

As technology advanced, so did the electronics that go into cars. The ECU in a modern automobile, together with advanced engine technology, makes it possible to control many aspects of the engine's operation, such as spark timing and fuel injection. The ECU may also control electronic throttle control (*drive-by-wire*), valve timing, boost control (in turbocharged engines), ABS, the automatic transmission, speed governor (*if equipped*), and the electronic stability control system.

Performance gains are realized by adjusting the ignition timing advance. Higher timing may result in higher performance. However, to cope with advanced timing, one must run high-octane gasoline to avoid pre-ignition detonation or pinging. Manufacturers design for a specific timing and this may limit performance accordingly.

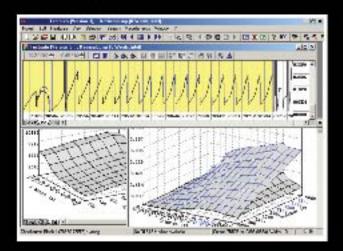


In addition, changing fuel maps to coincide with the stoichiometric ratio for gasoline combustion may also realize performance increase. Most manufacturers tune for optimum emissions and fuel economy purposes which can limit performance.

Another reason to change the ECU map is if there are engine, intake, or exhaust modifications to the car. These "bolt-on" modifications alter the way that the engine flows, often causing the air to fuel ratio to change. Without re-mapping the fuel tables, some of the performance gains from the modifications may not be realized. A poorly tuned ECU can result in decreased performance, driveability, and may even cause engine damage.

The most common way to 'upgrade' the ECU is using either plug in modules as mentioned above or using a specialist tuner who will use an OBD Flash tool. These devices generally plug into the diagnostic port although in some cases the reprogramming is done directly on the circuit board. Maps are supplied by tuners.

An alternative to modifying the on-board chip is adding an external device, often known as a tuning box. The abilities of the external devices generally reflect on-board chip modifications, with the advantage that they can be easily removed to restore the vehicle to standard. Adding an external tuning box is generally only possible on modern engines with external management ports.





ENGINE COMPRESSION TEST

A compression test will tell you if your engine has good compression. An engine is essentially a self-powered air pump, so it needs good compression to run efficiently, cleanly and to start easily. Most engines should have 9.0 - 10.0 bar of compression (*checkyour owners manual*). Of cranking compression with no more than 10% difference between any of the cylinders.

Low compression in one cylinder usually indicates a bad exhaust valve. Low compression in two adjacent cylinders typically means you have a bad head gasket.

Low compression in all cylinders would tell you the rings and cylinders are worn and the engine needs to be overhauled.

Q: HOW TO CHECK COMPRESSION ?

Compression can be checked two ways: manually with a compression gauge, or electronically with an engine analyzer the measures cranking compression. With electronic testing, a computer analyzer estimates compression in each of the engine's cylinders by measuring slight variations in engine cranking speed.

The results correlate well with actual gauge readings, and can be completed in a matter of minutes without having to remove any spark plugs. What's more, the analyzer prints out the results of the compression test making it easy to see and compare the actual numbers.

To check compression manually with a gauge, all the spark plugs must be removed. The ignition coil must then disabled or the high tension lead grounded. If the engine has a distributorless ignition, the ignition coils must be disabled to prevent them from firing. The throttle must also be held open.

The engine is then cranked for a few seconds using a remote starter switch or a helper while a compression gauge is held in a spark plug hole.

The maximum compression reading is noted, then the process is repeated for each of the remaining cylinders.

The individual cylinder readings are then compared to see if the results are within specifications (always refer to a manual for the exact , compression figures for your engine because they do vary from the ballpark figures quoted earlier).

Q: IS IT THE RINGS OR THE VALVES?

If compression is low in one or more cylinders, you can isolate the problem to the valves or rings by squirting a little 30 weight motor oil into the cylinder through the spark plug hole and repeating the compression test. The oil temporarily seals the rings.

If the compression readings are higher the second time around, it means the rings and/or cylinder is worn. No change in the compression readings would tell you the cylinder has a bad valve.







Checking your own cylinder volumes allows you to determine your exact compression ratio.



Clean the deck carefully with a razor blade.



Make sure to plug the spark plug hole with the same type of plug you will be using in the finished engine. An old plug is OK here.



If you are checking the combustion chamber volume on a bare head, seal the valves against the seat without having to install the valve springs by wiping a little Petroleum jelly or grease around the valve seat.



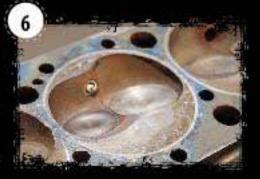
Now use the burette to fill the void in the chamber with fluid through the hole in the cover plate. You may have to work abit to get any air bubbles out. It can be easier if you drill several very small holes in the plate to evacuate air.



The key tool is a measuring burette which allows you to accurately measure volumes down to a single cubic centimeter. Liquid is isopropyl alcohol (you can use food coloring to make it easier to see). Fill the burette to the top, which is the 0cc mark.



You can see the chamber is completely filled with the fluid. Check the level on the burette to see how many cc's the chamber holds.



Seal the edges of the combustion chamber with a light coating of grease or petroleum jelly. Then press the cover plate on top.



Clean up the fluid after test done.

CONVERSION TABLES UNIT

LENGTH

1 inch	=	25.4 mm
1 feet	=	304.8 mm
1 meter	=	39.37 inch
1km	=	0.6213712 mile
1mile	=	1.609344 km
1/4 mile	=	402.34 m
1 yard	=	91.44 cm

SPEED

100 kmh	=	
100 mph	=	
Speed of light	=	
Speed of sound (1 mach)	=	
1 Knot	=	

- 62.137 mph
- 160.9344 kmh 1, 079,252,848.8 kmh 1, 225.044 kmh

1.852 kmh

POWER AND TORQUE

1 KW	=	1.341 HP	1 liter	=	1000 cc / 1000 ml
1 cv	=	0.9863 HP	1 US Gallon	-	3.7854 liter
1 foot pound (ft/	(lb) =	1.356 Nm	1 UK Gallon	-	4.55461 liter
1 kgm		9.80665 Nm	1 quart (US)	-	0.9464 liter
1 Nm	=	0.73756 foot pound	1 quart (UK)	-	1.1365225 liter
			1 oz (US)		29.5735 ml
			1 oz (UK)	=	28.413 ml

VOLUME

T US Gallon		3./854 liter
1 UK Gallon	=	4.55461 liter
1 quart (US)	=	0.9464 liter
1 quart (UK)	=	1.1365225 li
1 oz (US)	=	29.5735 ml
1 oz (UK)	=	28.413 ml
1 quart (US)	=	32 oz
1 quart (UK)	=	40 oz
1 cubic inch	=	16.387 cc
1 drum (metric)	=	200 liter
1 drum (US)	=	208.1976 lite

PRESSURE

1 bar	-	14.504 psi
1 bar	=	100 kPa
1 psi	=	0.06895 bar

TEMPERATURE

°C = (°F-32) x 5/9 ${}^{\circ}F = ({}^{\circ}Cx9/5) + 32$ kelvin(k) = ${}^{\circ}C + 273.15$

ANGLE

1 degree = 3,600 second 1 minute = 60 second

FLOW RATE

1 lb/hr = 10.5 cc/min 1 cc/min = 0.09524 lb/hr

OTHERS

1 hertz	=	60 rpm
1 hertz	=	360 degree / second
1/8	=	0.125
1/16	=	0.0625
1/32	=	0.03125

OIL PRODUCTS

RFORMANCE

PURE SYNTHETIC OIL STABILIZER

Lucas Pure Synthetic Oil Stabilizer is perfect for use in new equipment that requires synthetic oil or any equipment that needs enhanced performance. It can be used to protect new and used heavy duty and high performance transmissions, gear boxes and engines. This product controls heat and wear in motor-cycles, air-cooled engines and all drive-train components.Lucas Pure Synthetic Oil Stabilizer reduces friction for more power and more MPG.



-

HEAVY DUTY OIL STABILIZER

Description

Description

LUCAS OIL

Lucas Heavy Duty Oil Stabilizer is a 100% petroleum product that has been developed and perfected through thousands of hours of laboratory and field testing. The result is a product proven capable of servicing the lubricating needs of all engines ranging from heavy duty, high performance and general use. Since it is 100% pure petroleum, it can safely blend with all other automotive lubricants, even synthetic oils. Lucas Stabilizer is a specially formulated blend of premium oils plus a variety of petroleum–extracted additives blended together to make one product. The concentration of protective additives to the ratio of base oil allows the oil mixture to become slicker than oil alone.



TRANSMISSION FIX

Description

Description

Description

Excellent for use in limited slip differential.

Lucas Transmission Fix contains no solvents or anything else that would be harmful to an automatic transmission. It is a thermal stable blend of petroleum-extracted additives designed to correct existing problems and prevent new ones in automatic transmissions. Lucas Transmission Fix stops slip, hesitation and rough shifting in worn transmissions. It completely eliminates most seal leaks, lowers operating temperatures and stops foaming in hard working units. A must for motor homes and commercial vehicles. Lucas Transmission Fix is excellent for preventative maintenance and will extend fluid life up to four times longer. It also extends needed protection to planetary gears.

OCTANE BOOSTER

Lucas Octane Booster is a genuine performance enhancer! It has been tested and proven to deliver at least three times more Boost than most other brands. It is suitable for use in fuel injected, carbureted, throttle body and rotary engines. It's safe for turbos, oxygen sensors and catalytic converters.

Lucas Octane Booster contains specific upper cylinder lubricants that ensure easier piston travel & valve seat protection. It also ensures maximum life and performance from pumps, injectors and carburetors.

Lucas Octane Booster eliminates spark knocks, pinging and dieseling. It promotes clean fuel burn for fewer emissions and more MPG. Use with each fill-up for maximum performance and fuel mileage. It treats up to 25 gallons of leaded or unleaded gasoline.

MBER : When comparing other brands of octane booster, 10 points equal only one octane number.

Lucas Synthetic Gear Oil is a non-foaming, super slick, long lasting lubricant designed especially for heavy duty or high performance applications where other gear lubricants just aren't good enough. Contains a special additive package that cushions gears and resists 'squeezing out" under extreme pressure situations. Specially designed to stand up to high temperatures without losing its lubricity

For Southeast Asia market only -

GEICO 40197

SYNTHETIC SAE 75W-90 & 75W-140 GEAR OIL

13/



SEMI SYNTHETIC SAE 10W-40 MOTOR OIL

Description

Lucas Semi-Synthetic 10w-40 is a blend of high quality base stocks and an exclusive high performance additive package that ensures minimum drag, extended engine life, longer oil life and easy cold weather starting. Designed for use in both gasoline and diesel engines. The exclusive additive package in Lucas Semi-Synthetic 10w-40 is excellent for use in turbo charged engines. Meets or exceeds all manufacturers specifications for A3/B3/B4. SM/SL/SJ/CF. Exceeds VW 505.1-505.00-500.00 and Ford WSS M2 C 917 A.



HIGH PERFORMANCE SYNTHETIC SAE 5W-40

Description

Lucas Synthetic SAE 5W-40 Motor Oil is a formulation of high quality synthetic base stocks and an exclusive high performance additive package. It's an ideal on track / off track lubricant that ensures minimum drag for maximum fuel mileage, and easy cold weather starting.

Designed for use in both gasoline and automotive diesel engines.

Meets or exceeds all manufacturers specifications for SAE 5W-40 and APISL. Exceeds A3/B3/B4 • SJ/CF. Exceeds VW 502/505/500 and Ford WSS M2 C 917 A.

Exceeds American and European OEM specifications.

Exceeds performance levels of API SM/SL/SJ/CF - ACEA A3.98, B3.98, B4-98 - VW 500/502/505 Daimler Chrysler 229.1 - BMW Longlife Oil.

HIGH PERFORMANCE SYNTHETIC SAE 20W_50

Description

This excellent product provides the consistent viscosity needed for precision ET racing. It also stands up to heat and fuel dilution for the longevity required by circle track and off-road racers. Lucas Synthetic SAE 20W-50 is a formulation of only the finest synthetic base oils plus an exclusive additive package that includes lubricity agents and anti-seize agents that control drag like a zero weight oil and protect like a heavy multi-viscosity oil.

It's the perfect non-foaming lubricant for high RPM performance engines, including motorcycle engines. It's also excellent for normal highway use. Very long lasting.

Meets or exceeds all manufacturers specifications for SAE 20W-50 and API SL. Exceeds A3/B3/B4+ SM/SL/SJ/CF.

Exceeds American and European OEM specifications. Exceeds performance levels of API SM/SL/SJ/CF - ACEA A3-98, B3-98, B4.98 - VW 500/502/505 - Daimler Chrysler 229.1 - BMW Longlife Oil





OIL PRODUCTS INC.

SAE 30 WT PLUS RACING GIL

Description

Carl S

Description

Description

Description

Lucas 30 wt. Plus is a blend of high quality base stocks and an exclusive additive package that sets it far apart from other 30 wt. oils. Lucas 30 wt. Plus is designed to lower oil temperature and slow oil comsumption. Lucas 30 wt. extends the life of engines in race cars, lawn equipment, farm equipment or any other situation where a superior 30 wt. oil is needed.

y other



SAE 50 WT PLUS RACING OIL

The "PLUS" is for the extra additives above and beyond the normal additive package found in ordinary racing oils. Lucas 50 Plus is super slick to reduce friction and increase efficiency for maximum RPMs. It is fortified with special anti-foam agents to guard against oil cavitation at high RPMs. It is especially designed to resist break-down from contamination by racing fuels, even alcohol formulations.



Lucas Fuel Treatment is formulated for both petrol and diesel engines, carbureted or fuel injected. It gives your fuel system what it really needs - a blend of super slick oils and additives with a high detergent action that allows the engine to operate at maximum efficiency. Also, it cleans & lubricates the carburetor and injectors and causes the fuel to burn more thoroughly for increased power & less fuel consumption. Lucas Fuel Treatment should definitely be used in vehicles that require leaded fuel because it actually replaces the benefits of lead in gasoline without causing harmful emissions. Use it to pass smog tests. Finally, it totally neutralizes the harmful effects of low sulphur diesel fuel.

ENGINE OIL STOP LEAK

NEW from Lucas Oil Products, Our Engine Oil Stop Leak is a unique formulation of Lucas additives and very specific base stock designed to stop seal leaks in engines. It contains nothing that could be harmful to an engine and can actually extend the life of engine oil by at least 50%.

Leaking engines are usually older engines. Lucas Engine Oil Stop Leak is not only a leak stopper but also an excellent additive for worn engines. The user can expect less engine noise, higher oil pressure and less oil consumption as the Lucas additives fill the space between worn parts.



POWER STEERING STOP LEAK

Description

Lucas Power Steering Stop Leak completely stops power steering seal leaks. It is 100% guaranteed or your money back. It is also totally effective in reducing slack, squeals, and hard spots in worn rack and pinions. Your results will be immediate and long lasting.

- Guaranteed to stop seal leaks
- Stops rack and pinion problems
- Very cost effective

Description

If the system is leaking add Lucas Power Steering Stop Leak until leak stops, usually one bottle. Occasionally a second bottle is needed to completely stop some leaks. To eliminate squeals, whines and hard spots (morning sickness) some fluid must be sucked from the resevoir (about 6 - 12 ounces) before topping up with Lucas Power Steering Stop Leak to restore the condition of you power steering.

LUCAS DEEP CLEAN

DISPLAY SETS

Lucas Deep Clean is blended with an exclusive Lucas additive package and specific carrier fluid that contains no diesel fuel, kerosene or anything else that can be harmful or useless to an engine. It's a great product to reduces harmful NOx emissions, eliminates the need for higher octane fuel, Totally eliminates knocking and pinging. Deep cleans the entire fuel system and combustion chamber also removes carbon from deposits. Raises mpg (miles per gallon) and better performance thus improves fuel economy. A Real Fuel System Cleaner that brings sluggish engines back to life. Safe for any engine.





STARTER KIT

The perfect way to introduce Lucas Oil Products to small dealers is this attractive counter display shipped with this popular assortment of products :

- 12 each, 5.25 oz. Fuel Treatment
- 03 each, 32 oz. Heavy Duty Oil Stabilizer
- 04 each, 12 oz. Power Steering Stop Leak

03 each, 24 oz. Transmission fix

(Order Product Number 10041)

PERFORMANCE PACK

Shipped in a convenient counter top display. It's the perfect way to introduce these new profitable products from Lucas Oil Products.

- 08 each, 15 oz. Octane Booster
- 06 each, 32 oz. Synthetic Oil Stabillizer

(Order Product Number 10136)

- For Southeast Asia market only -





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