

AISIN-WARNER A10

2 speed rear wheel drive - no pan

Iss 01/05/97



| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|-----------------------|------|-----------|-------|-------------|------|----------|
| | KITS Master | | 129 01 01 | | | | |

AISIN-WARNER A20

2 speed rear wheel drive aluminium case



| | | | | | | |
|--|--|--|--|---|--|--|
| KITS Master Overhaul Gasket & seal Shaft sealing ring | | 130 01 01 130 02 01 130 03 01 130 06 01 | | CLUTCH PLATES Forward friction 106mm x 2.3 x 8T (3) Forward steel 133mm x 1.7 x 6T (3/6) Reverse friction 132mm x 2.5 x 22T (4) Reverse steel 133mm x 1.5 x 6T (4/4) | | 130 11 01 130 12 01 130 11 02 130 12 02 |
| METAL CLAD SEALS Pump Extension housing Manual control shaft | | 130 15 01 130 15 02 130 15 03 | | BRAKE BANDS 3 piece hinged band | | 130 14 01 |

AISIN-WARNER A30

3 speed rear wheel drive



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|--|--|---|--|--|--|--|
| KITS Master Overhaul Gasket & seal Shaft sealing ring | | 128 01 01 128 02 01 128 03 01 128 06 01 | | BRAKE BANDS Intermediate Low & reverse | | 128 14 01 128 14 01 |
| GASKETS Pan | | 128 25 01 | | FILTER Front pick up Rear pick up | | 128 27 01 128 27 02 |
| METAL CLAD SEALS Front pump Extension Control shaft | | 128 15 01 128 15 02 128 15 03 | | BUSHES & BEARINGS Front pump body Pump drive gear Stator support front Stator support rear Input shaft Needle bush rear drum Planetary support Rear planet internal Case rear Extension housing | | 128 21 01 128 21 03 128 21 04 128 21 05 128 21 06 128 21 07 128 21 08 128 21 09 128 21 10 128 21 02 |
| SHAFT SEALING RINGS Front clutch hub (2) Top & reverse clutch (3) Planet shaft (2) | | 128 26 01 128 26 02 128 26 03 | | THRUST WASHERS Stator support to input shaft - 2.00mm Stator support to input shaft - 1.60mm End play adjusting shim Input shaft needle bearing Sun shaft front needle bearing Sun shaft rear needle bearing Sun shaft rear bearing race | | 128 22 01 128 22 02 128 22 03 128 22 04 128 22 05 128 22 06 128 22 07 |
| CLUTCH PLATES Forward friction 106mm x 2.5 x 39T (4) Forward steel 106mm x 1.3 x 44T Forward steel 106mm x 1.5 x 44T Forward steel 106mm x 1.7 x 44T Forward diaphragm spring Top & reverse friction 106mm x 2.5 x 39T (4) Top & reverse steel 109mm x 1.7 x 44T (4) | | 128 11 01 128 12 01 128 12 02 128 12 03 128 24 01 128 11 01 128 12 04 | | | | |

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|----------------------------|---|-------|-----------|------------------------------|--|------|-----------|
| KITS | | | | BUSHES & BEARINGS | | | |
| | Master | to 81 | 159 01 01 | | Converter | | 112 21 01 |
| | Master | 81 on | 159 01 07 | | Stator (2) | | 112 21 02 |
| | Overhaul | to 81 | 159 02 01 | | Centre support | | 112 21 03 |
| | Overhaul | 81 on | 159 02 07 | | Sungear (2) | | 112 21 05 |
| | Gasket & rubber | to 81 | 159 03 01 | | Output shaft | | 112 21 04 |
| | Gasket & rubber | 81 on | 159 03 07 | | Case | | 112 21 06 |
| | Shaft sealing ring | to 81 | 159 06 02 | | Extension (Toyota) | | 159 21 01 |
| | Shaft sealing ring | 81 on | 159 06 03 | | Extension (Volvo) | | 110 21 13 |
| | Thrust washer | | 112 10 01 | THRUST WASHERS | | | |
| GASKETS | | | | | Plate - input shaft to pump | | 112 22 06 |
| | Pan | | 112 25 01 | | Needle - input shaft to pump | | 112 23 02 |
| | Valve body upper | to 81 | 159 25 25 | | Plate - forward clutch | | 112 22 06 |
| | Valve body lower | to 81 | 159 25 26 | | Needle - forward clutch | | 112 23 02 |
| | Valve body upper | 81 on | 159 25 22 | | Plate - forward clutch | | 112 22 07 |
| | Valve body lower | 81 on | 159 25 23 | | Plate - sun to intermediate shaft | | 112 22 06 |
| | Extension | | 112 25 02 | | Needle - sun to intermediate shaft | | 112 23 02 |
| | Filter | | 112 25 06 | | Plate - sun to intermediate shaft | | 112 22 07 |
| RUBBER COMPONENTS | | | | | Plate - direct clutch | | 112 22 08 |
| | Inner piston "O" ring (6) | | 112 16 09 | | Needle - direct clutch | | 112 23 03 |
| | Outer piston "O" ring (5) | | 112 16 07 | | Plate - direct clutch | | 112 22 09 |
| | Inner piston "O" ring | | 112 16 08 | | Plate - rear ring gear | | 112 22 08 |
| | Low & Rev reaction outer piston "O" ring | | 112 16 01 | | Needle - rear ring gear | | 112 23 03 |
| | Low & rev reaction inner piston "O" ring | | 112 16 11 | | Plate - sprag clutch retainer (2) | | 112 22 01 |
| | Rev brake outer piston "O" ring | | 112 16 10 | | Front thrust - front planet carrier | | 112 22 03 |
| | Pump lathe cut seal | | 112 17 01 | | Rear thrust - front planet carrier | | 112 22 04 |
| | 2nd accumulator "O" ring - lower | | 112 16 03 | | Front thrust - rear planet carrier | | 112 22 05 |
| | 2nd accumulator "O" ring upper | | 112 16 05 | | Needle - output shaft | | 112 23 01 |
| | Direct accumulator "O" ring - lower | | 112 16 02 | | Plate - output shaft | | 112 22 02 |
| | Direct accumulator "O" ring - upper | | 112 16 06 | | Front gearset planet thrust 0.695" x 0.350" x 0.033" | | 112 22 11 |
| | Forward clutch accumulator "O" ring | | 112 16 04 | | Rear gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 |
| | Cable "O" ring | | 113 16 09 | HARD PARTS | | | |
| METAL CLAD SEALS | | | | | Many similar to Borg-Warner 55 | | |
| | Converter | | 112 15 01 | | | | |
| | Cross shaft (2) | | 113 15 02 | | | | |
| | Extension (Volvo) | | 110 15 03 | | | | |
| | Extension (Toyota) | | 159 15 01 | | | | |
| SHAFT SEALING RINGS | | | | | | | |
| | Pump & centre support (5) | | 112 26 02 | | | | |
| | Planetary sun shaft (2) | | 112 26 01 | | | | |
| | Output shaft (3) | | 112 26 03 | | | | |
| CLUTCH PLATES | | | | | | | |
| | Forward clutch friction 126mm x 2.4 x 24T (5) | | 112 11 01 | | | | |
| | Forward steel (5) | | 112 12 01 | | | | |
| | Direct clutch friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | Direct steel (1) | | 112 12 01 | | | | |
| | Direct steel (2) | | 112 12 02 | | | | |
| | Direct pressure plate | | 112 13 01 | | | | |
| | 1st brake friction 126mm x 2.4 x 24T (1) | | 112 11 01 | | | | |
| | 1st brake steel (1) | | 112 12 03 | | | | |
| | 1st brake pressure plate | | 112 13 02 | | | | |
| | 2nd brake friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | 2nd brake steel (1) | | 112 12 03 | | | | |
| | 2nd brake steel (2) | | 112 12 05 | | | | |
| | 2nd brake pressure plate | | 112 13 01 | | | | |
| | Low - reverse friction 126mm x 2.3 x 16 (5) | | 112 11 02 | | | | |
| | Low - reverse steel (4) | | 112 12 04 | | | | |
| | Low - reverse pressure plate | | 112 13 03 | | | | |
| FILTER | | | | | | | |
| | Pick up | | 112 27 01 | | | | |

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|-------|-----------|-------|--|------|-----------|
| | KITS | | | | FILTER | | |
| | Master | 77-81 | 159 01 02 | | Pick up | | 159 27 01 |
| | Master | 81 on | 159 01 08 | | BUSHES | | |
| | Overhaul | 77-81 | 159 02 02 | | Pump | | 112 21 01 |
| | Overhaul | 81 on | 159 02 08 | | Stator (front) 24.8 o/d x 21.5 i/d x 9.6 long | | 112 21 02 |
| | Gasket & Rubber | 77-81 | 159 03 02 | | Stator (rear) 24.8 o/d x 21.5 i/d x 17.2 long | | 159 21 02 |
| | Gasket & Rubber | 81 on | 159 03 08 | | Overdrive sun gear (2) | | 112 21 07 |
| | Shaft sealing ring | 77-81 | 159 06 02 | | Overdrive input shaft | | 112 21 08 |
| | Shaft sealing ring | 81 on | 159 06 03 | | Centre support | | 112 21 03 |
| | GASKETS | | | | Sun gear (2) | | 112 21 05 |
| | Pan | | 112 25 01 | | Output shaft | | 112 21 04 |
| | Valve body upper large | | 159 25 01 | | Case | | 112 21 06 |
| | Valve body lower large | | 159 25 02 | | Extension (Toyota) | | 159 21 01 |
| | Valve body upper small | | 159 25 03 | | Extension (Volvo) | | 110 21 13 |
| | Valve body lower small | | 159 25 04 | | THRUST WASHERS | | |
| | Filter | | 159 25 24 | | Front gearset planet thrust 0.695" x 0.350" x 0.033" | | 112 22 11 |
| | Extension | | 112 25 02 | | Rear gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 |
| | RUBBER COMPONENTS | | | | | | |
| | Inner piston "O" ring (6) | | 112 16 09 | | | | |
| | Outer piston "O" ring (5) | | 112 16 07 | | | | |
| | Inner piston "O" ring | | 112 16 08 | | | | |
| | Low & Rev reaction outer piston "O" ring | | 112 16 01 | | | | |
| | Low & rev reaction inner piston "O" ring | | 112 16 11 | | | | |
| | Rev brake outer piston "O" ring | | 112 16 10 | | | | |
| | Pump lathe cut seal | | 112 17 01 | | | | |
| | 2nd accumulator "O" ring - lower | | 112 16 03 | | | | |
| | 2nd accumulator "O" ring upper | | 112 16 05 | | | | |
| | Direct accumulator "O" ring - lower | | 112 16 02 | | | | |
| | Direct accumulator "O" ring - upper | | 112 16 06 | | | | |
| | Forward clutch accumulator "O" ring | | 112 16 04 | | | | |
| | Cable "O" ring | | 113 16 09 | | | | |
| | METAL CLAD SEALS | | | | | | |
| | Converter | | 112 15 01 | | | | |
| | Cross shaft (2) | | 113 15 02 | | | | |
| | Extension (Volvo) | | 110 15 03 | | | | |
| | Extension (Toyota) | | 159 15 01 | | | | |
| | SHAFT SEALING RINGS | | | | | | |
| | Pump & centre support (5) | | 112 26 02 | | | | |
| | Planetary sun shaft (2) | | 112 26 01 | | | | |
| | Output shaft (3) | | 112 26 03 | | | | |
| | CLUTCH PLATES | | | | | | |
| | Overdrive clutch friction 126mm x 2.4 x 24T (2) | | 112 11 01 | | | | |
| | Overdrive clutch steel (3) | | 112 12 01 | | | | |
| | Overdrive brake friction 126mm x 2.4 x 24T (1) | | 112 11 01 | | | | |
| | Overdrive brake steel (1) | | 112 12 03 | | | | |
| | Forward clutch friction 126mm x 2.4 x 24T (5) | | 112 11 01 | | | | |
| | Forward steel (5) | | 112 12 01 | | | | |
| | Direct clutch friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | Direct steel (1) | | 112 12 01 | | | | |
| | Direct sreeel (2) | | 112 12 02 | | | | |
| | Direct pressure plate | | 112 13 01 | | | | |
| | 1st brake friction 126mm x 2.4 x 24T (1) | | 112 11 01 | | | | |
| | 1st brake steel (1) | | 112 12 03 | | | | |
| | 1st brake pressure plate | | 112 13 02 | | | | |
| | 2nd brake friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | 2nd brake steel (1) | | 112 12 03 | | | | |
| | 2nd brake steel (2) | | 112 12 05 | | | | |
| | 2nd brake pressure plate | | 112 13 01 | | | | |
| | Low -reverse friction 126mm x 2.3 x 16T (5) | | 112 11 02 | | | | |
| | Low - reverse steel (4) | | 112 12 04 | | | | |
| | Low - reverse pressure plate | | 112 13 03 | | | | |



Iss 10/08/98

Volvo & Toyota
4 speed rear wheel drive non lock up.
Transmission codes 03-70 & 03-71

AISIN-WARNER
(03-70, 03-71) A42D

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|----------------------------|---|-------|-----------|-------|--|------|-----------|
| KITS | | | | | | | |
| | Master | 77-81 | 159 01 02 | | Direct steel | (2) | 112 12 02 |
| | Master | 81 on | 159 01 08 | | Direct pressure plate | | 112 13 01 |
| | Overhaul | 77-81 | 159 02 02 | | Direct packing plate (0.50mm) | | 159 12 08 |
| | Overhaul - Combination | 81 on | 159 02 08 | | Direct packing plate (0.80mm) | | 159 12 09 |
| | Overhaul - Volvo | 81 on | 159 02 12 | | 1st brake friction 126mm x 2.4 x 24T | (1) | 112 11 01 |
| | Gasket & Rubber | 77-81 | 159 03 02 | | 1st brake steel | (1) | 112 12 03 |
| | Gasket & Rubber | 81 on | 159 03 08 | | 1st brake pressure plate | | 112 13 02 |
| | Shaft sealing ring | 77-81 | 159 06 02 | | 2nd brake friction 126mm x 2.4 x 24T | (3) | 112 11 01 |
| | Shaft sealing ring | 81 on | 159 06 03 | | 2nd brake steel | (1) | 112 12 03 |
| | Friction & steel module - 2.4 frictions | | 112 07 01 | | 2nd brake steel | (2) | 112 12 05 |
| | | | | | 2nd brake pressure plate | | 112 13 01 |
| GASKETS | | | | | | | |
| | Pan | | 112 25 01 | | Low -reverse friction 126mm x 2.3 x 16T | (5) | 112 11 02 |
| | Valve body upper large | | 159 25 05 | | Low - reverse steel | (4) | 112 12 04 |
| | Valve body lower large | | 159 25 06 | | Low - reverse pressure plate | | 112 13 03 |
| | Valve body upper small | | 159 25 07 | | | | |
| | Valve body lower small | | 159 25 08 | | FILTER | | |
| | Valve body upper large - Volvo (in kit 159 02 12) | to 82 | 159 25 18 | | Pick up | | 159 27 02 |
| | Valve body lower large - Volvo (in kit 159 02 12) | to 82 | 159 25 14 | | | | |
| | Valve body upper small - Volvo (in kit 159 02 12) | to 82 | 159 25 22 | | BUSHES | | |
| | Valve body lower small - Volvo (in kit 159 02 12) | to 82 | 159 25 12 | | Pump | | 112 21 01 |
| | Filter - Volvo | | 159 25 19 | | Stator (front) 24.8 o/d x 21.5 i/d x 9.6 long | | 112 21 02 |
| | Extension | | 112 25 02 | | Stator (rear) 24.8 o/d x 21.5 i/d x 17.2 long | | 159 21 02 |
| RUBBER COMPONENTS | | | | | | | |
| | Overdrive to maincase "O" ring | | 159 16 03 | | Overdrive sun gear | (2) | 112 21 07 |
| | Pump outer "O" ring | | 159 16 02 | | Overdrive input shaft | | 112 21 08 |
| | Pump outer "D" ring | | 112 17 01 | | Centre support | | 112 21 03 |
| | Inner piston "O" ring (6) | | 112 16 09 | | Sun gear (2) | | 112 21 05 |
| | Outer piston "O" ring (5) | | 112 16 07 | | Output shaft | | 112 21 04 |
| | Inner piston "O" ring | | 112 16 08 | | Case | | 112 21 06 |
| | Low & Rev reaction outer piston "O" ring | | 112 16 01 | | Extension (Toyota) | | 159 21 01 |
| | Low & rev reaction inner piston "O" ring | | 112 16 11 | | Extension (Volvo) | | 110 21 13 |
| | Rev brake outer piston "O" ring | | 112 16 10 | | THRUST WASHERS | | |
| | Pump lathe cut seal | | 112 17 01 | | Front gearset planet thrust 0.695" x 0.350" x 0.033" | | 112 22 11 |
| | 2nd accumulator "O" ring - lower | | 112 16 03 | | Rear gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 |
| | 2nd accumulator "O" ring upper | | 112 16 05 | | | | |
| | Direct accumulator "O" ring - lower | | 112 16 02 | | ELECTRICAL | | |
| | Direct accumulator "O" ring - upper | | 112 16 06 | | Overdrive rely | | 159 35 02 |
| | Forward clutch accumulator "O" ring | | 112 16 04 | | Overdrive solenoid (Toyota & Volvo) | | 159 35 03 |
| | Cable "O" ring | | 113 16 09 | | | | |
| | Overdrive solenoid - large | | 180 16 20 | | | | |
| | Overdrive solenoid - small | | 173 16 07 | | | | |
| METAL CLAD SEALS | | | | | | | |
| | Converter | | 193 15 01 | | | | |
| | Cross shaft (2) | | 113 15 02 | | | | |
| | Extension (Volvo) | | 110 15 03 | | | | |
| | Extension (Toyota) | | 159 15 01 | | | | |
| SHAFT SEALING RINGS | | | | | | | |
| | Pump & centre support (7) | | 159 26 02 | | | | |
| | Planetary sun shaft (2) | | 112 26 01 | | | | |
| | Output shaft (3) | | 112 26 03 | | | | |
| | Sun shaft (2) | | 159 26 04 | | | | |
| CLUTCH PLATES | | | | | | | |
| | Overdrive clutch friction 126mm x 2.4 x 24T (2) | | 112 11 01 | | | | |
| | Overdrive clutch steel (3) | | 112 12 01 | | | | |
| | Overdrive brake friction 126mm x 2.4 x 24T (1) | | 112 11 01 | | | | |
| | Overdrive brake steel (1) | | 112 12 03 | | | | |
| | Forward clutch friction 126mm x 2.4 x 24T (5) | | 112 11 01 | | | | |
| | Forward steel (5) | | 112 12 01 | | | | |
| | Forward packing plate (0.50mm) | | 159 12 08 | | | | |
| | Forward packing plate (0.80mm) | | 159 12 09 | | | | |
| | Direct clutch friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | Direct steel (1) | | 112 12 01 | | | | |



| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|------|-----------|-------|--|------|-----------|
| | KITS | | | | FILTER | | |
| | Overhaul 2 wheel drive | | 159 02 06 | | Pick up | | 159 27 03 |
| | Overhaul 2 & 4 wheel drive | | 159 02 09 | | BUSHES & BEARINGS | | |
| | GASKETS | | | | Pump | | 112 21 01 |
| | Pan | | 112 25 01 | | Stator (front) 24.8 o/d x 21.5 i/d x 17.2 long | | 158 21 02 |
| | Valve body upper large | | 159 25 09 | | Stator (rear) 26.2 o/d x 23.0 i/d x 17.2 long | | 159 21 03 |
| | Valve body lower large | | 159 25 10 | | Overdrive sun gear (2) | | 112 21 07 |
| | Valve body upper small | | 159 25 11 | | Overdrive input shaft | | 112 21 08 |
| | Valve body lower small | | 159 25 12 | | Centre support | | 112 21 03 |
| | Valve body upper large - Volvo | | 159 25 18 | | Sun gear (2) | | 112 21 05 |
| | Valve body lower large - Volvo | | 159 25 14 | | Output shaft | | 112 21 04 |
| | Valve body upper small - Volvo | | 159 25 22 | | Case | | 112 21 06 |
| | Valve body lower small - Volvo | | 159 25 12 | | Extension (Toyota) | | 159 21 01 |
| | Filter for | | 159 25 21 | | Extension (Volvo) | | 110 21 13 |
| | Extension | | 112 25 02 | | Extension (Isuzu) | | 159 21 06 |
| | Cover plate rear of case | | 112 25 07 | | THRUST WASHERS | | |
| | METAL CLAD SEALS | | | | Pump combo needle 43 x 24.5 x 31 N x 2.75 | | 159 23 01 |
| | Converter | | 112 15 01 | | Pump race 39 x 24.5 x 0.80 x 3.30 cup | | 159 22 04 |
| | Extension | | 159 15 01 | | OD drum & sun to g/set 37.5 x 25 x 2 x 32 N | | 159 23 02 |
| | Volvo | | 110 15 03 | | OD drum & sun to g/set 37.5 x 25 x 0.80 x flat | | 159 22 01 |
| | CLUTCH PLATES | | | | OD g/set to r/gear 48 x 23 x 0.80 steel, 3 tangs | | 159 22 03 |
| | Overdrive clutch friction 126mm x 2.4 x 24T (2) | | 112 11 01 | | OD g/set to r/gear 42 x 24.5 x 1.5 bi-met, 4 tangs | | 159 22 02 |
| | Overdrive clutch friction 126mm x 2.0 x 24T or (2) | | 159 11 03 | | OD r/gear to OD house 47.3 x 30 x 0.80x 3.2 cup | | 159 22 05 |
| | Overdrive clutch steel 1.4 X 8T (1) | | 159 12 02 | | OD r/gear to OD house 46.5x 28.5 x 2 x 34 N | | 112 23 03 |
| | Overdrive clutch steel 1.8 X 8T (2) | | 112 12 01 | | OD r/g to OD house 44.5 x 27.8 x 0.80 x 3.3. T/hat | | 112 22 09 |
| | Overdrive clutch steel 2.0 x 8T (1) | | 159 12 06 | | OD housing to fwd cyl 37.5 x 24.2 x 0.80 x 4.2 T/hat | | 112 22 06 |
| | Overdrive clutch steel 2.3 x 8T (1) | | 159 12 10 | | OD housing to fwd cyl needle | | 112 23 02 |
| | Overdrive clutch steel - waved 0.020" (1) | | 159 12 04 | | Fwd hub to direct 48.3 x 30 x 0.80 x 4 cup | | 112 22 08 |
| | Overdrive clutch pressure (1) | | 159 13 03 | | Fwd hub to direct 46.5 x 28.3 x 2 x 34 N | | 112 23 03 |
| | Overdrive brake friction 2.3 X 44T (3) | | 159 11 01 | | Fwd hub to direct 44.5 x 27.8 x 0.80 x 3.3. T/hat | | 112 22 09 |
| | Overdrive brake friction 1.7 X 33T (3) | | 159 11 02 | | Fwd cyl to fwd hub 37.5 x 24.2 x 0.80 x 4.2 T/hat | | 112 22 06 |
| | Overdrive brake dished steel 3.3mm (1) | | 159 12 03 | | Fwd cyl to fwd hub needle | | 112 23 02 |
| | Overdrive brake steel 142mm x 2.0 x 7T (3) | | 159 12 01 | | Fwd cyl to fwd hub 37.5 x 21.8 x 0.80x 5.4 T/hat | | 112 22 07 |
| | Overdrive brake steel 142mm x 2.3 x 7T (3) | | 159 12 04 | | OD g/set 73 x 46.5 x stepped sect 4 lugs(P) | | 159 22 08 |
| | Overdrive brake pressure 4.0mm (1) | | 159 13 02 | | Mid to rear g/set 76.5 x 50 x 1.5 x 4 lugs (P) | | 159 22 06 |
| | Forward clutch friction 126mm x 2.4 x 24T (4/5) | | 112 11 01 | | Mid to rear g/set 75 x 51.5 x 1 x 4 inner lugs (S) | | 159 22 07 |
| | Forward clutch friction 126mm x 2.0 x 24T or (4/5) | | 159 11 03 | | Rear of sun 37.5 x 24.2 x 0.80 x 4.2 T/hat | | 122206 |
| | Forward steel 1.8 x 8T (3/4) | | 112 12 01 | | Rear of sun needle | | 122302 |
| | Forward steel 1.4 X 8T (1) | | 159 12 02 | | Rear of sun 37.5 x 21.8 x 0.80 x 5.4 T/hat | | 122207 |
| | Forward end plate & direct hub | | 159 29 11 | | R/gear to output shaft 48.3 x 30 x 0.80 x 4 cup | | 122208 |
| | Forward packing plate (0.50mm) | | 159 12 08 | | R/gear to output shaft 46.5 x 28.3 x 2 x 34 N | | 122303 |
| | Forward packing plate (0.80mm) | | 159 12 09 | | Case to output shaft 57.5 x 39.3 x 0.80 x 3.2 cup | | 122202 |
| | Direct clutch friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | Case to output shaft 55 x 38.2 x 2 x 48 N | | 122301 |
| | Direct clutch friction 126mm x 2.0 x 24T or (3) | | 159 11 03 | | | | |
| | Direct steel 1.8 X 8T (3) | | 159 12 06 | | | | |
| | Direct pressure stepped 3.5 to 4.0 | | 159 13 07 | | | | |
| | Direct packing plate (0.50mm) | | 159 12 08 | | | | |
| | Direct packing plate (0.80mm) | | 159 12 09 | | | | |
| | 1st brake friction 126mm x 2.4 x 24T (4/5) | | 112 11 01 | | | | |
| | 1st brake friction 126mm x 2.0 x 24T or (4/5) | | 159 11 03 | | | | |
| | 1st brake steel 1.6 x 8T (3/4) | | 112 12 03 | | | | |
| | 1st brake steel 1.8 x 8T or (AR) | | 159 12 11 | | | | |
| | 1st brake steel 2.0 x 8T or (AR) | | 159 12 12 | | | | |
| | 1st brake steel 2.3 x 8T or (AR) | | 112 12 05 | | | | |
| | 1st brake pressure plate 4.0 (1) | | 159 13 04 | | | | |
| | 2nd brake friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | 2nd brake friction 126mm x 2.0 x 24T or (3) | | 159 11 03 | | | | |
| | 2nd brake steel 1.6 x 8T std (1) | | 112 12 03 | | | | |
| | 2nd brake steel 1.8 x 8T (AR) | | 159 12 11 | | | | |
| | 2nd brake steel 2.0 x 8T (AR) | | 159 12 12 | | | | |
| | 2nd brake steel 2.3 x 8T std (2) | | 112 12 05 | | | | |
| | 2nd brake steel 3.0 X 8T (AR) | | 159 12 05 | | | | |
| | 2nd brake pressure stepped 2.5 to 4.0 | | 159 13 05 | | | | |
| | Low - reverse friction 126mm x 2.3 x 16T (5) | | 112 11 02 | | | | |
| | Low - reverse steel 1.8 x 15T (4) | | 112 12 04 | | | | |
| | Low - reverse pressure front (also OWC hub) | | 159 44 05 | | | | |
| | Low - reverse pressure 4.0 stepped (1) | | 159 13 06 | | | | |



Iss 01/05/97

Opel, Toyota, Vauxhall, Volvo
4 speed rear wheel drive with lock up.
Transmission code 03-71L (A43DL) & 03-71LE (A43DE)

AISIN-WARNER
(03-71LE) A43DE
(03-71L) A43DL

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|----------|-----------|-------|--|---------|-----------|
| | KITS | | | | | | |
| | Overhaul - Toyota, Volvo, Vauxhall (combo kit) | to 87 | 159 02 03 | | 1st brake steel 1.6 x 8T | | 112 12 03 |
| | Overhaul - Vauxhall | 87 on | 159 02 11 | | 1st brake steel 1.8 x 8T | (3/4) | 159 12 11 |
| | Overhaul - Volvo | | 159 02 13 | | 1st brake steel 2.0 x 8T | or (AR) | 159 12 12 |
| | Overhaul (combo with A46DE) | | 159 02 10 | | 1st brake steel 2.3 x 8T | or (AR) | 112 12 05 |
| | Gasket & rubber | | 159 03 03 | | 1st brake pressure plate 4.0 | (1) | 159 13 04 |
| | Shaft sealing rings | | 159 06 03 | | 2nd brake friction 126mm x 2.4 x 24T | (3) | 112 11 01 |
| | Needle thrusts & races | | 159 10 01 | | 2nd brake friction 126mm x 2.0 x 24T | or (3) | 159 11 03 |
| | Plain thrusts | | 159 10 02 | | 2nd brake steel 1.6 x 8T | std (1) | 112 12 03 |
| | GASKETS | | | | 2nd brake steel 1.8 x 8T | (AR) | 159 12 11 |
| | Pan | | 112 25 01 | | 2nd brake steel 2.0 x 8T | (AR) | 159 12 12 |
| | V/B upper large for 03-71L (Volvo as kit 159 02 13) | | 159 25 09 | | 2nd brake steel 2.3 x 8T | std (2) | 112 12 05 |
| | V/B lower large for 03-71L (Volvo as kit 159 02 13) | | 159 25 10 | | 2nd brake steel 3.0 X 8T | (AR) | 159 12 05 |
| | V/B upper small for 03-71L (Volvo as kit 159 02 13) | | 159 25 11 | | 2nd brake pressure stepped 2.5 to 4.0 | | 159 13 05 |
| | V/B lower small for 03-71L (Volvo as kit 159 02 13) | | 159 25 23 | | Low - reverse friction 126mm x 2.3 x 16T | (5) | 112 11 02 |
| | V/B upper large for 03-71LE | | 159 25 16 | | Low - reverse steel 1.8 x 15T | (4) | 112 12 04 |
| | V/B lower large for 03-71LE | | 159 25 17 | | Low - reverse pressure front (also OWC hub) | | 159 44 05 |
| | V/B upper small for 03-71LE | | 159 25 15 | | Low - reverse pressure 4.0 stepped | (1) | 159 13 06 |
| | Filter for 03-71L | | 159 25 21 | | FILTER | | |
| | Filter for 03-71LE | | 159 25 20 | | Pick up for 03-71L | | 159 27 03 |
| | Extension | | 112 25 02 | | Pick up for 03-71LE | | 159 27 04 |
| | Cover plate rear of case | | 112 25 07 | | BUSHES & BEARINGS | | |
| | METAL CLAD SEALS | | | | Pump | | 112 21 01 |
| | Converter | | 112 15 01 | | Stator (front) 24.8 o/d x 21.5 i/d x 17.2 long | | 159 21 02 |
| | Extension - Toyota | | 159 15 01 | | Stator (rear) 26.2 o/d x 23.0 i/d x 17.2 long | | 159 21 03 |
| | Extension - Vauxhall | | 120 15 02 | | Overdrive sun gear | (2) | 112 21 07 |
| | Extension - Vauxhall Senator 2.5i (55 x 41 x 10) | 87- | 159 15 02 | | Overdrive input shaft | | 112 21 08 |
| | Volvo | | 110 15 03 | | Centre support | | 112 21 03 |
| | SHAFT SEALING RINGS | | | | Sun gear | (2) | 112 21 05 |
| | Pump - plastic butt joint | (2) | 159 26 01 | | Output shaft | | 112 21 04 |
| | OD housing rear | (2) | 159 26 02 | | Case | | 112 21 06 |
| | Centre support - steel lock joint | (3) | 159 26 02 | | Extension (Toyota & Senator) | | 159 21 01 |
| | Sun shaft | (2) | 112 26 01 | | Extension (Volvo) | | 110 21 13 |
| | Output shaft | (3) | 112 26 03 | | THRUST WASHERS | | |
| | Intermediate shaft 14mm dia | (1) | 159 26 03 | | Pump combo needle 43 x 24.5 x 31 N x 2.75 | | 159 23 01 |
| | CLUTCH PLATES | | | | Pump race 39 x 24.5 x 0.80 x 3.30 cup | | 159 22 04 |
| | Overdrive clutch friction 126mm x 2.4 x 24T | (2) | 112 11 01 | | OD drum & sun to g/set 37.5 x 25 x 2 x 32 N | | 159 23 02 |
| | Overdrive clutch friction 126mm x 2.0 x 24T | or (2) | 159 11 03 | | OD drum & sun to g/set 37.5 x 25 x 0.80 x flat | | 159 22 01 |
| | Overdrive clutch steel 1.4 X 8T | (1) | 159 12 02 | | OD g/set to r/gear 48 x 23 x 0.80 steel, 3 tangs | | 159 22 03 |
| | Overdrive clutch steel 1.8 X 8T | (2) | 112 12 01 | | OD g/set to r/gear 42 x 24.5 x 1.5 bi-met, 4 tangs | | 159 22 02 |
| | Overdrive clutch steel 2.0 x 8T | (1) | 159 12 06 | | OD r/gear to OD house 47.3 x 30 x 0.80x 3.2 cup | | 159 22 05 |
| | Overdrive clutch steel 2.3 x 8T | (1) | 159 12 10 | | OD r/gear to OD house 46.5x 28.5 x 2 x 34 N | | 112 23 03 |
| | Overdrive clutch steel - waved 0.020" | (1) | 159 12 04 | | OD r/g to OD house 44.5 x 27.8 x 0.80 x 3.3. T/hat | | 112 22 09 |
| | Overdrive clutch pressure | (1) | 159 13 03 | | OD housing to fwd cyl 37.5 x 24.2 x 0.80 x 4.2 T/hat | | 112 22 06 |
| | Overdrive brake friction 2.3 X 44T | (3) | 159 11 01 | | OD housing to fwd cyl needle | | 112 23 02 |
| | Overdrive brake friction 1.7 X 33T | (3) | 159 11 02 | | Fwd hub to direct 48.3 x 30 x 0.80 x 4 cup | | 112 22 08 |
| | Overdrive brake dished steel 3.3mm | (1) | 159 12 03 | | Fwd hub to direct 46.5 x 28.3 x 2 x 34 N | | 112 23 03 |
| | Overdrive brake steel 142mm x 2.0 x 7T | (3) | 159 12 01 | | Fwd hub to direct 44.5 x 27.8 x 0.80 x 3.3. T/hat | | 112 22 09 |
| | Overdrive brake steel 142mm x 2.3 x 7T | (3) | 159 12 04 | | Fwd cyl to fwd hub 37.5 x 24.2 x 0.80 x 4.2 T/hat | | 112 22 06 |
| | Overdrive brake pressure 4.0mm | (1) | 159 13 02 | | Fwd cyl to fwd hub needle | | 112 23 02 |
| | Forward clutch friction 126mm x 2.4 x 24T | (4/5) | 112 11 01 | | Fwd cyl to fwd hub 37.5 x 21.8 x 0.80x 5.4 T/hat | | 112 22 07 |
| | Forward clutch friction 126mm x 2.0 x 24T | or (4/5) | 159 11 03 | | OD g/set 73 x 46.5 x stepped sect 4 lugs(P) | | 159 22 08 |
| | Forward steel 1.8 x 8T | (3/4) | 112 12 01 | | Mid to rear g/set 76.5 x 50 x 1.5 x 4 lugs (P) | | 159 22 06 |
| | Forward steel 1.4 X 8T | (1) | 159 12 02 | | Mid to rear g/set 75 x 51.5 x 1 x 4 inner lugs (S) | | 159 22 07 |
| | Forward end plate & direct hub | | 159 29 11 | | Rear of sun 37.5 x 24.2 x 0.80 x 4.2 T/hat | | 112 22 06 |
| | Forward packing plate (0.50mm) | | 159 12 08 | | Rear of sun needle | | 112 23 02 |
| | Forward packing plate (0.80mm) | | 159 12 09 | | Rear of sun 37.5 x 21.8 x 0.80 x 5.4 T/hat | | 112 22 07 |
| | Direct clutch friction 126mm x 2.4 x 24T | (3) | 112 11 01 | | R/gear to output shaft 48.3 x 30 x 0.80 x 4 cup | | 112 22 08 |
| | Direct clutch friction 126mm x 2.0 x 24T | or (3) | 159 11 03 | | R/gear to output shaft 46.5 x 28.3 x 2 x 34 N | | 112 23 03 |
| | Direct steel 1.8 X 8T | (3) | 159 12 06 | | Case to output shaft 57.5 x 39.3 x 0.80 x 3.2 cup | | 112 22 02 |
| | Direct pressure stepped 3.5 to 4.0 | | 159 13 07 | | Case to output shaft 55 x 38.2 x 2 x 48 N | | 112 23 01 |
| | Direct packing plate (0.50mm) | | 159 12 08 | | Front gearset planets 0.840" x 0.500" x 0.018" | | 159 22 10 |
| | Direct packing plate (0.80mm) | | 159 12 09 | | | | |
| | 1st brake friction 126mm x 2.4 x 24T | (4/5) | 112 11 01 | | | | |
| | 1st brake friction 126mm x 2.0 x 24T | or (4/5) | 159 11 03 | | | | |

AISIN-WARNER
A43DE (03-71LE)

Opel, Toyota, Vauxhall, & Volvo
4 speed rear wheel drive with lock up.
Transmission code 03-71L (A43DL) & 03-71LE (A43DE)

Iss 01/05/97



A43DL (03-71L)

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|------|-----------|-------|---------------------------------|------|-----------|
| | Rear gearset planets 0.840" x 0.500" x 0.018" | | 159 22 10 | | | | |
| | TUBES | | | | | | |
| | Overdrive clutch feed | | 159 63 01 | | Rear planet carrier - 2.5E, 3.0 | | 159 66 04 |
| | Forward feed | | 159 63 02 | | Rear planet carrier - 2.2E, 2.3 | | 159 66 06 |
| | | | | | Intermediate shaft | | 159 29 09 |
| | | | | | Rear planet ring gear | | 159 66 05 |
| | | | | | Output shaft | | |
| | CIRCLIPS | | | | ELECTRICAL | | |
| | Overdrive one way clutch | | 159 32 01 | | Overdrive solenoid | | 159 35 03 |
| | Overdrive clutch pressure plate outer | | 159 32 06 | | | | |
| | Overdrive clutch pressure plate inner | | 159 32 02 | | | | |
| | Overdrive brake piston | | 159 32 03 | | | | |
| | Overdrive brake pressure plate | | 159 32 03 | | | | |
| | Forward clutch pressure plate outer | | 159 32 06 | | | | |
| | Forward clutch pressure plate inner | | 159 32 02 | | | | |
| | Direct clutch pressure | | 159 32 06 | | | | |
| | Direct clutch piston | | 159 32 04 | | | | |
| | First brake pressure | | 159 32 06 | | | | |
| | First brake piston | | 159 32 08 | | | | |
| | Second brake pressure | | 159 32 06 | | | | |
| | Sun gear | | 159 32 09 | | | | |
| | Low & reverse pressure plate to case | | 159 32 10 | | | | |
| | Gearset one way clutch | | 159 32 07 | | | | |
| | Low & reverse piston | | 159 32 08 | | | | |
| | SPRINGS | | | | | | |
| | Overdrive clutch release (20) | | 159 24 01 | | | | |
| | Overdrive brake (12) | | 159 24 01 | | | | |
| | Forward clutch (20) | | 159 24 01 | | | | |
| | Direct clutch (18) | | 159 24 01 | | | | |
| | First brake (12) | | 159 24 01 | | | | |
| | Second brake (20) | | 159 24 01 | | | | |
| | Low & reverse brake (16) | | 159 24 01 | | | | |
| | HARD PARTS | | | | | | |
| | Pump assembly | | 159 38 01 | | | | |
| | Short pump Vauxhall / Opel | | 159 38 02 | | | | |
| | OD gearset one way clutch - 20 cams | | 159 44 01 | | | | |
| | OD gearset OWC outer race | | 159 44 02 | | | | |
| | Input shaft & OD gearset | | 159 66 01 | | | | |
| | OD gearset ring gear | | 159 66 02 | | | | |
| | OD clutch cylinder & sun gear | | 159 65 01 | | | | |
| | OD clutch piston | | 159 45 01 | | | | |
| | OD brake aluminium housing | | 159 29 04 | | | | |
| | OD brake piston | | 159 45 10 | | | | |
| | Drive shaft & fwd cyl 2.2E,2.3TD | | 159 29 06 | | | | |
| | Drive shaft & fwd cyl 2.5E, 3.0 | | 159 29 05 | | | | |
| | Forward clutch piston (for 4 friction) | | 159 45 11 | | | | |
| | Forward clutch piston (for 5 friction) | | 159 45 09 | | | | |
| | Forward & direct spring assembly (2) | | 159 29 10 | | | | |
| | Forward clutch hub | | 159 29 10 | | | | |
| | Forward clutch end plate & direct clutch input hub | | 159 29 11 | | | | |
| | Spring seat retainer | | | | | | |
| | Piston - direct clutch | | 159 45 08 | | | | |
| | Direct clutch cylinder | | 159 29 07 | | | | |
| | 1st & 2nd brake spring assemblies (2) | | | | | | |
| | 1st brake piston (2) | | 159 45 07 | | | | |
| | Centre support | | 159 29 08 | | | | |
| | Sprag clutch - front - 18 cams | | 112 44 01 | | | | |
| | 2nd brake hub | | | | | | |
| | 2nd brake piston | | 159 45 06 | | | | |
| | Planetary sun gear & shaft | | 112 65 01 | | | | |
| | Inner race & reaction | | 159 44 05 | | | | |
| | Sprag clutch - rear - 26 cams | | 112 44 02 | | | | |
| | Front planet carrier | | 159 66 03 | | | | |
| | Front planet ring gear | | | | | | |



Iss 01/05/97

Volvo & Toyota
4 speed rear wheel drive, non lock up
Transmission code 03-71

AISIN WARNER
(03-71) A43D

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|-------|-----------|-------|---|------|-----------|
| | KITS | | | | | | |
| | Master (Toyota) | | 159 01 03 | | 2nd brake steel (2) | | 112 12 05 |
| | Master (Volvo) | | 159 01 04 | | 2nd brake pressure plate | | 112 13 01 |
| | Overhaul (Toyota) | | 159 02 03 | | Low -reverse friction 126mm x 2.3 x 16T (5) | | 112 11 02 |
| | Overhaul (Volvo) | | 159 02 04 | | Low - reverse steel (4) | | 112 12 04 |
| | Overhaul (Volvo) Combo 03-70 & 03-71 | | 159 02 12 | | Low - reverse pressure plate | | 112 13 03 |
| | Gasket & rubber (Toyota) | | 159 03 03 | | FILTER | | |
| | Gasket & rubber (Volvo) | | 159 03 04 | | Pick up | | 159 27 02 |
| | Shaft sealing ring | | 159 06 01 | | BUSHES | | |
| | GASKETS | | | | Pump | | 112 21 01 |
| | Pan | | 112 25 01 | | Stator (2) | | 112 21 02 |
| | Valve body upper large - Volvo | | 159 25 18 | | Centre support | | 112 21 03 |
| | Valve body lower large - Volvo | | 159 25 14 | | Output shaft | | 122104 |
| | Valve body upper small | | 159 25 22 | | Case | | 122106 |
| | Valve body lower small | | 159 25 12 | | Extension (Toyota) | | 592101 |
| | Filter | | 159 25 19 | | Extension (Volvo) | | 102113 |
| | Extension | | 112 25 02 | | | | |
| | METAL CLAD SEALS | | | | | | |
| | Converter | | 112 15 01 | | | | |
| | Extension (Toyota) | | 159 15 01 | | | | |
| | Extension (Volvo) | | 110 15 03 | | | | |
| | SHAFT SEALING RINGS | | | | | | |
| | Pump (steel) (2) | Early | 112 26 02 | | | | |
| | Pump (steel) (2) | Late | 159 26 02 | | | | |
| | OD housing rear (2) | | 112 26 02 | | | | |
| | Centre support (3) | | 112 26 02 | | | | |
| | Sun gear (2) | | 112 26 01 | | | | |
| | Output shaft (3) | | 112 26 03 | | | | |
| | CLUTCH PLATES | | | | | | |
| | Overdrive clutch friction 126mm x 2.4 x 24T (1) | | 112 11 01 | | | | |
| | Overdrive clutch friction 126mm x 2.0 x 24T (Alt) (1) | | 159 11 03 | | | | |
| | Overdrive clutch steel 0.071" (1) | | 112 12 01 | | | | |
| | Overdrive clutch pressure (1) | | 159 13 03 | | | | |
| | Overdrive brake friction - full 44 teeth (3) | | 159 11 01 | | | | |
| | OR | | | | | | |
| | Overdrive brake friction 33 teeth in 11 groups (3) | | 159 11 02 | | | | |
| | Overdrive brake dished steel 0.130" (1) | | 159 12 03 | | | | |
| | Overdrive brake steel 142mm x 2.0 x 7T (3) | | 159 12 01 | | | | |
| | Overdrive brake steel 142mm x 1.6 x 7T (3) | | 159 12 07 | | | | |
| | Overdrive brake pressure 0.156" (1) | | 159 13 02 | | | | |
| | Forward clutch friction 126mm x 2.4 x 24T (5) | | 112 11 01 | | | | |
| | Forward clutch friction 126mm x 2.0 x 24T (Alt) (5) | | 159 11 03 | | | | |
| | Forward steel (5) | | 112 12 01 | | | | |
| | Forward packing plate (0.50mm) (5) | | 159 12 08 | | | | |
| | Forward packing plate (0.80mm) (5) | | 159 12 09 | | | | |
| | Direct clutch friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | Direct clutch friction 126mm x 2.0 x 24T (Alt) (3) | | 159 11 03 | | | | |
| | Direct steel (1) | | 112 12 01 | | | | |
| | Direct steel (2) | | 112 12 02 | | | | |
| | Direct pressure plate (1) | | 112 13 01 | | | | |
| | Direct packing plate (0.50mm) (1) | | 159 12 08 | | | | |
| | Direct packing plate (0.80mm) (1) | | 159 12 09 | | | | |
| | 1st brake friction 126mm x 2.4 x 24T (1) | | 112 11 01 | | | | |
| | 1st brake friction 126mm x 2.0 x 24T (Alt) (1) | | 159 11 03 | | | | |
| | 1st brake steel (1) | | 112 12 03 | | | | |
| | 1st brake pressure plate (1) | | 112 13 02 | | | | |
| | 2nd brake friction 126mm x 2.4 x 24T (3) | | 112 11 01 | | | | |
| | 2nd brake friction 126mm x 2.0 x 24T (Alt) (3) | | 159 11 03 | | | | |
| | 2nd brake steel (1) | | 112 12 03 | | | | |

AISIN WARNER
A46DE, DF

Toyota Previa 1990-
4 speed 2 & 4 wheel drive.



| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Overhaul | | 159 02 10 | | | | |
| | CLUTCH PLATES | | | | | | |
| | Direct friction 125 x 2.3 x 24T | | 112 11 01 | | | | |
| | Direct steel 1.4 x 8T | | 159 12 02 | | | | |
| | Direct steel 1.8 x 8T | | 112 12 01 | | | | |
| | Direct steel 2.3 x 8T | | 159 12 10 | | | | |
| | Overdrive direct friction 125 x 2.3 x 24T | | 112 11 01 | | | | |
| | Overdrive direct steel 1.4 x 8T | | 159 12 14 | | | | |
| | Overdrive brake friction 125 x 2.3 x 24T | | 112 11 01 | | | | |
| | Overdrive brake steel 1.8 x 8T | | 159 12 11 | | | | |
| | Forward friction 125 x 2.0 x 24T | | 159 11 03 | | | | |
| | Forward steel 1.4 x 8T | | 159 12 02 | | | | |
| | Forward steel 1.8 x 8T | | 112 12 01 | | | | |
| | Forward steel 2.3 x 8T | | 159 12 10 | | | | |
| | Intermediate brake friction 125 x 2.0 x 24T | | 159 11 03 | | | | |
| | Intermediate brake steel 1.8 x 8T | | 159 12 11 | | | | |
| | Low & rev friction 125 x 2.3 x 16T | | 112 11 02 | | | | |
| | Low & rev steel 1.8 x 8T | | 159 12 13 | | | | |
| | Overdrive friction 140 x 1.7 x 33T | | 159 11 02 | | | | |
| | Overdrive steel 2.3 x 7T | | 159 12 04 | | | | |



Iss 01/05/97

Toyota Tercel
4 speed 2 & 4 wheel drive mounted with engine.
Transmission code AL21 for A55 & AL25 for A55F

AISIN-WARNER
A55

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|-------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Master 4 WD | | 171 01 01 | | | | |
| | Master 2/4 WD | | 171 01 02 | | | | |
| | Overhaul 4 WD | | 171 02 01 | | | | |
| | Overhaul 2/4 WD | | 171 02 02 | | | | |
| | Gasket & seal 4 WD | | 171 03 01 | | | | |
| | Gasket & seal 2/4 WD | | 171 03 02 | | | | |
| | GASKETS | | | | | | |
| | Pan | | 171 25 01 | | | | |
| | METAL CLAD SEALS | | | | | | |
| | Converter | | 171 15 01 | | | | |
| | SHAFT SEALING RINGS | | | | | | |
| | Turbine | | 171 26 01 | | | | |
| | Front clutch drum | | 171 26 02 | | | | |
| | CLUTCH PLATES | | | | | | |
| | Forward clutch friction 126mm x 2.4 x 24T | (3) | 112 11 01 | | | | |
| | Forward steel | (3) | 112 12 01 | | | | |
| | Direct clutch friction 126mm x 2.4 x 24T | (2) | 112 11 01 | | | | |
| | Direct steel | | 112 12 01 | | | | |
| | Direct sreeel | | 112 12 02 | | | | |
| | Direct pressure plate | | 112 13 01 | | | | |
| | 1st brake friction 126mm x 2.4 x 24T | (1) | 112 11 01 | | | | |
| | 1st brake steel | (1) | 112 12 03 | | | | |
| | 1st brake pressure plate | | 112 13 02 | | | | |
| | 2nd brake friction 126mm x 2.4 x 24T | (2) | 112 11 01 | | | | |
| | 2nd brake steel | () | 112 12 03 | | | | |
| | 2nd brake steel | () | 112 12 05 | | | | |
| | 2nd brake pressure plate | | 112 13 01 | | | | |
| | Low -reverse friction 126mm x 2.3 x 16T | (3) | 112 11 02 | | | | |
| | Low - reverse steel | (3) | 112 12 04 | | | | |
| | Low - reverse pressure plate | | 112 13 03 | | | | |
| | FILTER | | | | | | |
| | Pick up | 79-82 | 171 27 01 | | | | |
| | Pick up | 82- | 171 27 02 | | | | |
| | THRUST WASHERS | | | | | | |
| | Front gearset planets 0.842" x 0.500" x 0.018" | | 159 22 10 | | | | |
| | Rear gearset planets 0.842" x 0.500" x 0.018" | | 159 22 10 | | | | |

**AISIN-WARNER
 A130L, A131L**

3 speed front wheel drive.
Toyota Corolla 1300
Transmission code AE82



| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Master | | 184 01 02 | | | | |
| | Overhaul | | 184 02 02 | | | | |
| | Overhaul (Composite with A240) | | 184 02 01 | | | | |
| | Gasket & seal (Composite with A240) | | 184 03 01 | | | | |
| | GASKETS | | | | | | |
| | Pan | | 179 25 01 | | | | |
| | Valve body feed tube and seal | | 179 20 01 | | | | |
| | CLUTCH PLATES | | | | | | |
| | 1st clutch (direct) friction 126mm x 1.7 x 40T (2) | | 184 11 01 | | | | |
| | 1st clutch (direct) steel (5.200"x 8 ext teeth) (3) | | 184 12 01 | | | | |
| | 2nd clutch (forward) friction 126mm x 1.7 x 40T (3) | | 184 11 01 | | | | |
| | 2nd clutch (forward) steel (3) | | 184 12 01 | | | | |
| | 2nd brake friction (5.575"x33intT) (3) | | 159 11 02 | | | | |
| | 2nd brake steel (3) | | 184 12 02 | | | | |
| | Low & rev friction 142mm x 1.7 x 33T (4/5) | | 159 11 02 | | | | |
| | Low & rev steel (7/6) | | 189 12 03 | | | | |
| | THRUST WASHERS | | | | | | |
| | Front gearset planet thrust 0.630" x 0.340" x 0.018" | | 184 22 01 | | | | |
| | Front gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | FILTERS | | | | | | |
| | Pick up | | 184 27 01 | | | | |
| | BAND | | | | | | |
| | Second clutch coast band | | 184 14 01 | | | | |
| | BUSHES | | | | | | |
| | Pump | | 112 21 01 | | | | |
| | HARD PARTS | | | | | | |
| | Pinion load crush collar | | 184 20 01 | | | | |
| | TOOLS | | | | | | |
| | Manual | | 184 33 20 | | | | |



Iss 01/05/97

Toyota Sprint 85-
Suzuki Firefly & Cultus 85 -, Swift 89-
Daihatsu Charade 88-
3 speed front wheel drive**AISIN-WARNER MX17**

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|-------------------------------------|------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Master (not Alto) | | 143 01 01 | | | | |
| | Overhaul (not Alto) | | 143 02 01 | | | | |
| | CLUTCH PLATES | | | | | | |
| | Direct friction 126mm x 1.7 x 40T | (2) | 184 11 01 | | | | |
| | Direct steel (5.200"x 8 ext teeth) | (3) | 184 12 01 | | | | |
| | Forward friction 126mm x 1.7 x 40T | (3) | 184 11 01 | | | | |
| | Forward) steel | (3) | 184 12 01 | | | | |
| | Low & rev friction 140mm x 1.7 x 33 | (4) | 159 11 02 | | | | |
| | Low & rev steel | (4) | 189 12 03 | | | | |

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|-------|-----------|-------|---|------|-----------|
| | KITS | | | | | | |
| | Master for Camry | | 179 01 01 | | Race, direct clutch O/D drum | | 179 22 08 |
| | Master for MR2 | | 179 01 02 | | Race, O/drive case | | 179 22 09 |
| | Master for ST161/St162 | | 179 01 04 | | Race, stator shaft to clutch drum | | 179 22 10 |
| | Overhaul for Camry, Carina | | 179 02 01 | | Race, thrust bearing 0.003" | | 179 22 11 |
| | Overhaul for MR2 | | 179 02 02 | | Race, thrust bearing 0.055" | | 179 22 12 |
| | Overhaul for ST161/St162 | | 179 02 04 | | Thrust direct clutch drum | | 179 22 13 |
| | Shaft sealing ring kit | | 179 06 01 | | Thrust planet carrier #3 | (2) | 179 22 14 |
| | | | | | Thrust planet carrier #2 | | 179 22 15 |
| | GASKETS | | | | Needle bearing input shaft | | 179 23 01 |
| | Pan | | 179 25 01 | | Needle bearing planet flange | | 179 23 02 |
| | Upper valve body Camry 2.0 A140L | 83- | 179 25 06 | | Needle bearing planet gear | | 179 23 02 |
| | Lower valve body Camry 2.0 A140L | 83- | 179 25 07 | | Needle bearing planetary gear | | 179 23 03 |
| | Upper valve body cover Camry 2.0 A140L | 83- | 179 25 08 | | Needle bearing rear planet flange | | 179 23 04 |
| | Lower valve body cover Camry 2.0 A140L | 83- | 179 25 09 | | Needle bearing overdrive drum | | 179 23 05 |
| | End cover gasket A140EL | 83-86 | 179 25 10 | | <u>Needle set O/D drum to cover case</u> | | |
| | End cover gasket A140EL | 86-91 | 179 25 11 | | Race on cover 42.77 x 24.65 x inside lip | | |
| | End cover gasket A140EL | 91-93 | 179 25 12 | | Needle 44 x 28.65 x 2 x 34 needles | | |
| | Valve body tube & seal | | 179 20 01 | | Race on drum 46.13 x 26.34 x lip on outside | | |
| | METAL CLAD SEALS | | | | TOOLS | | |
| | Pump | | 112 15 01 | | Manual | | 179 33 20 |
| | Pinion shaft | | 179 15 05 | | HARD PARTS | | |
| | Axle shaft | | 179 15 06 | | Pinion load crush collar | | 184 20 01 |
| | Speedo | | 179 15 04 | | Manual lever cruch collar | | 179 20 02 |
| | Manual lever | | 179 15 07 | | | | |
| | CLUTCH PLATES | | | | | | |
| | 1st clutch (direct) friction 126mm x 1.7 x 40T (3) | | 184 11 01 | | | | |
| | 1st clutch (direct) friction 126mm x 1.9 x 40T Alt | | 184 11 04 | | | | |
| | 1st clutch (direct) steel 126mm x 1.9 x 8T (3) | | 184 12 01 | | | | |
| | 2nd clutch (forward) friction 126mm x 1.7 x 40T (4) | | 184 11 01 | | | | |
| | 2nd clutch (forward) steel 126mm x 1.7 x 8T (4) | | 184 12 01 | | | | |
| | 2nd brake friction 142mm x 1.7 x 33T (A140) (3) | 83 - | 159 11 02 | | | | |
| | 2nd brake friction 142mm x 1.9 x 33T (A141) (3) | 85 - | 189 11 03 | | | | |
| | 2nd brake steel 142mm x 1.9 x 4 sets of three T(3) | | 184 12 02 | | | | |
| | Low & rev friction 142mm x 1.7 x 33T (5/6) | | 159 11 02 | | | | |
| | Low & rev steel 142mm x 1.9 x 4 sets of three T(5/6) | | 184 12 02 | | | | |
| | Overdrive friction 142mm x 1.7 x 33T (2/3) | | 159 11 02 | | | | |
| | Overdrive steel (4/3) | | 184 12 02 | | | | |
| | Overdrive direct friction 126mm x 1.7 x 40T (2) | | 184 11 01 | | | | |
| | Overdrive direct friction 126mm x 1.9 x 40T Alt | | 184 11 04 | | | | |
| | Overdrive direct steel 126mm x 1.8 x 8T (2) | | 184 12 01 | | | | |
| | FILTER | | | | | | |
| | Pick up | | 184 27 01 | | | | |
| | BAND | | | | | | |
| | Second clutch coast band | | 184 14 01 | | | | |
| | BUSHES & BEARINGS | | | | | | |
| | Pump bush | | 112 21 01 | | | | |
| | Roller bearing int shaft to case | | 179 46 01 | | | | |
| | Roller bearing int shaft front & rear (2) | | 179 46 02 | | | | |
| | Roller bearing pinion shaft (2) | | 179 46 03 | | | | |
| | Roller bearing differential (2) | | 179 46 04 | | | | |
| | THRUST WASHERS | | | | | | |
| | Front gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | Rear gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | Race, input shaft front | | 179 22 01 | | | | |
| | Race, input shaft rear | | 179 22 02 | | | | |
| | Race, front planet flange rear | | 179 22 02 | | | | |
| | Race, front planet flange front | | 179 22 03 | | | | |
| | Race, front planet gear rear | | 179 22 05 | | | | |
| | Race, front planet gear front | | 179 22 04 | | | | |
| | Race, front planet gear front | | 179 22 03 | | | | |
| | Race, planet to sun gear | | 179 22 06 | | | | |
| | Race, rear planet flange | | 179 22 07 | | | | |



Iss 01/05/97

4 (overdrive) speed transverse front wheel drive with lock up.
Camry 86 on.
Transmission code ST161/ST162

AISIN-WARNER
A142

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|------|-----------|-------|-----------------------------------|------|-----------|
| | KITS | | | | | | |
| | Master for Camry | | 179 01 01 | | Race, thrust bearing 0.003" | | 179 22 11 |
| | Master for MR2 | | 179 01 02 | | Race, thrust bearing 0.055" | | 179 22 12 |
| | Master for ST161/ST162 | | 179 01 04 | | Thrust direct clutch drum | | 179 22 13 |
| | Overhaul for Camry | | 179 02 01 | | Thrust planet carrier #3 | | 179 22 14 |
| | Overhaul for MR2 | | 179 02 02 | | Thrust planet carrier #2 | (2) | 179 22 15 |
| | Overhaul for ST161/ST162 | | 179 02 04 | | Needle bearing input shaft | | 179 23 01 |
| | | | | | Needle bearing planet flange | | 179 23 02 |
| | | | | | Needle bearing planet gear | | 179 23 02 |
| | GASKETS | | | | Needle bearing planetary gear | | 179 23 03 |
| | Pan | | 179 25 01 | | Needle bearing rear planet flange | | 179 23 04 |
| | Upper valve body Camry 2.0 A140L | 83- | 179 25 06 | | Needle bearing overdrive drum | | 179 23 05 |
| | Lower valve body Camry 2.0 A140L | 83- | 179 25 07 | | | | |
| | Upper valve body cover Camry 2.0 A140L | 83- | 179 25 08 | | TOOLS | | |
| | Lower valve body cover Camry 2.0 A140L | 83- | 179 25 09 | | Manual | | 179 33 20 |
| | Valve body tube and seal | | 179 20 01 | | | | |
| | METAL CLAD SEALS | | | | HARD PARTS | | |
| | Pump | | 112 15 01 | | Pinion load crush collar | | 184 20 01 |
| | Pinion shaft | | 179 15 05 | | | | |
| | Axle shaft | | 179 15 06 | | | | |
| | Speedo | | 179 15 04 | | | | |
| | Manual lever | | 179 15 07 | | | | |
| | CLUTCH PLATES | | | | | | |
| | 1st clutch (direct) friction 126mm x 1.9 x 40T | (3) | 184 11 04 | | | | |
| | 1st clutch (direct) steel 126mm x 1.7 x 8T | (3) | 184 12 01 | | | | |
| | 1st clutch (direct) pressure | | | | | | |
| | 2nd clutch (forward) friction 126mm x 1.7 x 40T | (4) | 184 11 01 | | | | |
| | 2nd clutch (forward) steel 126mm x 1.7 x 8T | (4) | 184 12 01 | | | | |
| | 2nd clutch (forward) pressure | | | | | | |
| | 2nd brake friction 142mm x 1.9 x 33T | (3) | 189 11 03 | | | | |
| | 2nd brake steel | (3) | 184 12 02 | | | | |
| | 2nd brake pressure | | | | | | |
| | Low & rev friction 142mm x 1.7 x 33T | (6) | 159 11 02 | | | | |
| | Low & rev steel | (6) | 184 12 02 | | | | |
| | Low & rev pressure | (2) | | | | | |
| | Overdrive brake friction 142mm x 1.9 x 33T | (3) | 189 11 06 | | | | |
| | Overdrive brake steel | (3) | 189 12 09 | | | | |
| | Overdrive direct friction 126mm x 1.7 x 40T | (2) | 184 11 04 | | | | |
| | Overdrive direct steel 126mm x 1.7 x 8T | (2) | 184 12 01 | | | | |
| | FILTER | | | | | | |
| | Pick up | | 184 27 02 | | | | |
| | BAND | | | | | | |
| | Second clutch coast band | | 184 14 01 | | | | |
| | BUSHES & BEARINGS | | | | | | |
| | Pump bush | | 112 21 01 | | | | |
| | Roller bearing int shaft to case | | 179 46 01 | | | | |
| | Roller bearing int shaft front & rear | (2) | 179 46 02 | | | | |
| | Roller bearing pinion shaft | (2) | 179 46 03 | | | | |
| | Roller bearing differential | (2) | 179 46 04 | | | | |
| | THRUST WASHERS | | | | | | |
| | Front gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | Rear gearset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | Race, input shaft front | | 179 22 01 | | | | |
| | Race, input shaft rear | | 179 22 02 | | | | |
| | Race, front planet flange rear | | 179 22 02 | | | | |
| | Race, front planet flange front | | 179 22 03 | | | | |
| | Race, front planet gear rear | | 179 22 05 | | | | |
| | Race, front planet gear front | | 179 22 04 | | | | |
| | Race, front planet gear front | | 179 22 03 | | | | |
| | Race, planet to sun gear | | 179 22 06 | | | | |
| | Race, rear planet flange | | 179 22 07 | | | | |
| | Race, direct clutch O/D drum | | 179 22 08 | | | | |
| | Race, O/drive case | | 179 22 09 | | | | |
| | Race, stator shaft to clutch drum | | 179 22 10 | | | | |

AISIN-WARNER

A240, 1, 3, 4, 5, & 6

4 (underdrive) speed front wheel drive.1985 on.
Toyota Corolla 1300, Corolla Station Wagon 88/94, DX Sedan
88/90, A245 for Corolla 6/92 on.

Iss 27/08/2002



| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|--------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Master | | 184 01 01 | | | | |
| | Master (A245) Corolla | 6/92 - | 184 01 04 | | | | |
| | Overhaul | | 184 02 03 | | | | |
| | Overhaul (Composite with A130) | | 184 02 01 | | | | |
| | Overhaul (A245) Corolla | 6/92 - | 184 02 04 | | | | |
| | Gasket & seal (Composite with A130) | | 184 03 01 | | | | |
| | GASKETS | | | | | | |
| | Pan | | 184 25 01 | | | | |
| | V/body upper large A240L,A241L, A243L (1) | | 184 25 02 | | | | |
| | V/body lower large A240L,A241L, A243L (1) | | 184 25 03 | | | | |
| | V/body upper & lower sml A240L,A241L,A243L (2) | | 184 25 04 | | | | |
| | V/body upper large A241H (1) | | 184 25 05 | | | | |
| | V/body lower large A241H (1) | | 184 25 06 | | | | |
| | V/body upper & lower sml A241H (2) | | 184 25 04 | | | | |
| | V/body upper 240E, A241E, A244E, & MS7 | | 184 25 07 | | | | |
| | V/body lower 240E, A241E, A244E, & MS7 | | 184 25 08 | | | | |
| | V/body upper A245E, A246E, & MS7 | | 184 25 10 | | | | |
| | V/body lower A245E, A246E, & MS7 | | 184 25 11 | | | | |
| | V/body cover A245E, A246E, & MS7 | | 184 25 09 | | | | |
| | CLUTCH PLATES | | | | | | |
| | 1st clutch (direct) friction 126mm x 1.7 x 40T (2) | | 184 11 01 | | | | |
| | 1st clutch (direct) steel 126mm x 1.7 x 8T (3) | | 184 12 01 | | | | |
| | 1st clutch (direct) pressure | | | | | | |
| | 2nd clutch (forward) friction 126mm x 1.7 x 40T (3) | | 184 11 01 | | | | |
| | 2nd clutch (forward) steel 126mm x 1.7 x 8T (3) | | 184 12 01 | | | | |
| | 2nd clutch (forward) pressure | | | | | | |
| | 2nd brake friction 142mm x 1.7 x 33T (3) | | 159 11 02 | | | | |
| | 2nd brake steel (3) | | 184 12 02 | | | | |
| | 2nd brake pressure | | | | | | |
| | Low & rev friction 142mm x 1.7 x 33T (4/5) | | 159 11 02 | | | | |
| | Low & rev steel (7/6) | | 184 12 02 | | | | |
| | Low & rev pressure (2) | | | | | | |
| | Underdrive brake friction 107mm x 1.7 x 26T (3) | | 184 11 03 | | | | |
| | Underdrive brake steel 107mm x 1.7 x 20T (3) | | 184 12 03 | | | | |
| | Underdrive brake pressure (1) | | | | | | |
| | Underdrive clutch friction 107MM x 1.9 x 34T (3) | | 184 11 02 | | | | |
| | Underdrive clutch steel 107mm x 1.7 x 8T (3) | | 184 12 04 | | | | |
| | Underdrive clutch pressure (1) | | | | | | |
| | FILTER | | | | | | |
| | Pick up | | 184 27 02 | | | | |
| | BUSHES | | | | | | |
| | Pump | | 112 21 01 | | | | |
| | BRAKE BAND | | | | | | |
| | Second clutch coast band | | 184 14 01 | | | | |
| | THRUST WASHERS | | | | | | |
| | Front gaset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | Rear gaset planet thrust 0.695" x 0.350" x 0.018" | | 112 22 10 | | | | |
| | ELECTRICAL | | | | | | |
| | Shift solenoid 1 - 2 for A240E, A241E, A244E | | 184 35 01 | | | | |
| | Overdrive solenoid for A240I, A241H, A241L, A243L | | 184 35 02 | | | | |
| | MISCELLANEOUS | | | | | | |
| | Pinion crush collar | | 184 20 02 | | | | |
| | TOOLS | | | | | | |
| | Manual | | 183 33 21 | | | | |



Iss 27/08/2002

Toyota Landcruiser 85 up, Runner 4x4/ Pickup 85 up, Supra 86 up, Cressida 87 up,
Pickup T100 4x4 93 up. Lexus GS300 & LS400. Volvo 940/960 92 up.
Also called 30-40LE & 30-80LE and Shogun V4AW3

**AISIN-WARNER
A340E, H, & F**

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|--|----------------|----------------|-------|--|-------|----------------|
| | KITS | | | | | | |
| | Master - except Supra with Turbo | 86-89 | 201 01 01 | | Direct friction 130 X 2.1 X 40T | (4/5) | 201 11 04 |
| | Master - only Supra with Turbo | 86-89 | 201 01 02 | | Direct steel 105 X 2.3 X 6T | (3/4) | 201 12 04 |
| | Master - A340E/H AW4 | | 201 01 03 | | Direct steel - Supra 105 X 1.8 X 6T | (4) | 93 - 201 12 12 |
| | Master - transfer case only | | 201 01 05 | | Direct steel - Volvo 105 X 3.0 X 6T | (4) | 92 - 201 12 09 |
| | Master - Lexus SC300 | 92-95 | 201 01 08 | | Direct steel - selective 105 X 4.0 X 6T | (AR) | 201 12 10 |
| | Master - Lexus GS300 | 93-96 | 201 01 08 | | BRAKE BAND | | |
| | Master - Lexus SC400 | 92-95 | 201 01 09 | | Band | | 201 14 01 |
| | Master - Lexus GS300 | early 93 | 201 01 09 | | FILTER | | |
| | Master - Volvo 940, 960 | 91-97 | 201 01 09 | | Pickup - two wheel drive Supra | | 201 27 01 |
| | Overhaul | | 201 02 01 | | Pickup - four wheel drive | | 201 27 02 |
| | Overhaul - A340E/H AW4 | | 201 02 03 | | Pickup - Volvo & Trooper 3 bolt | | 189 27 05 |
| | Overhaul - 30-43L Lexus GS300 | 93-96 | 201 02 08 | | Pickup - Trooper & Jeep 4 bolt | | 201 27 04 |
| | Overhaul - 30-43L Lexus SC300 | 92-95 | 201 02 08 | | BUSHES | | |
| | Overhaul - 30-43L Lexus LS400 | 90-95 | 201 02 08 | | Pump | | 112 21 01 |
| | Overhaul - 30-43L Lexus SC400 | 92-95 | 201 02 08 | | THRUST WASHERS | | |
| | Overhaul - 30-43L Toyota Supra | 89-97 | 201 02 08 | | Front gaset planets 0.815" x 0.485" x 0.033" | | 201 22 22 |
| | Overhaul - 30-43L Volvo 940, 960 | 91-97 | 201 02 08 | | Rear gaset planets 0.920" x 0.490" x 0.030" | | 201 22 23 |
| | Overhaul - Previa 2 & 4 wheel drive | 94-96 | 201 02 09 | | ELECTRICAL | | |
| | Overhaul - A343F | | 201 02 10 | | Lock up solenoid | (1) | 201 35 01 |
| | Overhaul - V4AW3/A340 Montero/Shogun | 94-95 | 201 02 11 | | Shift solenoid #1 & #2 | (2) | 201 35 02 |
| | Overhaul - Shogun | | 201 02 13 | | Universal shift solenoid kit | | 201 35 03 |
| | Overhaul - transfer case only | | 201 02 05 | | TOOLS | | |
| | Overhaul - transfer case only - Isuzu | | 201 02 07 | | Manual A30-40LE | | 201 33 21 |
| | Overhaul - transfer case only | | 201 02 12 | | Manual A30-80LE | | 201 33 22 |
| | Gasket and seal | | 201 03 01 | | | | |
| | Shaft sealing ring - transmission only | | 201 06 01 | | | | |
| | Shaft sealing ring - transfer case | | 201 06 02 | | | | |
| | Thrust washers - A340E | | 201 10 01 | | | | |
| | Thrust washers - A340H | | 201 10 02 | | | | |
| | GASKETS | | | | | | |
| | Transmission pan | | 201 25 01 | | | | |
| | Transfer case pan | | 201 25 02 | | | | |
| | Filter spacer | | 201 25 03 | | | | |
| | Filter (upper & lower) | (2) | 201 25 04 | | | | |
| | METAL CLAD SEALS | | | | | | |
| | Pump | | 193 15 01 | | | | |
| | Extension 38 x 58 x 10 | | 201 15 02 | | | | |
| | Extension 36 x 58 x 10 | | 201 15 02 | | | | |
| | Manual lever | | 173 15 06 | | | | |
| | Speedometer | | 179 15 04 | | | | |
| | Transfer seal | 56 x 75 x 12/7 | 201 15 03 | | | | |
| | Back end seal - Shogun | | 201 15 06 | | | | |
| | CLUTCH PLATES | | | | | | |
| | Overdrive brake friction 165 x 2 x 24T | (3/5) | 201 11 01 | | | | |
| | Overdrive brake steel not Volvo 145 x 2 x 6T | (3/5) | 201 12 01 | | | | |
| | Overdrive brake steel Volvo only | (3/5) | 92 - 201 12 13 | | | | |
| | Overdrive direct friction 125 x 2.1 x 24T | (2) | 201 11 02 | | | | |
| | Overdrive direct steel 105 x 2.0 x 14T | (1/2) | 201 12 02 | | | | |
| | Fwd frict (not Lexus or Volvo) 125 x 2.1 x 40T | (3/5) | 201 11 05 | | | | |
| | Fwd frict (Lexus & Volvo only) 125 x 1.9 x 40T | (7) | 201 11 07 | | | | |
| | Fwd frict 125 x 1.97x 40T | (7) | 201 11 08 | | | | |
| | Fwd stl (not Volvo) 105 x 2.0 x 8T | (6) | 201 12 05 | | | | |
| | Fwd stl (Volvo) 105 x 1.8 x 8T | (6) | 189 12 10 | | | | |
| | Fwd stl (Volvo) 105 x 2.3 x 8T | (6) | 201 12 16 | | | | |
| | Low & reverse friction 130 x 1.7 x 32T | (6/7) | 201 11 03 | | | | |
| | Low & reverse steel 110 X 1.8 X 15T | (6/7) | 201 12 03 | | | | |
| | 2nd brake friction 132 X 2.05 X 32T | (4/5) | 201 11 06 | | | | |
| | 2nd brake steel 105 X 2.5 X 16T | (4) | 201 12 06 | | | | |
| | 2nd brake steel 105 X 1.8 X 16T | (1) | 201 12 07 | | | | |
| | 2nd brake steel 105 X 4.0 X 16T | A/R | 201 12 08 | | | | |

AISIN-WARNER

A440F/A440L/A442F

4 wheel drive lock up.
Toyota HJ60 Land Cruise
FJZ 80 92-95, FJ62, FJ80

Iss 18/09/2000



| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Master including transfer case HJ60, FJ62, FJ80 | | 185 01 01 | | | | |
| | Master (transmission only) HJ60, FJ62, FJ80 | | 185 01 02 | | | | |
| | Master (transmission only) FJZ80 92-95 | | 185 01 03 | | | | |
| | Overhaul including transfer case HJ60, FJ62, FJ80 | | 185 02 01 | | | | |
| | Overhaul (transmission only) HJ60, FJ62, FJ80 | | 185 02 02 | | | | |
| | Overhaul (transmission only) FJZ80 92-95 | | 185 02 03 | | | | |
| | A440F Friction & steel module 85-92 | | 185 07 01 | | | | |
| | A440F Friction only module 85-92 | | 185 07 02 | | | | |
| | A442F Friction & steel module 92-95 | | 185 07 03 | | | | |
| | A442F Friction only module 92-95 | | 185 07 04 | | | | |
| | GASKETS | | | | | | |
| | Transmission Gaskets | | | | | | |
| | Pan | | 185 25 01 | | | | |
| | Pump | | 185 25 02 | | | | |
| | Adaptor case | | 185 25 03 | | | | |
| | Case to rear cover | | 185 25 04 | | | | |
| | Governor body | | 185 25 05 | | | | |
| | Filter | | 185 25 06 | | | | |
| | Accumulator #1 | | 185 25 07 | | | | |
| | Accumulator #2 | | 185 25 08 | | | | |
| | Valve body #1 upper | | 185 25 09 | | | | |
| | Valve body #2 upper | | 185 25 10 | | | | |
| | Valve body #3 lower | | 185 25 11 | | | | |
| | Valve body #4 lower | | 185 25 12 | | | | |
| | Lockup relay | | 185 25 13 | | | | |
| | Power take off gaskets | | | | | | |
| | Bearing retainer | | 185 25 14 | | | | |
| | Cover | | 185 25 15 | | | | |
| | Retainer cap | | 185 25 16 | | | | |
| | CLUTCH PLATES | | | | | | |
| | O/D clutch friction (3) | | 185 11 01 | | | | |
| | O/D clutch steel 2.4mm thick (3) | | 185 12 01 | | | | |
| | O/D clutch pressure 5.0mm thick (1) | | 185 13 01 | | | | |
| | O/D brake friction (3) | | 185 11 02 | | | | |
| | O/D brake steel (3) | | 185 12 02 | | | | |
| | O/D brake pressure 5.0mm thick (1) | | 185 13 02 | | | | |
| | Forward friction (126mm x 46T) (6) | | 185 11 01 | | | | |
| | Forward steel 2.40mm thick (6) | | 185 12 01 | | | | |
| | Forward steel 3.00mm thick (A/R) | | 185 12 04 | | | | |
| | Forward cushion | | 185 12 05 | | | | |
| | Forward pressure (1) | | ? | | | | |
| | Direct friction (126mm x 46T) (5) | | 185 11 01 | | | | |
| | Direct steel (5) | | 185 12 01 | | | | |
| | Direct pressure 5.00mm thick (1) | | 185 13 01 | | | | |
| | Direct pressure 5.20mm thick (A/R) | | 185 13 03 | | | | |
| | Direct pressure 5.40mm thick (A/R) | | 185 13 04 | | | | |
| | Direct pressure 5.60mm thick (A/R) | | 185 13 05 | | | | |
| | No.1 brake friction (174mm x 70T) (4) | | 185 11 02 | | | | |
| | No.1 brake steel (4) | | 185 12 02 | | | | |
| | No.1 brake pressure 5.00mm thick (1) | | 185 13 02 | | | | |
| | No.1 brake pressure 5.20mm thick (A/R) | | 185 13 06 | | | | |
| | No.1 brake pressure 5.40mm thick (A/R) | | 185 13 07 | | | | |
| | No.1 brake pressure 5.60mm thick (A/R) | | 185 13 08 | | | | |
| | Low & reverse friction (6) | | 185 11 03 | | | | |
| | Low & reverse steel (6) | | 185 12 03 | | | | |
| | Low & reverse cushion (1) | | 185 12 06 | | | | |
| | Low & reverse pressure 6.65mm thick (1) | | 185 13 09 | | | | |
| | Low & reverse pressure 7.05mm thick (1) | | 185 13 10 | | | | |
| | Low & reverse pressure 7.45mm thick (1) | | 185 13 11 | | | | |

| Illus | Description | Year | Part No. | Illus | Description | Year | Part No. |
|-------|---|------|-----------|-------|-------------|------|----------|
| | KITS | | | | | | |
| | Master | | 189 01 01 | | | | |
| | Overhaul | | 189 02 01 | | | | |
| | Gasket & seal | | 189 03 01 | | | | |
| | Friction & steel module kit | | 189 07 01 | | | | |
| | Friction module kit | | 189 07 02 | | | | |
| | Bushing kit | | 189 09 01 | | | | |
| | METAL CLAD SEALS | | | | | | |
| | Pump | | 193 15 01 | | | | |
| | CLUTCH PLATES | | | | | | |
| | 1st clutch (direct) friction mm 131 x 2.1 x 40T (3) | 88 - | 189 11 01 | | | | |
| | 1st clutch (direct) steel 133mm x 2.3 x 6T (2) | 88 | 189 12 01 | | | | |
| | 1st clutch (direct) steel 133mm x 1.8 x 6T (1) | 88 | 189 12 02 | | | | |
| | or | | | | | | |
| | 1st clutch (direct) steel 133mm x 1.8 x 6T (3) | 89 - | 189 12 02 | | | | |
| | 2nd clutch (forward) friction 126mm x 1.7 x 40T (4) | | 184 11 01 | | | | |
| | 2nd clutch (forward) friction (5) | | 189 11 07 | | | | |
| | 2nd clutch (forward) steel 126mm x 1.7 x 8T (4) | | 184 12 01 | | | | |
| | 2nd clutch (forward) pressure | | | | | | |
| | 2nd brake friction 142mm x 1.9 x 33T (3) | | 189 11 03 | | | | |
| | 2nd brake steel 142mm x 1.8 x 12T (3) | | 189 12 04 | | | | |
| | 2nd brake pressure | | | | | | |
| | Low & rev friction 142mm x 1.5 x 33T (6/7) | | 189 11 02 | | | | |
| | Low & rev steel (7) | | 184 12 02 | | | | |
| | Low & rev pressure (2) | | | | | | |
| | Overdrive brake friction 165mm x 1.7 x 24T (3) | | 189 11 06 | | | | |
| | Overdrive brake steel 2.5 x 12T (3) | | 189 12 07 | | | | |
| | Overdrive direct friction 126mm x 1.9 x 24T (2) | | 189 11 08 | | | | |
| | Overdrive direct steel 127mm x 1.8 x 12T (2) | 88 | 189 12 05 | | | | |
| | Overdrive direct steel 127mm x 3.0 x 24T (2) | 89 - | 189 12 06 | | | | |
| | Differential friction 115mm x 1.8 x 36T (2) | 89 - | 189 11 05 | | | | |
| | Differential steel 1.6 x 12T (2) | 89 - | 180 12 08 | | | | |
| | BANDS | | | | | | |
| | Band | | 189 14 01 | | | | |
| | FILTER | | | | | | |
| | Filter | | 189 27 01 | | | | |
| | THRUST WASHERS | | | | | | |
| | Rear gearset planet thrust 17.5 x 9 x 0.5 | | 112 22 10 | | | | |
| | Rear cover to o/ d plate (top hat) 24 x 22 x 3.5 | | 189 22 01 | | | | |
| | Cover to o/d drum needle 28 x 46 x 3.62 | | 189 23 01 | | | | |
| | O/d drum to o/d gearset needle 39 x 53 x 3.1 | | 180 23 02 | | | | |
| | HARD PARTS | | | | | | |
| | Overdrive clutch drum | | 189 29 01 | | | | |
| | Rear cover overdrive | | 189 54 01 | | | | |
| | MISCELLANEOUS | | | | | | |
| | Pinion crush collar | | 189 20 01 | | | | |
| | TOOLS | | | | | | |
| | Manual | | 189 33 20 | | | | |