

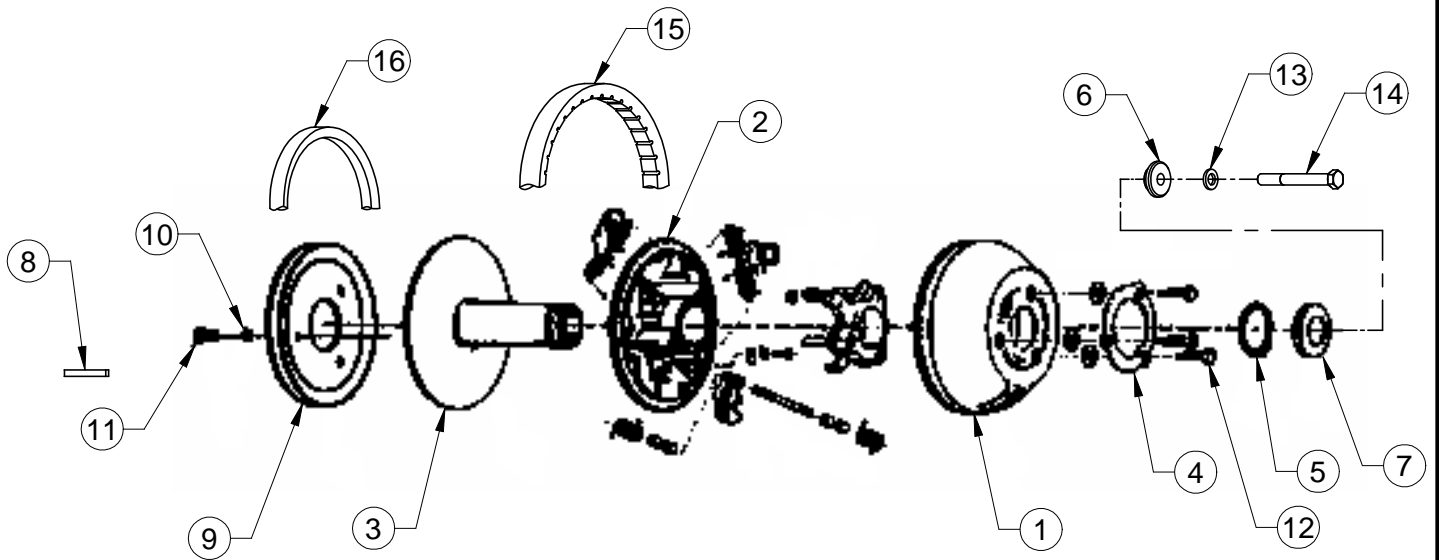


**COLUMBIA**

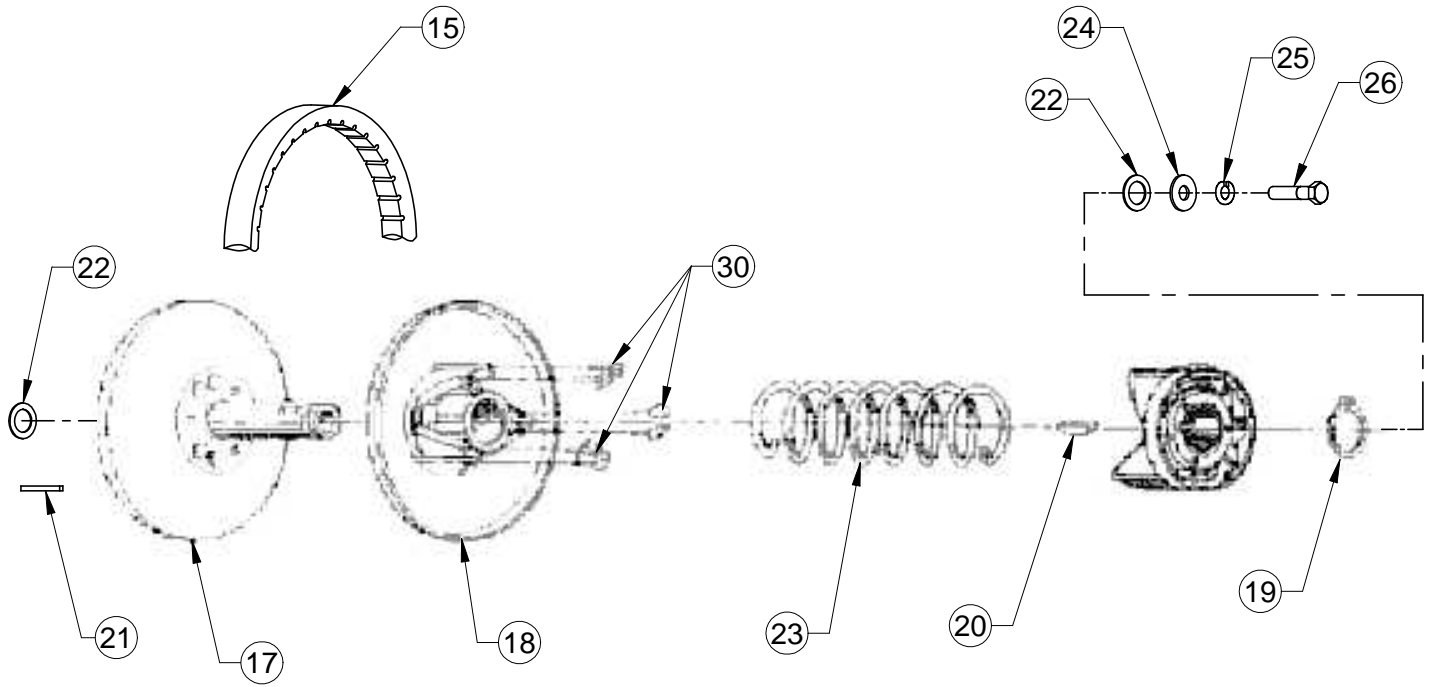
# Parts Manual

Gas Vehicles

### PRIMARY (DRIVER)



## SECONDARY (DRIVEN)



# COMET CLUTCH SET - PRIMARY, SECONDARY, & BELT

ITEM	CPC PART #	DESCRIPTION	QTY	SI PART #
1	36572-06	RAMP PLATE	1	719472
2	36574-06	MOVABLE FACE ASM.	1	719473
3	36570-06	FIXED FACE & HUB	1	719474
4	36585-06	LOCK RING	1	719475
5	36588-06	RETAINING RING	1	719476
6	---	PILOT WASHER (ONLY AVAILABLE AS ITEM 27)	1	---
7	---	CUP WASHER (ONLY AVAILABLE AS ITEM 27)	1	---
8	---	KEY, .25 X .188 X 1.68 (ONLY AVAILABLE AS ITEM 27)	1	---
*	36568-96	KEY, .25 X .188 X 2.0 (CUT A/R)	-	729748
9		PULLEY (7"), START/GEN	1	719482
10	3252	WASHER, LOCK 5/16	3	729587
11	---	SCREW, HHF 5/16-18 X .75 (ONLY AVAILABLE AS ITEM 27)	3	---
12	---	SCREW, HHC 1/4-20 X 3/4 (ONLY AVAILABLE AS ITEM 27)	3	---
13	7039	WASHER, 7/16", SPR LOCK	1	708188
14	4253	SCREW, 7/16-20 X 3-1/2, HHCS, G5	1	719664
15	36398-06	BELT, CVT DRIVE	1	719450
16	36391-98	BELT, STR/GEN - 13HP	1	709243
17	33250-06	CAM, FIXED	1	719469
18	33246-06	MOVABLE SHEAVE ASM.	1	719470
19	36588-06	RETAINING RING	1	719476
20	33254-06	WOODRUFF KEY	1	719471
21	11207	KEY, 3/16 X 3 1/4 (AVAILABLE AS 2.0 STOCK MATERIAL OR ITEM 28)	1	719518
22	---	SHIM WASHER (ONLY AVAILABLE AS ITEM 28)	A/R	---
23	---	TORSION SPRING (ONLY AVAILABLE AS ITEM 28)	1	---

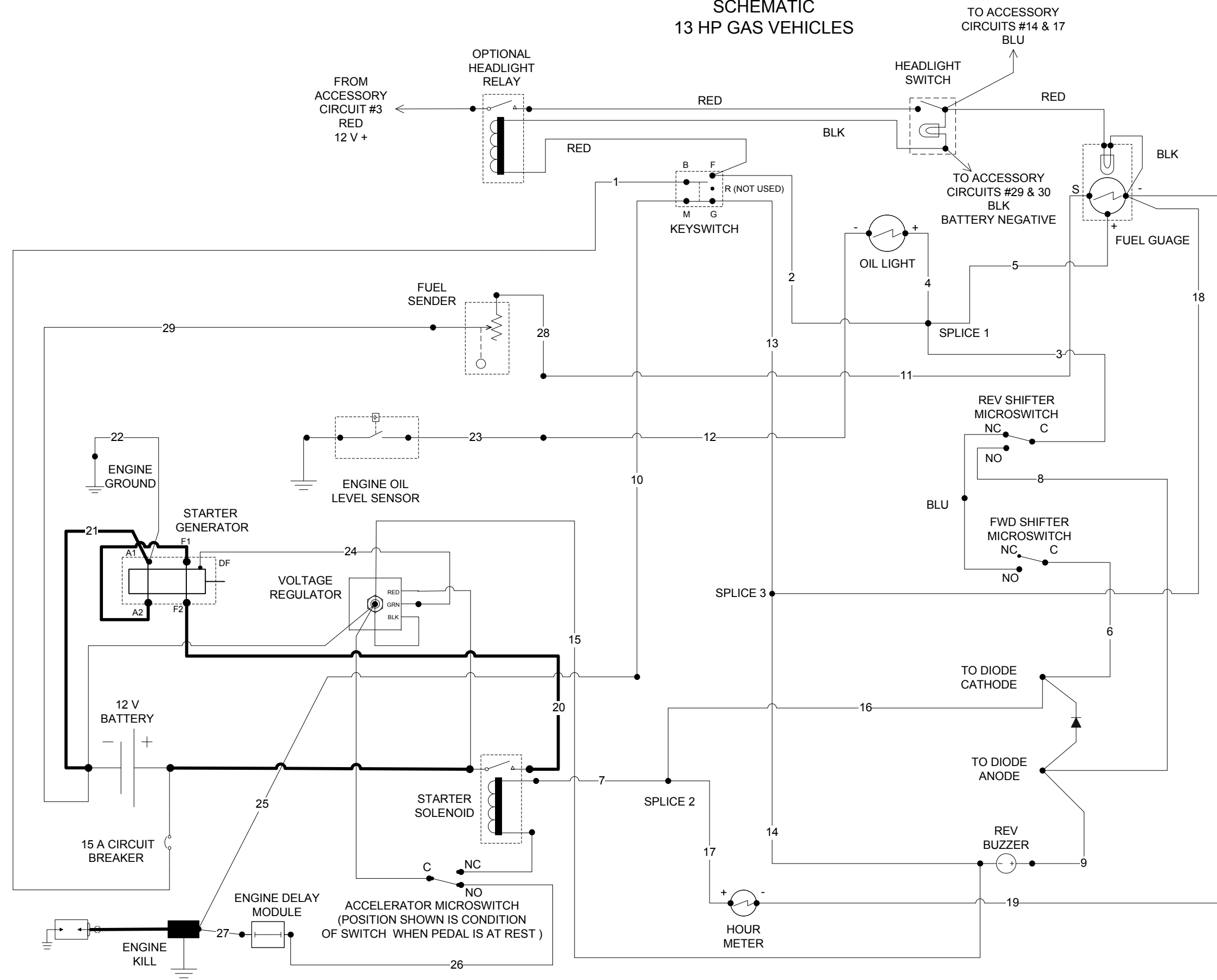
\* ITEM NOT SHOWN OR IDENTIFIED

# COMET CLUTCH SET - PRIMARY, SECONDARY, & BELT

ITEM	CPC PART #	DESCRIPTION	QTY	SI PART #
24	6005	WASHER FLAT STL 1/2 YWZC	1	719772
25	7068	WASHER, 1/2", SPR LOCK	1	719840
26	4006	SCREW, 1/2-20X2, HHCS, G5	1	719449
27*	36578-06	PRIMARY (DRIVER), ASM (INCLUDES ITEMS 1 - 12)	1	719452
28*	33245-06	SECONDARY (DRIVEN) ASM (INCLUDES ITEMS 17 - 23)	1	719451
29*	36405-06	UPGRADE/REPLACEMENT KIT (INCLUDES ITEMS 13 - 16 & 24 - 28. SERVICES BOTH 9 HP & 13 HP ENGINES)		190478U
30	33244-07	KIT, CAM SHOE (INCLUDES 3 SHOES)	1	759839

\* ITEM NOT SHOWN OR IDENTIFIED

### SCHEMATIC 13 HP GAS VEHICLES

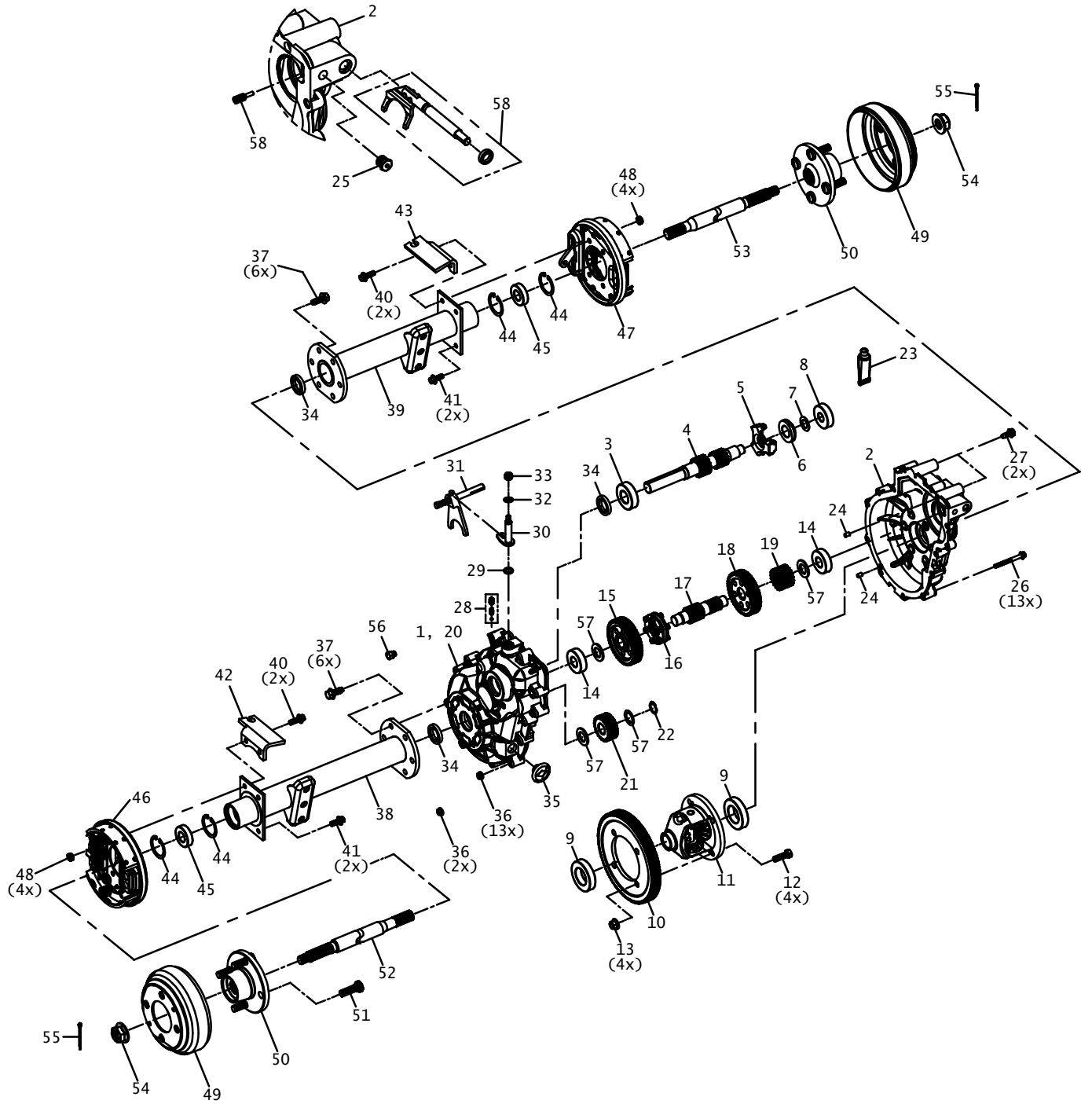


WIRE HARNESS 709952		
CIRCUIT NO.	WIRE I.D. NO.	WIRE COLOR
1	1	RED
2	2	RED
3	3	RED
4	4	RED
5	5	RED
6	6	ORG
7	7	ORG
8	8	YEL
9	9	YEL
10	10	GRY
11	11	YEL
12	12	BLU
13	13	BLK
14	14	BLK
15	15	BLK
16	16	ORG
17	17	WHT
18	18	BLK
19	19	BLK

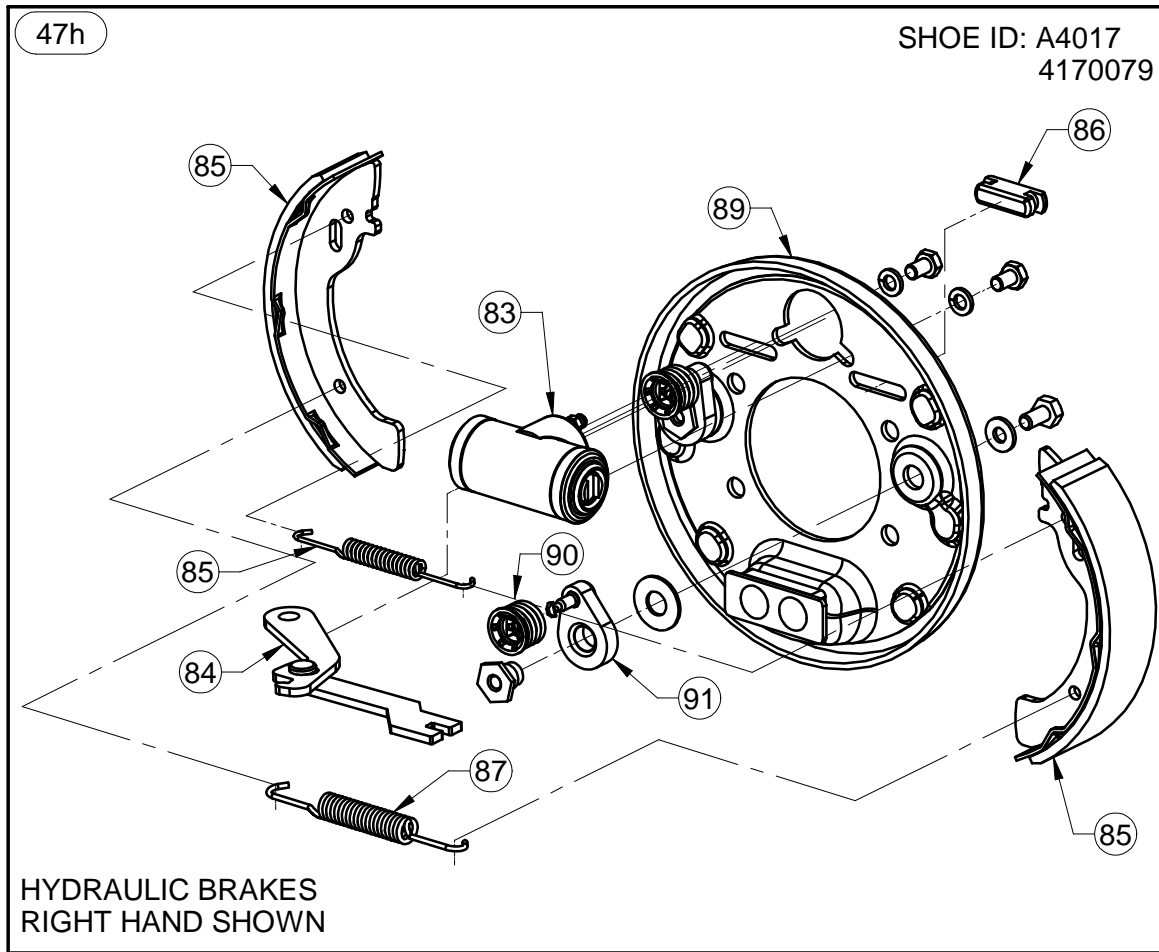
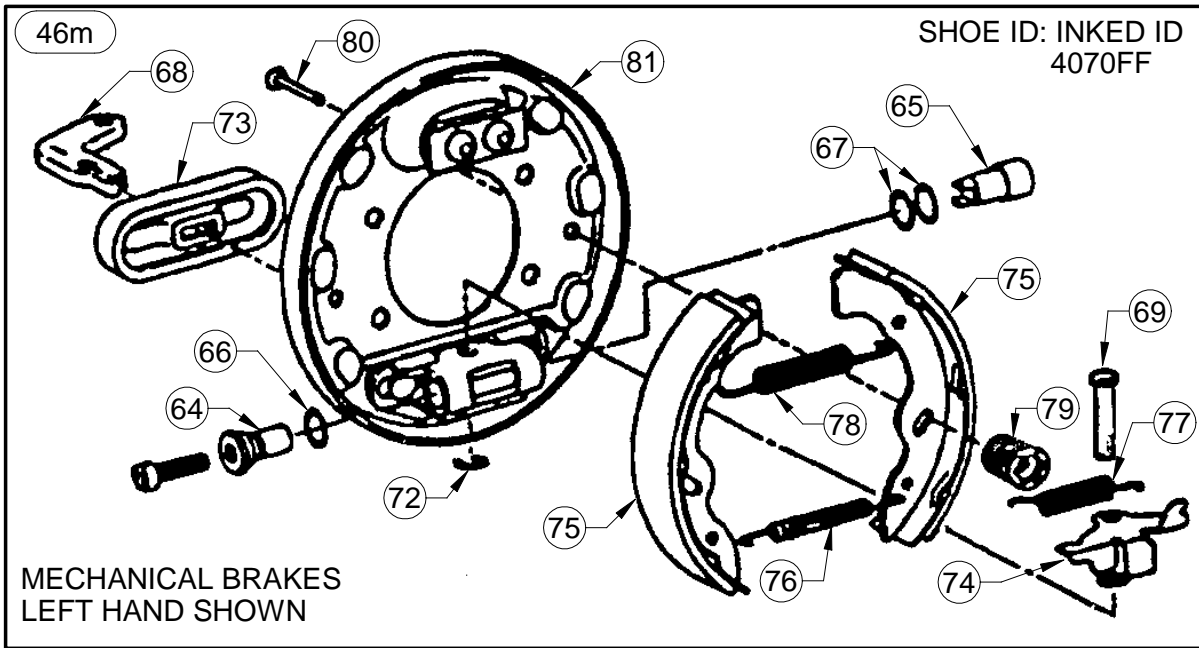
WIRE HARNESS 709559		
CIRCUIT NO.	WIRE I.D. NO.	WIRE COLOR
20	1	RED
21	2	BLK
22	3	BLK
23	4	BLU
24	5	GRN
25	6	GRY
26	7	GRY/BLU
27	8	GRY/BLU

WIRE HARNESS 464336		
CIRCUIT NO.	WIRE I.D. NO.	WIRE COLOR
28	1	YEL
29	2	BLK

STANDARD DANA REAR GAS AXLE & BRAKES, 2002 & NEWER VEHICLES



STANDARD DANA REAR GAS AXLE & BRAKES, 2002 & NEWER VEHICLES



NOTE: SUPPLIER'S SPECIFICATION OF LEFT AND RIGHT HAND ASSEMBLIES MAY NOT BE REPRESENTATIVE OF POSITION ON VEHICLE. VISUAL CONFIRMATION IS RECOMMENDED BEFORE ORDERING.



# STANDARD DANA REAR GAS AXLE & BRAKES 2002 & NEWER VEHICLES

ITEM	CPC PART #	DESCRIPTION	QTY.	SI PART #
1	(see item 60)	Housing, Axle, LH (Only available as item 60, 94m & h)	1	---
2	(see item 60)	Housing, Axle, RH (Only available as item 60, 94m & h)	1	---
3	82714-00	Bearing, Ball	1	719437
4	26803-07	Kit, Shaft, Input (See item 59. Includes item 5.)	1	759797
5	(see item 4)	Assembly, Plate, Backing (Only available as item 4)	1	---
6	82621-00	Assembly, Sleeve, Actuating (Only available as special order)	1	---
7	82622-00	Kit, Shim (Only available as special order)	1	---
8	82810-90	Bearing, Ball	1	749419
9	90005-90	Bearing, Ball	2	749700
10	(see item 59)	Gear, Final Drive, Ring (Only available as item 59)	1	---
11	82001-95	Assembly, Differential	1	749326
12	N/A	Bolt, Hex	4	N/A
13	N/A	Nut, Lock	4	N/A
14	82715-00	Bearing, Ball	2	719439
15	(see item 59)	Assembly, Gear, Forward (Only available as item 59)	1	---
16	82780-98	Gear, Clutch (Only available as special order)	1	---
17	83241-00	Shaft, Intermediate (Only available as special order)	1	---
18	(see item 59)	Assembly, Gear, Reverse (Only available as item 59)	1	---
19	(see item 59)	Gear, Final Drive, Pinion (Only available as item 59)	1	---
20	(see item 60)	Shaft, Idler (Only available as item 60)	1	---
21	(see item 59)	Assembly, Gear, Idler (Only available as item 59)	1	---
22	82716-00	Ring, Retaining (Only available as special order)	1	---
23	N/A	Sealant, RTV Silicon	A/R	N/A
24	82927-98	Pin, Dowel (Only available as special order)	2	---
25	---	Vent (Only available as special order)	1	---
26	N/A	Screw, Flange Head	13	N/A
27	N/A	Screw, Flange Head	2	N/A
28	82623-00	Kit, Detent (Only available as special order)	1	---
29	82720-00	Seal, Oil	1	719438
30	82625-00A	Assembly, Actuator, Shift (Only available as special order)	1	---
31	82624-00A	Assembly, Rod, Shift (Only available as special order)	1	---
32	N/A	Washer, .360 X .688 X .066	1	N/A
33	N/A	Nut, Lock	1	N/A
34	82721-00	Seal, Oil	1	719045
35	90008-00	Plug, Rubber	1	749704
36	N/A	Nut, Lock	13	N/A
37	N/A	Screw, Flange Head	12	N/A
38	(see items 94m & h)	Assembly, Tube, LH (Only available as items 94m & h)	1	---
39	(see items 94m & h)	Assembly, Tube, RH (Only available as items 94m & h)	1	---
40	N/A	Screw, Flange Head (Long), 8M X 1.25	4	N/A
41	N/A	Screw, Flange Head (Short), 8M X 1.25	4	N/A

\* Item not shown

REV 01

# STANDARD DANA REAR GAS AXLE & BRAKES 2002 & NEWER VEHICLES

ITEM	CPC PART #	DESCRIPTION	QTY.	SI PART #
42	47757-88	Bracket, Brake Cable, LH (LH Mechanical)	1	510210
42*	47756-88	Bracket, Brake Cable, RH (LH Hydraulic)	1	510209
43	47756-88	Bracket, Brake Cable, RH (RH Mechanical)	1	510209
43*	47757-88	Bracket, Brake Cable, LH (RH Hydraulic)	1	510210
44	82706-78	Ring, Retaining	4	749370
45	82705-78	Bearing, Ball	2	749369
46m	41813-86B	Assembly, Brake, LH (Mechanical)	1	709171
46h	41813-02	Assembly, Brake, LH (Hydraulic)	1	719137
47m	41814-86B	Assembly, Brake, RH (Mechanical)	1	709170
47h*	41814-02	Assembly, Brake, RH (Hydraulic)	1	719138
48	N/A	Nut, Lock, 8M X 1.25	8	N/A
49	(see item 62)	Drum, Brake (Only available as item 62)	2	---
50	(see item 62)	Assembly, Wheel Hub (Only available as item 62)	2	---
51	41199	Bolt, Wheel	8	719655
	719463-05	Bolt, Wheel (Used on all vehicles with the 4" scout lift)	8	719463
52	---	Shaft, Axle, LH (Only available as special order)	1	---
53	---	Shaft, Axle, RH (Only available as special order)	1	---
54	N/A	Nut, Flange	2	N/A
55	N/A	Pin, Cotter	2	N/A
56	(see item 60)	Plug, Drain (Only available as item 60)	1	---
57	82626-00	Kit, Thrust Washers (Items not serviced separately, special order only)	2	---
58	26804-07	Kit, Governor Actuator (Items not serviced separately)	1	759798
59*	82777-00	Kit, Gear (Includes items 4, 10, 15, 18, 19 & 21 - Only available as special order. Only item 4 serviced separately.)	-	---
60*	---	Kit, Assembly, Housing (Includes items 1, 2, 20 & 56 - Items not serviced separately, special order only)	-	---
61*	---	Kit, Shifter (See items 30 & 31)	-	---
62*	41844-96	Kit, Hub/Drum (Includes 49, 51 & 63 - Only item 51 serviced separately)	-	719281
63*	(see item 62)	Hub (Only available as item 62)	2	---

\* Item not shown

# STANDARD DANA REAR GAS AXLE & BRAKES 2002 & NEWER VEHICLES

ITEM	CPC PART #	DESCRIPTION	QTY.	SI PART #
<b>MECHANICAL BRAKES</b>				
46m	41813-86B	Backing Plate Assembly, LH (Includes items 64 - 81)	1	709171
47m*	41814-86B	Backing Plate Assembly, RH (Includes items 64 - 81)	1	709170
64	---	Adjuster, LH (Only available as items 46m & 47m or special order)	1	---
64	---	Adjuster, RH (Only available as items 46m & 47m or special order)	1	---
65	---	Push Rod (Only available as items 46m & 47m or special order)	1	---
66	---	Washer, Flat (Only available as special order)	2	---
67	---	Shim (Only available as special order)	A/R	---
68	---	Lever, Actuator (Only available as items 46m & 47m or special order)	1	---
69	---	Pin, Pivot (Only available as special order)	1	---
70*	---	Washer, Wave, Actuator Pivot (Only available as special order)	1	---
71*	---	Washer, Flat, Actuator Pivot (Only available as special order)	1	---
72	---	E-Clip (Only available as special order)	1	---
73	---	Protector Boot (Only available as special order)	1	---
74	---	Self Adjuster, LH (Only available as special order)	1	---
74	---	Self Adjuster, RH (Only available as special order)	1	---
75	41819-86C	Set, Shoe & Linning Assembly (2 Shoes)	1	759746
76	(See Item 82)	Spring, Return (Only available as items 46m, 47m, & 82)	1	---
77	(See Item 82)	Spring, Self Adjuster (Only available as items 46m, 47m, & 82)	1	---
78	(See Item 82)	Spring, Shoe Retaining (Only available as items 46m, 47m, & 82)	1	---
79	(See Item 82)	Spring Clip, Shoe Retainer (Only available as items 46m, 47m, & 82)	2	---
80	(See Item 82)	Pin, Shoe Retaining (Only available as items 46m, 47m, & 82)	2	---

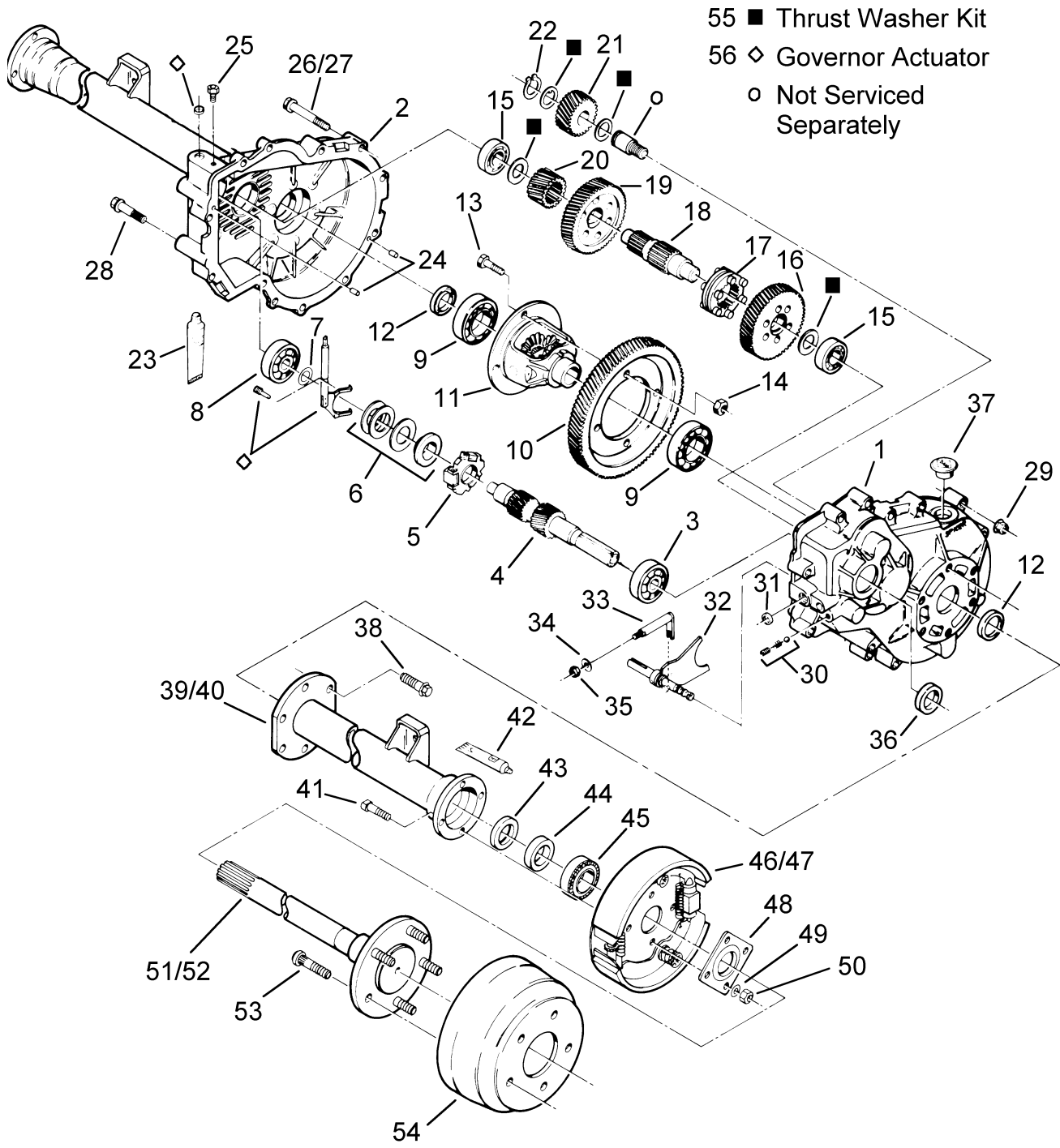
\* Item not shown

# STANDARD DANA REAR GAS AXLE & BRAKES 2002 & NEWER VEHICLES

ITEM	CPC PART #	DESCRIPTION	QTY.	SI PART #
81	---	Shield, Dust (Available as items 46m & 47m or special order)	1	---
82*	41816-86B	Kit, Spring (Includes Items 76 - 80)	1	729999
<b>HYDRAULIC BRAKES</b>				
46h	41813-02	Backing Plate Assembly, LH (Includes Items 83 - 91)	1	719137
47h*	41814-02	Backing Plate Assembly, RH (Includes Items 83 - 91)	1	719138
83	41260-02	Wheel Cylinder, Complete	1	759795
84	(see items 46 & 47)	Strut & Lever Assembly, Parking Brake, LH (Only available as items 46h & 47h or special order)	1	---
84	(see items 46 & 47)	Strut & Lever Assembly, Parking Brake, RH (Only available as items 46h & 47h or special order)	1	---
85	41818-05	Kit, Shoe & Lining Assembly, 160mm (4 Shoes)	1	759740
86	---	Cover, Parking Brake Lever Opening (Only available as special order)	1	---
87	(see item 92)	Spring, Shoe Return (Only available as item 92)	1	---
88	(see item 92)	Spring, Shoe Retaining (Only available as item 92)	1	---
89	(see items 46 & 47)	Shield, Dust (Only available as items 46h & 47h)	1	---
90	(see items 92 & 93)	Spring Clip, Shoe Retaining (Only available as item 92)	2	---
91	(see items 92 & 93)	Adjuster (Only available as items 92 & 93)	2	---
92*	---	Kit, Hardware (Includes Items 87, 88, 90, 91 - Services two brake assemblies, special order only)	1	---
93*	41732-07	Kit, Adjuster (Includes Items 91 & Installation Hardware - Services Two Brake Assemblies)	1	759796
94m*	82660-02	Complete Gas Axle with Mechanical Brakes (Includes items 1 - 58)	-	719043
94h*	82863-03	Complete Gas Axle with Hydraulic Brakes (Includes items 1 - 58)	-	719253
95*	---	Center Section, Complete (Excludes Axle Asm's 38 & 39. Only available as special order.)	1	---

\* Item not shown

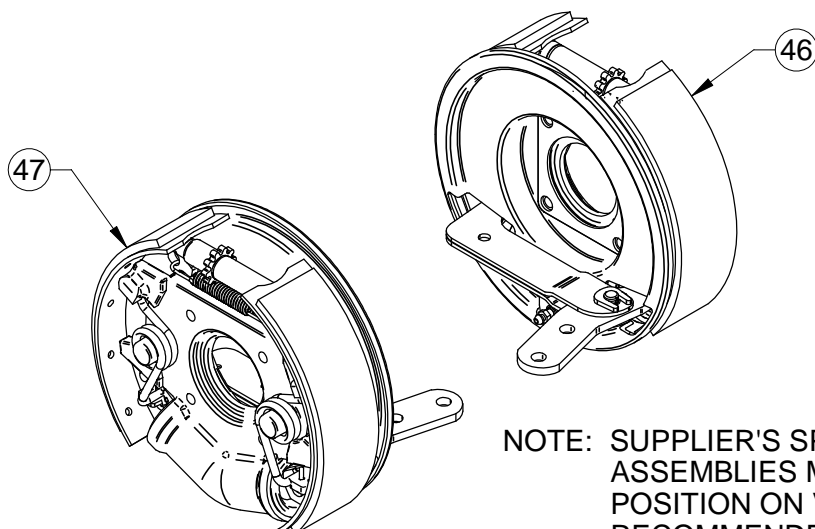
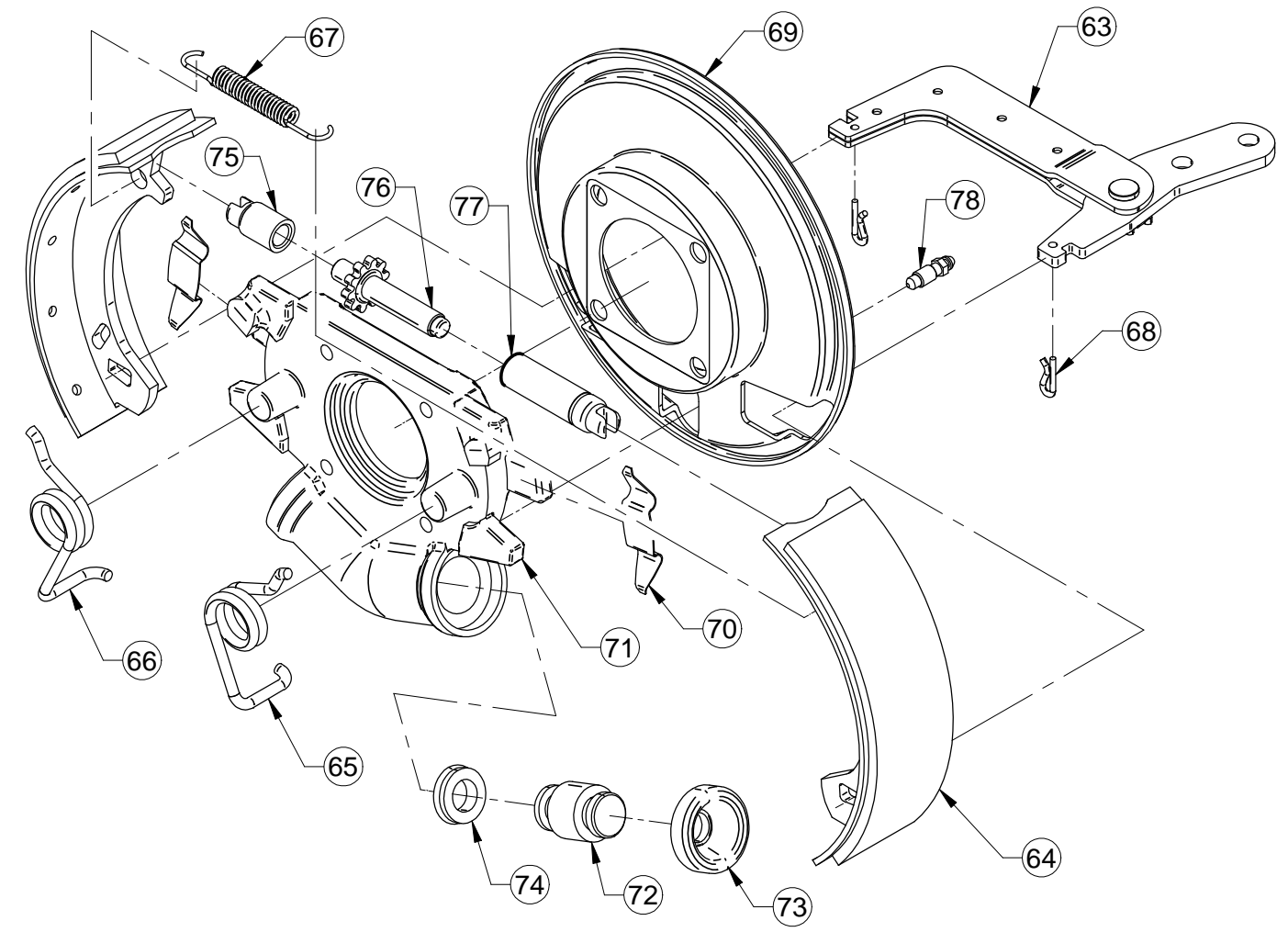
# HEAVY DUTY DANA REAR GAS AXLE & BRAKES



- 55 ■ Thrust Washer Kit
- 56 ◇ Governor Actuator
- Not Serviced Separately

REV PRELIM

# HEAVY DUTY DANA REAR GAS AXLE & BRAKES



NOTE: SUPPLIER'S SPECIFICATION OF LEFT AND RIGHT HAND ASSEMBLIES MAY NOT BE REPRESENTATIVE OF POSITION ON VEHICLE. VISUAL CONFIRMATION IS RECOMMENDED BEFORE ORDERING.

REV PRELIM

# HEAVY DUTY DANA REAR GAS AXLE & BRAKES

ITEM	CPC PART #	DESCRIPTION	QTY	SI PART #
1	(See items 61 & 79)	Axle Housing & Idler Shaft (Only available as items 61 & 79)	1	---
2	(See items 61 & 79)	Axle Housing (Only available as items 61 & 79)	1	---
3	82714-00	Bearing, Ball	1	719437
4	26803-07	Input Shaft Kit (See item 57. Includes item 5.)	1	759797
5	(See item 4)	Backing Plate Assembly (Only available as item 4)	1	---
6	82621-00	Actuating Sleeve Assembly (Only available as special order)	1	---
7	82622-00	Shim Kit (Only available as special order)	1	---
8	82810-90	Bearing, Ball	1	749419
9	90005-90	Bearing, Ball	2	749700
10	(See item 57)	Final Drive Ring Gear (Only available as item 57)	1	---
11	83212-00	Differential Case Assembly	1	749575
12	82721-00	Oil Seal	2	719045
13	N/A	Cap Screw	4	N/A
14	N/A	Lock Nut	4	N/A
15	82715-00	Bearing, Ball	2	719439
16	(See item 57)	Forward Gear Assembly (Only available as item 57)	1	---
17	82780-98	Clutch Gear (Only available as special order)	1	---
18	83241-00	Intermediate Shaft (Only available as special order)	1	---
19	83242-00	Reverse Gear Assembly (Only available as item 57)	1	---
20	82935-98	Final Drive Pinion Gear (Only available as item 57)	1	---
21	92944-98A	Idler Gear Assembly (Only available as item 57)	1	---
22	82716-00	Snap Ring (Only available as special order)	1	---
23	N/A	RTV Silicon Sealant	A/R	N/A
24	82927-98	Pin, Dowel or Straight (Only available as special order)	2	---
25	82823-67A	Vent	1	749424
26	N/A	Screw, Flange Head	13	N/A
27	N/A	Screw, Flange Head	2	N/A
28	---	(Not Required on This Assembly)	-	---
29	N/A	Nut, Lock	15	N/A

# HEAVY DUTY DANA REAR GAS AXLE & BRAKES

ITEM	CPC PART #	DESCRIPTION	QTY	SI PART #
30	82623-00	Kit, Detent (Only available as special order)	1	---
31	82720-00	Seal, Oil	1	719438
32	82624-00A	Assembly, Shift Rod (Only available as special order)	1	---
33	82625-00A	Actuator Assembly, Shift (Only available as special order)	1	---
34	N/A	Washer, Flat	1	N/A
35	N/A	Nut, Lock	1	N/A
36	82721-00	Seal, Oil	1	719045
37	90008-00	Plug, Drain/Fill	1	749704
38	N/A	Screw, Flange Head	12	N/A
39	82755-98	Tube Assembly, Left Hand (Only available as special order)	1	---
40	82754-98	Tube Assembly, Right Hand (Only available as special order)	1	---
41	N/A	Screw, Socket Head	8	N/A
42	N/A	Sealant, Anaerobic	A/R	N/A
43	83160-93	Seal, Oil	2	749547
44	83167-93	Ring, Retaining	2	749549
45	83100-73	Bearing, Taper Unit	2	749522
46	41813-93	Brake, Left Hand (Includes items 63-78)	1	729993
47	41814-93	Brake, Right Hand (Includes items 63-78)	1	729996
(L.H. and R.H. may not match your vehicle. See brake parts page to confirm assembly needed)				
48	82811-93	Seal, Oil	2	749421
49	83114-93	Washer, Flat	8	749530
50	83120-93	Nut, Lock	8	749532
51*	(See item 58)	Shaft, Axle Left Hand (Only available as item 58)	1	---
52	(See item 59)	Shaft, Axle Right Hand (Only available as item 59)	1	---
53	41199	Bolt, Wheel	10	719655
53	719463-05	Bolt, Wheel (Used on all vehicles with the 4" Scout lift due to 3/8" thick wheel spacers)	10	719463
54	82830-93	Drum, Brake	2	749427
55	82626-00	Kit, Thrust Washer (Items Not Serviced Separately)	1	---
56	82627-00	Kit, Governor Actuator (Items Not Serviced Separately. Only available as special order)	1	---
57	82777-00A	Kit, Gear (Includes items 4, 10, 16 & 19-21 - Only available as special order. Only item 4 serviced separately.)	1	

REV PRELIM

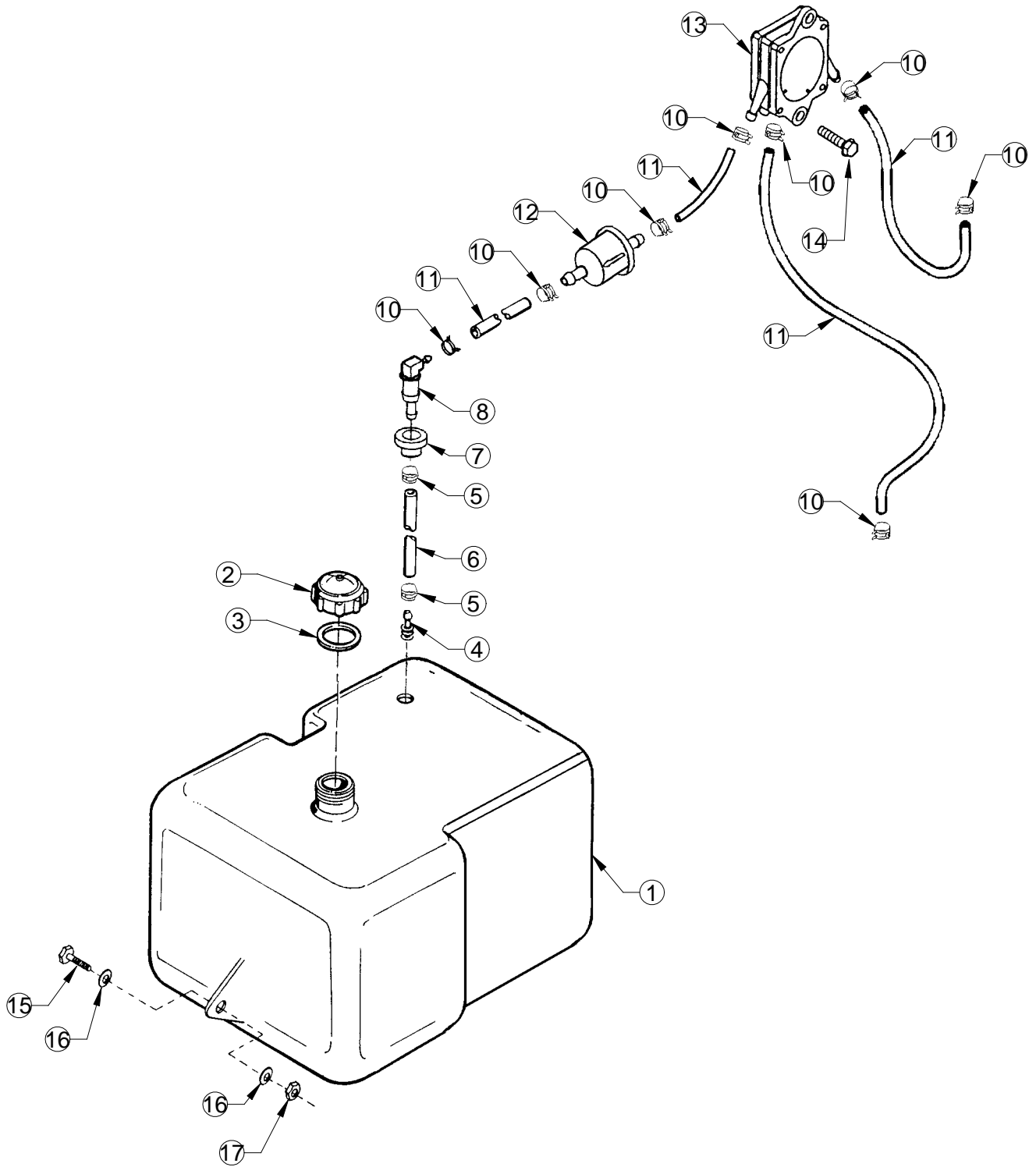


# HEAVY DUTY DANA REAR GAS AXLE & BRAKES

ITEM	CPC PART #	DESCRIPTION	QTY	SI PART #
58*	90015-00	Kit, LH Axle Shaft and Wheel Bolt	1	719157
59*	90016-00	Kit, RH Axle Shaft and Wheel Bolt	1	719064
60*	(See item 61)	Drain Plug (Only available as item 61)	1	---
61*	82747-98A	Kit, Axle Housing (Includes items 1, 2 & 60)	1	719447
62*	---	Kit, Shifter (See items 32 & 33)	-	---
<b>HYDRAULIC BRAKES</b>				
63	41894-93	Strut & Lever Assembly, Parking Brake	1	739024
64	41912-93	Shoe & Lining Assembly	2	719046
65	41914-93	Spring, Shoe Return, LH (Green or Blue)	1	739026
66	41916-93	Spring, Shoe Return, RH (Red OR Yellow)	1	739027
67	41918-93	Spring, Adjustment Screw	1	739028
68	41920-93	Pin, Retainer, Parking Brake Lever	2	739029
69	41926-93	Dust Shield	1	739030
70	41928-93	Spring, Shoe Hold Down	2	719075
71	41884-93	Torque Spider (Includes Items 72 - 74 & 78)	1	719067
72	41892-93	Piston, Wheel Cylinder (Includes Items 73 & 74)	2	739023
73	41886-93	Boot & Ring	2	739021
74	41890-93	Cup, Hydraulic	2	739022
75	41882-93	Adjustment Screw Socket	1	739020
76	41880-93	Adjustment Screw	1	719294
77	41878-93	Nut, Pivot, Adjustment Screw	1	719295
78	41888-93	Valve, Bleeder	1	719296
79*	82861-98A	Complete Axle (Includes items 1-54 & 60)	1	709995

\* Item not shown

FUEL TANK & PUMP - JULY 2006 & NEWER



# FUEL TANK & PUMP JULY 2006 & NEWER

ITEM	CPC PART #	DESCRIPTION	QTY	SI PART #
1	61251-89B	FUEL TANK	1	709671
2	61254-89	VENTED FUEL TANK CAP (INCLUDES ITEM 3)	1	709683
3	61117-71B	FUEL TANK CAP GASKET	1	739754
4	62346-96	FUEL STRAINER, W/O CHECK	1	709672
5	9903	COMPRESSION CLAMP	2	719972
6	63509-75	FUEL TANK HOSE	1	463713
7	61249-75	RUBBER BUSHING	1	709186
8	61095-84	FUEL TANK FITTING	1	709201
9*	61094-75	FITTING ASSEMBLY (INCLUDES ITEMS 7 & 8)	1	463619
10	9994	HOSE CLAMP	8	719556
11	63501-06	LOW PERMEABILITY FUEL LINE (BULK 7.5 FT)	1	463708
12	62350-96	FUEL FILTER	1	739795
13	27099-96	FUEL PUMP	1	729308
14	2653-B	SCREW, #10 X 3/4, TEK	2	719583
15	3787-B	SCREW, 1/4-20 X 3/4, HHCS, G5	2	719636
16	7422	WASHER, 1/4" X 1", FENDER	4	719856
17	7742	NUT, 1/4-20, TOP LOCK, GR B	2	719894

\* ITEM NOT SHOWN