

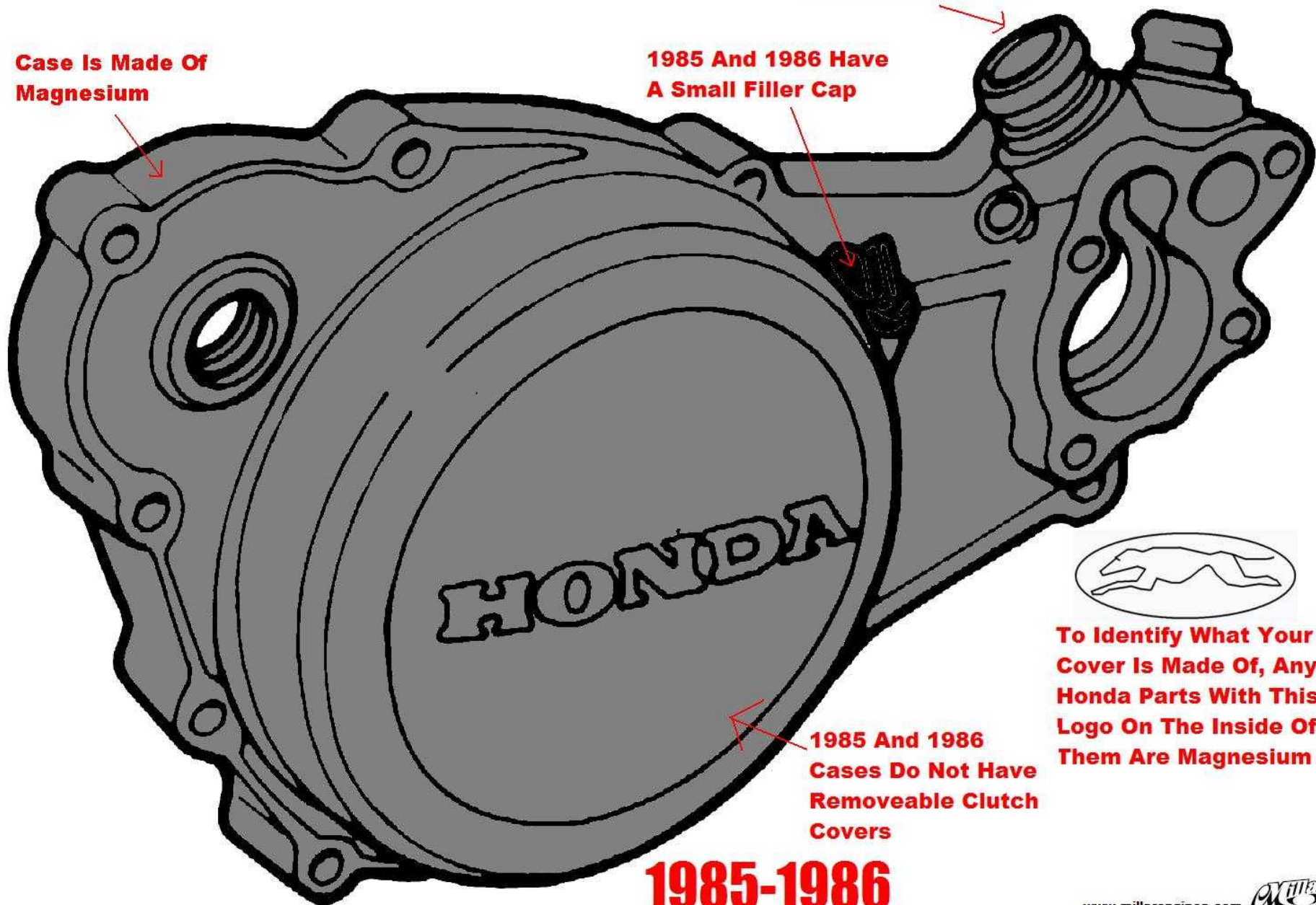
This red line represents 5mm more deck height starting in '87, as compared to the '86 and older cases. This is why the 5mm longer rod is possible for the '87 and up engines.

**This Is Honda Part Number 11340-KA5-690
Fits 1985-1986 CR500R**

**Water Outlets Are
Angled Like This
From 1985 To 1988**

**Case Is Made Of
Magnesium**

**1985 And 1986 Have
A Small Filler Cap**



**To Identify What Your
Cover Is Made Of, Any
Honda Parts With This
Logo On The Inside Of
Them Are Magnesium**

**1985 And 1986
Cases Do Not Have
Removeable Clutch
Covers**

1985-1986

**This Is Honda Part Number 11340-ML3-780
Fits 1987-1988 CR500R
Accepts Only The 1985 To 1989
Narrow Clutch Basket**

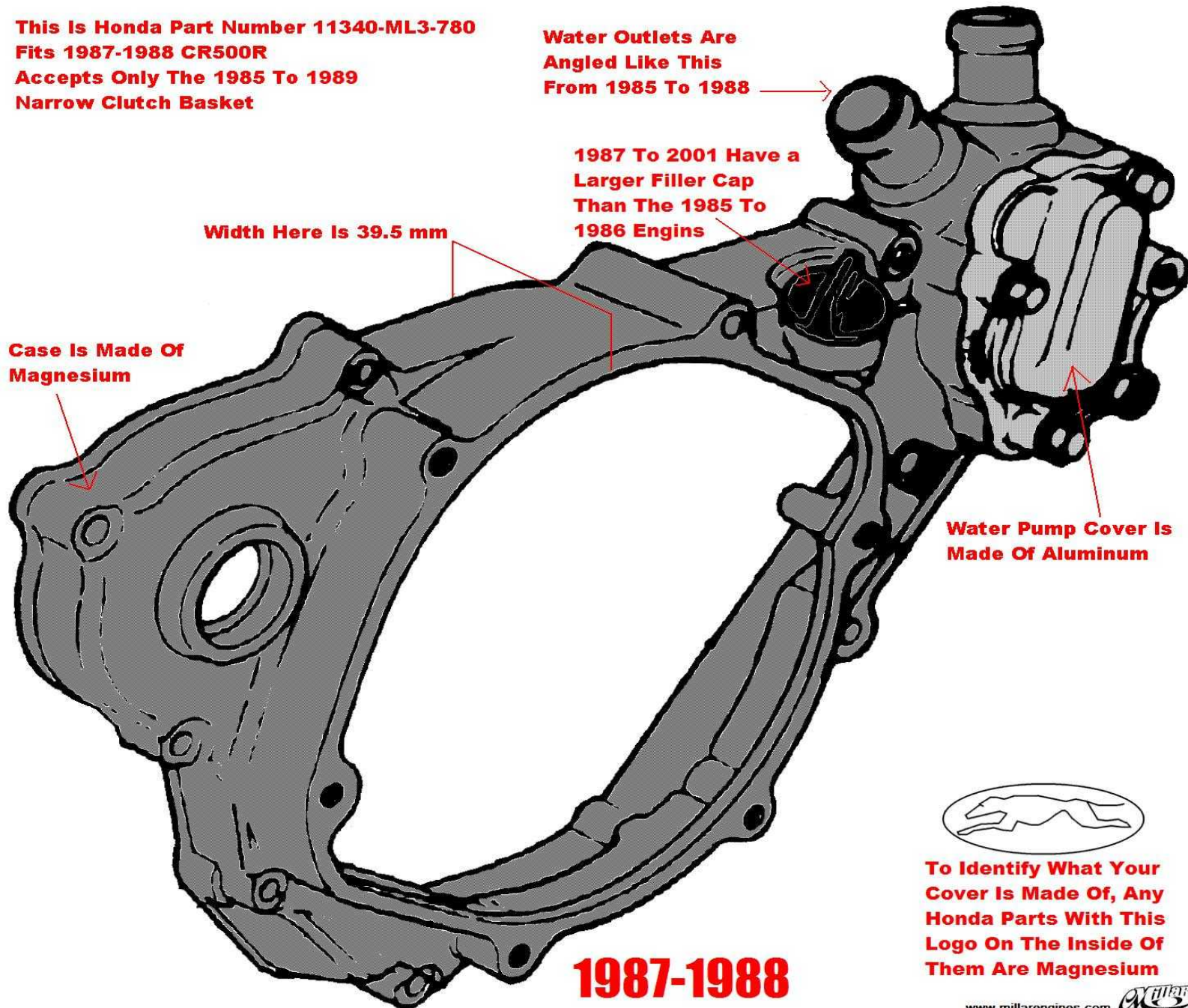
**Water Outlets Are
Angled Like This
From 1985 To 1988**

**1987 To 2001 Have a
Larger Filler Cap
Than The 1985 To
1986 Engines**

Width Here Is 39.5 mm

**Case Is Made Of
Magnesium**

**Water Pump Cover Is
Made Of Aluminum**



1987-1988



**To Identify What Your
Cover Is Made Of, Any
Honda Parts With This
Logo On The Inside Of
Them Are Magnesium**

This Is Honda Part Number 11340-ML3-680
1 Year Only Cover That Fits 1989
1989 Was The First Aluminum Cover, And The Last Year Of The Narrow Clutch Basket

1989 To 2001 Have The Water Outlets Parallel To Eachother

1987 To 2001 Have a Larger Filler Cap Than The 1985 To 1986 Engines

Width Here Is 39.5 mm

Case Is Made Of Aluminum

HONDA

1989

Clutch Cover Is Made Of Magnesium

To Identify What Your Cover Is Made Of, Any Honda Parts With This Logo On The Inside Of Them Are Magnesium

Newer Cases Have More Oil Capacity In This Area

www.millarengines.com

This Is Honda Part Number 11340-ML3-680
1 Year Only Cover That Fits 1989
1989 Was The First Aluminum Cover, And The Last Year Of The Narrow Clutch Basket

1989 To 2001 Have The Water Outlets Parallel To Eachother

1987 To 2001 Have a Larger Filler Cap Than The 1985 To 1986 Engines

Width Here Is 39.5 mm

Case Is Made Of Aluminum

HONDA

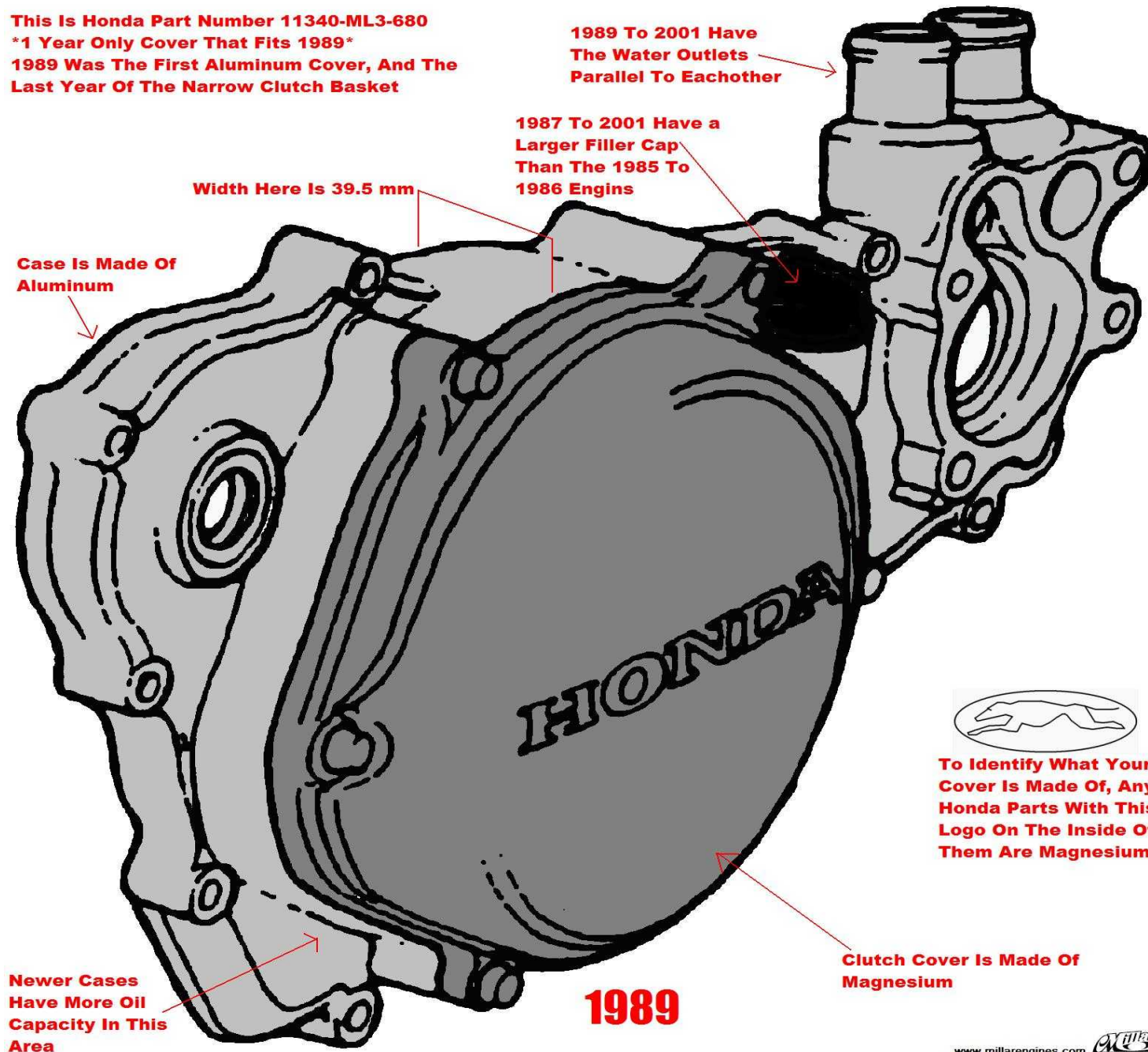
1989

Clutch Cover Is Made Of Magnesium

To Identify What Your Cover Is Made Of, Any Honda Parts With This Logo On The Inside Of Them Are Magnesium

Newer Cases Have More Oil Capacity In This Area

www.millarengines.com



This Is Honda Part Number 11340-ML3-680
1 Year Only Cover That Fits 1989
1989 Was The First Aluminum Cover, And The Last Year Of The Narrow Clutch Basket

1989 To 2001 Have The Water Outlets Parallel To Eachother

1987 To 2001 Have a Larger Filler Cap Than The 1985 To 1986 Engines

Width Here Is 39.5 mm

Case Is Made Of Aluminum

HONDA

1989

Clutch Cover Is Made Of Magnesium

To Identify What Your Cover Is Made Of, Any Honda Parts With This Logo On The Inside Of Them Are Magnesium

Newer Cases Have More Oil Capacity In This Area

www.millarengines.com

This Is Honda Part Number 11340-ML3-680
1 Year Only Cover That Fits 1989
1989 Was The First Aluminum Cover, And The Last Year Of The Narrow Clutch Basket

1989 To 2001 Have The Water Outlets Parallel To Eachother

1987 To 2001 Have a Larger Filler Cap Than The 1985 To 1986 Engines

Width Here Is 39.5 mm

Case Is Made Of Aluminum

HONDA

1989

Clutch Cover Is Made Of Magnesium

To Identify What Your Cover Is Made Of, Any Honda Parts With This Logo On The Inside Of Them Are Magnesium

Newer Cases Have More Oil Capacity In This Area

www.millarengines.com

**This Is Honda Part Number 11340-ML3-910
From a 1990 CR500R.**

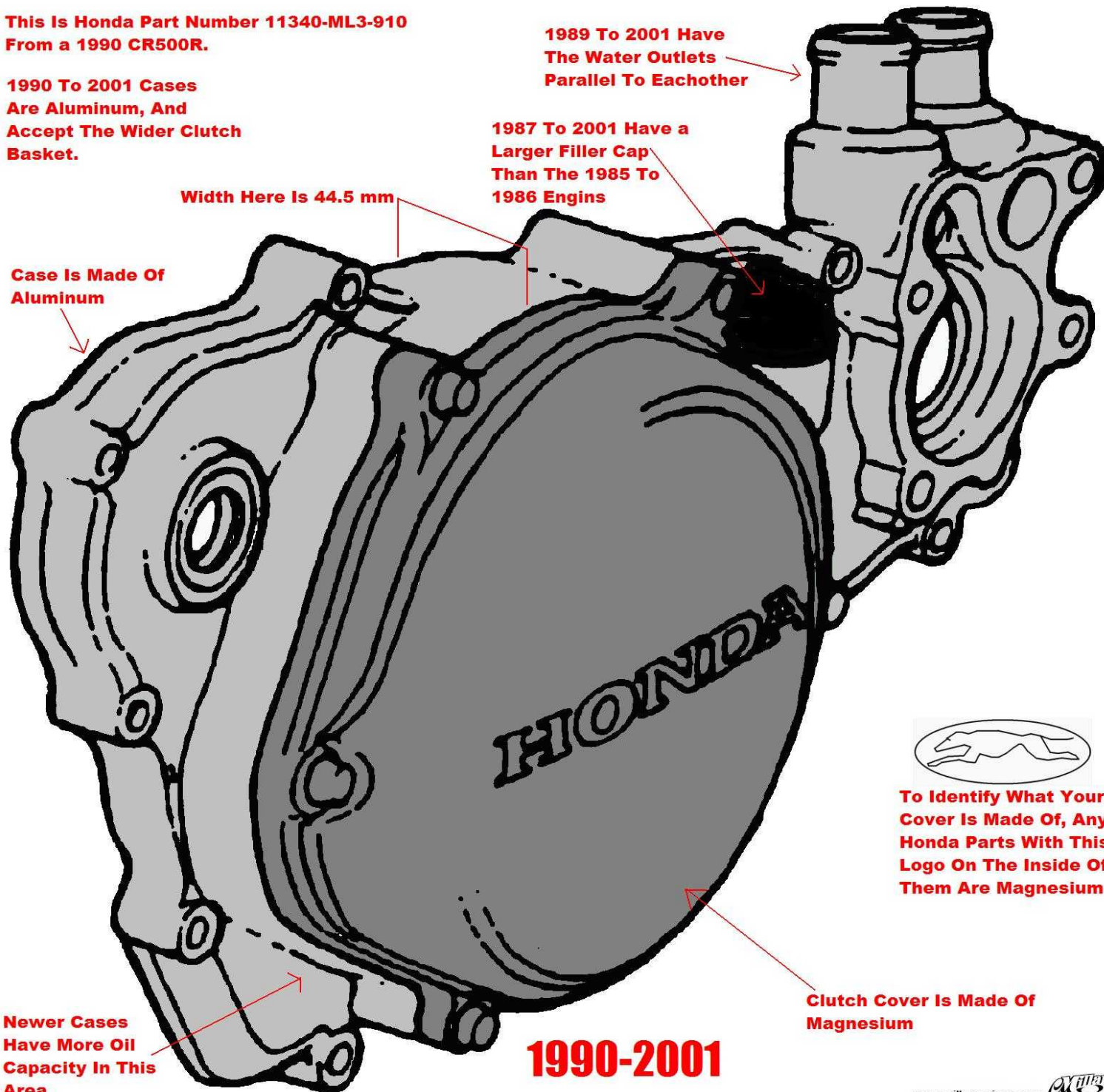
**1990 To 2001 Cases
Are Aluminum, And
Accept The Wider Clutch
Basket.**

**1989 To 2001 Have
The Water Outlets
Parallel To Eachother**

**1987 To 2001 Have a
Larger Filler Cap
Than The 1985 To
1986 Engines**

Width Here Is 44.5 mm

**Case Is Made Of
Aluminum**



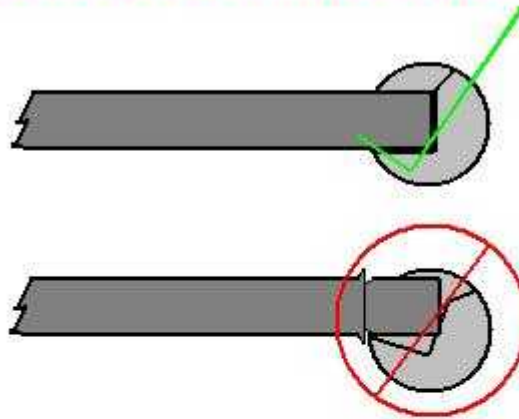
**To Identify What Your
Cover Is Made Of, Any
Honda Parts With This
Logo On The Inside Of
Them Are Magnesium**

**Clutch Cover Is Made Of
Magnesium**

**Newer Cases
Have More Oil
Capacity In This
Area**

1990-2001

CLUTCH LIFTER ROD PROBLEM

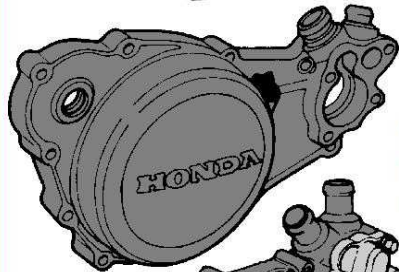
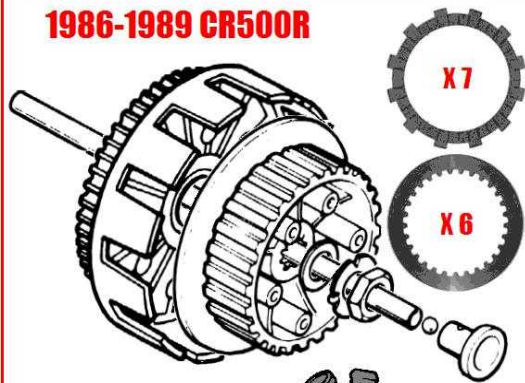


Wrong adjustment can wear the lifter rod making it flared and difficult to remove from case

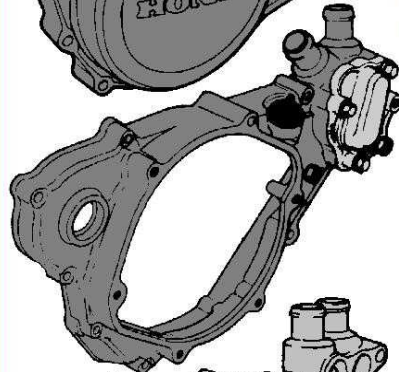
www.millarengines.com



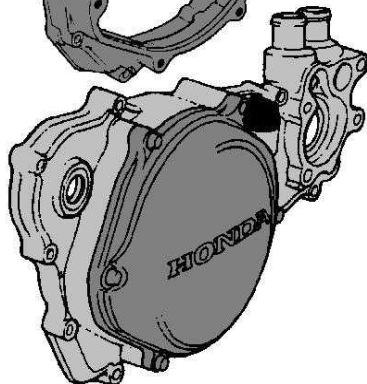
1986-1989 CR500R



1985-1986
if changing to any
'87+ cover, a larger oil
filler cap is needed
#15611-KA4-710



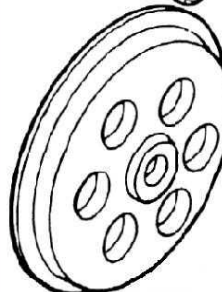
1987-1988
magnesium case, first
removeable clutch
cover



1989
first aluminum
case, new for '89
water outlet angle

basket #22100-ML3-680 push-rod #22851-KA5-740 ball #96211-09000
hub #22120-ML3-000 lifter #22352-KA4-000

Common Parts (1986-2001)

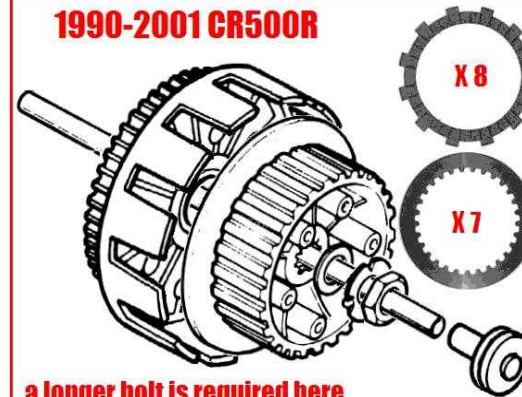


Water pump
Components also
Interchange

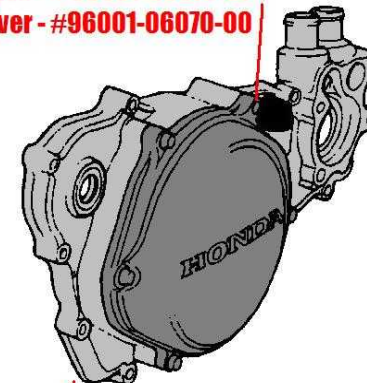


Black - 11342-KS7-701
Silver - 11342-KZ3-860

1990-2001 CR500R



a longer bolt is required here
black - # 96001-06070-07
silver - #96001-06070-00



Black - 11340-ML3-910
Silver - 11340-MAC-670

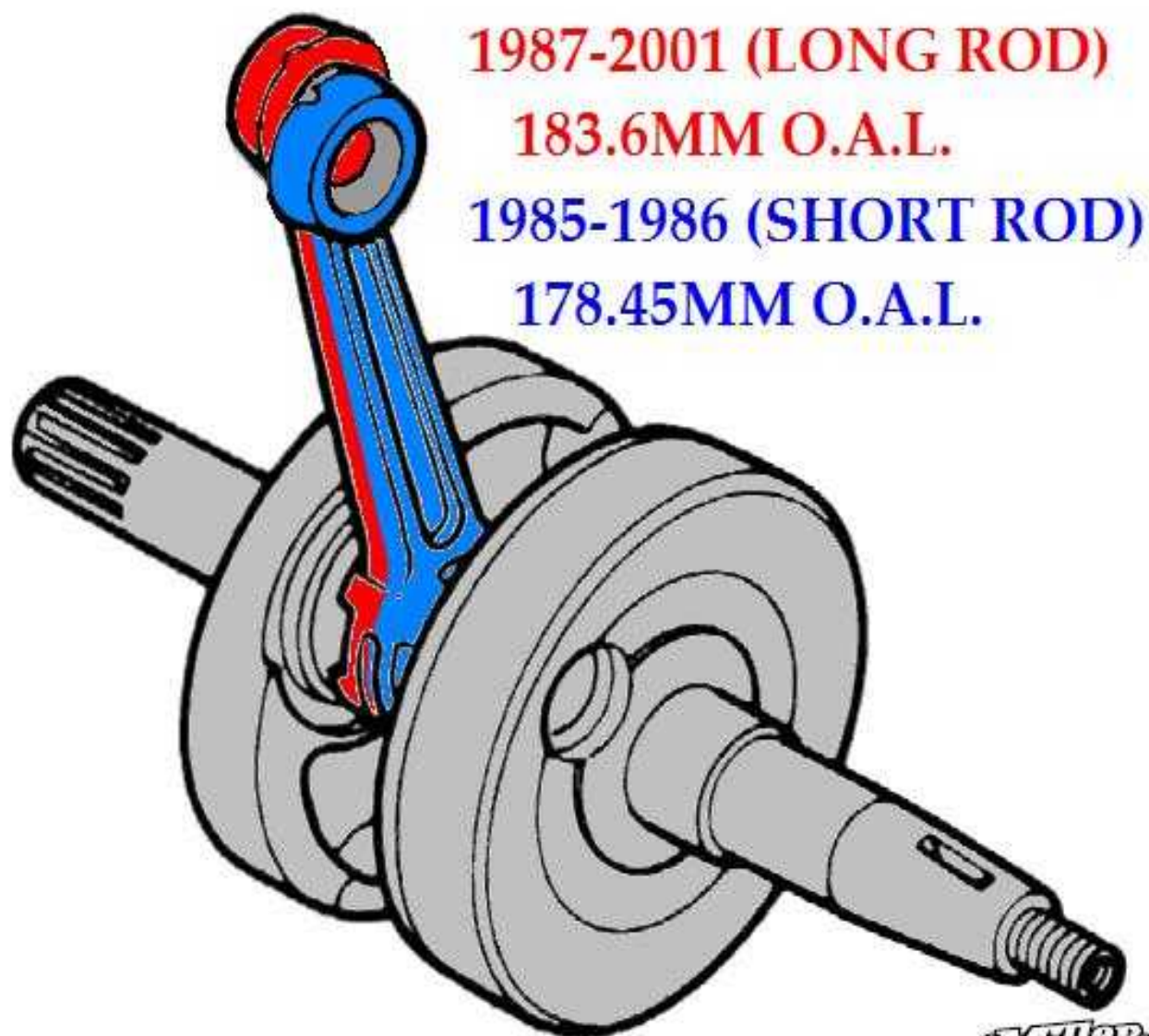
1990-2001
wide case to accept '90+
wider clutch assembly,
only paint color changes
'90-'01

basket #22100-ML3-910
hub #22120-ML3-911
push-rod #22851-MA2-670
lifter #22352-ML3-910

bearing #91001-147-003
washer #90608-072-000
clip #13115-147-000

1984-85 - Due to the smaller shaft diameter at the clutch basket bearing, it is impossible to update the clutch without changing the transmission shaft to the 1986-2001 part #23210-ML3-000, bearing hub #22106-ML3-000, bearing #91021-ML3-003, washer #90457-ML3-000, and the basket, clutch hub combination that matches the case being used.

(Case dimensions limit updating a 1984 clutch to the 1986-1989 width basket)



1987-2001 (LONG ROD)

183.6MM O.A.L.

1985-1986 (SHORT ROD)

178.45MM O.A.L.

www.millarengines.com



Water Outlet 1989-2001

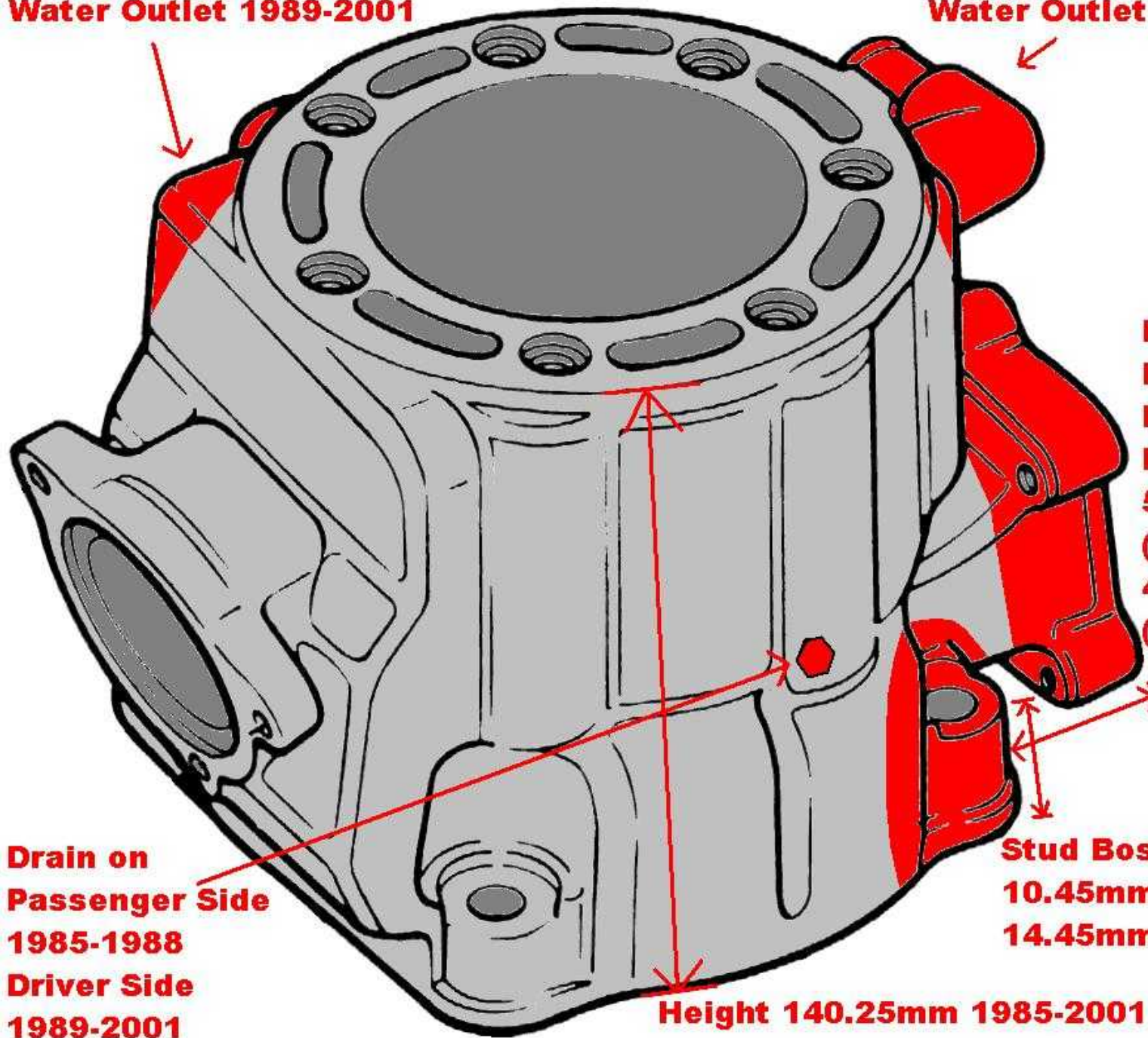
Water Outlet 1985-1988

**Drain on
Passenger Side
1985-1988
Driver Side
1989-2001**

**Reed Cage
Flange
From Stud
Boss Is
51mm
(1985-'88)
43mm
(1989-2000)**

**Stud Boss Height Is
10.45mm (1985-'88)
14.45mm (1989-2000)**

Height 140.25mm 1985-2001



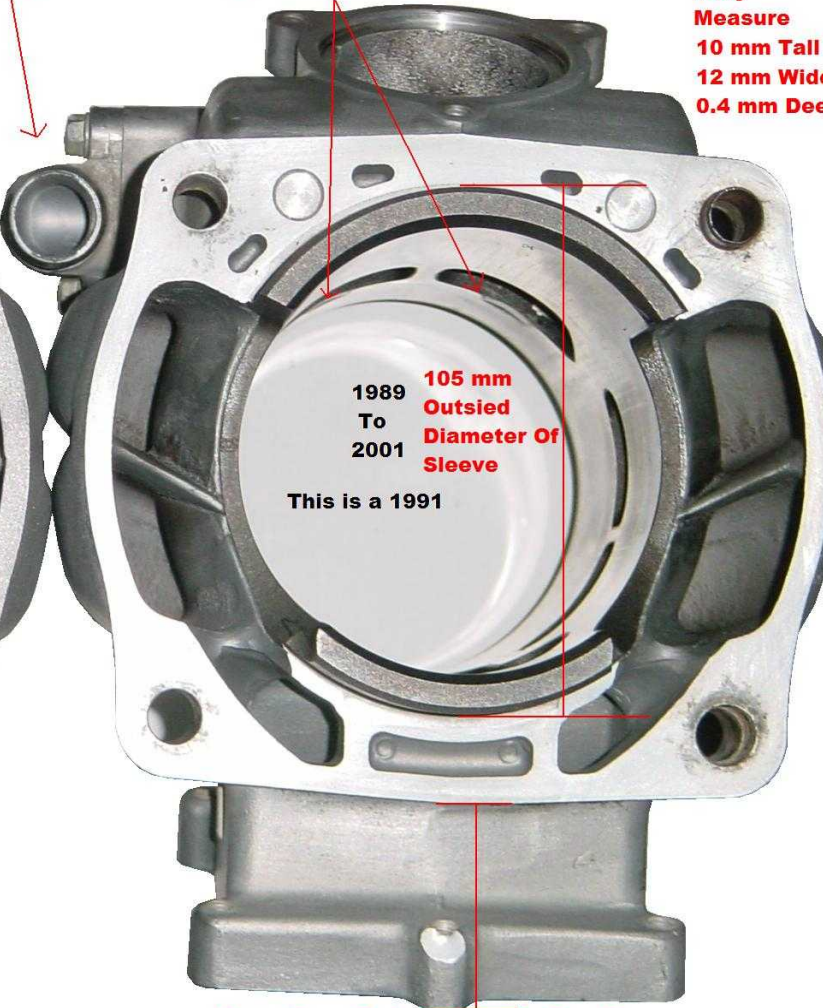
**1989-2001 Water Outlet
(1985-1988 Exits Above Reed Cage)**

**1989-2001 Stock Cylinders Have These "Scallops"
To Help With Starting**

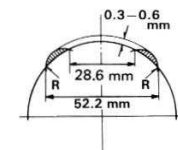
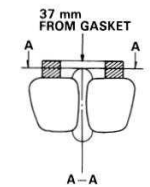
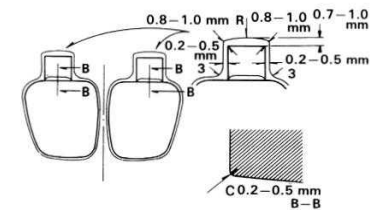
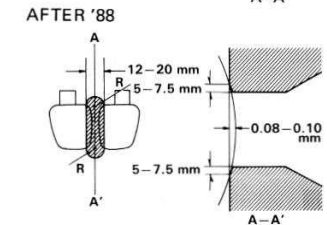
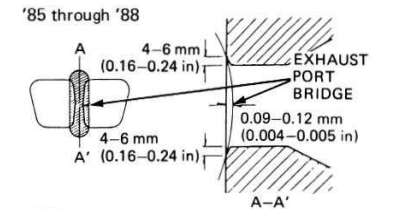
**They
Measure
10 mm Tall
12 mm Wide
0.4 mm Deep**



49 mm From Surface Edge To Reed Face

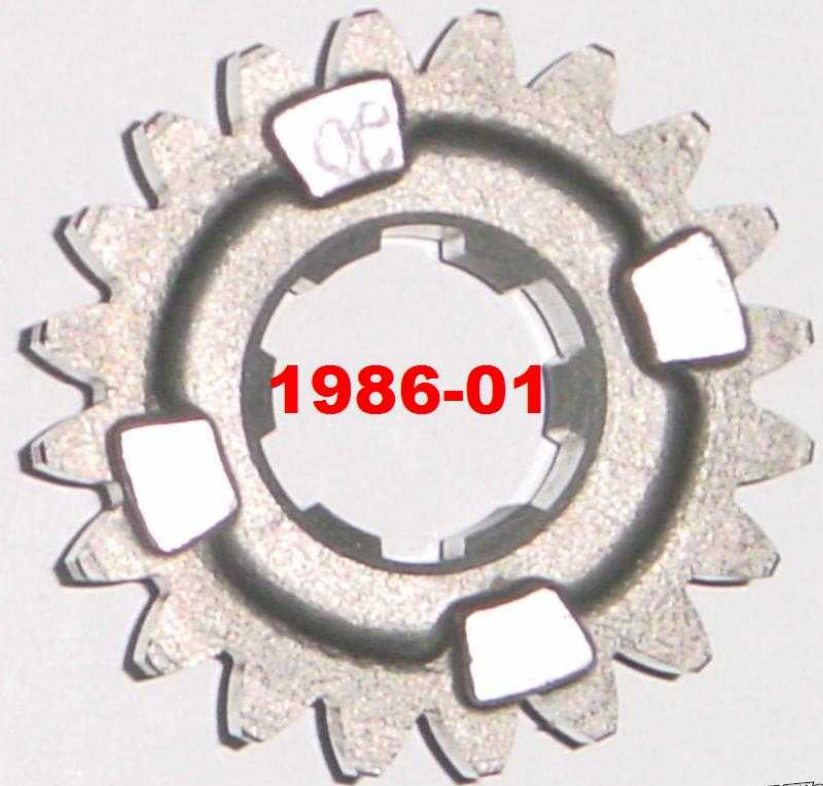
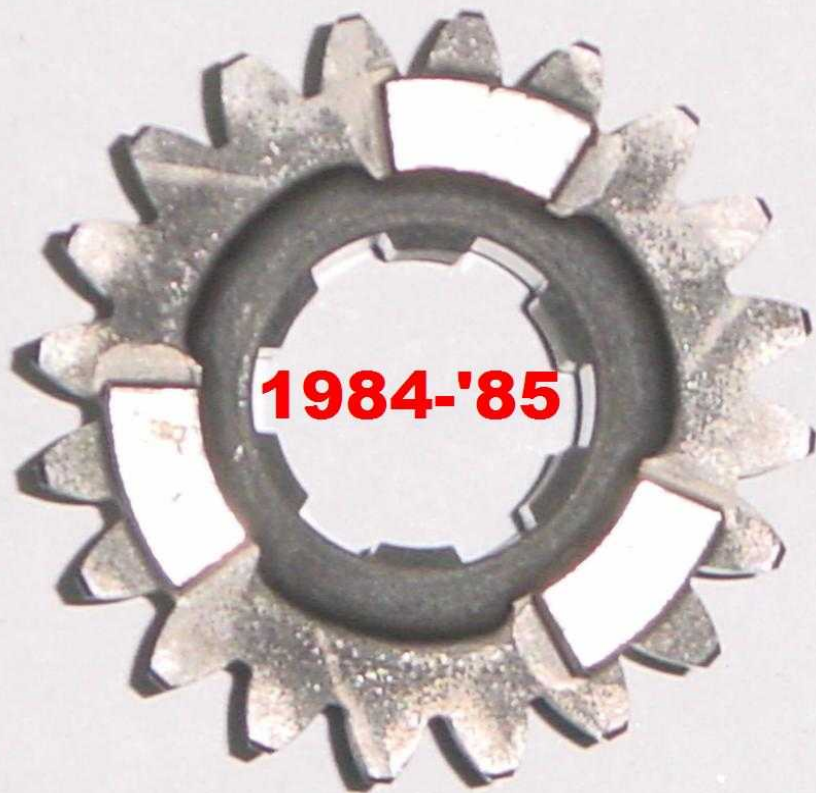


42 mm From Surface Edge To Reed Face



**Stock porting
Is Closed here**

This is Mainshaft 3rd Gear 3 and 4 dawg



**1984-1985
5R Shifter Fork
21.80 mm**



**Narrow 1984-'85 Forks Can Be Used In Newer Cases. The
Wider 1986-2001 Forks Can be used in '85, But Not '84 Cases.**

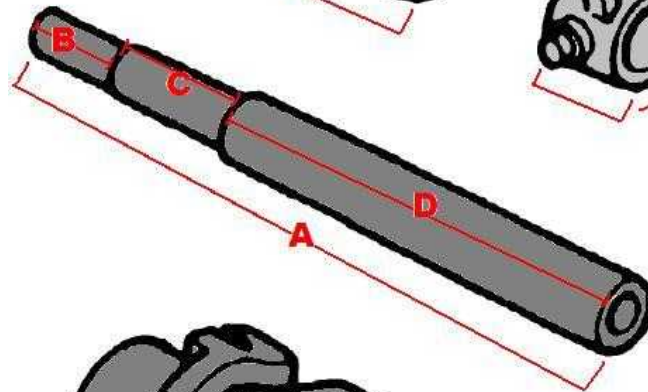
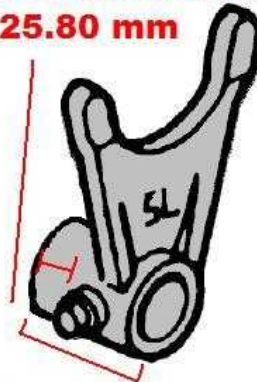


**1984-1985
5L Shifter Fork
21.80 mm**

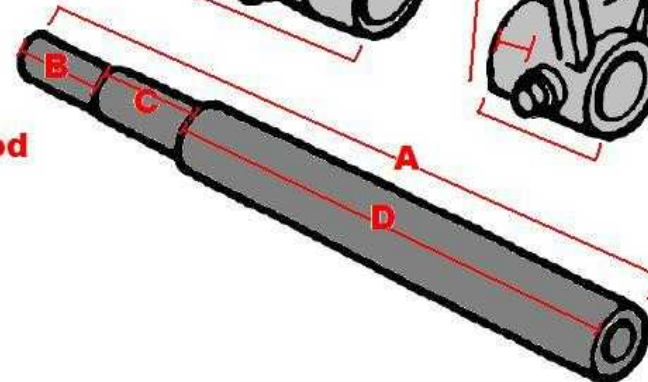
**1986-2001
5R Shifter Fork
26.80 mm**



**1986-2001
5L Shifter Fork
25.80 mm**



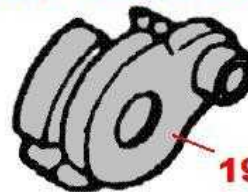
**1984 Shifter Rod
A 118.75 mm
B 20.25 mm
C 24.50 mm
D 74.00 mm**



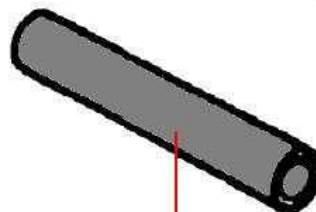
**1985-2001 Shifter Rod
A 121.75 mm
B 20.25 mm
C 19.25 mm
D 82.25 mm**



1984-2001 Shifter Drum



1985-2001

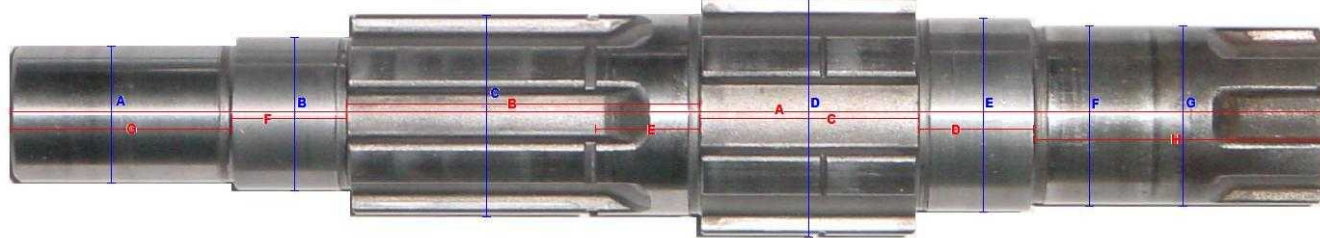


1984-2001 Shifter Rod



**1984-2001
C1 Shifter Fork**



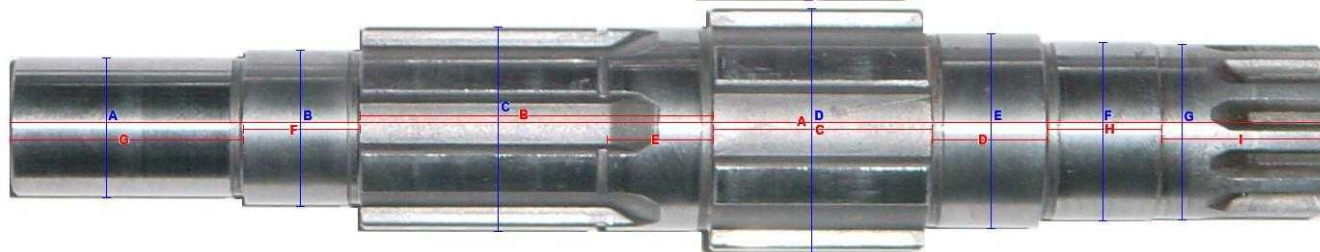


1984-1985 CR500R

A 161.50 MM	A 16.85 MM
B 42.50 MM	B 18.90 MM
C 26.25 MM	C 25.00 MM
D 14.00 MM	D 30.00 MM
E 12.75 MM	E 23.95 MM
F 14.00 MM	F 21.95 MM
G 28.00 MM	G 21.95 MM
H 35.75 MM	6 Spline

**Components to interchange
Transmission shafts in any
1984-2001 case:**

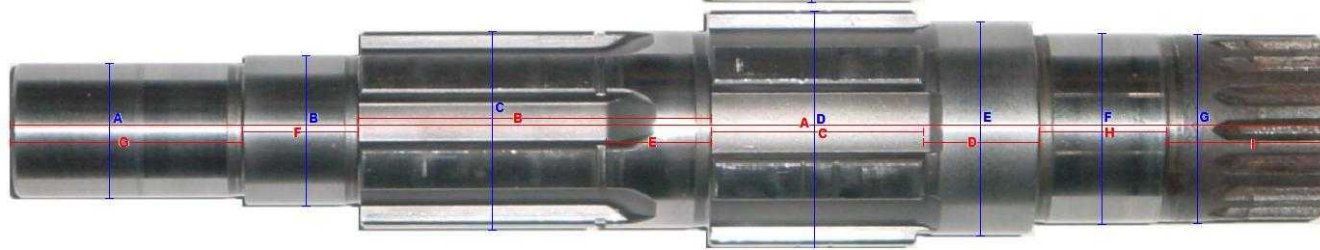
1984-1987 shafts require:
Bearing # 91001-KA4-741
Seal # 91207-ML3-003
Seal Collar # 23225-ML3-000
Collar O-ring # 91201-430-003



1986-1987 CR500R

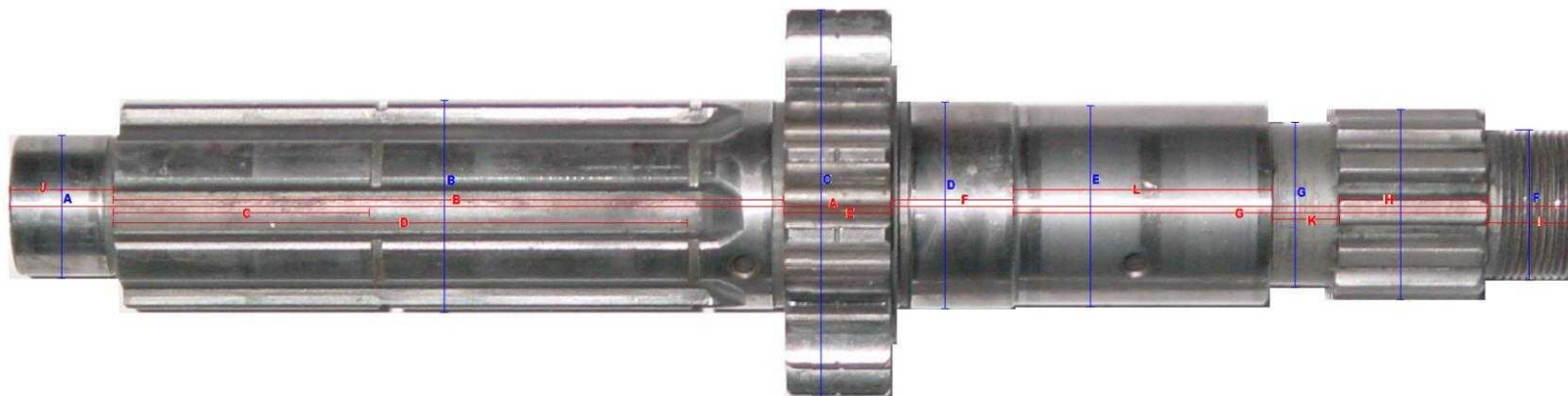
A 161.75 MM	A 16.85 MM
B 42.50 MM	B 18.90 MM
C 26.25 MM	C 25.00 MM
D 14.00 MM	D 30.00 MM
E 12.75 MM	E 23.95 MM
F 14.00 MM	F 21.95 MM
G 28.00 MM	G 21.50 MM
H 14.50 MM	11 Spline
I 21.50 MM	

1988-2001 shafts require:
Bearing # 91001-ML3-873
Seal # 91207-ML3-871
Seal Collar # 23225-MEN-730
Collar O-ring # 91201-ML3-873



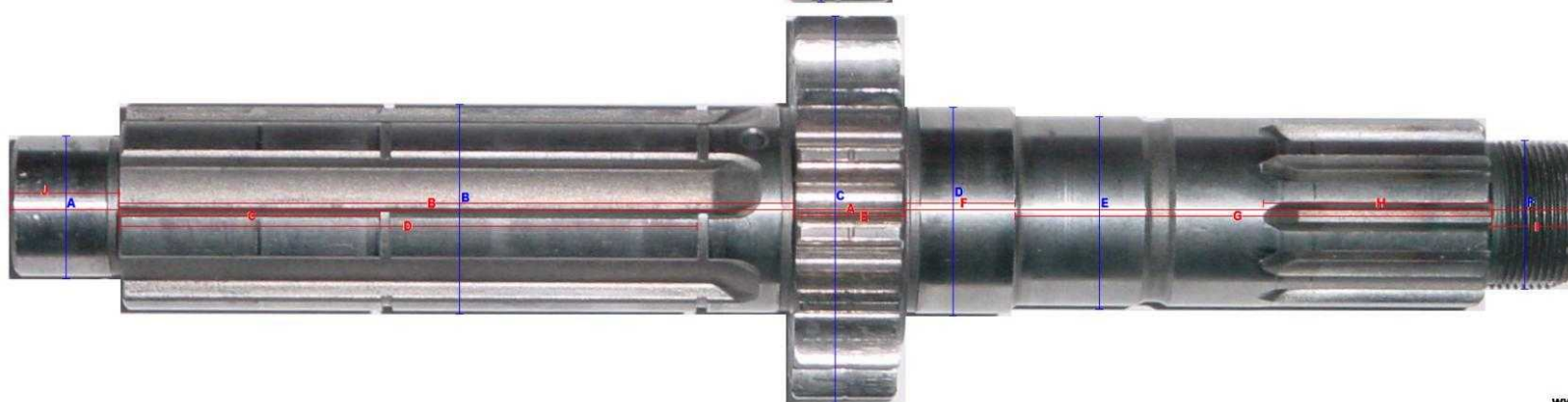
1988-2001 CR500R

A 161.75 MM	A 16.85 MM
B 42.50 MM	B 18.90 MM
C 26.25 MM	C 25.00 MM
D 14.00 MM	D 30.00 MM
E 12.75 MM	E 26.95 MM
F 14.00 MM	F 23.95 MM
G 28.00 MM	G 23.65 MM
H 14.50 MM	17 Spline
I 21.50 MM	



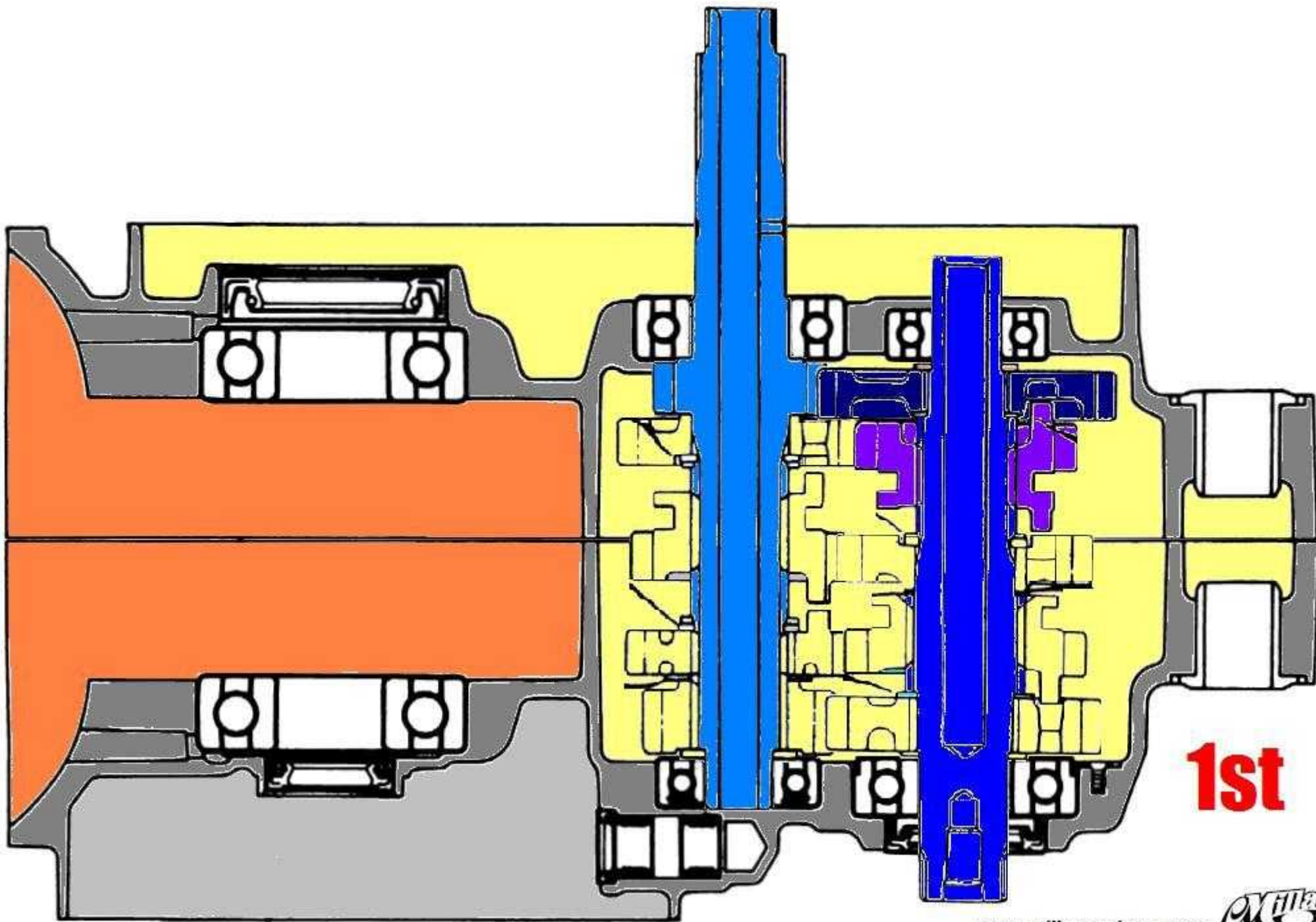
1984-1985 CR500R

A 195.60 MM	A 17.00 MM
B 97.00 MM	B 25.00 MM
C 46.00 MM	C 47.00 MM
D 85.00 MM	D 25.00 MM
E 14.00 MM	E 24.00 MM
F 13.50 MM	F 17.75 MM
G 31.50 MM	G 19.25 MM
H 18.60 MM	
I 11.50 MM	
J 13.00 MM	
K 8.00 MM	
L 31.50 MM	

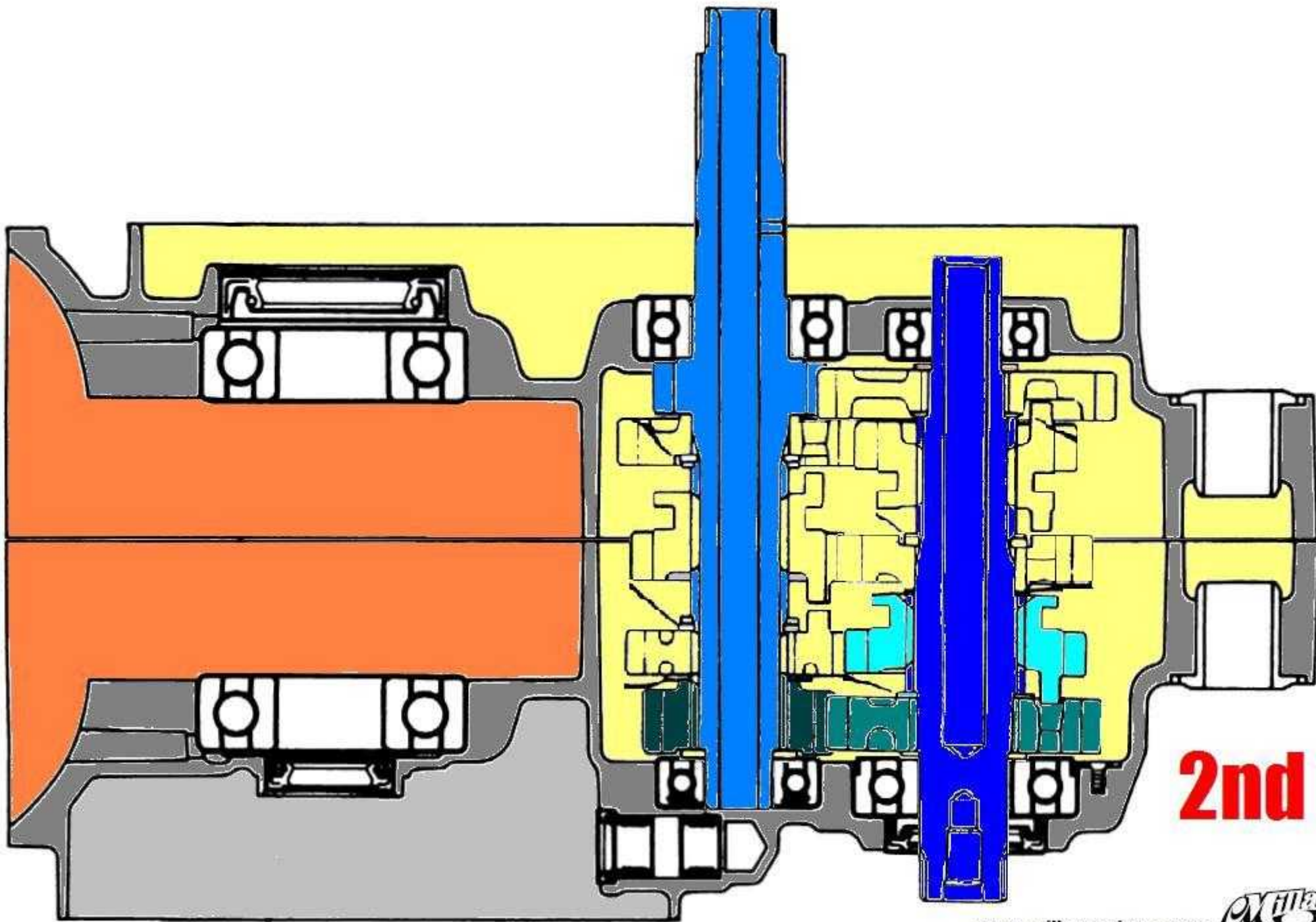


1986-2001 CR500R

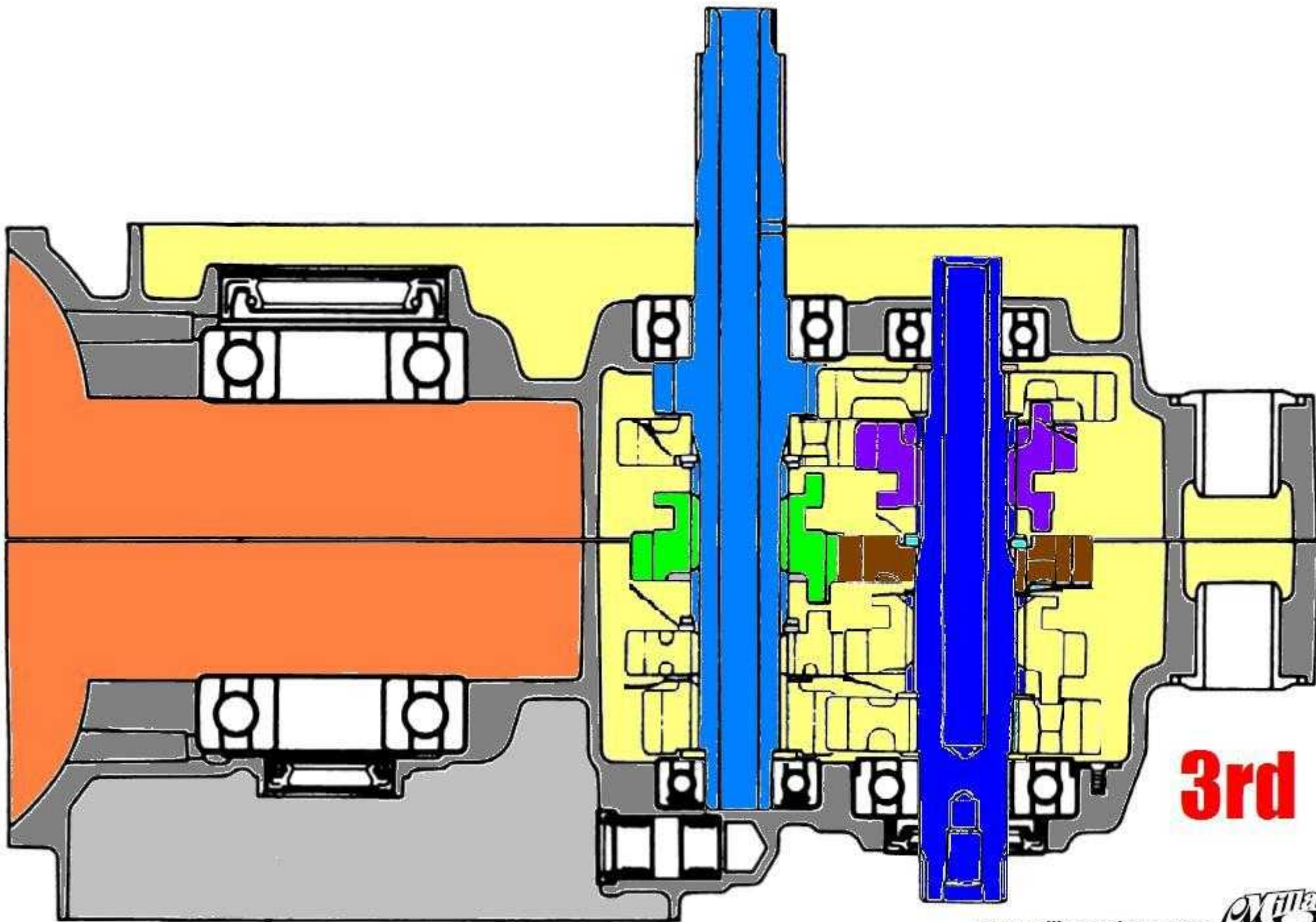
A 195.60 MM	A 17.00 MM
B 97.00 MM	B 25.00 MM
C 46.00 MM	C 47.00 MM
D 85.00 MM	D 25.00 MM
E 14.00 MM	E 23.00 MM
F 13.50 MM	F 17.75 MM
G 60.00 MM	
H 28.00 MM	
I 11.50 MM	
J 13.00 MM	



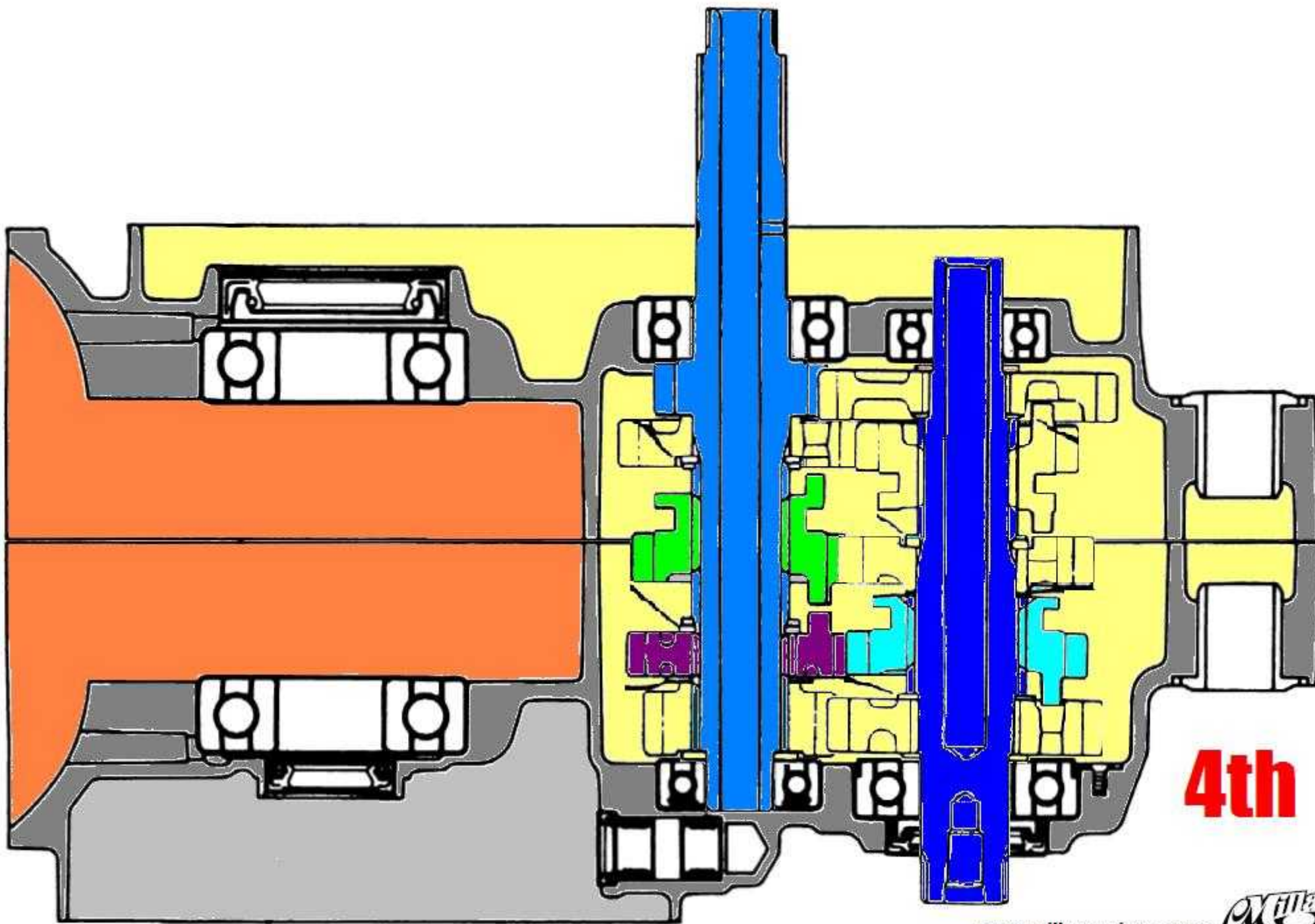
1st

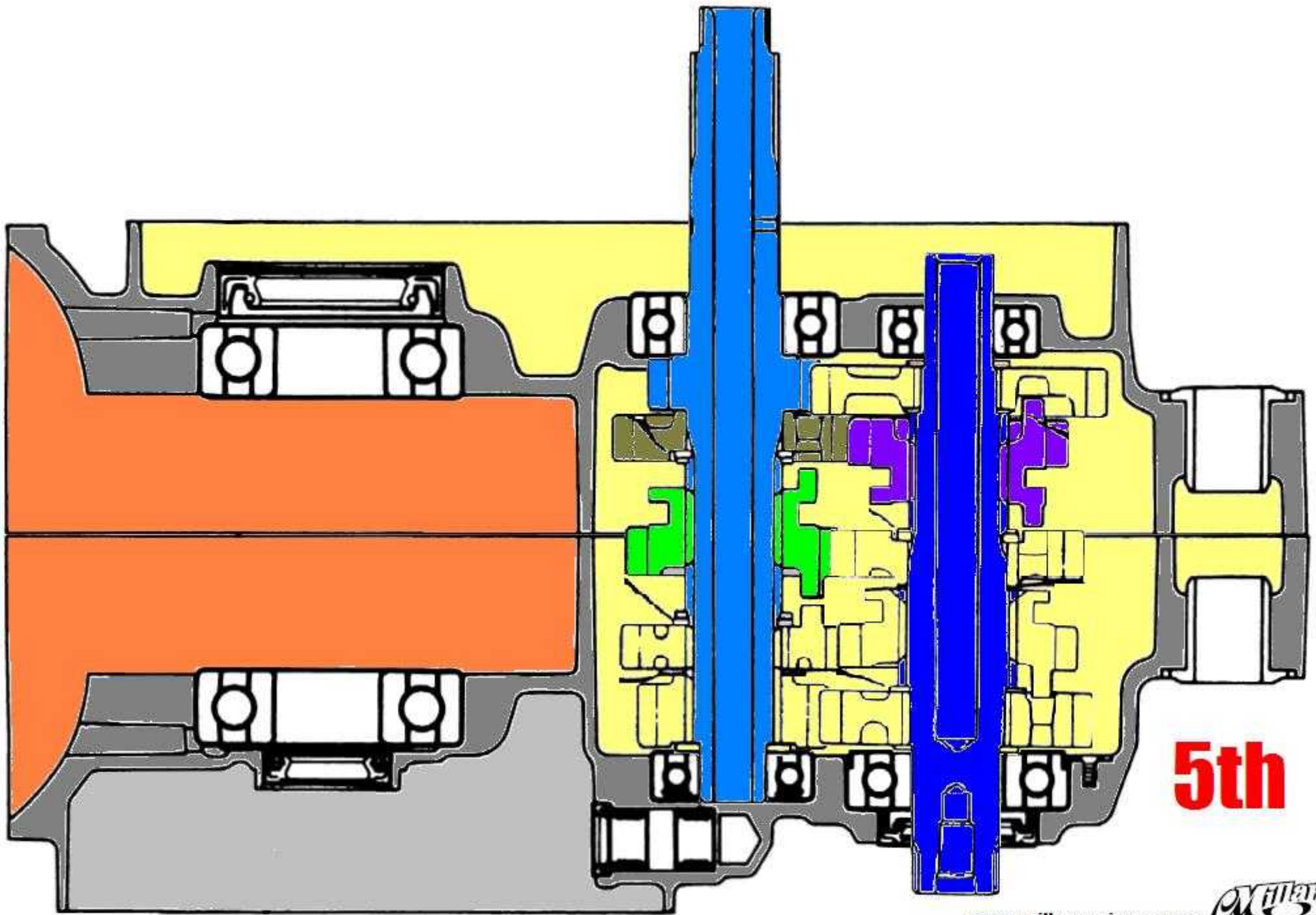


2nd



3rd





5th